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THE NATIONAL PARTS RETURN PROGRAM
Volume III: PRP News and Program Inputs

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Contract No. DOT HS- 6-01433
Contract Amt. $90,970

DEPARTMENT OF
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July 1979
FINAL REPORT

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Prepared For
U.S. DEPARTMENT OF TRANSPORTATION
National Highway Traffic Safety Administration
Washington, D.C. 20590

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TL
242
N384
v.3

Technical Report Documentation Page

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
DOT HS 805 146		

4. Title and Subtitle	5. Report Date
NATIONAL PARTS RETURN PROGRAM FINAL REPORT VOLUME 3 PRP NEWS AND PROGRAM INPUTS	1 July 1979
	6. Performing Organization Code
7. Author(s) M. Lowery, P. Karawanny, B. Miller, R. Recard	8. Performing Organization Report No. KAPPA-DOT-79-01
9. Performing Organization Name and Address Kappa Systems, Inc. 1501 Wilson Blvd. Arlington, Virginia 22209	10. Work Unit No. (TRAIS)
	11. Contract or Grant No. HS-6-01433
12. Sponsoring Agency Name and Address Department of Transportation National Highway Traffic Safety Administration Office of Defects Investigation	13. Type of Report and Period Covered Final Report 1 July1978 to 30 June 1979
	14. Sponsoring Agency Code N41-60

15. Supplementary Notes

16. Abstract

The National Parts Return Program involves the voluntary submittal by independent automotive repair facilities of failed automotive components and information. The purpose of the program is to gather information on these components and failure reports to assist the NHTSA in identifying the existence of safety-related manufacturing defects in design, materials, construction or performance of motor vehicles and motor vehicle equipment. Under authority of the National Traffic and Motor Vehicle Safety Act of 1966, as amended, the NHTSA can require manufacturers to conduct safety defect recall remedy campaigns when it has been determined that a defect relating to motor vehicle safety exists. In addition, the information obtained from these parts and reports is valuable in preparing Federal Motor Vehicle Safety Standards.

DEPARTMENT OF TRANSPORTATION
DEC 28 1979
LIBRARY

17. Key Words	18. Distribution Statement
Parts Return Program Defects Investigation	Document is available to the public through the National Technical Information Service, Springfield, Virginia 22161

19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of Pages	22. Price
unclassified	unclassified	266	

Form DOT F 1700.7 (8-72) Reproduction of form and completed page is authorized

METRIC CONVERSION FACTORS

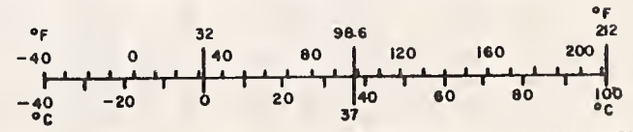
Approximate Conversions to Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
	LENGTH			
in	inches	*2.5	centimeters	cm
ft	feet	30	centimeters	cm
yd	yerds	0.9	meters	m
mi	miles	1.6	kilometers	km
	AREA			
in^2	square inches	6.5	square centimeters	cm^2
ft^2	square feet	0.09	square meters	m^2
yd^2	squere yerds	0.8	square meters	m^2
mi^2	squere miles	2.6	square kilometers	km^2
	ecres	0.4	hectares	he
	MASS (weight)			
oz	ounces	28	grams	g
lb	pounds	0.45	kilograms	kg
	short tons (2000 lb)	0.9	tonnes	t
	VOLUME			
tsp	teaspoons	5	milliliters	ml
Tbsp	tablespoons	15	milliliters	ml
fl oz	fluid ounces	30	milliliters	ml
c	cups	0.24	liters	l
pt	pints	0.47	liters	l
qt	quarts	0.95	liters	l
gal	gellons	3.8	liters	l
ft^3	cubic leet	0.03	cubic meters	m^3
yd^3	cubic yards	0,76	cubic meters	m^3
	TEMPERATURE (exact)			
°F	Fahrenheit temperature	5/9 (efter subtrecting 32)	Celsius temperature	°C

*1 in = 2.54 (exactly). For other exact conversions and more detailed tables, see NBS Misc. Publ. 286, Units of Weights and Measures, Price $2.25, SD Catalog No. C13.10:286.

Approximate Conversions from Metric Measures

Symbol	When You Know	Multiply by	To Find	Symbol
	LENGTH			
mm	millimeters	0.04	inches	in
cm	centimeters	0.4	inches	in
m	meters	3.3	feet	ft
m	meters	1.1	yards	yd
km	kilometers	0.6	miles	mi
	AREA			
cm^2	square centimeters	0.16	square inches	in^2
m^2	square meters	1.2	square yards	yd^2
km^2	square kilometers	0.4	square miles	mi^2
ha	hectares (10,000 m^2)	2.5	acres	
	MASS (weight)			
g	grams	0.035	ounces	oz
kg	kilograms	2.2	pounds	lb
t	tonnes (1000 kg)	1.1	short tons	
	VOLUME			
ml	milliliters	0.03	fluid ounces	fl oz
l	liters	2.1	pints	pt
l	liters	1.06	quarts	qt
l	liters	0.26	gellons	gal
m^3	cubic meters	35	cubic feet	ft^3
m^3	cubic meters	1.3	cubic yards	yd^3
	TEMPERATURE (exact)			
°C	Celsius tempereture	9/5 (then add 32)	Fahrenheit temperature	°F



Acknowledgments

This work was performed under contract number DOT HS-6-01433. KSI's Contract Technical Manager was Mr. Gary Woodford, Engineering Analysis Division, Office of Defects Investigation, National Highway Traffic Safety Administration, whose assistance is gratefully acknowledged. KSI would also like to recognize the support for this project provided by Mr. William Risteen, Acting Chief, Engineering Analysis Division, Office of Defects Investigation, NHTSA. Lastly, we wish to express our appreciation to Ms. Joanna Schneider for her patient secretarial support.

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BEST COPY AVAILABLE OF SECTION 1

PRP NEWSLETTER ARTICLES

July 1978 - June 1979

STEERING

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
7/78			'73-75 Pinto, Mustang II, Bobcat - steering coupling flange '75 Monarch - hydraulic pressure hose		-- Fiat 128, rack & pinion steering	
8/78			'77 LTD - hydraulic booster '77-78 Lincoln - hydraulic booster			
1/79		'76 Cordoba - power steering	'74-77 Ford light trucks and vans - investigation - steering gear box -- F-350 trucks - frame flange			
2-3/79	'77 Series 10 van - steering box	'77 B 300 - steering box	'76 F-250 - steering box '76 E100, E150, E250, E350 vans - steering gear			

PRP NEWSLETTER ARTICLES

July 1978 - June 1979

SUSPENSION

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
8/78	'75 Monza - front wheel bearing and spindle failure					
9/78		'75-76 Dodge Van - rear spring hanger --Dodge Van - ball joint				
11-12/78		'78 Dodge pick-up - coilspring 76-78 Volare, Aspen - recall - support brackets				
1/79	'78-79 Intermediate - front spindle	'78 Custom 300 front spindle				
2-3/79		'76 Aspen - torsion bar				
4/79	'78-79 Intermediate - front spindle	'77 Fury - control arm '74 Monaco - control arm				
6/79					'75 Super Beetle-McPherson Strut cartridges	

PRP NEWSLETTER ARTICLES

July 1978 - June 1979

WHEELS, TIRES

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
7/78					73-77 Fiat 128, X 1/9 - Front wheel bearings	Tire grading regulations
8/78						Firestone 500's - initial determination
10/78						multi-piece wheels - engineering analysis
11-12/78	'75 Monza, Starfire, Skyhawk - recall - front wheel bearing					Firestone 500's - recall Uniroyal tires
2-3/79			F 350 -lug studs			multi-piece wheels - engineering analysis
4/79	'77 Impala - tires					tire grading regulations
5/79			'78-79 Ford 9000 - wheel			
6/79						Uniroyal tires - investigation Firestone 500's-recall T-type spare tire

PRP NEWSLETTER ARTICLES
July 1978 - June 1979

BRAKES

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
7/78		'73-74 Valiant, Dart - brake hoses				
9/78	'76 Seville - brake release					
11-12/78	'76 Luv - brake power booster unit	-- B 300 - disc brake caliper			'75-78 Rabbit, Scirocco - investigation - master cylinders '74-78 Dasher, Audi - investigation - master cylinders	
1/79		'77 B 200, B 300 - brake piston '77 Aspen - brake piston '77 B 200 - brake hose				
2-3/79	78-79 Intermediate - master cylinder 78-79 Intermediate - combination value 78-79 Intermediate - brake caliper	'78 Aspen - brake piston			'75-78 Rabbit, Scirocco - Investigation - master cylinders '74-78 Dasher, Audi - investigation - master cylinders	

BRAKES (Cont.)

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
4/79	'78-79 Intermediate - master cylinder '78-79 Intermediate - combination value '78-79 Intermediate - brake caliper	'77 Aspen - brake piston '76 Dart, Valiant - brake piston '76-78 Aspen, Volare - brake piston '77-78 LeBaron, Diplomat -brake piston '78 Cordoba, Charger - brake piston				
5/79		'77 Volare - brake hose '77 Aspen - brake piston			'75-76 Rabbit, Sclrocco - investigation - master cylinder '74-76 Audi, Dasher - investigation - master cylinder	
6/79	'78 Cutlass - brake lines	'77 Volare - brake lines.				

PRP NEWSLETTER ARTICLES

July 1978 - June 1979

ENGINE

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
7/78		'77 Arrow - timing chain				
8/78	'77 Oldsmobile - V-6 stalling '77 Buick - V-6 stalling '77 Pontiac - V-6 stalling					
10/78	'76 Chevette - timing belt					
11-12/78		'77 Volare - manifold				
2-3/79			'77 Pinto - camshaft gear			
4/79	'77-78 Monza, Sunbird, Starfire - recall - engine mount					
5/79	'78 Nova - vacuumline					
6/79			'74 Mustang II - camshaft gear		'77 Volvo 242 - motor mount	

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
7/78	'65-72 GM - carb float C-44 --Chevrolet - fuel hose --Oldsmobile - fuel hose		'74 Pinto - carb float '74 Mustang II - Carb float '74 Mustang II - Carb float '75-76 Granada, Monarch - fuel line -- Ford - fuel hose		--Fiat - fuel hose	carb floats - Holley, Carter, Autolite, Rochester
8/78			'75 Thunderbird - EGR plate '77 F100 - EGR valve			
9/78	'78 Caprice - fuel filter '78 Buick - fuel filter	'78 Colt - fuel pump	'77 LTD - accelerator pump diaphram		'76 Datsun 28Z - electronic fuel injection unit	
10/78	'73 Electra - fuel lines		'76 Ford Truck - fuel pump '71 LN 600 - fuel tank '73 LTD - EGR Plate	'75 Wagoneer, Cherokee - fillerneck	'78 Subaru Brat - recall - fuel tank --Volvo - filler neck --Volvo - fuel lines	carb floats
11-12/78		'78 Monaco - carburetor	--Ford - EGR Plate			

PRP NEWSLETTER ARTICLES
July 1978 - June 1979

FUEL SYSTEMS (Cont.)

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
1/79			--Pinto - recall - fuel system '75 Pinto - fuel tank shield		'75 & 76 Triumph TR-7 - fuel pump	
2-3/79			'78 Marquis - choke assembly	'75 Wagoneer - filler neck	'77-78 Subaru - recall throttle valve '77 MG - catalytic converter	fuel hoses
5/79		'77 Fury - tailpipe	'70-73 Maverick - initial determination - fuel tank '71-73 Comet - initial determination - fuel tank			

PRP NEWSLETTER ARTICLES
July 1978 - June 1979

POWER TRAIN

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
7/78	-- Gran Prix - Axle seals		'74 Mustang II - clutch cable -- Pinto - clutch cable			
8/78	-- Chevette - gear shift lever					
9/78			'73-78 Ford, Lincoln, Mercury-gear selector lever			
11-12/78		'76 Volare-ring & pinion gear assembly				
2-3/79				'78 Concord - shift linkage		
4/79						70-79 Borg Warner C-4, C-3, Jatco - automatic transmissions 70-78 C-6, FMX - automatic transmissions
5/79					74-78 Jaguar XJ6 - Selector lever	

PRP NEWSLETTER ARTICLES
July 1978 to June 1979

ELECTRICAL SYSTEM

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
11-12/78			'78 Pinto - ignition amplifier	'77 Pacer - distributor '75-76 AMC - distributor cap	'75 MGB - ignition amplifier	
2-3/79				'75 Hornet - spark advance units		
5/79				--AMC - electronic ignition		
6/79			'79 Lincoln - ignition amplifier '78 Mercury - ignition amplifier '77 Lincoln - ignition amplifier			

PRODUCT RECALLS

July 1978 - June 1979

HORN/LIGHTING

Date Month/Year	Vehicle or Equipment Manufacturers					Equipment
	General Motors	Chrysler	Ford	AMC	Imports	
8/78						High intensity Auto headlamps
11-12/78						turn signal switches

VISIBILITY

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
10/78			'78 Fairmont, Zephyr– recall - windshield wiper linkage			

PHP NEWSLETTER ARTICLES

July 1978 - June 1979

VENTILATION

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
10/78					'77 Porshe 911 - investigation - air conditioning	
2-3/79			'79 LTD - heater			

STRUCTURE

Date	Vehicle or Equipment Manufacturers					
Month/Year	General Motors	Chrysler	Ford	AMC	Imports	Equipment
2-3/79			'71-74 Pantera - Investigation - underearriage		'70-71 Fiat 850 Spyder - recall - undercarriage '70-74 Fiat 850 & 124 - initial determination - underearriage	
5/79	-- GMC - structure	'77 B 300 - frame '73 Polara - front supports	'72 Mereury- frame			
	'68 & 75 Chevrolet - frame	'70 Duster - frame				
	'68 Pontiac - frame	'76-78 Volare, Aspen - pivot bar support				

July 1978 - June 1979

ACCESSORIES

Date Month/Year	Vehicle or Equipment Manufacturers: General Motors	Chrysler	Ford	AMC	Imports	Equipment
8/78						Cruise control
9/78						Scissors jack - Hein Werner hydraulic jack - Hein Werner hydraulic floor roller jack - Hein Werner
11-12/78			'73 Continental - cruise control			

parts return program news

U.S. DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4 No. 1 July 1978

CARBURETOR FLOAT SATURATION REPORTS

Champion Parts Rebuilders, Inc. of Oakbrook, Illinois, recently submitted to the PRP detailed information on carburetor float saturation in a variety of models. According to Champion, which services over one million carburetors per year, problems have been encountered with nitrophyll carburetor floats. The floats are made of a closed cell, plastic composition material but begin to absorb gasoline after a few years of service, according to Champion. This can cause carburetor flooding and thus creates a potential for engine compartment fires.

Champion reports that among 1974 and 1975 carburetors being serviced, saturated floats run as high as 80%. Carburetors affected include a wide variety of models manufactured by Holley, Carter, Autolite and Rochester.

The PRP has recently received additional saturated floats from BOB CHESTER's AUTO SERVICE, Arlington, Texas; AUTOMOTIVE CITY SERVICE CENTER, San Francisco, California; and AUTO BRAKE CORPORATION, Norfolk, Virginia. Two floats were removed from 1974 Mustang II's, while a third float was removed from a 1974 Pinto. Approximately 21 carburetor float saturation problems have been reported by program members over the past three years.

The NHTSA recently closed an investigation into carburetor float saturation in Rochester QuadraJet carburetors installed in 1965–1972 General Motors vehciles. The case (C–44) was closed with no finding of a defect, primarily because of a lack of significant, safety- related consequences. The agency is still interested in problems associated with later model vehicles, however, especially any float saturation situation which may have caused engine compartment fires.

PLYMOUTH/DODGE BRAKE HOSE CRACKS

Based upon a large number of parts received from PRP members, the NHTSA has recently opened an enigneering analysis into brake hoses on Chrysler Corporation vehciles. The analysis involves brake hoses from 1973 and 1974 Plymouth Valiants and Dodge Darts. The hoses allegedly develop cracks and splits near the fitting.

During the past year, PRP shops have contributed brake hose from 17 vehicles: six 1973 Plymouth Valiants, two 1973 Dodge Darts, seven 1974 Valiants and two 1974 Darts. The average mileage on the 1973 vehicles was 44,000, ranging from 16,493 to 73,010. The average mileage on the 1974 vehicles was 29,000, ranging from 23,780 to 39,253.

Contributing brake hoses in the past year were WISCONSIN DOT, Madison, Wisc.; KOLESNIK's SERVICE, Rochester, New York; DAY-NITE AUTO, Kaukauna, Wisconsin; AUTO BRAKE CORPORATION, Norfolk, Virginia; WOODY's GARAGE, Montoursville, Pennsylvania; A. RUTH's GARAGE, Colonie, New York; MR. BRAKE #9, Pocatello, Idaho, and BUD JONES SERVICE, Delmar, New York. We'd like to thank these shops as well as others who have contributed suspect brake hoses during the past three years. Additional information on this potential problem would be appreciated.

SPECIAL CONTRIBUTORS

As we begin a new PRP year (July, 1978–June 1978), we'd like to take time out to thank two special shops which have contributed parts and information to the program for twelve consecutive months: AUTO BRAKE CORPORATION, Norfolk, Virginia and HARRY's AUTO SERVICE, Great Barrington, Massachusetts. Our sincerest thanks to George Casper of Auto Brake and Harry Billings of Harry's, as well as their staffs, for their continuing contributions to automotive safety.

NHTSA OPENS THREE NEW INVESTIGATIONS

NHTSA recently opened three new investigations involving Ford Motor Company vehicles and Fiat vehicles. The investigations involve fuel leakage problems, steering mechanism problems and front wheel bearing failures.

Fuel line leakage in 1975 and 1976 Ford Granadas and Mercury Monarchs is being investigated by the agency. The investigation was initiated on the basis of eight complaints of fires in Granadas and Monarchs equipped with V8 engines. Information from the manufacturer indicates at least 75 complaints of fires on the V8 model. There are approximately 568,000 vehciles involved. Fuel leakage allegedly occurs at the point where a small rubber hose connects the metal fuel line to the fuel filter which is attached to the carburetor.

The steering case involves 1973–1975 Pinto, Mustang II and Bobcat vehicles without power steering. The problem involves the steering coupling flange which is part of the steering mechanism. Allegedly, a pinch bolt used on this flange can loosen, resulting in a number of problems which can permit the steering wheel to rotate freely without turning the wheels of the vehicle. In January of 1978, Ford initiated a recall of 1974 Pinto and Mustang II vehicles for the same problem.

The third investigation involves front wheel bearings on 1973–1977 Fiat 128 and X–1/9 vehciles which can result in loss of vehicle control due to wheel looseness, lockup or separation. Twelve complaints of such failures have been received by NHTSA, and information obtained from the manufacturer indicated over 900 complaints.

Any information on these cases from our members would be appreciated.

CLUTCH CABLE PROBLEMS ON MUSTANG's

Last year, BOB's AUTOMOTIVE, Dayton, Ohio, submitted information to the PRP on the possibility of a construction defect in the clutch cable connection on a 1974 Mustang II with 37, 714 miles. Allegedly, the connector for the cluth pedal ripped away from the firewall of the vehicle, causing a premature engagement of the clutch. The driver experienced a loss of control but was able to avoid an accident.

Since that time the NHTSA has received five Hotline calls from individuals who have experienced the same problem. Each case has involved breakage at the firewall on 1974 Mustang II's. Reportedly, as the clutch pate wears, the increased pressure on the cable connection at the firewall is too great for the thin gauge firewall metal, and can cause the metal to tear, creating a potentially dangerous situation.

A similar condition on Ford Pintos was mentioned by BOB's AUTOMOTIVE in a recent telephone contact. The Pinto clutch cable is held in place by "spring ears" which reportedly provide the same kind of support as they do for a parking brake cable attached to the backing plate on drum brake-equipped vehicles. The thin gauge metal in the firewall, however, can give way.

Let us know of any similar situations you've seen involving clutch cable connectors.

OOOPs!! Last months News contained a slight defect. The cover photo was printed upside down . . . . Sorry!

TELEPHONE CALLS

If the part you'd like to return is too large or you simply haven't the time today to send in an information form, why not give us a (COLLECT CALL) at (703) 257–4500.

THE FORUM

B O B ' S AUTOMOTIVE, Dayton, Ohio, mentions a problem with Pontiac Grand Prix axle seals. The leaking seals are common, according to the shop, and reportedly may be due to a tolerance problem—the seals may not be large enough for the axle shaft.

AABLE AUTO SERVICE, San Francisco, California, has informed the PRP of a timing chain problem in a 1977 Plymouth Arrow with 24,960 miles. The vehicle was brought in for service in December, 1977. When the problem was diagnosed as a faulty timing chain, a Chrysler dealer reportedly replaced it for the customer. Six months later, the vehicle was brought in with the same problem.

WAYNE'S GARAGE, Eugene, Oregon, has submitted information on a misrouted hydraulic pressure hose from a 1975 Mercury Monarch with 21,876 miles. The hose was allegedly misrouted at the factory and lay against the exhaust manifold. This resulted in a break in the hose and subsequent loss of power steering and power brake assist.

TIM'S IMPORT SALES AND SERVICE, Hutchinson, Kansas, has submitted a rack and pinion steering gear from a Fiat 128. TIM'S states that the gear had no grease and appeared not to have been lubricated by the factory. Due to this condition, the driver experienced a loss of control, although no accident resulted. In a related situation, the shop has reportedly seen at least four Fiat 128's in which the rack and pinion support bushing was not properly anchored, causing a severe shimmy.

CRACKED, SPLIT AND LEAKING FUEL HOSES: Seen Any Lately?

The NHTSA has recently initiated a study to review the performance of flexible fuel hoses used on all types of motor vehicles. The study is being conducted as part of a wider project on the use of elastomers in the automotive industry. Elastomers are synthetic compounds which have the elastic properties of natural rubber but resist the action of oils and fuels. Such compounds are used in the manufacture of fuel hoses in order to provide needed flexibility.

Failed or about-to-fail hoses are urgently needed. In addition, any information about the brand and grade of gasoline used in the vehicle would be most helpful.

The PRP has received a number of cracked fuel hoses from members over the past year, most of which were leaking fuel at the time they were removed. Hoses have been received from Ford, Chevrolet, Oldsmobile and Fiat vehicles. The most serious failure was reported in 1976 by VANOWEN BRAKE AND WHEEL, North Hollywood, California. Allegedly, a cracked fuel hose leaking at the carburetor end on a 1973 Ford caused an engine compartment fire which led to loss of vehicle control and a subsequent accident.

In addition to VANOWEN, we'd like to thank ALPINE AUTOMOTIVE SERVICE, Lakewood, Colorado; LINCOLN TECHNICAL INSTITUTE, Union, New Jersey; BECTON AUTO REPAIR, Savannah, Georgia; AUTOMOTIVE MAINTENANCE, INC., Sarasota, Florida; W & S SERVIVE, INC., Wilmington, Delaware; BOB CHESTER'S AUTO SERVICE, Arlington, Texas; CAPITAL AUTOMOTIVE, Lincoln, Nebraska; and MUSTEN AUTO SERVICE, Winston-Salem, North Carolina for their contributions.

Please send us whatever information you currently have on flexible fuel hose problems.

TIRE GRADING REGULATIONS ANNOUNCED

Regulations for uniform tire grading will become effective in 1979, according to the NHTSA. A simplified guide will be published along with the ratings to aid the consumer in comparing treadwear, traction and temperature resistance.

Beginning March 1, 1979 for bias-ply tires and September 1, 1979 for bias-belted tires, a paper label listing the respective grades must be attached to the tire tread. Six months after these dates, manufacturers will be required to mold the grading information into the tire sidewall.

The treadwear grade will reflect the relative tread life compared to other types or brands of tires based upon actual performance over a test course established by the NHTSA.

Traction will be identified by the symbols A, B, C for clarity. A tire graded A would offer the best traction.

Temperature resistance grades are of importance to the motorist, NHTSA says, because excessively high temperatures can cause the material of the tire to degenerate and can reduce tire life, leading to sudden failure. Tests for this property are conducted under controlled laboratory conditions to produce a comparative grading system.

parts return program news

U S DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4, No. 2 August 1978

FIRESTONE 500 STEEL BELTED RADIALS CHARGED DEFECTIVE, SUBJECT TO BLOWOUT AND TREAD SEPARATION

NHTSA has made an initial determination that a safety-related defect exists in Firestone 500 Steel Belted Radial Tires. The determination is the result of an investigation which began last February based upon more than 500 reports of blowouts, tread separation, chunking, sidewall blisters, cracks, and out-of-round conditions. The investigation uncovered over 14,000 tire failures resulting in 29 deaths, more than 50 injuries and hundred of property damage accidents.

Problems have also been uncovered in identical tires purchased from Firestone by Montgomery Ward and Shell Oil Company. The Wards tire is sold under the nan.e "Grappler Radial" 8000 series, and the Shell tire is the "Super Shell Steel Radial."

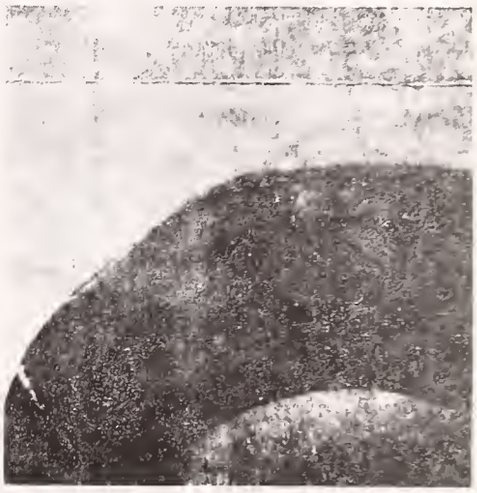
In addition, the PRP has received reports of similar failures in Firestone tires sold by Union Oil Company under the name "Union 76 Radial Steel". The pictures which accompany this article are of one of three tires submitted by PRP member John Torvanger of John's Union Service Bainbridge Island, Washington. The steel in the belt had come loose, eventually cutting through the tire. The tire had 9,804 miles. Mr. Torvanger had noted six other Union Radial Steel tires with similar problems.

NHTSA says that a comparison of Firestone's adjustment information with data from five other major manufacturers for comparable time periods shows that the Firestone 500 Steel Belted Radial tire has the highest rate of adjustment at least two times greater—than any other manufacturer or tire line. Based on production figures provided by Firestone, more than 1.5 million of the 500 Steel Belted Radials have already been adjusted by the company.

Please keep an eye out for any problems noted in steel belted radial tires, including blowouts, out-of-round conditions and sidewall blisters and cracks. Give us a collect call or drop an information report form in the mail if you observe such situations.

KEEP ON CRUISIN'

The NHTSA is seeking information on any cruise control problems which could cause a cruise control to stick, or fail to shut off or to self-activate. All OEM and aftermarket units on any make vehicle are of interest.



OLDSMOBILE, BUICK AND PONTIAC V–6s UNDER INVESTIGATION

A safety investigation into stalling problems in 1977 Oldsmobile, Buick and Pontiac automobiles with V–6 engines has been initiated by NHTSA.

An estimated 445,000 cars are involved in the investigation. NHTSA has received 71 owner complaints reporting sudden, frequent stalling in various phases of vehicle operation.

General Motors Corp. reported to the agency it has received 944 complaints from its customers. In addition, the Buick and Pontiac divisions have issued service bulletins to their dealers providing instructions for servicing problems described as stalling or "cold driveability." Nine minor accidents are reported to have been caused by this problem.

Anyone experiencing this problem with a 1977 or 78 V–6 is urged to relay such information to the PRP staff.

HIGH INTENSITY AUTO HEADLAMPS

The use of new high intensity automobile headlamps that should improve drivers' nighttime seeing distance by up to 20 percent was approved by the U.S. Department of Transportation.

Combining the best features of American and European systems, the maximum candlepower of high-beam headlamp systems has been raised from 75,000 to 150,000 candlepower under an amendment to a federal motor vehicle safety standard issued by the Department's National Highway Traffic Safety Administration (NHTSA). The amendment applies to both the traditional circular headlights and the newer rectangular systems as an option for the vehicle and aftermarket manufacturers. It is effective immediately .

Noting that a large volume of traffic deaths and injuries, not fully attributable to alcohol or fatigue, occur at night on rural roads, NHTSA said the number of such accidents might have been reduced with high intensity headlamps. Research indicates that the average night seeing distance for speeds of 50 miles per hour and higher is less than the average braking distance. Increasing the intensity of the high-beam headlamp systems to 150,000 candlepower should improve the nighttime seeing distance by more than 20 percent.

Glare from the new vehicle headlights should not be a problem, NHTSA believes. There is only a slight increase in the glare, as measured by two cars illegally approaching on high beams of 150,000 candlepower. A reduction of seeing distance of only 1.5 percent should be registered as compared to today's headlight systems with 75,000 candlepower.

NEW MARKINGS FOR MOTOR VEHICLE CONTROLS

Internationally adopted symbols will be required on 1981 model year passenger vehicles in an effort to improve driver recognition, of control knobs and instrument panel displays.

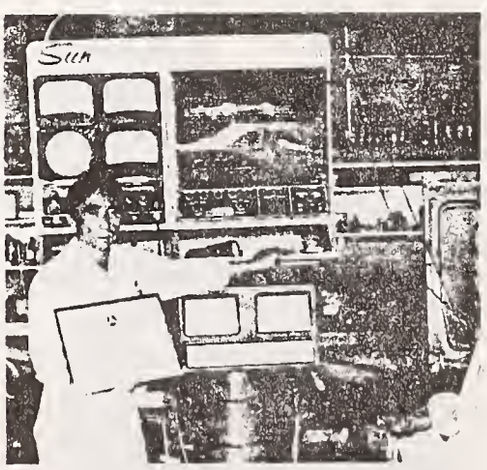
Symbols convey information faster and with less chance of human error, said NHTSA.

Federal Motor Vehicle Safety Standard No. 101–80, issued by the NHTSA, is effective for 1981 model passenger cars, multipurpose passenger vehicles, trucks and buses with a gross vehcile weight rating of less than 10,000 pounds.

The Safety Standard will require that most controls and displays be identified with specific symbols, as opposed to the present standard which specifies words, with the use of symbols as an optional supplement.

However, words will continue to be used for those controls and displays for which no internationally agreed upon symbols have yet been established.

The new standard specifies symbols that have been adopted by the International Standards Organization (ISO).



Ise Kuromi of ISE AUTOMOTIVE, North Hollywood, California, holds his Certificate of Appreciation as one of last year's special contributors to the PRP.

DEFECT INVESTIGATION CHECKLIST

- C8–33. Alleged Stalling of 1977 Oldsmobile, Buick and Pontiac Vehicles Equipped with V–6 Engines.
- C8–29: 1973–1975 Pinto, Mustang II and Bobcat Steering Coupling Flange.
- C8–28: Alleged Front Wheel Bearing Failures on 1973–1977 Fiat 128 and X–1/9 Vehicles.
- C8–27: Alleged Fuel Leakage Problem in 1975 and 1976 V–8 equipped Ford Granadas and Mercury Monarchs.
- C8–26. Alleged Failure of Wiring Harness Connecting Rear Wheel Speed Sensor to Anti-Lock Computer Module on Ford Series B, C, F, L, W and CL, 1975 to March 6, 1978.
- C8–24: Alleged Failure of Certain 13 and 14 inch Chrome Trailer Wheels Manufactured by Broad Wheels Company.
- C8–23: Alleged Front Wheel Bearing and Spindle Failure Due to Excessive Front Brake Heat, 1975 Chevrolet Monza V–8, Oldsmobile Starfire and Buick Skyhawk Vehicles.
- C8–19: Alleged Breakage of the Manual Transmission, Floor-Mounted Gear Shift Levers in 1971–1978 Mercury Capris.
- C8–20: Alleged Malfunction of Power Steering Control Valve in 1975–1977 Ford Granadas and Mercury Monarchs.
- C8–04. Alleged Sticking of Idler Arm Bushing in 1968 to 1974 Fords, Lincolns and Mercurys, Full-Size and Intermediate.
- C8–02: Alleged Jumping Into Reverse from the "Park" Position of Certain 1970–78 Ford, Lincoln and Mercury Vehicles Equipped With C–6 or FMX Transmissions.

THE FORUM

WALES GARAGE, Fort Lauderdale, Florida, has submitted information to the PRP on an original equipment EGR plate removed from a 1975 Ford Thunderbird with 36,250 miles. The EGR plate, according to WALES, had disintegrated. "As a result," the shop continues, "exhaust gases escaped into the passenger compartment, causing nausea and drowsiness to the people in the car." The March, 1977 PRP *News* reported on this problem in 1973 and 1974 V–8 Fords. At that time, Ford notified the Environmental Protection Agency that it would send letters to owners stating that any burned EGR plate in the 1973 and 1974 Fords would be replaced free of charge. It now appears that the problem could affect 1975 models and that it could be a safety-related problem, due to the possibility of carbon monoxide reaching the passenger compartment. Please report any similar situations to the PRP as soon as possible.

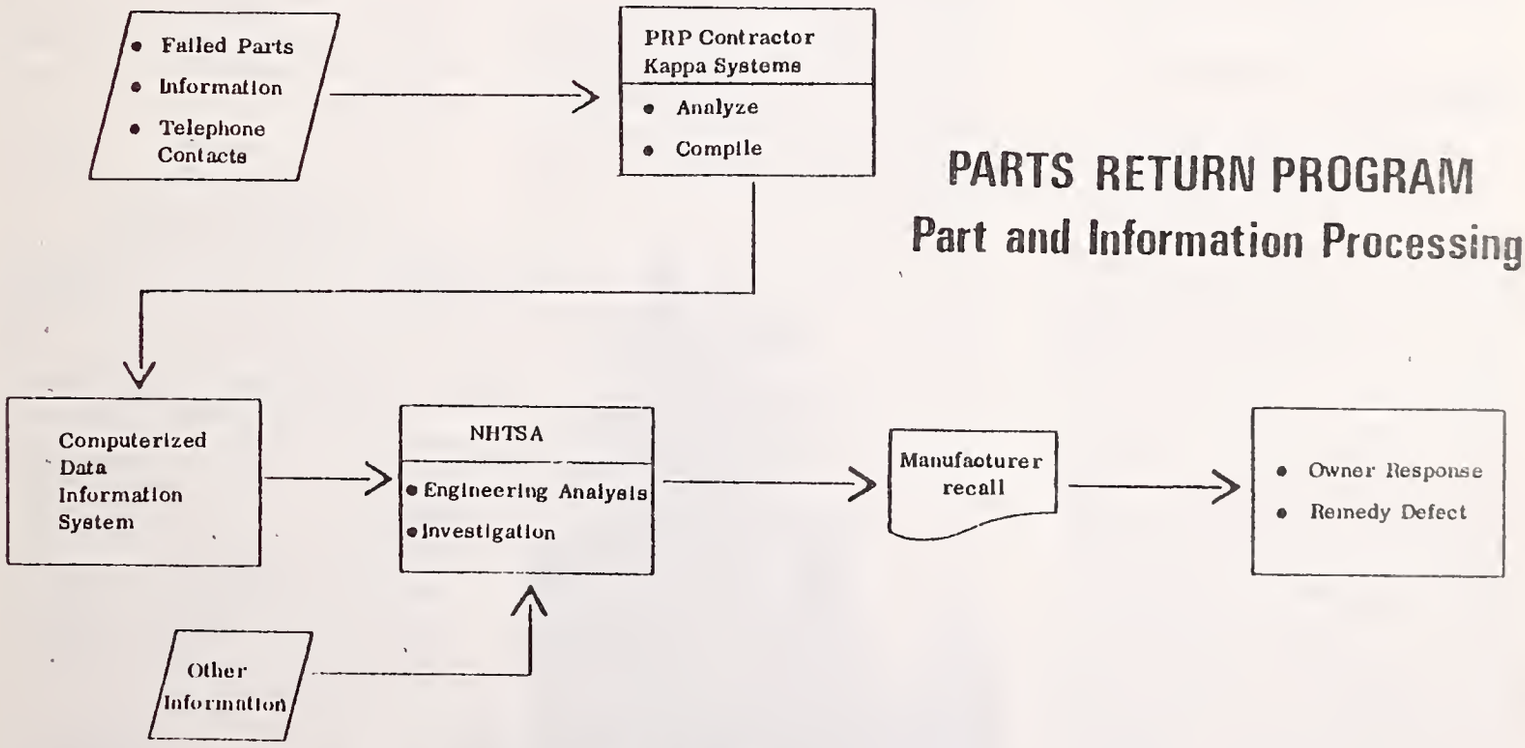
Mike Biderman of DOLLAR-RENT-A-CAR in Sioux City, Iowa responds to our June issue note regarding Chevette shifters. He reports that he has four standard transmission Chevettes and has replaced "a minimum of 12' gear shift levers due to breakage. A New York State auto parts store has also phoned to report the same problem in all 25 Chevettes in its fleet, "sometimes three or four per vehicle."

The LEON COUNTY SHERIFF DEPARTMENT, Tallahassee, Florida, reports a hydraulic booster which burst on a 1977 Ford LTD police package with 28,000 miles. The maintenance department believes that a weak seam caused the booster to fail, leaking fluid and resulting in a loss of power steering and power brakes. The vehicle was not in motion at the time. The PRP recently received a similar complaint from a Lincoln-Mercury dealership alleging hydro-booster failure in 1977 and 1978 Mark series Lincolns, leading to a loss of power steering and power brakes.

Any inputs on case C8–23, Front Wheel Bearing and Spindle Failure on 1975 Chevrolet Monza V–8's, Oldsmobile Starfires and Buick Skyhawks would be appreciated. Chuck Broderick of AUTOMOTIVE CITY SERVICE, San Francisco, California, has submitted information on a 1975 Monza which developed a cracked frame and broken wheel, allegedly due to the excessive weight of the V–8 engine. Similar problems due to engine weight are currently of interest to the PRP.

PRP Telephone Number:

Have some interesting information? Need more materials? CALL US COLLECT (703) 527–4500.



WHATEVER HAPPENED TO THAT PART I RETURNED?

We're often asked to describe the entire Parts Return Program process from your discovery of a failed part to a NHTSA recall campaign? How long does it take? What steps are involved? Is the information submitted by members really helpful? The above flowchart gives an overview of the process from beginning to end. In the coming months we'll be describing various segments of that process, beginning with the processing of parts on a day-to-day basis. We think you'll enjoy this approach, and it may answer some of your questions about the program. Stay tuned!

parts return program news

U S DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4 No. 3 September 1978

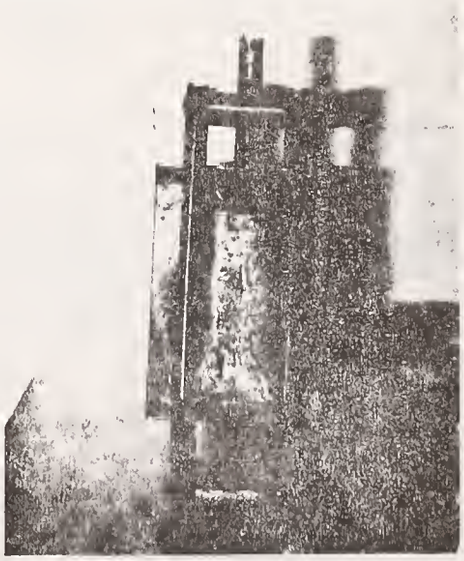
TROUBLE WITH THE TOOLS OF THE TRADE

In response to an article concerning scissors jack failures in the May, 1978 PRP *News*, RIVERSIDE AUTO PARTS, Macon, Georgia, has forwarded information on a similar failure. The Hein Werner 1½ ton scissors jack pictured here reportedly collapsed after its handle broke off while a vehicle was being jacked up. The shop states that with this design, once the handle breaks off, there is nothing left to hold the jack, resulting in complete collapse.

In a related incident, WHEEL WORKS, INC., Marlow Heights, Maryland, reports seven failures involving Hein Werner hydraulic floor jacks. These involved the handle breaking off at the base. A wheel fell off one, and three others had bad hydraulic seals which would not allow the jack to retain hydraulic pressure. The NHTSA is currently reviewing other alleged failures of the Hein Werner hydraulic jack.

In July, 1977, the NHTSA initiated an investigation into the Hollywood Accessories hydraulic floor roller jack, model 646, as reported in the October, 1977 PRP *News*. On April 5, 1978, Hollywood Accessories notified DOT that they would recall all such jacks.

Any member having information on jack failures is urged to forward the details to the Parts Return Program staff, either by using the Information Reporting Form or by calling us collect.



Photograph of failed Hein Werner scissors jack submitted by RIVERSIDE AUTO PARTS.

THE FORD TRANSMISSION PROBLEM

Has this ever happened to you? You're pulling a customer's LTD into the bay area for servicing. Realizing that you need to adjust the lift, you throw the gear selector into "Park" and jump out. Moments later, you turn around to see your customer's car backing away in reverse.

It's not impossible. NHTSA has had recent reports of "repeat" problems of Ford automatic transmissions jumping into reverse. As first reported in the September, 1977 issue of the PRP *News*, the NHTSA has been investigating such occurrences in 1973–1978 Fords, Lincolns and Mercury's equipped with C–6 or FMX automatic transmissions. Allegedly, the design of the transmission is such that the gear selector lever may seem to be fully in the "Park" detent prior

(continued on page 3)

PROBLEMS REPORTED ON DODGE VAN SUSPENSIONS

A & F ALIGNMENT, Long Beach, California, has notified the PRP of a potential problem in Dodge van suspensions. The shop reports that Dodge MB300 vans equipped with heavy duty suspension packages could suffer lower ball joint breakage due to the improper fit of the ball joint stud into the steering arm.

Allegedly, the taper of the stud is not the same as the taper of the spindle steering arm. This reportedly results in a large amount of play in the joint which could cause the stud to break. The shop says it has seen this condition on several MB300 vans, one of which was equipped as an ambulance.

In a related situation, B. W. RILEY ALIGNMENT AND BRAKE SERVICE, Springfield, Virginia, reports undue wear on the rear tires of some Dodge B100, 200 and 300 vans being brought in for repair. Vans have ranged from 1975 to 1977 with mileages as low as 8000. Further examination of the vehicles indicates according to the shop, that the right rear spring hangers were set back ¾ of an inch, resulting in irregular rear tracking.

Any further information on Dodge van suspension problems would be appreciated.

PRP Telephone Number:

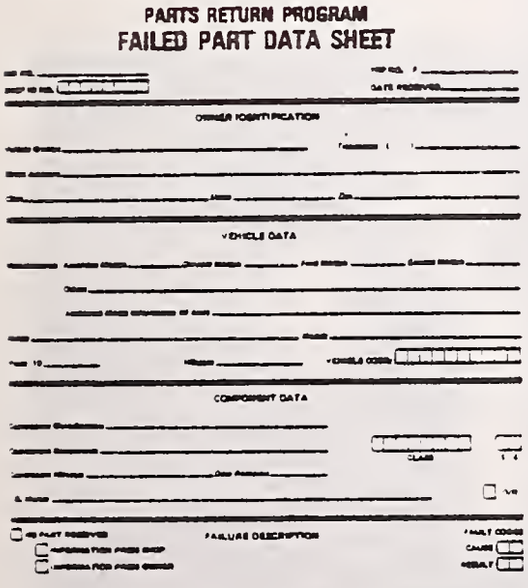
Have some interesting information? Need more materials? CALL US COLLECT (703) 527–4500.

WHAT EVER HAPPENED TO THE PART I RETURNED? (Part 1)

A mechanic replaces a braken spindle. The failed spindle is abviausly a safety-related prablem and passibly defective. There are na indicatians that the vehicle has been abused ar in an accident. Didn't I see samething abaut this in a recent issue af the PRP *News*?, he thinks. Yes! It was currently under investigatian. Case C8–23. I'll bet that they would like me to send in the part. Where's the mailbag?

Sa the braken spindle is dropped into a mailbag and sent to Kappa Systems in Arlingtan, Virginia to be used in the NHTSA's cantinuing effort ta increase the level af highway safety. What happens ta the part fram there?

As parts and infarmatian are received at Kappa, a daily step-by-step pracedure is fallowed. Each part is lagged-in, with informatian nated an the cantributar, the date received, the vehicle from which the part was remaved and the type af failure invalved. The mailbag is pracessed far further use and the part is sent ta the starage/analysis raam.


PARTS RETURN PROGRAM
FAILED PART DATA SHEET

Here, an in-hause autamotive analyst assigns each campanent a unique identificatian number and completes a Failed Part Data Sheet. Recorded on the Data Sheet are: the vehicle awner's name and address, if available, the relevant informatian an the vehicle itself, the campanent classification (Steering assembly; Steering linkages—Knuckle-Spindle-Arm), the failure data as supplied by the mechanic who filled aut the part tag, and the analysis af the problem as seen by the automative analyst reviewing the part. If additional infarmatian is needed, the mechanic will be contacted.

The Failed Part Data Sheets are naw given to the Kappa Systems data transcribers and are ultimately entered inta the autamated file af the Office af Defects Investigatian, alang with the vehicle awner complaint letters and manufacturer service bulletin information. The part itself is stored far possible future analysis.

The same pracess accurs with the infarmatian reporting farms which are submitted ta the PRP; the anly difference is that, without the part, na further analysis can be done.

The next lagical step, af course, is ta let you, the members, know abaut what we've received. Suppase, far example, that the spindle submitted had been from a 1976 Monza. The investigatian invalves only 1975's. If it laaked as though it shauld be investigated further, we would contact the cantributar and confirm the madel year af the vehicle, check the engine size and abtain any other pertinent infarmatian which may nat have been reparted ariginally.

The result of this fallowup contact might be a news article (perhaps a short mention in the Forum) reparting the failure and saliciting infarmatian an the same prablem from ather participants. Such an appraach led ta a wealth af infarmatian fram participants an flex fans during the past year. In fact, many newsletter articles have salicited parts and infarmatian which, in turn, have helped support investigations that led to recalls. (See the adjoining partial list af such recalls). In essence, then, the PRP is a canstant flaw af infarmatian in both directians. Your infarmatian repart ar failed part may seem isalated, a single unrepeated occurrence. But if it is a genuine problem, athers will saan respond to a newsletter reference. Suddenly, yaur input is na langer the isalated occurrence it ance appeared to be. Instead, it cauld be the first step in uncavering an manufacturing ar design defect.

NEXT: The Engineering Analysis/ Defect Investigation Pracess.

SOME RECALL CAMPAIGNS SUPPORTED BY THE PRP

- 78V070: Pawer Steering Hase Deterioration Fram Exhaust Manifald an 1975–76 AMC Harnets and Gremlins.
- 77V242: Defective Acceleratar Pump Seal in 1975–76 Valiants and 1977 Valares (stalling).
- 77V125: Flex-Fan Blade Breakage an 1976–77 Fords with Air Conditioning, 1976–77 Mercurys with Air Conditioning and 1977 Lincolns with 400 c.i.d. V–8s.
- 77V105: Fuel Line Deterioration from Battery Acid on 1970–76 Parsche 914.
- 76V160: Defective Rochester carburetor fuel inlet plug an 1966 Chevrolet and Buick.
- 77V097: Flex-Fan Blade Breakage on 1972 Tarina, Montego, Lincaln and Ranchera.
- 76V165: Defective Steering Gear Attachment Balts on 1976 Ford E100, E150, E250, E350.

THE FORUM

M & B AUTOMOTIVE REPAIR in Bethlehem, PA submitted to the PRP a fuel pump from a 1978 Dodge Colt with 14,000 miles. The fuel pump from the 1600 engine has a broken diaphram which allows engine oil to seep outside the engine into the ignition system. Allegedly, this could result in loss of engine power as well as a possibility of a fire.

An exhaust gas recirculation (EGR) valve from a 1977 Ford F100 was submitted to the PRP by W & S SERVICE INC. of Wilmington, DE. The EGR value would not hold engine vacuum and therefore was unable to function properly. This allegedly caused rough engine idle and valve noise.

A vacuum operated brake release was sent to the PRP from AUTOMOTIVE CITY SERVICE CENTER, San Francisco, CA. The part was from a 1976 Cadillac Seville with 45,616 miles. A leaky diaphragm allows vacuum loss causing constant vacuum noise and possible intermittent emergency brake release. The vacuum loss also allegedly causes rough engine idle. Similar occurrences with vacuum operated brake releases should be reported to the PRP.

FIELDS CADILLAC, Evanston, IL, reports stalling problems in certain rental vehicles which they own. 1978 Chevrolet Caprices and Buicks with 305 cid engines are reportedly stalling out due to clogged original equipment fuel filters. Vehicles involved have approximately 6000 miles.

The LEON COUNTY SHERIFF DEPARTMENT, Tallahassee, FL, reports difficulties with the accelerator pump diaphram installed on its 1977 Ford LTD police vehicles. LEON COUNTY claims that the diaphram is too small, causing stalling. The problem has occurred on 6 vehicles, and replacement of the diaphram does not appear to help.

AUTOMOTIVE CITY SERVICE CENTER has also notified the PRP of a problem with the electronic fuel injection control unit on 1976 Datsun 280Z's. The shop states that the problem is due to failure of the output transistor. The transistor itself reportedly cannot be purchased as a replacement part; hence the entire control unit requires replacement.

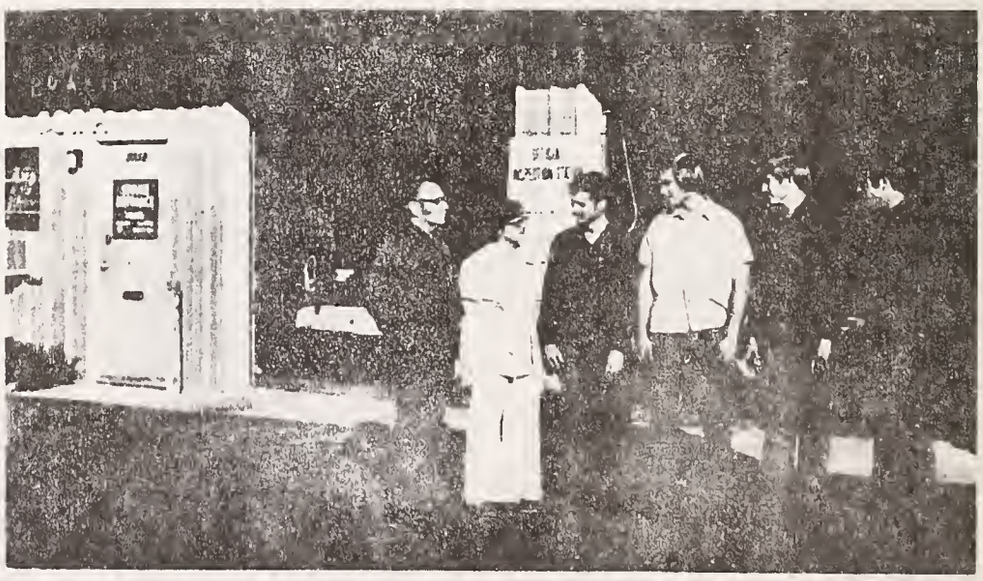
TRANSMISSION—*(con't from page 1)*

to actually reaching the proper slot in the detent plate. A slammed door or even engine vibration could cause the lever to move, shifting the transmission into "Reverse".

As early as 1971, the Ford Motor Company had been receiving approximately six letters per month on the transmission problem. Inter-office memoranda obtained from Ford by the NHTSA indicate that Ford engineers had noted the difficulty in late 1971 and had suggested, in early 1972, two possible fixes which addressed the problem. One approach was to angle the detent plate between Park and Reverse and to angle the tang of the shift lever. These corrections would have forced the lever to travel uphill in order to slip into "Reverse" from "Park". In addition, an angular force would hold the lever in place, even if it were not fully in the "Park" position. The second remedy involved increasing the angular travel between "Park" and "Reverse" through a revision in the transmission design.

Apparently, neither approach was adopted, and late in August, the NHTSA issued a consumer advisory on the transmission problem. The advisory was issued on the basis of reports involving 777 accidents, 259 injuries and 23 fatalities. It affects 9 million Ford vehicles equipped with C–6 or FMX transmissions. Precautions to be taken against the possible occurrence of the problem include turning off the engine and checking to be sure that the gear selector is securely in "Park".

All PRP members are urged to exercise care here. The consumer advisory applies to everyone! Never leave a vehicle running unattended!



George Casper and his staff in front of their shop, AUTO BRAKE CORPORATION, Norfolk, Virginia. Auto Brake was one of the winners of last year's Certificate of Appreciation from NHTSA Administrator Joan Claybrook.

parts return program news

U.S. DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

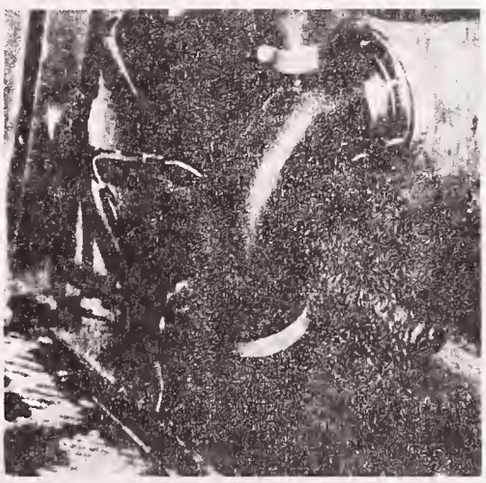
Vol. 4 No. 4 October 1978

FILLER NECK LEAKS IN JEEP VEHICLES

The National Highway Traffic Safety Administration has received some reparts involving the fuel tank filler neck campanents of some 1975 and later Jeep Wagoneer and Cherokee vehicles.

Cool gasoline from service statian starage tank can warm up and expand in the vehicle's tank causing it to fill up the filler neck components. If the component points are not properly sealed, the gas may leak out. Also, gasaline may come aut af the filler cap vent (the vent opens if 1 psi pressure exists in system) and run back inside the body if the filler neck flange daes nat seal the hole in the bady. Gasoline odors inside the car may indicate a leak exists.

The recommended repair by Jeep involves removal of the left rear quarter trim panel, laosening the connection clamps and sealing the connections with No. 2 Permatex or equivalent. Any PRP members who have noted this prablem shauld contact the PRP as soon as possible, particularly any instance in which gas has puddled in the rear quarter panel ar a fire has started.



MULTI-PIECE WHEELS

The NHTSA has recently initiated an engineering analysis into multi-piece wheels commonly found on trucks, motar homes and buses. In addition, rulemaking ta gavern construction af these wheels has been initiated. The wheels allegedly are prone ta blaw apart if the ring and rim base are not praperly assembled. Accarding ta the Insurance Institute far Highway Safety, "if the components of a multi-piece wheel are not perfectly alinged in the assembly process ar if they became misaligned by any number af camman occurrences, including the narmal operation af the vehicle, an explasion can accur, making the ring a lethal projectile." In a report ta the NHTSA, the Insurance Institute cited a number of serious injuries and fatalities. The NHTSA has prepared a "safety chart" and a "matching chart." These charts illustrate the proper safety precautions that should be follawed when servicing multi-piece wheels, and pravide infarmation an the safety interchangeability known to exist among various multi-piece wheel makes and campanents. PRP members who wark with these wheels may obtain these charts by calling the PRP COLLECT (703) 527–4500. Additionally, we urge our members ta repart any prablems they have encountered with these wheels.

RECENT RECALLS AND INVESTIGATIONS

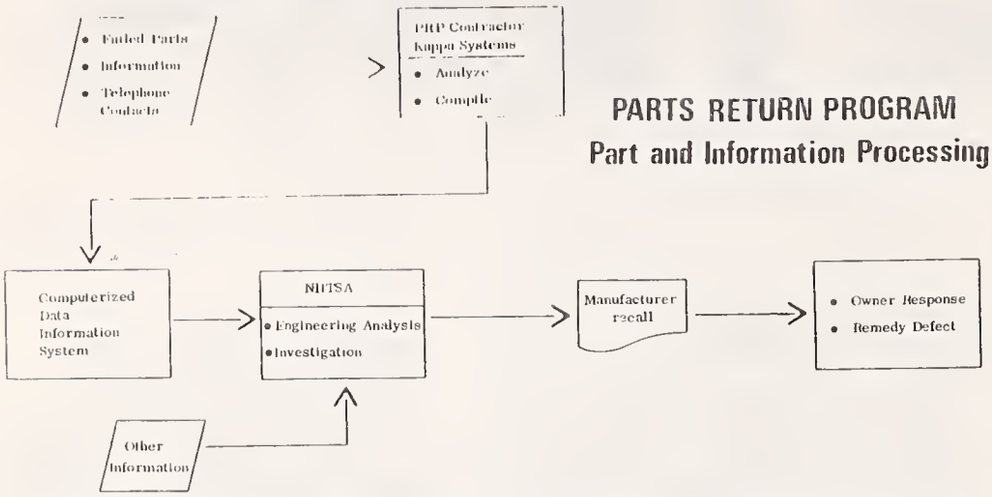
NHTSA has apened an investigation af 1977 Porsche 911's which allegedly experience engine compartment fires possibly caused by the vehicle's air conditioning units. Porsche recalled a number of AC equipped vehicles in October 1977, however a number of reports of fires have been received from owners of 911 vehicles, prompting further investigation by NHTSA.

Subaru of America has annaunced a recall of the 1978 brat vehicles due to alleged fuel tank leakage. A blockage in the fuel evaporative control system may lead to abnormally high pressure in the fuel tank which could cause hairline cracks and leakage.

The Ford Motor Company is recalling approximately 400,000 of its 1978 Ford Fairmont and Mercury Zephyr vehicles for replacement of the windshield wiper linkage. NHTSA urged Ford to conduct a recall campaign after receiving infarmatian cancerning windshield wiper failures on these vehicles. Owners af vehicles built before April 26, 1978 will be natified to return their vehicles to their dealer for replacement of the linkage with that of a later design.

MOVING ta a bigger shap ar a better lacation? Let the PRP move with you. Call us callect when yau have a change in address sa you wan't miss an issue af the PRP News. (703) 527–4500

WHAT EVER HAPPENED TO THAT PART I RETURNED? (Part 2)



Last issue we traced the journey of a failed part from its discovery by a mechanic to its entry into the NHTSA information system. Now we'll take a look at the engineering analysis/defect investigation process within the NHTSA, which can eventually lead to a recall.

The National Highway Traffic Safety Administration is a multi-faceted organization. Within the agency there are six associate administrations, reporting directly to the NHTSA Administrator Joan Claybrook. Among the most important of these, from the point of view of the PRP, are Rulemaking and Enforcement. The Associate Administrator for Rulemaking is responsible for vehicle safety standards and automotive fuel economy standards. The Associate Administrator for Enforcement is responsible for fuel economy compliance, vehcile safety compliance and defects investigation. It is in this last office—the Office of Defects Investigation—that PRP inputs are brought into the investigation process.

The Office of Defects Investigation (ODI) is further broken down into the Defect Information Systems Staff, the Defects Evaluation Division and the Engineering Analysis Division. Here's how the flow of information works. PRP inputs are received into the system by the Defects Information Systems Staff. There the input is combined on file with manufacturer service bulletins, consumer letters, auto safety hotline inputs, and recall information. The information system is then employed by the Engineering Analysis Division for purposes of analyzing the data, isolating trends, and gathering information.

Once the engineers of the Engineering Analysis Division conclude that there may be safety related consequences to a particular trend, they contact the manufacturer for further information such as warranty data, sales of a particular part, etc. Careful review of all aspects of the problem is made. Vehicle component testing is conducted in some cases.

At this point, all information gathered is presented to a Defects Review Panel. The panel determines whether or not a full investigation should be initiated. If an investigation appears to be warranted, the Defects Evaluation Division then takes over. The manufacturer is notified of the investigation and is requested to report to the NHTSA any information relating to the case. Further tests may be conducted on the vehicle, part (or design) in question. Interviews are undertaken with individuals who have reported a problem. At this time, accident reports are collected, private engineering analyses are reviewed, medical records are obtained (in the case of injuries) and repair receipts gathered. Once all the facts have been assembled, a final report is written, with a recommendation to the NHTSA Administrator.

The Administrator then makes an initial determination if a safety defect exists. A public hearing is held and a final determination made. If a defect is declared, the manufacturer who may voluntarily recall at any time, is ordered to conduct a safety recall campaign. Should he disagree with this finding he may ask that the case be reviewed in federal district court.

Next: The Recall Campaign.

DEFECT INVESTIGATION CHECKLIST

- C8–33. Alleged Stalling of 1977 Oldsmobile, Buick and Pontiac Vehicles Equipped with V–6 Engines.
- C8–29: 1973–1975 Pinto, Mustang II and Bobcat Steering Coupling Flange.
- C8–28: Alleged Front Wheel Bearing Failures on 1973–1977 Fiat 128 and X–1/9 Vehicles.
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- C8–04. Alleged Sticking of Idler Arm Bushing in 1968 to 1974 Fords, Lincolns and Mercurys, Full-Size and Intermediate.
- C8–02: Alleged Jumping Into Reverse from the "Park" Position of Certain 1970–78 Ford, Lincoln and Mercury Vehicles Equipped With C–6 or FMX Transmissions.

THE FORUM

ELMHURST AUTO PARTS, Elmhurst, Illinois, has submitted a fuel pump from a 1976 Ford truck with a 460 cid V–8 Engine. The pump diaphragm repartedly broke, allowing gasoline to enter the crankcase and mix with the engine oil.

PEDLEY'S GARAGE, Owensboro, Kentucky, reports a possible design problem in a 1971 Ford LN600 with 140,000 miles. The tank is made of a plastic material and is mounted very close to the muffler. A heat shield is between the tank and muffler, causing direct heat to be applied to the shield. The temperature was sufficiently high to melt a 2 x 6 inch hole in the fuel tank, creating the possibility of a fire. Similar occurrences are of interest to the PRP. Please report any of which you are aware.

In response to an article in the July, 1978 PRP *News*, W & S SERVICE, INC., Wilmington, Delaware, has submitted two fuel lines. Both were removed from a 1973 Buick Electra with 27,000 miles. One hose, leading to the fuel pump, was reportedly leaking gasoline. The other, leading from the pump, had ruptured.

The PRP has received twelve carburetor floats this month from participating members. All floats received were reported to have suffered gas saturation, which caused flooding, stalling, and overall poor engine performance. These inputs were in response to the carburetor float saturation report in the July, 1978 PRP *News*. The contributing shops were RICHARDS AUTO SERVICE, Los Angeles, California, SUBURBAN AUTOMOTIVE, Lynwood, Washington, and AUTO BRAKE CORPORATION, Norfolk, Virginia.

FRANK'S AUTOMOTIVE SPECIALIST, Montour Falls, New York, has submitted two Ford EGR plates which had corroded. One of the plates was removed from a 1973 LTD with 37,000 miles. The deteriorated EGR plate caused a hole to develop in the carburetor base plate. This allegedly caused the carburetor exterior to become fuel-soaked, creating a potential fire hazard. The NHTSA is currently looking into Ford EGR spacer plate/exhaust fume problems and any information you might have would be helpful.

WALES GARAGE, Fort Lauderdale, Florida, has submitted to the PRP a timing belt from a 1976 Chevette with 15,943 miles. The belt was reported to have failed while the vehicle was in motion. FRANK'S AUTOMOTIVE has also noted a timing belt problem in a 1976 Chevette with 18,733 miles. The shop maintains that the metal gears were worn by the belt teeth to such a degree that the belt jumped timing.

The NHTSA has received 10 reports of liquid gasoline spewing out of the filler neck when the gas cap is removed on late model Volvos. Other reports of this problem are urgently being sought.

Late model Volvos have also been reported as stalling due to vapor lock in the fuel lines. Additional reports of this problem are also of interest.

The End of the High Speed Chase?

The Department of Transportation has recently concluded that high speed operations by police and emergency vehicles are a threat to highway safety and should be more closely controlled and monitored by local authorities. The NHTSA Administrator, Joan Claybrook, suggests that "immediate action is needed to more accurately determine the degree and severity of prablems associated with high speed chases."

To help alleviate some of the danger in high speed operations, the NHTSA has developed a drivers' course for operators of emergency vehicles which would include an explanatory guide to the course, an instructor's manual and lessan plans, and a trainee study guide for emergency vehicle operation. The course, designed to provide additional information or instruction for operators who have already passed the defensive driving course, should be available in late fall.

A report issued by the Connecticut safety commission showed 344 emergency vehicle accidents in the state during 1976 with 10 persons killed and 321 injured. In 1975, 343 accidents resulted in 6 deaths and 298 injuries.

The Commission's findings included the follawing recommendations:

1. Emergency response vehicles shauld be clearly defined by state law.

2. Lights an all emergency vehicles should be of uniform colar to eliminate confusion on the part of motorists.

3. Training should be expanded to include special training and licensing of emergency response vehicle operators, with police officers receiving additional training in high speed pursuit driving.

4. Increased penalties for those attempting to flee from the police at high speeds.

5. Adoption by police departments of a specific detailed policy for officers involved in high speed pursuit, following the state policy as a guide.

6. Institutian of a public information campaign ta advise motarists of their responsibilities towards emergency vehicles.

parts return program news

U.S. DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4, No. 5–6 November-December 1978

GM RECALLS 1975 MONZA STARFIRE, SKYHAWK

General Motors recently announced that it will recall some 130,000 1975 V–8 equipped Chevrolet Monzas, Oldsmobile Starfires and Buick Skyhawks for a front wheel bearing problem. As reported in the May 1978 issue of the PRP News, grease may not be adequately retained in the front wheel bearing under heavy brake application, due to the heat softening the grease. GM received three reports of accidents and one injury due to this condition.

The remedy will entail the addition of newly developed grease retainers and seals in the front wheel hubs to improve grease retention. GM has indicated that new outer wheel bearings will be installed and inner ones checked for damage. All bearings will be repacked with the recommended GM grease. Parts should be available in January 1979, at which time owners will be notified.

Special thanks to FARRELL'S SUNOCO STATION, Fairview Village, Pa., who contributed parts from a '75 Monza. Thanks also to our other members who contributed related info.

U.S. DEPARTMENT OF TRANSPORTATION
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION
WASHINGTON, D.C. 20590

THE ADMINISTRATOR

Dear PRP Member:

I want to take time out this holiday season to thank all of you for your participation in our Parts Return Program (PRP), particularly those of you who have been active participants this past year.

We are very proud of the PRP and the contributions it has made to motor vehicle safety. As many of you know, the Program has now been in operation for over 7 years. During that time, over 7,000 failed automotive components and information have been received from approximately 700 participants. These components and the related information have been crucial to the support of many of our safety defect investigations and resultant recalls, and have served often as early warning indicators of vehicle safety problems. Please take a moment today and jot down on the Information Report form any information concerning a possible vehicle or equipment defect that you may have noticed in the last few days. Drop it in the mail to us, and let the manufacturer know as well, so that we can all work to improve motor vehicle safety. Believe me, data from you can do more to isolate a problem in its early stages than from any other source.

I want to also mention that we have received enthusiastic response from new car dealers, fleets, and automotive parts suppliers about joining the Program. Almost 90% of those visited expressed their interest in joining the PRP.

Again, I thank all of you for your support.

Joan Claybrook

Joan Claybrook

PICTURE IT

A picture is worth a thousand words (well, maybe not that many) but not a single part.

We have noticed an increase in the number of photographs accompanying failure reports and we like it. Many have been the Polaroid or self developing type. Photos are particularly useful in conveying information on parts or failures that are repaired on the vehicle. Frame cracking is a good example. They are also a good way to show the extent of damages caused by a failure, a fire for instance. A report documented with photos carries more weight should an investigation into the problem be opened.

In addition, many of the photos contained in the News have been sent in by members. Next time you have a part that must be returned to the customer or manufacturer, cannot be removed, or is too big to send in, "picture it" with your info report.

NHTSA STEPS UP INVESTIGATION OF VW RABBIT MASTER CYLINDERS

As originally reported in our May, 1977 issue of the PRP News, the PRP has received a number of reports regarding problems in VW Rabbit master cylinders. Since that time, numerous complaints have been received by the National Highway Traffic Safety Administration (NHTSA) on Rabbits and other models indicating a widespread problem.

For this reason, the NHTSA is extending its inquiry into VW master cylinders to include 1975–78 Rabbit and Scirocco master cylinders, and 1974–78 Dasher and Audi master cylinders.

Your help on this review is urgently needed. The NHTSA requests any failed Rabbit, Scirocco, Audi and Dasher master cylinders for testing purposes. Please do not disassemble the cylinder before sending it to the PRP.

A description of the circumstances surrounding the failure is also quite important. For example, did the pedal go to the floor? Was there a forewarning such as sluggish braking action? gradual wear? Was the warning light on for a period of time before the failure occurred? Did an accident result?

Along with information on the circumstances of the failure, please note the following items as well: vehicle identification number, mileage at failure, vehicle model, whether the part was original equipment or a replacement, whether the part had been replaced more than once, etc.

If the part is not available, please record all information on the information report form and send it as soon as possible to the PRP.

1979 GAS MILEAGE GUIDE

Free copies of the first edition of the 1979 Gas Mileage were made available to the public the first week in November. The Departments of Energy and Transportation have compiled information pertaining to new cars, station wagons and light truck models and the estimated miles-per-gallon rating for each type of vehicle.

The 1979 edition no longer gives the values previously called "highway" and "combined" mpg. The value previously named "city" estimate is now called the "estimated mpg." Studies showed that of the three previous values, the city number was the closest to the actual average fuel economy in real driving.

New car dealers are required by law to display the guides in their showrooms and to keep an adequate supply on hand. Bulk copies can be requested from Fuel Economy Distribution, Office of Administrative Services, Department of Energy, Washington, D.C. 20545.

FIRESTONE 500 RECALL UPDATE

On October 24, 1978, the National Highway Traffic Safety Administration (NHTSA), received the agreement from the Firestone Tire and Rubber Co., calling for the recall of Firestone 500 Steel Belted Radial Tires and Firestone TPC Steel Radial Tires under the terms announced on October 20.

In announcing the recall, Secretary of the Department of Transportation remarked "it is fashionable today to attack the government's regulatory powers. The Firestone case, however, shows the wisdom of allowing citizens to use their government to force action that they could not gain as individuals".

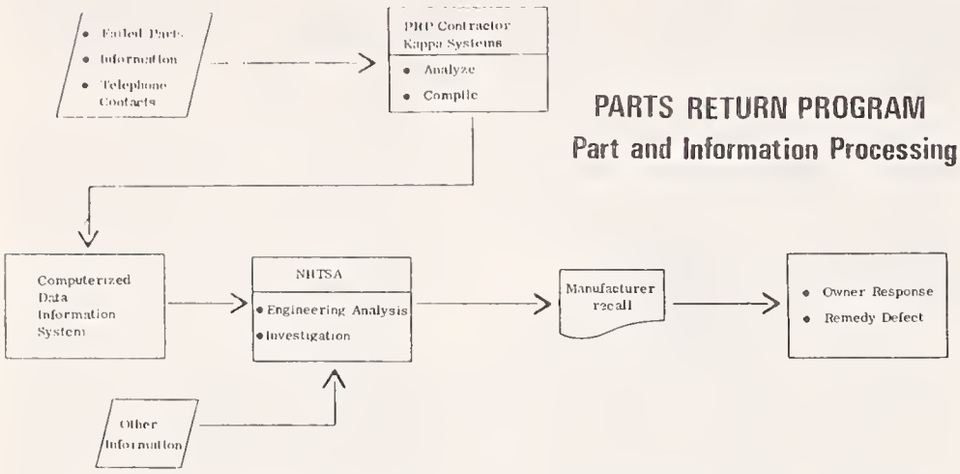
The tires involved in the recall are those Steel Belted 500's made with the five-rib design manufactured before Jan. 1, 1977. The 500's made with the seven-rib design and TPC radial tires will be included if manufactured before May 1, 1976.

The Parts Return Program would like to give special thanks to those members who have contributed to the case by information they have come across. These members are GOTHAM AUTO LEASE, New Rochelle, NY, AUTOMOTIVE CITY SERVICE CENTER, San Francisco, CA, JOHN'S UNION SERVICE, Seattle, WA, SCHUBERTS AUTO SUPPLY, Poughkeepsie, NY, HENNIKER AUTOMOTIVE, Henniker, NH, and A&A AUTO SUPPLY, Boulder, CO.

TELEPHONE CALLS

If you have information for the PRP or are in need of supplies, please give us a collect call at 703/527–4500. We'll be more than happy to take the information over the phone.

WHAT EVER HAPPENED TO THAT PART I RETURNED? PART III



Last issue we considered the engineering analysis/defect investigation process within the NHTSA which can lead to a recall. Our concluding article in this series shows what steps are required of the manufacturer by the National Traffic and Motor Vehicle Safety Act (the Act), and supporting regulations.

First, the manufacturer submits to NHTSA a defect information report which outlines what vehicles and how many are affected, a description of the defect, and a description of the corrective measure to be taken. The manufacturer then has three options to remedy the defect: (a) by repairing the vehicle without charge, (b) by replacing the vehicle with a reasonably equivalent one, (c) by refunding the purchase price less allowance for depreciation. In the case of replacement equipment, this can only be repaired or replaced, with no refunds. In most cases, a vehicle is modified to prevent a failure, or to preclude any safety consequences as a result of the failure.

Once the manufacturer has elected one of these options he then notifies dealers of the upcoming action. Dealers must receive equitable reimbursement for their efforts in performing the correction action.

Next the owners are notified by first class mail. The letter should motivate an owner to get his vehicle inspected or corrected as soon as possible. This letter must contain: (1) a description of the defect, (2) an evaluation of the risk involved, (3) what action will be taken to remedy the defect, (4) state that it will be without charge, (5) state when the parts or remedy will be available and in the case of tires, the time limit (60 days) in which they must be replaced and (6) the procedures to contact NHTSA if unreasonable difficulty is experienced in obtaining corrective action.

Is the manufacturer's obligation limited in any way by the Act? Yes, in the case of a vehicle over 8 years old, the manufacturer is not bound to remedy the defect without charge. This is 3 years in the case of tires. There is also no provision in the Act for reimbursement of, (a) damages or expenses incurred as a result of a defect or, (b) expenses to repair a defect prior to the official determination that it exists.

Now, if all this sounds legalistic, it is. We hope though, that by reading this article you have gained a better understanding of what a safety recall is all about. We hope that this series has given you an idea of the special part you play in the process. NHTSA needs the knowledgable, timely reports that only you can provide!

PRP MEMBERS RESPOND TO AMPLIFIER PROBLEMS

In the April, 1978 issue of the PRP News, failure of Ford ignition amplifiers was discussed. More inputs have been received by the PRP regarding this. Wayne Wheeler of WAYNE'S GARAGE in Eugene, Oregon, submitted to the PRP an ignition amplifier from a 1978 4-cylinder Ford Pinto with 20,218 miles. The car stalled and could not be restarted. Several checks were run on the ignition amplifier with no positive results. The amplifier was replaced, and this apparently corrected the problem.

Mr. Robert L. Leu, Parts and Service Manager at V & H FORD in Marshfield, Wisconsin also mentioned that he was aware of a problem.

Larry Fox of FOX AUTOMOTIVE in Tulsa, Oklahoma reported to the PRP an explanation of a problem, which he has also seen. Sometimes the resistance wire on the amplifier which carries approximately 1.6 ohms resistance can crack internally and thereby cause an intermittent connection. Visual inspection cannot detect this crack. Electrical testing of this possible cause should be included before an entire unit is replaced.

Donna Foran of TIM'S IMPORT SALES AND SERVICE, Hutchinson, Kansas, reports a failed ignition amplifier from a 1975 MGB Roadster with 34,000 miles. The failure of this component caused intermittent stalling of the vehicle.

The NHTSA is currently looking into problems with Ford ignition amplifiers and needs whatever information is available from the field.

AMC VACUUM ADVANCE

ROPE GARAGE, Cibolo, Texas, reports a distributor problem on a 1977 American Motors Pacer. The spring holding down the distributor cap was, according to the shop, catching on a wire and causing an electrical short. The result—complete engine shutdown. A ruptured vacuum advance diaphragm was also reported.

The NHTSA has reports that a ruptured diaphragm can be responsible for the distributor cap blowing off in some 1975–76 AMC vehicles. When the engine is shut off, a vacuum in the cap draws an air fuel mixture from the intake manifold into the distributor. On restarting, the distributor cap can blow off due to the combustible mixture. If this happens often enough, the springs holding the cap can weaken and may need replacement. Replacement clips are available from AMC, we understand.

If you note this problem, the first place to look is the vacuum advance unit. Next, please report the information to the PRP. Thanks.

UNIROYAL TIRES

Joyce Lyons of American Hospital Supply/Scientific Products Division in McGaw Park, IL reported problems involving two Uniroyal tires. The tires were Uniroyal Steel Belted radials, size HR78–15, both on the same vehicle. These tires developed belt separation (one at 32,000 miles the other at 49,000 miles), which created balancing and alignment problems. A rough ride brought attention to the tires. If you have encountered similar problems with any steel radial tires, please send us the information.

FAILED PARTS, NO PARTS

B. W. RILEY ALIGNMENT AND BRAKE SERVICE of Springfield, Virginia, has contacted the PRP regarding the brake power booster unit on Chevrolet Luv pick-up trucks. Riley's encountered a 1976 Luv pick-up suffering from erratic braking. The apparent problem, according to the shop, resulted from the breaking of the master cylinder pushrod on the atmospheric side of the diaphragm in the power booster. The pushrod reportedly comes apart in the rubber, and Riley's has seen this in other Luv vehicles before.

After diagnosing the problem and determining that a replacement part be obtained, Riley's was faced with still another problem; no parts could be located on the east coast. Dealers in the east were reportedly not stocking OEM parts for two year old vehicles. It was explained to the PRP that this is a common occurrence often causing inconvenience for the shop as well as the shop's customers.

Although the PRP can do nothing directly to help, we may be able to pass along info from our member shops, part suppliers and dealers concerning some hard to find parts. Let us know what you think. Part suppliers, dealers: If an item which could cause safety problems suddenly becomes a hot seller, let the PRP know. It could indicate the start of a widespread problem.

Recently, the PRP received o letter from Fronk Hornyak, o former director of the Ohio Chapter of the Independent Garage Owners of America, Inc., (IGO). Mr. Hornyak, who has retired from the service industry, provided us with photographs ond information concerning corrosion damage to the under-corrioges of vehicles exposed to salt ond other ice preventive rood odditives. .The photograph shows o vehicle which reportedly come apart at the front door posts as it was hoisted on a front end lift. Hornyak commented that this is o common hozard particulorly where salt ond other chemicols ore utilized for ice and snow removal. With winter on the move, oll PRP members should be aware of potentially dongerous corrosion situations.

THE FORUM

WALES GARAGE in Fort Lauderdale, Florida has contacted the PRP regarding an EGR plate from a Ford vehicle with 48,000 miles on the odometer. The metal of the plate was eaten away causing engine stalling periodically. Wales installed a replacement.

Also received from Wales' Garage was information concerning the cruise controls on Lincoln Continentals. The vehicle in question was a 1973 Continental Mark IV with approximately 50,000 miles. The shop reported that the control would not shut off by stepping on the brake or by operating the switch on the steering wheel. This condition has been seen on other Ford vehicles equipped with cruise control, by the shop.

Lee Davis of L.A.D. Auto Electric in Spokane, WA, has submitted to the PRP several turn signal switch assemblies, primarily from Ford products, where one or more turn signal indicator or brake lights fail to operate. In some cases, there is a short of some kind however, the fuse did not blow. This can cause the wire to get hot and in some cases melt the synthetic covering. The shop believes that one possible problem is that the switches are not compatible with the recommended fuse amperage.

Bill Duncan of Duncan's Auto in Phoenix, AZ, reported to the PRP a possible problem with 318 V–8 equipped Plymouth Volares. The problem involved a 1976 Volare ring and pinion gear assembly. The ring gear attaching bolts backed out and locked the ring against the housing. This caused the vehicle to stop in the middle of the street. The shop believes that the ring and pinion gear seems too small (7¼") for the V–8 engine drive train.

AUTO HOSPITAL, Lincoln, Nebraska, reported to the PRP a 1978 Dodge Pickup (150 series) that had apparently been delivered from the factory with a broken coil spring and bent frame. The third coil from the bottom of the right front spring was broken, causing a hard ride and difficult steering. The vehicle was driven for approximately three weeks before the problem was discovered and repaired.

Dave Miller of ROXBURY GARAGE, Roxbury, CT, has submitted to the PRP information and photos concerning a 1977 Plymouth Volare with 19,000 miles. The vehicle is equipped with a 318 2bbl. engine which was 'skipping' and running rough at idle and low RPMs. The problem had been experienced since the purchase of the car. Roxbury Garage removed the carburetor and a hole was discovered in the lower section of the right hand side intake barrel of the manifold. This hole was allowing exhaust gas to continually enter the intake as if the EGR valve (which was in fact operating normally) was constantly open. The shop corrected the problem by tapping and installing a ¼" plug.

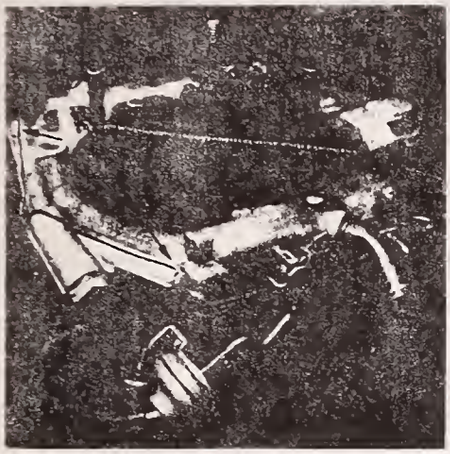
The BRAKE SHOP in East Norwalk, Connecticut, has submitted photos documenting a problem they encountered with Dodge 300 series vans. When turning the steering to either extreme, the disc brake caliper hits the frame. This forces the piston back into the caliper. Upon the first brake application after such a maneuver the brake pedal goes to the floor. Subsequent pumping will return the brakes to normal.

Dodge is evidently aware of the problem as they issued a service bulletin and changed the steering/jounce bumpers on the 1977 model. New bumper brackets (P 4039246(R) and 4039247(L)) are available for 1973–1977 ½ models. The problem has also been cured by using the original heavy duty stop which is cast (P 40329789). The NHTSA is currently looking into this problem and a decision is expected soon.

DEFECT INVESTIGATION CHECKLIST

- C9–01: Alleged steering gear attaching bolt failures on 1974–77 Ford vans and light trucks.
- C8–39: Alleged engine compartment fires on 1977 Porsche 911 vehicles.
- C8–33. Alleged Stalling of 1977 Oldsmobile, Buick and Pontiac Vehicles Equipped with V–6 Engines.
- C8–29: 1973–1975 Pinto, Mustang II and Bobcat Steering Coupling Flange.
- C8–28: Alleged Front Wheel Bearing Failures on 1973–1977 Fiat 128 and X–1/9 Vehicles.
- C8–27: Alleged Fuel Leakage Problem in 1975 and 1976 V–8 equipped Ford Granadas and Mercury Monarchs.
- C8–24: Alleged Failure of Certain 13 and 14 inch Chrome Trailer Wheels Manufactured by Broad Wheels Company.
- C8–20: Alleged Malfunction of Power Steering Control Valve in 1975–1977 Ford Granadas and Mercury Monarchs.
- C8–04. Alleged Sticking of Idler Arm Bushing in 1968 to 1974 Fords, Lincolns and Mercurys, Full-Size and Intermediate.
- C8–02: Alleged Jumping Into Reverse from the "Park" Position of Certain 1970–78 Ford, Lincoln and Mercury Vehicles Equipped With C–6 or FMX Transmissions.

CITY OF SAN JOSE POLICE PATROL FIRE



The City of San Jose has submitted to the PRP information and photos of a 1976 Dodge Monaco Police Patrol vehicle which had been destroyed by an engine compartment fire. The 440 cid engine, was equipped with a Carter Thermoquad four barrel carburetor in which an unsecured tapered plug had come out, allowing gasoline to flood over the engine. The vehicle was still parked with the engine running when the plug reportedly came out and started the fire. The officer immediately left the vehicle, but the running engine caused more fuel to be continually pumped out, feeding the fire and ultimately destroying the vehicle.

The San Jose maintenance department is now installing safety wires to secure these plugs in place, as shown in the photo. The PRP would be interested in any information concerning similar experiences from other program members.

ASPEN-VOLARE CASTER/ CAMBER PROBLEMS

Recently, 1976–1978 Volare and Aspen models were recalled by the manufacturer to install support brackets to reinforce the front suspension pivot bar attachments.

These brackets partially cover the holes in the pivot bar plate used when adjusting the front end caster/ camber, making adjustments with conventional tools difficult. The manufacturer has developed a special tool which will overcome this problem in adjusting caster/camber.

However, the PRP has received information involving difficulty in front-end alignment on these vehicles. Even with vehicles in which these special support brackets have not been installed, shops have experienced difficulty. Reportedly, there is lack of sufficient range for adjustment on the upper control arms to allow for proper caster/camber settings. Dick Thompson of STOP & GO in Portland, Oregon has seen this problem on several vehicles as did ROBERTS AUTO REPAIR in Chicago, IL. If you have experienced front-end alignment problems on Volares or Aspens, please let us know what you found.

parts return program news

U.S. DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4 No. 7 January 1979

DODGE BRAKE PROBLEMS REVISITED

Remember our article about Dodge vans experiencing brake piston-freeze up, as reported in the PRP *News*, June, 1978? The problem was reported on 1977 Dodge B–200 and B–300 vans with brake pistons reportedly made of a lightweight metal alloy anodized with a surface similar to teflon. This month the PRP has received a failed brake caliper piston from a 1977 Dodge Aspen. The Aspen piston has a smaller surface diameter than the B–200 and B–300 van pistons; the material, however, appears to be the same.

According to the shop which sent the piston, JONES SERVICE, Delmar, New York, the vehicle suffered a loss of braking power as a result of brake fluid leakage due to a "flat spot" worn on the piston surface. Bud Jones, owner of JONES SERVICE, notes that fluid leaked out along the piston's flattened area, ultimately causing the brake loss. He points out this could possibly be the result of uneven brake pad wear over time, causing the piston to move out of the cylinder on an angle. Such erratic piston travel could possibly cause a flattening of the piston surface.

The NHTSA is currently looking into Aspen brake problems and would appreciate any additional information from members.

TELEPHONE CALLS
Call us COLLECT at
(703) 527–4500

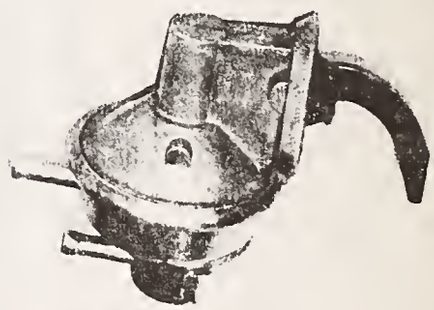
TRIUMPH TR–7 FUEL PUMPS

TIM'S IMPORT SALES AND SERVICE in Hutchinson, Kansas has forwarded to the PRP two leaking fuel pumps, one taken from a 1975 Triumph TR–7 with 18, 079 miles and the other from a 1976 model with 26,563 miles. The owner of one of these vehicles noticed puddles of gasoline where the car had been parked. The shop first checked all fuel lines and after finding no leaks, investigated the fuel pump. Because the leak was not continuous, the problem was difficult to diagnose.

Fuel pumps for the Triumph TR–7, as shown in the picture, are designed to be assembled by crimping the pump cover to the main housing. Tim's reports that this does not make a seal sufficient enough to prevent fuel leakage.

According to the shop, through normal use, the crimped seal of the pump can work loose, creating an intermittent leak. At times, there will be no leaking, but at other times fuel will spray out into the engine compartment.

Besides creating abnormal engine operation, whenever a situation involving fuel leakage occurs, there is a potential fire hazard. Because the pump is crimped together, there is nothing to tighthen to prevent or eliminate the leak and the entire pump must be replaced. Any information of similar failures in TR–7's, should be forwarded to the PRP.



FORD LIGHT TRUCK AND VAN INVESTIGATION

A suspected safety defect in the steering systems of Ford light trucks and vans produced from 1974 through 1977 is being investigated by the U.S. Department of Transportation. The investigation is centering on Ford E series Econoline vans and F series light trucks which may suffer steering loss when the steering gear box separates from the frame. The problem may be preceded by looseness in steering response; however, steering loss may occur without warning. There are an estimated 1.3 million of these trucks in use, and the NHTSA has received 26 reports of these failures.

In a related case, the American Automobile Association has requested in its December issue of "Let's Talk Road Service" information concerning cracks in the frame flange under the steering gear box in Ford F–350 trucks. These cracks may extend up to the lower steering box attachment bolt.

If you have experienced any of these problems, please report them to the PRP as soon as possible.

SAFETY STANDARDS FOR LIGHT TRUCKS AND VANS

The increosing fotality rote for occuponts of light trucks ond vans hos prompted NHTSA efforts to omend various motor vehicle safety standards for such vehicles, effective 1 September 1980.

NHTSA figures indicate a 25 percent jump in fatolities for this vehicle cotegory between 1975 and 1977, as compared to on increase of only 3.9 percent for possenger cars. In addition, the federal sofety agency found that 1975 and 1976 model yeor light trucks had 21.9 fatolities, agoinst 11.7 fatolities per million miles for passenger cars of similar weight.

The difference between these fotality rates con be reduced, NHTSA soid, by extending three of the safety stondords already applicoble to possenger cars to light trucks ond vons with o gross vehicle weight rote of 10,000 pounds or less. These standards involve improved interior podding to protect occuponts, improved protection for the driver from the steering control system in the event of on accident, ond limiting the distance the steering unit con move backwords in an impoct.

Federol Motor Vehicle Sofety Standard (FMVSS) No. 201 as amended would require that instrument panels, seat bocks, sun visors and arm rests be designed to lessen injuries when persons ore thrown ogainst them in croshes.

FMVSS No. 203 as opplied to light trucks and vons, would require steering assemblies to cushion the impact which occurs when the driver strikes the steering wheel in an accident.

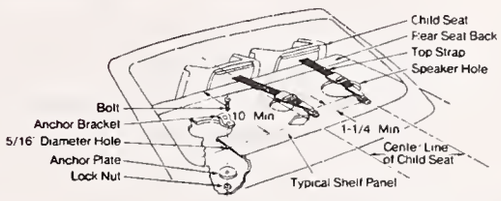
FMVSS No. 204 limits the rearward movement of the steering assembly to no more than five inches, when the vehicle crashes into a barrier at 30 miles per hour.

CHILD RESTRAINT SAFETY

The Notionol Highway Troffic Sofety Administration (NHTSA) recently onounced it plons to hold o Notional Child Automobile Restroint Sofety Conference this spring to help save the lives of more than 2,200 children under the oge of 14 who ore killed eoch yeor in motor vehicle occidents.

Joon Cloybrook, Administrator of the NHTSA, said stotistics indicate thot "opproximately 1,000 children up to age 5 are killed and 100,000 in this age group are injured annually in motor vehicle accidents. Mony af these deaths ond injuries could be prevented or reduced in severity if the children were restrained so thot they ore not thrown against the vehicle interior during a crosh.

Following the planned national conference, the NHTSA also will conduct 10 regional seminars an the subject of child restroints.



The NHTSA soid three simple rules can greatly improve o child's sofety while riding in a motor vehicle. Whenever a child is in a car, parents should remember to:

1. Insure thot safety belts or child restraints (for children under five years of oge) ore olwoys used.
2. Moke sure thot children sit in the rear seots.
3. Never leove the hotchback open when o child rides in the bock of a car.

"If these simple rules hod been followed, more thon two-thirds of the children killed in motor vehicle accidents would still be olive todoy," Claybrook soid.

The NHTSA said on unrestroined child in the front seot of o cor is three times as likely to be killed or seriously injured in o crosh os o properly restroined child in the rear seot; yet fewer thon one in 20 children under five are properly restroined in a child restraint.

The sketch below shows the proper instollotion of child restraints in the rear of a vehicle.

AVON LAKE, OHIO—PRP CITY

A recent ortiele in the Loroin, Ohio newspoper, *The Journol,* is devoted to the enrollment of the entire town of Avon Lake's independent service stotions into the PRP. Tony Abram, an Avon Lake city councilmon who is olso heod of the city's safety committee is responsible for this development.

Councilmon Abrom read about the PRP in a Department of Transportotion newsletter and decided the program would be af value to the community. He contacted the PRP and we of course endorsed his ideo wholeheartedly. Abrom, when interviewed by the newspaper explained thot "I got really good cooperotion from the local stations" odding thot "it's better if you hove oll the stotions in a town thon one, becouse people go to different stotions."

Phil Bruder, owner of PHIL's SHELL in Avon Loke, pointed out thot "we see stuff for in odvonce of the people driving the car and woy before the government gets wind of it". All of the station owners Abram contocted expressed a keen interest in the PRP, making Avon Lake the first city in the U.S. to have all its stations involved in the progrom. Keep those parts and informatian caming, Avon Lake. We hope this is the start of something big!

THE FORUM

One and a half million Ford Pintos were recently recalled by the Ford Motor Co. to correct a problem in the fuel system design. The recall campaign involves the installation of a protective shield between the gas tank and the differential unit. Four recall "kits" are being used, depending upon the engine/exhaust configuration of the vehicle. The type of kit to be used depends upon whether the vehicle uses leaded or unleaded gasoline and whether it is a single or dual exhaust.

FOX AUTOMOTIVE in Tulsa, Oklahoma, has reported a problem in the recall service performed on a 1975 V–6 Pinto equipped with dual exhaust. Within three days of the installation of the shield, the shield began to melt, presumably due to the high temperatures of the exhaust system. It is likely that the wrong kit was used to repair this Pinto. Similar problems should nonetheless be reported to the PRP. In the meantime, if you are involved in servicing Pintos, please take care to check the shield. If you are installing the shields, remember to double-check the part kit.

The PRP would like to extend special thanks to Jim McCarty, Associate Editor of *Brake and Front End* Magazine, for his excellent article on the PRP. The article, which appeared in the November issue, featured Harry May of May's Auto Service in Mansfield, Ohio, discussing his participation in the PRP. May, a recipient of the PRP Administrator's Award stated "we've had no problems whatsoever, and NHTSA definitely has a good thing going. They make it so easy to help that we enjoy it".

Gene Feldmann, President of the Florida Chapter of the Automotive Service Council, (ASC), has reported on an alleged front spindle defect in a 1978 Dodge Custom 300 truck. The vehicle had approximately 12,200 miles on its odometer. After inspection it was determined that the outer end of the spindle snapped off 1 ½" from the spindle tip. A check of the bearings revealed that grease was still evident; however, metallic flakes were apparent on the bearing surfaces.

Feldmann's shop, AUTOMOTIVE SAFETY SERVICE, INC., has also come across a 1976 Chrysler Cordoba which suffered a loss of steering power assist. The gearbox would allow turning with power only to the left. Upon examination, it was discovered that the oil flow control valve assembly trough was broken causing all of the power steering fluid to flow to the left side. AUTOMOTIVE SAFETY SERVICE replaced this power steering gearbox in order to correct the problem. The vehicle had only 8,000 miles.

Tim's Import of Hutchinson, Kansas, a regular PRP contributor, has submitted a total of 13 inputs involving safety related defects this month. This is an unusually high count for a single contributor. Thank you Tim's for your outstanding participation.

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U S DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4 No. 8-9 February-March 1979

FIAT UNDERCARRIAGE RUST RECALL

The U.S. Department of Transportation has announced an agreement in principle between Fiat Motors of North America and NHTSA to recall 31,702 1970-71 model 850 Spyders because of excessive undercarriage rust and corrosion. This was in follow-up to the NHTSA's January 1979 initial defect determination which included 1970-74 model 850 and 124 Fiat vehicles. Information concerning those 124 models not covered by the present agreement is still requested.

Corrosion weakens critical areas and components of the underbody such as suspension and steering systems and floor pans beneath the seats. Failure of these components can result in an accident. The photo shows the floor pan of a Fiat 124.

The recall will require Fiat to notify owners and repair the vehicle. Where corrosion is so advanced it cannot be repaired, and the vehicle was purchased after January 16, 1971 (the Agencies eight year statute of limitation) Fiat will be required to repurchase the vehicle.

Member shops having information on those vehicles still under consideration are asked to forward it as soon as possible. Photo's would be helpful.

Call us COLLECT at (703) 527-4500

15 SHOPS RECEIVE ADMINISTRATOR'S AWARD

Our PRP members supplied information last year that related directly to 16 formal investigations. Four of these investigations have already resulted in safety recall and remedy campaigns by manufacturers. Over 850 parts were received from 193 shops during the past program year. Of these 193 participants, 15 were selected to receive the Certificate of Appreciation Award.

In making the awards, NHTSA Administrator, Joan Claybrook, expressed her appreciation for the voluntary effort put forth by these shops in submitting components and information on a regular basis.

The 15 shops to receive the award are:

- **Harry's Auto Service,**Great Barrington, Massachusetts
- **Auto Brake Corporation,** Norfolk, Virginia

- **Ise Automobile Service,** North Hollywood, California
- **Kolesnik's Service Station,** Rochester, New York
- **Las Vegas Wheel Alignment and Brake Service,** Las Vegas, Nevada
- **L.A.D. Auto Electric,** Spokane, Washington
- **Foreign Auto Service Center,** Minneapolis, Minnesota
- **Big Brake Safety Center,** Gulfport, Mississippi
- **Woody's Garage,** Montoursville, Pennsylvania
- **Day-Nite Auto Station,** Kaukauna, Wisconsin
- **A. Ruth's Garage,** Colonie, New York
- **Automotive City Service Center,** San Francisco, California
- **Bob Chester's Auto Service,** Arlington, texas
- **Bud Jones Service,** Delmar, New York
- **Clemens Auto Repair,** Racine, Wisconsin

The PRP would like to extend a special "Thank You" to these shops for their outstanding work during the past year. We hope that you will be joined by many others in making your contribution to highway safety during the coming year.

THE FORUM

One and a half million Ford Pintos were recently recalled by the Ford Motor Co. to correct a problem in the fuel system design. The recall campaign involves the installation of a protective shield between the gas tank and the differential unit. Four recall "kits" are being used, depending upon the engine/exhaust configuration of the vehicle. The type of kit to be used depends upon whether the vehicle uses leaded or unleaded gasoline and whether it is a single or dual exhaust.

FOX AUTOMOTIVE in Tulsa, Oklahoma, has reported a problem in the recall service performed on a 1975 V–6 Pinto equipped with dual exhaust. Within three days of the installation of the shield, the shield began to melt, presumably due to the high temperatures of the exhaust system. It is likely that the wrong kit was used to repair this Pinto. Similar problems should nonetheless be reported to the PRP. In the meantime, if you are involved in servicing Pintos, please take care to check the shield. If you are installing the shields, remember to double-check the part kit.

The PRP would like to extend special thanks to Jim McCarty, Associate Editor of *Brake and Front End* Magazine, for his excellent article on the PRP. The article, which appeared in the November issue, featured Harry May of May's Auto Service in Mansfield, Ohio, discussing his participation in the PRP. May, a recipient of the PRP Administrator's Award stated "we've had no problems whatsoever, and NHTSA definitely has a good thing going. They make it so easy to help that we enjoy it".

Gene Feldmann, President of the Florida Chapter of the Automotive Service Council, (ASC), has reported on an alleged front spindle defect in a 1978 Dodge Custom 300 truck. The vehicle had approximately 12,200 miles on its odometer. After inspection it was determined that the outer end of the spindle snapped off 1 ½" from the spindle tip. A check of the bearings revealed that grease was still evident; however, metallic flakes were apparent on the bearing surfaces.

Feldmann's shop, AUTOMOTIVE SAFETY SERVICE, INC., has also come across a 1976 Chrysler Cordoba which suffered a loss of steering power assist. The gearbox would allow turning with power only to the left. Upon examination, it was discovered that the oil flow control valve assembly trough was broken causing all of the power steering fluid to flow to the left side. AUTOMOTIVE SAFETY SERVICE replaced this power steering gearbox in order to correct the problem. The vehicle had only 8,000 miles.

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John Shanahan of WASHINGTON GARAGE, *Bergenfield, NJ, reports numerous incidents of Ford vehicles with electronic ignitions experiencing intermittent stalling. The problem was reportedly due to failure of the ignition amplifier, shown above. NHTSA is currently looking into this problem and any information you might have will be put to immediate use.*

AMC SPARK ADVANCE UNITS

The **City of Lancaster** Municipal Garage, Lancaster, Pennsylvania, has responded to an article in the November issue of the PRP News dealing with potential problems in the vacuum advance units used in American Motors vehicles.

The city of Lancaster has thirteen AMC vehicles in its fleet. Five of these are 1975 Hornets equipped with 258 cid engines. Of these thirteen vehicles, seven had spark advance units which have been recently replaced due to malfunctions.

Lancaster's motor vehicle bureau superintendent, Charles Simmons, suggests that the problem may involve the quality of the diaphragm material being used in the manufacture of the unit. As reported in the PRP **News**, a vacuum in the distributor cap can be created when the engine is shut off, drawing an air fuel mixture from the intake manifold into the distributor. Upon restarting, the distributor cap can blow off due to the combustible mixture. Continual occurrences of this situation can weaken the spring clips holding the distributor cap.

WHAT WE'VE LEARNED FROM YOU

Recently, the PRP completed a series of phone calls to all of our new program members—parts suppliers, high mileage fleets and new car dealerships. The purpose of this contact was to establish an effective line of communication with the new members on a one-to-one basis. Through these conversations we learned what our members expect of the PRP as a source of information for the service industry and as an integral part of the highway safety efforts.

Although most of our parts suppliers are unable to submit parts, they are capable of providing information unique to their position as suppliers to both consumers and the professional mechanic. For this reason, many of our parts suppliers feel strongly that the program is valuable in assessing potential problems in automotive components sold over the counter.

High mileage fleet vehicles serve as an excellent means of monitoring component failures in the short-run, and most fleet administrators contacted felt that the PRP was a valuable trouble-shooting aid. Fleets can be of considerable assistance in noting early indications of a problem in a motor vehicle or component.

Our initial contacts with new car dealerships provided the PRP with new members exhibiting a positive attitude toward the goals of the program. In addition, dealership inputs could provide the opportunity to voice opinions and share expertise with other PRP members. Up to this point, however, few dealships have become actively involved in the PRP.

Lack of active participation on the part of our member dealers might suggest that they have nothing to offer the PRP. We don't believe this is the case. We are aware of the dealer's obligations to the manufacturer. We are also aware that the dealer's prime concern is customer satisfaction—satisfaction through service and proper maintenance as well as the good financial deal at the time of purchase. But a dealership today must be aware of potentially defective components on the vehicles it services for its customers. Such an awareness can only serve to strengthen the customer's faith in the dealership. The dealership is the link between the consumer and the manufacturer— there is no reason that it should not also be a link in the defect investigation process.

Honest, straight forward and accurate information is needed from the industry in order to maintain an accurate reporting system. In turn, the information will be utilized in our efforts to promote highway safety. The addition of parts suppliers, high mileage fleets, and new car dealers gives the program a new vantage point for defect investigation as well as a broader foundation with which to build a realistic approach to automotive safety.

STEERING GEAR BOX PROBLEMS IN LIGHT TRUCKS AND VANS

The PRP has recently been notified of three separate incidents of cracking in the frames of light trucks and vans at the point where the steering box is mounted,

Brake-O-Mat of Evanston, Illinois reports that the steering box in a 1977 B-300 Chrysler van used by the LaSalle Ambulance Company of Chicago broke away from the frame, resulting in a reduction of steering ability. The van had 83,000 miles.

Similar problems in a 1976 Ford F-250 pickup truck were reported by **Strahl's Automotive** of Canoga Park, California. The shop reports that the frame weld directly behind the steering gear box is cracked.

Finally, a 1977 Chevrolet Series 10 step van with 38,976 miles experienced frame cracking at three of the steering gear box mounting holes. **Belmont's Garage** of Langhorne, Pennsylvania, reports that it was necessary to plate and weld the frame before remounting the steering gear box. The problem was noticed when the owner complained of a shimmy resulting from bumps in the road. This is the second Chevrolet step van which the shop has seen in the past six months.

Ford Motor Company recalled 1976 E100, E150, E250 and E350 vans in 1976 for defective steering gear attachments. However, the NHTSA is currently investigating related problems. (See the list of current defect investigations in this issue of the PRP News). Any further information on these problems in light trucks and vans would be appreciated.

AMC SHIFT LINKAGE PROBLEMS

The **State of Connecticut, Department of Administrative Services, Fleet Operations,** reports approximately ten of its 1978 AMC Concords equipped with automatic transmissions have experienced failures in the shift linkage bellcrank bolt. The fleet currently has 200 of these vehicle.

The bolt is located on the left side of the transmission housing connecting the manual shift lever to the bellcrank. The bellcrank is in turn connected to the gear selector lever linkage. Apparently, the forces involved can cause the bolt to break.

Robert Sturm of the State of Connecticut Fleet Operations states that the affected cars would not start in the park position and that there is a loseness in the gear selector lever. This loseness brought attention to the linkage and ultumately to the broken bolt. The failure could result in the gear selector lever indicating park position but the transmission not actually being engaged in park. The car, if parked on an incline, could conceivably roll if the parking brake is not applied or does not hold. At least one of the vehicles involved had only 6,000 miles on it at the time of the failure. The PRP would be interested in the similar occurrences in AMC vehicles.

GM Intermediates

The NHTSA is currently seeking information on front spindle or bearing problems in late model GM intermediate size vehicles.

Also of interest are master cylinder, combination valve and caliper problems in these vehicles.

DEFECTS INVESTIGATION CHECKLIST

- C9-01. Alleged Steering Gear Attaching Bolt Failures on 1974-77 Ford Vans and Light Trucks.
- C9-02. Alleged Structural and Fuel Tank Corrosion in 1971-74 Ford Pantera Vehicles,
- C8-33. Alleged Stalling of 1977 Oldsmobile, Buick and Pontiac Vehicles Equipped with V-6 Engines.
- C8-29:1973-1975 Pinto, Mustang II and Bobcat Steering Coupling Flange.
- C8-27: Alleged Fuel Leakage Problem in 1975 and 1976 V-8 equipped Ford Granadas and Mercury Monarchs.
- C8-26. Alleged Failure of Wiring Harness Connecting Rear Wheel Speed Sensor to Anti-Lock Computer Module on Ford Series B, C, F, L, W and CL, 1975 to March 6, 1978.
- C8-24: Alleged Failure of Certain 13 and 14 inch Chrome Trailer Wheels Manufactured by Broad Wheels Company.
- C8-20: Alleged Malfunction of Power Steering Control Valve in 1975-1977 Ford Granadas and Mercury Monarchs.
- C8-02: Alleged Jumping Into Reverse from the "Park" Position of Certain 1970-78 Ford, Lincoln and Mercury Vehicles Equipped With C-6 or FMX Transmissions.

THE FORUM

The broken camshaft gear from a 1977 Ford Pinto was submitted to the PRP from **Maddox Auto Service** in Atlanta, Georgia. The gear consists of a metal body with hard plastic teeth bonded to it. As seen in the photo, the teeth broke free of the metal disc. The vehicle was in motion at the time of failure and required towing for repairs. The mileage at the time of failure was 45,000.

V & H Ford of Marshfield, Wisconsin, reports a possible design problem in the heater system of the 1979 Ford LTD as well as large engine Mercury vehicles. The new design of these systems is reportedly susceptible to picking up snow and ice which can accumulate on or near the heater core. As the core warms up, it melts the ice and in turn the fan blows the moist air on to the windshield. If the windshield is cold enough, a frost can form on the inside surface, obstructing the driver's view. This can happen, according to the service department, within a matter of seconds.

John Gross of **Champion Parts Rebuilders** in Oakbrook, IL, reports a 1978 Mercury Marquis with an alleged problem in the choke assembly. The welsh plug at the end of the choke piston chamber which seals the choke piston pulls out of the housing, causing an excessively rich mixture. The shop states that this rich mixture causes overheating.

Champion also reports a throttle valve problem in 1978 Marquis vehicles which may affect all Ford vehicles with a c.i.d. greater than 460. The vehicle in question is equipped with a 460 c.i.d. engine with a four barrel Autolite carburetor. The throttle valves on the rear barrels can stick open when the car is travelling approximately 30 mph, making it difficult to slow down the vehicle.

In response to the October 1978 PRP *News* article on Jeep filler neck leakage, Winslow Foster of **Henniker Automotive,** Henniker, New Hampshire, reports the problem in his 1975 Wagoneer. After repeated attempts to fix by the dealer, the tank was replaced.

Larry Jay of **Blue Jay Standard,** Green Bay, Wisconsin, has called the PRP to report two 1978 Dodge Aspen taxis he recently encountered with brake failure at approximately 45,000 miles. Apparently, the piston froze in the caliper, causing loss of braking action. A similar failure was featured in the June 1978 PRP *News*. The NHTSA is currently looking into caliper piston freeze-up in Aspens, Volares and some other late model Chrysler products. Any information you might have will be useful.

Duncan's Auto Repair, Phoenix, Arizona, has submitted to the PRP a torsion bar from a 1976 Dodge Aspen that had broken. As seen in the photo, the problem is similar to one reported in the June 1978 issue of PRP *News*. On this particular car, the torsion bar may have broken when the car hit a bump.

Tim's Import Sales and Service of Hutchinson, Kansas reports a catalytic converter on a 1977 MG which continually overheats. The owner has tried 4 or 5 times to have the problem corrected, with only temporary successes. After being repaired, the car will run for 2 or 3 days. The engine then becomes difficult to start, runs rough, and the converter overheats. The excessive heat build-up from the converter causes the floorboard to become uncomfortably hot.

MOVING to a bigger shop or a better location? Let the PRP move with you. Call us collect when you have a change in address so you won't miss an issue of the PRP News. (703) 527-4500

FORD TRUCK WHEEL STUDS PROBLEM

The NHTSA has received reports of breakage of wheel lug studs on 1975 and later model Ford pickup trucks, in particular the F350 with dual rear wheels. Failure of these studs could result in loss of vehicle control. The NHTSA is currently looking into this situation and would like any information the PRP members may have concerning Ford truck wheel lug studs.

ENERGY AND FUEL ECONOMY

The auto industry has been called on by Transportation Secretary Brock Adams "to cooperate with the government in what must be a mutual effort to get on top of the energy situation." At a recent news briefing, Adams remarked, "the costs involved in meeting the standards are high, but those costs represent an investment in the U.S. economy. On the other hand, the cost of not meeting the standards means dollars being spent for foreign fuel—and money in OPEC'S pocket." The trend towards the production and sales of lighter, smaller, more fuel efficient cars shows that the fuel economy program is working; and with transportation accounting for 55 percent of the total U.S. consumption of petroleum, automotive fuel economy becomes the country's single most important energy-saving program. 220 billion gallons of petroleum could be saved by 1990, with motorists cutting their necessary fuel costs by $60 billion.

Secretary Adams has scheduled a number of events focusing attention on the need for a more fuel efficient and safe automobile. He called a two-day conference in Boston February 13 and 14 which was attended by 600 automotive technical experts. As a result of this seminar, Secretary Adams expressed confidence that a "kind of fundamental break-through" is possible for the automotive industry prior to the end of this century. He also felt that the open meeting provided answers from both sides to "clearly indicate that we can achieve a subtantial improvement" in the average fleet fuel mileage. Representatives of both Chrysler Corporation and American Motors attending the conference expressed pleasure at what appeared to be an easing of the hostility between the automotive industry and the federal government agencies.

The fuel economy standards set for passenger cars are as follows:

Year	*Fuel Economy Standard*
1979	19 miles per gallon
1980	20 miles per gallon
1981	22 miles per gallon
1982	24 miles per gallon
1983	26 miles per gallon
1984	27 miles per gallon
1985	27.5 miles per gallon

SPRING CLEANING

"Now where was that wheel bearing?"

parts return program news

U S DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4 No. 10 April 1979

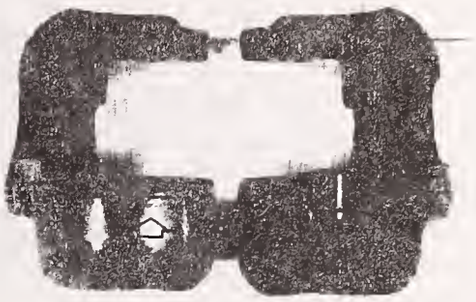
CHRYSLER BRAKE CORROSION

Bud Jones Service, Delmar, New York, reported a 1977 Dodge Aspen with front disc brake piston problems in the January PRP News. Mr. Jones has informed us that the same vehicle was recently back in his shop with brake piston problems on the front wheel. An air chisel was required to free the piston from the caliper cylinder. The problem evidently stemmed from a malfunctioning dust boot that allowed moisture to enter the caliper cylinder.

The NHTSA is currently looking into this problem, and has learned that Chrysler used a glass filled thermosetting plastic compound called phenolic to construct the caliper piston. This should eliminate piston corrosion, however it has been found that due to the tight fit of the pistons, corrosion of the bore can cause the piston to bind and freeze-up. This can allegedly result in brake drag, excessive heat, pad wear and reduced braking.

These pistons are used in the following vehicles: 1976 Dodge Dart and Plymouth Valiant; 1976-1978 Dodge Aspens and Plymouth Volare; 1977-1978 Chrysler Lebaron and Dodge Diplomat; 1978 Chrysler Cordoba and Dodge Charger.

We would like to hear from our members concerning this problem and its effects. Keep your eyes open for the models listed above and let us know what you discover.



GM INTERMEDIATE

The NHTSA is continuing its search for information concerning 1978-79 model General Motors intermediate size vehicles. Of interest are any front spindle or wheel bearing failures master cylinder, combination valve and brake caliper problems. Any vehicles experiencing trouble with more than one of the above mentioned systems would be of special interest.

THANKS FOR PHOTOS

We have been receiving more and more photos and diagrams from our members helping to explain particular problems submitted. We would like to extend our thanks for the extra time and effort taken to supply us with this material and hope that you will keep it up!

THE GRADING SYSTEM

A system for grading passenger car tires, developed by the U.S. Department of Transportation, will begin April 1, 1979 for bias-ply tires and October 1, 1979 for bias-belted tires. Radial tire grading will begin April 1, 1980. The new uniform tire quality grading regulation is designed to help consumers buy the best tire for the money. Under the regulation, issued last July, tires will be rated on expected treadwear, traction and temperature resistance.

The treadwear grade will specify the relative tread life compared to other types of tires. Using a graded numerical sequence as follows: 70, 80, 90, 100, 110, etc., the tires with the highest number should give the greatest mileage when driven under the same conditions. For example, a tire graded at 150 would be expected to have a tread life of 50% more miles than a tire graded at 100.

The traction grades from highest to lowest are A, B, and C, representing the tire's ability to stop on wet pavement. A tire graded A offers the best traction, while one graded C will have less traction.

The temperature resistance grades are A, B, and C. The grade C corresponds to a level of performance which all passenger tires must meet under a federal standard. Grades A and B represent higher levels of performance.

AUTOMATIC TRANSMISSION GEAR SELECTORS

The NHTSA has initiated an additional inquiry into inadvertent shifting into Reverse from Park on certain Ford vehicles. The agency now has underway an engineering analysis into 1970–79 Borg-Warner C-4, C-3, and Jatco automatic transmissions, as well as the formal Defect Investigation on 1970–78, C6 and FMX. These 6 transmission types cover the Ford lines since 1970.

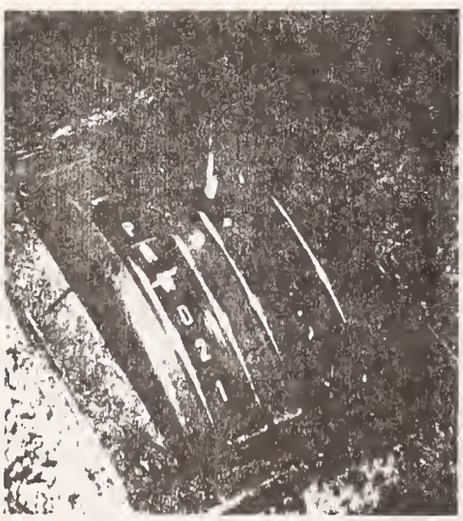
Field inspections of vehicles having experienced inadvertent shifting revealed that many of the vehicle selector systems were in proper operating order and when placed securely in Park, the vehicles would not accidently shift into Reverse. The incidents could be reproduced, however, by intentionally placing the selectors in a position between Park and Reverse. This could presumably be done in a moment of inattention or preoccupation. The introduction of an external force to the vehicle, such as a door slam, an impact on the steering wheel, or a movement of the prop shaft, due to slight vehicle rolling, would cause the selector system and the transmission to shift to Reverse.

We ask any shop which has information or experience bearing on any of the following issues to let us know.

- Are there any unique characteristics which would make it more likely for a Ford operator to leave the selector in the intermediate position?
- Do selector systems have a propensity to move toward Reverse rather than toward Park?
- Are there any additional circumstances unique to Fords which govern the actual transmission shift into Reverse?
- Have you or your customers ever had any kind of car accidentally roll or drive away in Reverse?

In addition to the request for help, we would like to remind our shops that the automatic transmission gear selector, whether column mounted or floor-mounted, is not always a direct indication of the transmission valve body position. Misadjustment, mechanical deterioration or inaccurate selector placement can allow for discrepancies. Both transmissions shown in the photos are in reverse.

Particular caution must be taken while servicing a vehicle when: the engine must be left running, using a remote starter switch, trouble shooting, neutral start switches, etc. A vehicle can travel over 15 mph in reverse at high idle. We urge our members to take the proper precautions; make sure the transmission is completely into the gear you want, set the parking brake, turn the engine off (if possible) any time you exit, and chock the wheels.



DEFECTS INVESTIGATION CHECKLIST

- C9-10. Alleged Brake Master Cylinder Failure on 1974–76 Volkswagen Rabbit, Dasher, Sciroco and Audi Fox.
- C9-02. Alleged Structural and Fuel Tank Corrosion in 1971–74 Ford Pantera Vehicles.
- C9-01. Alleged Steering Gear Attaching Bolt Failures on 1974–77 Ford Vans and Light Trucks.
- C8-33. Alleged Stalling of 1977 Oldsmobile, Buick and Pontiac Vehicles Equipped with V-6 Engines.
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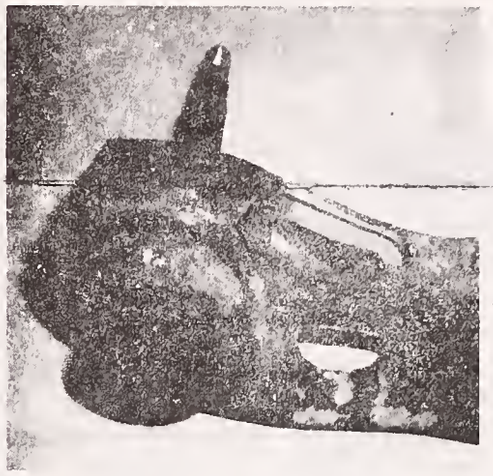
THE FORUM

Joyce Lyons of **Scientific Products** in Illinois, sent information concerning tire failures on a 1977 Chevrolet Impala Station wagon. The tires are Uniroyal HR78x15 steel belted radial white walls. A noticeable shimmy developed at road speeds. Three tires were discovered to have had tread separation and one out of round. The 3 with tread separation were replaced. One of these tires had also developed a slow leak.

Tony Valinoti of **Las Vegas Wheel Alignment and Brake Service** in Las Vegas, Nevada, submitted lower control arms from a 1977 Plymouth Fury and 1974 Dodge Royal Monaco. Both vehicles are police cruisers. The cars were brought into the shop to have a routine front-end alignment. It was then discovered that a lower control arm on each vehicle was cracked as seen in the photograph. The Fury had 29,781 miles on it and the Monaco had 65,965 miles. It is unknown what caused the control arm to break, as neither vehicle had been put to any abuse out of the ordinary. Pictured is the right lower control arm from the 1977 Fury.



Fourteen PRP shops have agreed to assist the NHTSA with a fuel hose study (see PRP News Feb/Mar 1979) over the next few months. Through the cooperation of shops, like those listed below, the mission of highway safety is advanced.

Ed's Automotive Center, Miami, FL; **Miami Auto Marine,** Miami, FL; **Wales Garage,** Ft. Lauderdale, FL; **Auto Technical Associates, Inc.,** Hollywood, FL; **Scottsdale Automotive Specialist,** Scottsdale, AZ; **Alameda Foreign Car Garage,** Las Cruces, NM; **Frank Skinner Auto Instructor,** Albuquerque, NM; **Joe's Auto Service,** Albuquerque, NM; **Nash Road Motors,** New Bedford, MA; **Bothel's Garage,** Cape Elizabeth, ME; **Paramount Auto Center,** N. Reading,MA; **Meade and Greenlee Garage,** Salem, OR; **Suburban Automotive,** Lynnwood, WA; and Jack Daniels of **European Car Service,** Arlington, VA.

Thanks and a tip of the PRP hat.

AUTOMOTIVE RUST WARRANTY CHALLENGE

Rusted out rocker panels may soon be covered under warranty if U.S. auto makers heed the challenge set forth by Transportation Secretary Brock Adams and White House Consumer Affairs Director Esther Peterson. They recently sent off letters to executive officers of 18 domestic and foreign automobile companies asking them to provide American consumers with the same rust warranty they give to Canadian consumers. Canada has recently adopted a rust protection code covering vehicles made in Canada, as well as imports.

On this side of the border, new cars usually do not carry warranty protection for corrosion of body parts and mechanical components. Canadians purchasing new vehicles will now be covered under a rust warranty of 3 years or 74,000 miles for perforations and 1 year or 24,000 miles against surface corrosion. Future years will see these warranties extended. Both Secretary Adams and Director Peterson stated that although the Canadian standard is voluntary, virtually all domestic and foreign automobile manufacturers have nonetheless included the principles of the Canadian rust code in their warranties to Canadian car owners.

- Fiat Motors of North America, Inc., has recently recalled 31,702 1970 and 1971 model 850 Spiders as reported in the Feb/Mar issue of the PRP News. NHTSA is still interested in obtaining information on other Fiat models prone to premature rust and/or corrosion. Any information, especially photographs, would be of interest. Keep a lookout and let us know.

TELEPHONE CALLS

If you need bags, tags or info report forms call collect (703) 527-4500.

THE PARTS RETURN PROGRAM NEWSLETTER

The Secretary of the U.S. Department of Transportation has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through March 31, 1982.

parts return program news

U.S. DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4 No. 11 May 1979

RECALLS, INVESTIGATIONS AND DEFECT DETERMINATIONS

The NHTSA has recently announced an investigation into VW master cylinders, an initial defect determination involving fuel tanks in Ford Mavericks and Comets and a recall campaign of Chevrolet Monzas, Pontiac Sunbirds and Oldsmobile Starfires voluntarily undertaken by General Motors for engine mount problems in certain of their 151 CID equipped vehicles.

VW MASTER CYLINDERS

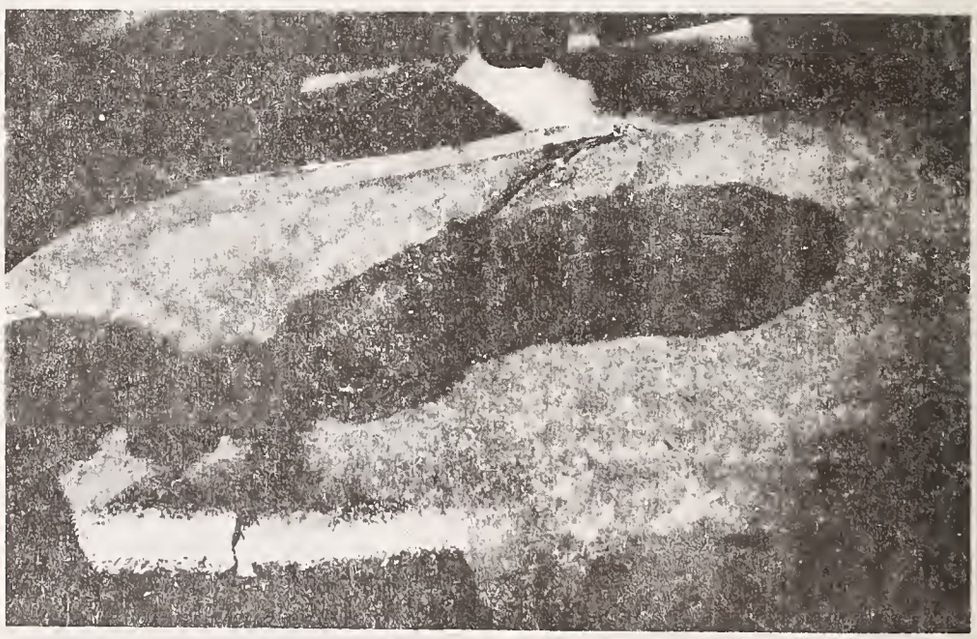
Master cylinders in 1975-76 VW Rabbits and Sciroccos and 1974-76 Audi Foxes and VW Dashers are currently being investigated by the NHTSA. The NHTSA is looking into the possibililty that a faulty seal in the master cylinders is causing a reduction in stopping ability. Thus far, the NHTSA has received 30 owner complaints, including two reported accidents and one injury. Further information on this potential problem, as discussed in the PRP *News,* November-December, 1978, would be most helpful. Please forward any problem master cylinder without first disassembling it.

FORD FUEL TANK

An initial defect determination has been announced by the NHTSA regarding fuel tanks in 1970-1973 Ford Mavericks and 1971-1973 Mercury Comets. The fuel tanks of these vehicles are, according to the NHTSA, subject to failure, rupture and dislodgement which can result in fuel leakage, fires, injuries, deaths and property damage. The NHTSA has received reports of at least 26 rear impact collisions with fuel spillage and fires, resulting in at least 31 fatalities and 19 injuries to vehicle occupants.

GM ENGINE MOUNTS

General Motors is voluntarily recalling 172,000 of its 1977 and 1978 Chevrolet Monza, Pontiac Sunbird and Oldsmobile Starfire vehicles equipped with the L-4, 151 CID engine. The design of the front suspension of these cars can allow the engine mount bracket to become deformed if the suspension bottoms out. Due to this deformation, the bracket will make contact with the steering linkage which, in time, can result in difficulty returning the steering wheel to a straight ahead position after a sharp turn is made. The NHTSA has had no reports of accidents or injuries, in connection with this problem.

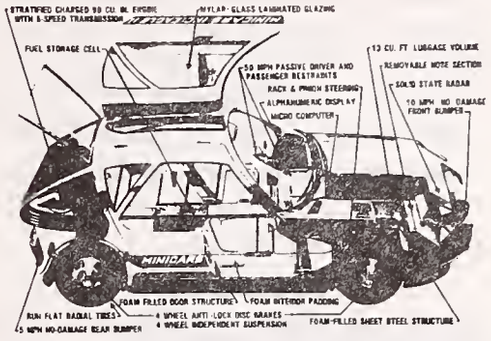


The above photo shows a 1977 Dodge B300 Van with 52,000 miles experiencing cracking of the frame. The information and photo was submitted by the **City of Phoenix** in Phoenix, Arizona. The problem started as a small crack where the steering gear box is attached by bolts and welding to the frame. As seen in the photo the crack has grown considerably. This fleet has also had several 1978 models with 12-15,000 miles experience similar cracking. Reports of a similar problem were noted in the PRP *News* of February-March, 1979.

A FUTURE FOR SAFETY

The NHTSA, with the help of Minicars, Inc., of Goleta, California, has designed a prototype research safety vehicle that will provide protection in 45 to 50 miles per hour frontal crashes without serious injury to the driver and front passenger, eliminate 75% of the serious injuries and fatalities from side impact crashes and significantly reduce the impact forces on a pedestrian. The four passenger car is also fuel efficient, has low exhaust emissions and is easy and inexpensive to repair.

Some future safety-related additions to the vehicle include an anti-skid braking system that would reduce stopping distances, an electronic display built into the dash panel that would enable the driver to monitor operating systems in the vehicle, and a radar braking system which would signal if the driver is following the vehicle in front too closely and would automatically activate the braking system if a high speed crash is unavoidable.



RUST REPORTS

Rusted out rocker panels may soon be covered under a warranty as reported in the April 1979 issue of the PRP *News*. Since that time the PRP has received numerous reports of corrosion problems in various domestic vehicles by PRP members.

Eagle Transmission in Elmira, N.Y. reported a 1973 Dodge Polara with 72,000 miles where the main front supports on both sides of the vehicle rusted out. The rust was discovered when the vehicle was on a lift during a transmission inspection.

Katon's Garage in Spearfish, SD reported that they have seen several GMC vehicles with serious or severe rust problems. The shop has seen as much as 20–30% of various vehicles rusted out including components such as door panels body, and rocker panels.

John's Body Shop in Binghamton, NY reported seven vehicles from various domestic manufacturers all experiencing severe rust problems primarily in the vehicle's undercarriage and frame.

The information, supported with photographs, clearly shows the problem. The vehicles involved were one 1971 International truck, two 1972 Mercurys, a 1968 and 1975 Chevrolet, a 1970 Duster and a 1968 Pontiac. Pictured is the rusted frame from one of the 1972 Mercury vehicles.

TELEPHONE CALLS

If you need mailbags, tags or info report forms, give us a **COLLECT CALL** (703) 527-4500.

DEFECTS INVESTIGATION CHECKLIST

- C9-11. Alleged fuel tank failure 1970-73 Ford Mavericks and 1971-73 Mercury Comets.
- C9-10. Alleged Brake Master Cylinder Failure on 1974-76 Volkswagen Rabbit, Dasher, Scirroco and Audi Fox.
- C9-02. Alleged Structural and Fuel Tank Corrosion in 1971-74 Ford Pantera Vehicles.
- C9-01. Alleged Steering Gear Attaching Bolt on 1974-77 Ford Vans and Light Trucks.
- C8-33. Alleged Stalling of 1977 Oldsmobile, Buick and Pontiac Vehicles Equipped with V-6 Engines.
- C8-29. 1973-1975 Pinto, Mustang II and Bobcat Steering Coupling Flange.
- C8-27. Alleged Fuel Leakage Problem in 1975 and 1976 V-8 equipped Ford Granadas and Mercury Monarchs.
- C8-20. Alleged Malfunction of Power Steering Control Valve in 1975-1977 Ford Granadas and Mercury Monarchs.

THE PARTS RETURN PROGRAM NEWSLETTER

The Secretary of the U.S. Department of Transportation has determined that the publication of this periodical is necessary in the transaction of the public buiness required by law of this department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through March 31, 1982.

THE FORUM

The State of Wisconsin's Department of Transportation reports a broken hose from a 1977 Plymouth Volare with approximately 58,000 miles. The fleet states that the outer rubber protective covering broke at the metal fitting, causing leaking and loss of front brakes on the vehicle.

In response to articles in the February-March 1979 and November-December 1978 issues of the PRP *News*, **Auto Brake Corp.**, in Norfolk, Va. reports similar occurrences of AMC electronic ignition problems. A dieseling engine (with the ignition off) could cause gases to enter the distributor and blow the cap off making restarting of the vehicle impossible. The shop also stated that an excessively rich mixture could cause backfiring.

Gil's Safety Service in Ridgewood, N.J. has seen many Volares and Aspens with brake problems similar to those described in the January 1979 issue of the PRP *News*. Gil's reports a 1977 Dodge Aspen with approximately 24,000 miles in which the brake piston froze in the caliper.

Also reported by Gil's were breakages of the pivot bar support plates in 1976-1978 Volares and Aspens. According to the shop, the pivot bar supports plates could break due to fatigue or failure when exposed to heavy stress. Chrysler recalled over one million 1976-78 Volares and Aspens in 1978 to correct this problem. If you are aware of similar breakage of pivot bar support plates in these vehicles, please try to determine if the owner received a recall notice, and whether the owner took the car in for correction and forward all information to the PRP.

As shown in the picture, the **Village of West Milwaukee,** Wis. reports a mis-aligned exhaust system tailpipe on a 1977 Plymouth Fury Coupe with 36,712 miles. The alignment allowed gases to accumulate on the inside of the rear bumper. Reportedly, the resulting heat was intense enough to melt the plastic back-up lamp lens and cage. In addition, Lt. Springer of West Milwaukee reports that the gasoline tank filler pipe is less than 12 inches from the melted lens, creating a potential fire hazard.

Ed Coffer of **ATS** in San Diego, has reported problems with the automatic transmission selector levers in late model Jaguars. The shop has seen several Jaguar XJ6's, model years 1974-78, equipped with Borg-Warner transmissions that have experienced the gear selector lever moving from park to reverse while the engine is running. Apparently the problem is with the selector lever that is mounted on the transmission housing. Through use, this lever enlongates and becomes loose. Allegedly, this looseness can allow the transmission to shift, by itself, from park to reverse.

V & H Ford, Inc., of Marshfield, Wis., submitted information to the PRP concerning a new style wheel used on 1978-1979 Ford 9000 trucks. This new style wheel, part number D7HZ1109C, replaces the old style part number C97ZH09K and according to this dealership is lighter and less durable. These wheels are used primarily on trucks for off road use and allegedly can't withstand the stress as they are reportedly breaking at the flange.

The State of Georgia, Georgia State Motor Pool, submitted information on a 1978 Nova with 78,000 miles. The Nova is equipped with a 250 cu. in. 6 cylinder engine and power brakes. The vacuum line from the intake manifold to the power booster became clogged with carbon causing a loss of power assist to the brakes. The fleet has also seen similar problems in 2 or 3 other vehicles.

Congratulations to **Midway Chevrolet,** St. Paul, Minn., and **Carol Buick,** Evanston, Ill., on receiving the Time Magazine Quality Dealer Awards for 1979. Both PRP members were honored for exceptional performance in their dealerships combined with distinguished community service. A tip of the PRP hat to Midway Chevrolet and Carol Buick.

Thanks to **Scotty's Auto Repair,** King of Prussia, Pa. and **Anderson & Buckner,** Arlington, Va. for assisting an NHTSA safety defects engineer in his inspection of Volkswagen accelerator cables.

parts return program news

U S DEPARTMENT OF TRANSPORTATION • NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Vol. 4 No. 12 June 1979

DEFECT INVESTIGATION INTO UNIROYAL STEEL RADIAL TIRES

The U.S. Department of Transportation has announced a safety-related defect investigation involving some Uniroyal steel-belted radial tires. The tires under investigation are the larger sized tires in the PR6 line including HR78 and larger, those with JR and LR size designations, which are normally used on full size cars and station wagons, and all sizes in the PR5 line made in 1975 and 1976. Although the National Highway Traffic Safety Administration believes the problem is more prevalent in the larger sized tires in the PR6 line, it is also looking into failures in the smaller sized PR6 tires. Most of these tires were original equipment on new General Motors vehicles, while a smaller number were installed on new Ford vehicles. They were also sold as replacement tires.

The NHTSA is aware of at least 30 accidents involving 10 injuries that are allegedly the result of failures in the tires. Also, Uniroyal reports receiving 538 complaints in 1978 alleging blowouts or other potentially hazardous failures on PR5 and PR6 tires manufactured since 1975.

The PRP has received several reports concerning problems with the larger sized Uniroyal steel-belted radial tires from **Scientific Products** in McGaw Park, Illinois. In a related incident, the State of Georgia reported failures involving Goodyear Polysteel radials which had developed tread separation and bulges in the sidewalls.

If you have any information on the Uniroyal tires involved in this investigation, or have seen problems with other steel-belted radial tires, contact the PRP.

MILLIONS STILL DRIVING DEFECTIVE FIRESTONE TIRES

According to the NHTSA millions of motorists are still driving on the defective Firestone 500 steel belted radial (SBR) tires that are involved in the massive recall that began last November. Only about fifteen percent of the tires have been replaced through March 31, 1979.

Firestone has exchanged only 1.6 million out of a potential 8.7 million tires which qualify for free replacement. They have replaced an estimated 500,000 tires out of a potential 5.3 million tires eligible to be exchanged at half price, which were sold prior to September 1, 1975.

The major purpose of the recall is to get the defective tires off the road. NHTSA has urged Firestone to step up the pace of its notification efforts.

Essentially the recall covers all 7 rib 500 SBR tires sold after September 1, 1975 and manufactured prior to Jan 1, 1977. Included are tires of similar construction made by Firestone for sale under other brand names.

"TEMPORARY USE" SPARE TIRE WARNING

The NHTSA has received reports that some motorists are replacing the T-type spare tire with a convential, full sized tire, while still using the special, narrow, T-type rim designed only for use with the smaller spare tire. This can be an extremely dangerous practice, since such a mismatch between tire and rim can result in separation of the tire from the rim and possible loss of vehicle control. The T-type tire and its specially designed rim are narrower than other tires and rims supplied on the vehicle.

The T-type tire should be used only until the conventional tire can be repaired or replaced, should not be driven at high speeds, nor should it be rotated with the other tires on the vehicle, If the T-type tire must be replaced, it should be replaced only with a tire designed to be used with the special rim. Full-sized tires must not be mounted on the special rim and vice versa. Please remind your customers of the correct procedure for using these tires.

FEDERAL MOTOR VEHICLE SAFETY STANDARDS

Since the aim of the PRP is to promote highway safety, we feel that member shops should be aware of the federal motor vehicle safety standards that exist. In September 1966, the National Traffic and Motor Safety Act was signed into law directing the Secretary of Transportation to issue Federal Motor Vehicle Safety Standards (FMVSS) to which manufacturers of motor vehicles sold in the United States must conform. In this and subsequent issues a brief description of each standard will be presented.

- **FMVSS 101**—Control Location, Identification and Illumination—Requires that essential controls on passenger cars, multipurpose passenger vehicles, trucks and buses be within reach of the driver restrained by a lap belt and upper torso restraint, and that certain controls be identified and illuminated on the instrument panel.

- **FMVSS 102**—Transmission Shift Lever Sequence, Starter Interlock, and Transmission Braking Effect—Requires that transmission shift lever sequences on passenger cars, multipurpose passenger vehicles, trucks and buses have the neutral position placed between forward and reverse positions. Requires an interlock to prevent starting the vehicle in reverse and forward drive positions. An engine-braking effect in one of the lower gears at vehicle speeds below 25 miles per hour is also required by the standard.

- **FMVSS 103**—Windshield Defrosting and Defogging Systems—Requires that passenger cars, multipurpose passenger vehicles, trucks and buses be equipped with windshield defrosters and defogging systems.

- **FMVSS 104**—Windshield Wiping and Washing Systems—Specifies the passenger car windshield area to be wiped and requires washers and high performance, two or more speed power-driven wiping systems for passenger cars, multipurpose passenger vehicles, trucks and buses.

- **FMVSS 105**—Hydraulic Brakes—Requires passenger cars and school buses utilizing hydraulic brakes to have a split brake system incorporating service and emergency features that are capable of stopping the vehicle under certain specified conditions, a parking brake system capable of holding light vehicles on a 30 percent grade and heavy vehicles on a 20 percent grade, and a warning light system to indicate loss of pressure, antilock system failure and parking brake application.

- **FMVSS 106**—Brake Hoses—Establishes requirements for hydraulic, air and vacuum brake hoses, brake hose assemblies, and brake hose fittings for trucks, buses, trailers, motorcycles and equipment.

- **FMVSS 107**—Reflecting Surfaces—Requires that passenger cars, multipurpose passenger vehicles, trucks and buses come equipped with matte-surfaced windshield wiper arms, inside windshield moldings, horn rings, and frames and brackets of inside rearview mirrors.

- **FMVSS 108**—Lamps, Reflective Devices, and Associated Equipment—Specifies requirements for lamps, reflective devices, and associated equipment for signaling and safe operation in darkness and other conditions of reduced visibility for passenger cars, multipurpose passenger vehicles, trucks, trailers, buses and motorcycles. Included in the requirements are side marker lights and reflectors, hazard warning and backup lights and replacement equipment.

- **FMVSS 109**—New Pneumatic Tires—For passenger cars, specifies tire dimensions and laboratory test requirements for bead unseating resistance; strength, endurance, and high-speed performance; defines tire load rating; and specifies labeling requirements.

GASOLINE TRANSPORTATION HAZARDS

At a time when the fuel crisis is mounting, the U.S. Department of Transportation has issued a warning to motorists on the hazards of transporting gasoline in containers in the trunk of a car. According to NHTSA Administrator Joan Claybrook, "people are traveling with lethal liquid bombs in the trunks of their cars . . . Even a minor rear-end collision or a spark from a short in a tail light or brake light could set off an inferno resulting in injury or death."

One gallon of gasoline has the explosive power of fourteen sticks of dynamite, and motorists are strongly urged to avoid carrying or storing fuel in portable containers in their cars. Fuel should only be transported in extreme emergencies. In such instances, the container should be durable, securely closed, but vented, and protected against accidental spillage or damage.

PRP members are asked to remind motorists of this potential safety hazard.

THE FORUM

Joyce Lyons of **Scientific Products**, McGaw Park, Illinois has reported a 1978 Oldsmobile Cutlass Supreme in its fleet with worn rear brake lines. The worn lines were discovered during replacement of the snow tires. The brake lines were showing signs of wear apparently due to rubbing on the car's frame. The problem was discovered before the lines were worn to the point where they could leak brake fluid and cause a loss of braking. Also, the base plate of the original equipment jack broke when it was being used to change the tires on the same vehicle. The car had 35,000 miles.

V & H Ford of Marshfield, Wisconsin submitted to the PRP two electronic ignition amplifiers. The amplifiers were from a 1979 Lincoln with 308 miles and a 1978 Mercury with 16,000 miles. In both of these vehicles the engine would die out without any warning. The dealership also noted that the occurrence is more prevalent in warmer weather, however it could happen at any time.

Julian Green of the **State of Georgia,** Atlanta, Georgia reports two 1977 Plymouth Volares in its fleet which needed the front brake lines replaced. The brake lines are routed directly under the battery making them susceptible to corrosion from leaking battery acid. Chrysler has recalled many of these vehicles to install a protection shield over the brake lines to guard them against the corrosive action of the battery acid.

Gotham Auto Lease of New Rochelle, New York also submitted three ignition amplifiers. These were all from 1977 Lincoln Continentals with mileages ranging from 15,000 to 20,000. Each car experienced sudden stalling. Only one was able to be restarted. The Fleet has not noticed an increase in the problem in the warmer weather.

Wales Garage of Ft. Lauderdale, Florida called the PRP to report a broken right motor mount on a 1977 Volvo 242 with 30,000 miles. The mount which appears to be aluminum, cracked into two pieces and could not hold the engine in place properly. Misalignment of the engine/transmission reportedly cause difficult shifting. The shop also reported a difficulty in obtaining the replacement part. Being unable to find the part in stock at any parts supplier, it had to be ordered from Volvo taking approximately five weeks for delivery. The same problem has been seen on other vehicles. Let the PRP know if you run across any broken Volvo engine mounts.

Paul Lovely of **Paul's Garage** in Dayton, Ohio submitted to the PRP a broken camshaft gear from a 1974 Ford Mustang II with a V-6 engine and 28,000 miles. The problem is similar to that reported in the February-March 1979 PRP News. The plastic teeth bonded to the metal body of the gear broke free. The broken camshaft gear stopped operation of the engine. The car had to be towed to the service garage for replacement of the gear.

Tony Valinoti of **Las Vegas Wheel Alignment and Brake Service** submitted to the PRP a pair of McPherson Strut cartridges from the front suspension of a 1975 VW Super Beetle Convertible with 16,662 miles. Both cartridges would not collapse causing a very stiff ride and could reportedly result in handling difficulties and excessive strain on front suspension components.

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OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED JULY 78
1 JULY 78 TO 31 JULY 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	YR	COMPONENT NAME MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
	P94920	A	780728	01230000		UNKNOWN TYPE STEERING,GEAR BOX		79	C	000000	085202099
					00	000400 GENERAL MOTORS CO	0000 GENERAL MOTORS CO				
						VARIOUS GM MODELS AND YEARS.MINOR ACCIDENT CAUSES SHAFT TO TWIST- CONTROL PROBLEM.					
	P94922	A	780701	01232000		UNKNOWN TYPE STEERING,SHAFT-SECTOR		79	A	050000	057754008
					70	160601 TOYOTA DIVISION	0000 TOYOTA DIVISION				
						STEERING SHAFT BROKE WHILE DRIVING 5 MPH IN PARKING LOT.					
50027	P04885	A	780718	01300000		STEERING POWER ASSIST		15	C	036997	022601028
					76	000301 FORD DIVISION	0900 GRANADA				
						P.S.CONTROL VALVE CORRODED AND FAILED.					
	P84900	A	780701	01330000		STEERING POWER ASSIST-HOSE,FLUID		03	C	021876	097405009
					75	000303 MERCURY	0600 MONARCH				
						HOSE MISROUTED BY MANUFACTURER(LAYING AGAINST EXHAUST MANIFOLD)RESULT- ING IN BREAK IN HOSE AND LOSS OF POWER ASSIST STEERING AND BRAKES.					
50038	P04775	A	780706	01400000		STEERING GEAR,RACK AND PINION		28	C	082960	076015012
					74	000402 CADILLAC	0101 CADILLAC DE VILLE				
						RACK&PINION END PLUG SHATTERED,POWER ASSIST FAILED COMPLETELY.					
	P84896	A	780720	01400000		STEERING GEAR,RACK AND PINION		37	C	015000	067501011
					00	150301 FIAT DIVISION	0400 128				
						RATTLING NOISE & SEVERE SHIMMY CAUSED BY IMPROPERLY ANCHORED RACK AND PINION SUPPORT BUSHING.					
50038	P04777	A	780706	01530000		STEERING LINKAGES-ARM,IDLER AND ATTACHMENT		55	C	018271	023513001
					77	000403 CHEVROLET	0100 CAMARO				
						IDLER ARM FROZEN.					
	P94914	A	780701	01560000		STEERING LINKAGES-TIE ROD,END		57	C	013000	033316118
					78	000402 CADILLAC	0400 SEVILLE				
						WEAR ON TIE ROD ENDS DUE TO LACK OF LUBE.LOOSE STEERING.VEHICLE IN MOTION.					
	P94926	A	780701	01560000		STEERING LINKAGES-TIE ROD,END		57	C	013000	033316118
					78	000404 OLDSMOBILE	0000 OLDSMOBILE				
						WEAR ON TIE ROD ENDS DUE TO LACK OF LUBE.LOOSE STEERING.VEHICLE IN MOTION.					

OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED JULY 78
1 JULY 78 TO 31 JULY 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	COMPONENT NAME YR MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
	P94915	A	780720	02140000	SUSPN,INDP,FT, CONTROL ARM,UPPER 77 000202 DODGE	0800 ASPEN	44	C	000000	022150182
					STEEL OF UPPER CONTROL ARM FLEXES,POSSIBLE BREAKAGE & LOSS OF CONTROL.					
	P94925	A	780629	02170000	SUSPN,INDP,FT, -BEARING WHEEL 74 000403 CHEVROLET	0800 MONTE CARLO	05	C	061000	030301098
					IMPROPER MAINTENANCE BY BRAKE SHOP LED TO BEARING FREEZING ON SPINDLE.					
	P94921	A	780728	02600000	WHEELS 73 000401 BUICK	0101 WILDCAT	32	C	043000	085202099
					TWO PIECE WHEEL WAS SPOT-WELDED;LEAKS WERE OCCURING THROUGH WELD.					
	P84888	B	780707	02600000	WHEELS 76 000403 CHEVROLET	1100 MONZA	08	C	035610	094110116
					WHEEL CENTER BROKE OUT DUE TO EXCESSIVE WEIGHT OF V-8 ENGINE.					
	P84906	A	780615	02625000	WHEELS SNGL-LUGS-NUTS-BOLTS 00 000305 FORD TRUCK DIV	5101 F100	03	C	000000	P55408106
					FOUR OF FIVE WHEEL STUDS BROKE OFF MR,GASKET ADAPTER.					
00001	P05084	A	780721	02700000	TIRES 00 000400 GENERAL MOTORS CO	0000 GENERAL MOTORS CO	44	C	000000	098110026
					BROKEN BELTS IN TIRE.					
00001	P05083	A	780721	02700000	TIRES 00 000400 GENERAL MOTORS CO	0000 GENERAL MOTORS CO	44	C	000000	098110026
					BROKEN BELTS IN TIRE.					
	P84903	A	780701	02700000	TIRES 76 000401 BUICK	0305 CENTURY REGAL	63	C	021600	012601066
					BLOW OUT OF ORIGINAL EQUIPMENT TIRE. THIRD OCCURANCE ON CAR.					
	P05082	A	780721	02700000	TIRES 73 000404 OLDSMOBILE	0100 CUTLASS	44	C	009804	098110026
					BROKEN-SEPERATED BELTS.					

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BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	YR	COMPONENT NAME MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
	P85081	A	780706	02700000		TIRES		44	C	010000	098110026
					63	000407 CHEVROLET TRUCK DV	5000 CHEV TRK AND VAN				
						BROKEN BELTS - FAILURE NOTICED BY OWNER AT 10,000 MILES.UNION OIL CO.ADJUSTED AT 19,939 MILES.					
	P94909	A	780701	03224000		BRKS,HYDRAULIC-PWR ASSIST-BOOSTER		03	C	000000	000000000
					00	000302 LINCOLN	0200 MARK IV				
						METALLURGICAL DEFECT,HYDRO BOOSTER EXPLODES - LOSS OF STEERING & POWER BRAKES,PARTIAL LOSS OF CONTROL,77-78 LOW MILEAGE MODELS.					
50038	P04772	A	780710	03230000		BRKS,HYDRAULIC-MSTR CYL		44	C	010660	017109006
					77	000203 PLYMOUTH	0700 VOLARE				
						MASTER CYLINDER CONTROL VALVE FAILURE, WOULD NOT BUILD UP PRESSURE AND HOLD IT.					
50027	P04884	A	780725	03230000		BRKS,HYDRAULIC-MSTR CYL		19	C	015665	095207019
					77	000404 OLDSMOBILE	0600 98				
						MASTER CYLINDER BY-PASSED FLUID.					
	P84907	A	780627	03230000		BRKS,HYDRAULIC-MSTR CYL		44	C	023275	000000000
					75	140501 VOLKSWAGEN DIVISN	0303 DASHER 324				
						MASTER CYLINDER FAILED AFTER RED BRAKE LIGHT WAS ON FOR SEVERAL DAYS.					
	P84908	A	780627	03230000		BRKS,HYDRAULIC-MSTR CYL		28	A	033915	000000000
					74	140502 AUDI DIVISION	0102 AUDI FOX				
						LOST ALL BRAKES SUDDENLY WITH NO PREVIOUS WARNING,MASTER CYL.REPLACED.					
	P04789	A	780725	03233000		BRKS,HYDRAULIC-MSTR CYL,PISTONS-CUPS-SPRNG		32	C	020676	P24501178
					75	160401 DATSUN DIVISION	0300 DATSUN B-210				
						CUP RUPTURED,WOULD NOT BUILD PRESSURE.					
	P94918	A	780701	03242000		BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		03	C	000000	018018143
					77	000204 DODGE TRUCK DIV	5303 B200				
						LEFT FRONT BRAKE HOSE TOO SHORT-STRETCHES AND BREAKS WHEN TURNING.					
50031	P04880	A	780725	03242000		BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		57	C	014000	055802006
					78	000301 FORD DIVISION	0000 FORD DIVISION				
						BRAKE HOSE MISALIGNED CAUSING EXCESSIVE WEAR UNTIL HOSE FAILED.					

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BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	YR	COMPONENT NAME MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
20004	P02787	A	770627	03242000		BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		28	B	011146	044905004
					76	000405 PONTIAC	0200 GRAND PRIX				
						HOSE HAS CRACKS IN OUTER LAYER. SHOP CLAIMS HOSE IS PLUGGED, L/F BRAKE INOPERATIVE					
50027	P04883	A	780725	03242000		BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		32	C	023874	000000000
					76	000407 CHEVROLET TRUCK DV	5700 PICK UP MODELS				
						HOSE RUPTURED AT METAL COUPLING.					
	P84901	A	780701	03261000		BRKS,HYDR-SHOE AND DRUM WHEEL CYLINDERS		21	C	000000	085202099
					71	000301 FORD DIVISION	0400 MAVERICK				
						FRONT WHEEL CYLS LOOSE FROM BACKING PLATE.					
	P94913	A	780711	03270000		BRKS,HYDR-SHOE-DISC BRAKE SYSTEM		57	C	011000	060610095
					77	000403 CHEVROLET	0402 NOVA				
						PADS WORE OUT CAUSING DAMAGE TO ROTOR.					
	P84902	A	780720	03271000		BRKS HYDRAULIC-DISC-CALIPER		28	C	004000	022150182
					77	000204 DODGE TRUCK DIV	5000 DODGE TRK AND VAN				
						CALIPER PISTON FROZE,CALIPER(METAL) EXPANDED,FRONT BRAKES LOCKED.					
50027	P04881	B	780725	03272000		BRKS HYDRAULIC-DISC-PADS AND SHOES		05	C	001100	060610095
					77	000403 CHEVROLET	0302 CAPRICE CLS LANDAU				
						REPLACED PADS AND TURNED ROTORS AT 1100 MILES,PADS SHOW EVEN WEAR, POSSIBLE PROBLEM WITH CALIPERS.					
50027	P04881	A	780725	03272000		BRKS HYDRAULIC-DISC-PADS AND SHOES		05	C	001100	060610095
					77	000403 CHEVROLET	0302 CAPRICE CLS LANDAU				
						REPLACED PADS AND TURNED ROTORS AT 1100 MILES,PADS SHOW EVEN WEAR, POSSIBLE PROBLEM WITH CALIPERS.					
	P94913	B	780711	03273000		BRKS HYDRAULIC-DISC-ROTOR-DISC HUB		57	C	011000	060610095
					77	000403 CHEVROLET	0402 NOVA				
						PADS WORE OUT CAUSING DAMAGE TO ROTOR.					
50038	P04776	A	780706	03930600		BRAKE CALIPER		57	C	000000	023222023
					73	000201 CHRYSLER DIV	0000 CHRYSLER DIV				
						ONE CALIPER MOUNTING BOLT WORN ALLOWING CALIPER TO MOVE AND FAIL. BRAKES LOCKED UP.					

OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED JULY 78
1 JULY 78 TO 31 JULY 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	COMPONENT NAME / YR MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
50027	P04887	A	780725	05150000	ENGINE-OTHER PARTS 70 000303 MERCURY	0101 CAPRI 2000	03	C	020000	060610095
					CRANKSHAFT BROKEN.SHOW EVIDENCE OF CRACK PRIOR TO BREAK.					
50031	P04781	A	780725	05150030	ENGINE VALVES, VALVE TRAIN 71 000101 AMERICAN MOTORS DV	0100 AMBASSADOR	08	C	000000	053140005
					PUSH ROD APPEARS TO HAVE BEEN WITHOUT OIL AND WORE THROUGH ROCKER ARM.					
50031	P04782	A	780725	05150030	ENGINE VALVES, VALVE TRAIN 70 000407 CHEVROLET TRUCK DV	5200 EL CAMINO	08	C	068735	053140005
					PUSH ROD WITHOUT OIL - WORE THROUGH ROCKER ARM.					
	P84898	A	780705	05151000	ENGINE - TIMING GEAR & CHAIN 77 000203 PLYMOUTH	0802 ARROW 200	44	C	011000	094103186
					SECOND TIME TIMING CHAIN REPLACED,LOOSE HITS AGAINST CHAIN COVER.					
50031	P04788	C	780725	05151000	ENGINE - TIMING GEAR & CHAIN 71 000404 OLDSMOBILE	0100 CUTLASS	34	C	067452	023513001
					VEHICLE JUMPED TIME, CAM GEAR BADLY WORN. TIMING CHAIN.					
50031	P04788	B	780725	05151000	ENGINE - TIMING GEAR & CHAIN 71 000404 OLDSMOBILE	0100 CUTLASS	34	C	067452	023513001
					VEHICLE JUMPED TIME, CAM GEAR BADLY WORN. CAM GEAR.					
50031	P04788	A	780725	05151000	ENGINE - TIMING GEAR & CHAIN 71 000404 OLDSMOBILE	0100 CUTLASS	34	C	067452	023513001
					VEHICLE JUMPED TIME,CAM GEAR BADLY WORN. CRANKSHAFT GEAR.					
	P84897	A	780720	05240000	ENGINE COOLING SYSTEM-FAN 74 000203 PLYMOUTH	0601 VALIANT DUSTER	21	C	064340	019405084
					FLEX-FAN BLADE BROKE PUNCTURING RADIATOR - SECOND FAILURE.					
50027	P04886	A	780713	05240000	ENGINE COOLING SYSTEM-FAN 73 000303 MERCURY	0500 MONTEGO	03	C	067305	023513001
					FAN BLADE BROKE,PROBABLE CAUSE - METAL FATIGUE.					

OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED JULY 78
1 JULY 78 TO 31 JULY 78 SORTED BY COMPONENT,MODEL,MDL YR

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	P94912	A	780720	05240000		ENGINE COOLING SYSTEM-FAN		74	C	035000	000000000
					71	130401 RENAULT DIVISION	0500 RENAULT 16				
						ELECTRIC FAN MOTOR OR RADIATOR IS NOT ON A FUSED ELECTRICAL LINE,WHEN MOTOR SHORTS OUT THE WIRES LEADING TO FUSE BOX CATCH FIRE.					
	P94924	A	780701	06100000		FUEL SYSTEMS		28	C	000000	084111015
					73	160401 DATSUN DIVISION	0102 DATSUN 240Z				
						CAR DIES AFTER 10-15 MILES-VAPOR LOCK OCCURS IN WARMER WEATHER.					
	P84892	A	780701	06110000		FUEL TANK ASSEMBLY		49	C	033000	094110116
					76	000203 PLYMOUTH	0800 ARROW				
						CONDENSATION CAUSING RUST IN GAS TANK.					
50031	P04787	A	780725	06112000		FUEL TANK ASSEMBLY-PIPE,FILLER-NECK		32	C	035398	067501001
					73	150301 FIAT DIVISION	0401 128SL COUPE				
						GAS FILLER HOSE CRACKED AND SPLIT ALLOWING GAS TO LEAK CAUSING A FIRE HAZARD.					
	P84895	A	780707	06113000		FUEL TANK ASSEMBLY-TANK		32	C	056334	094110116
					74	000101 AMERICAN MOTORS DV	0600 JAVELIN				
						TANK LEAKED IN AREA OF SMALL DENT.					
	P94919	A	780701	06136000		FUEL PUMP		77	C	014000	018018143
					78	000202 DODGE	0300 COLT				
						DIAPHRAM LEAKED SPILLING OUT OIL & GAS MIXTURE IN VICINITY OF DISTRIB-UTOR,ENGINE STALLED.					
50027	P04882	A	780725	06213000		CARBURETOR,UNKOWN TYPE-OTHER PART		26	C	038807	097005004
					74	000301 FORD DIVISION	0600 PINTO				
						FLOAT SOAKED WITH GAS,CAUSED CARBURETOR TO FAIL.					
50038	P04773	A	780706	06500000		EXHAUST/CRANKCASE EMISSION CONTROL DEVICES		05	C	036250	033316118
					75	000301 FORD DIVISION	0700 THUNDERBIRD				
						EXCESSIVE HEAT FROM EXHAUST BURNT OUT CARBURATION BASE PLATE.					
50038	P04774	A	780706	06500000		EXHAUST/CRANKCASE EMISSION CONTROL DEVICES		05	C	076280	084111015
					73	000303 MERCURY	0407 MERCURY-MARQUIS				
						EGR SECTION OF CARBURETOR BASE PLATE BURNT OUT,PROBABLE CAUSE - OVER - HEATING FROM CATYLITIC CONVERTOR.					

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50038	P04771	A	780713	06620000	EXHAUST SYSTEM-PIPE,EXHAUST 76 000405 PONTIAC	0000 PONTIAC	28	C	038000	036108002
					EXHAUST PIPE LINING COLLAPSED.					
	P84891	A	780701	06651000	CONVERTER 76 000203 PLYMOUTH	0800 ARROW	44	C	030000	094110116
					CATALYTIC CONVERTER BAD AT 30,000 MILES.TOOK OFF - CAR RAN FINE.					
	P94911	A	780720	07120000	POWER TRAIN CLUTCH ASM-LINKAGE,FLEXIBLE 00 000301 FORD DIVISION	0600 PINTO	21	C	000000	045324016
					CABLE CONNECTOR RIPS OUT OF FIREWALL.					
	P84894	A	780718	07140000	POWER TRAIN CLUTCH ASM-CROSSHAFT,PIVOT 71 170101 VOLVO DIVISION	0300 145	63	C	063324	067501001
					PIVOT ARM BROKE DUE TO INADEQUATE STRENGTH.SHOP HAS SEEN 2 OR 3 OTHERS WITH SAME PROBLEM					
	P84904	A	780622	07320000	PWR TRN TRNS,AUTO,-LVR & LNKG,COL.SHIFT 78 000305 FORD TRUCK DIV	5111 F250	31	C	000000	F55343118
					GEAR SELECTOR LEVER DROPPED FROM MID-POINT BETWEEN PARK AND REVERSE TO REVERSE-TRUCK BACKED UP AND HIT A PARKED CAR.					
	P84899	A	780720	07450000	PWR TRN DRIVELINE-DIFFENTIAL UNIT 73 000401 BUICK	0300 CENTURY	32	C	050485	083651037
					REPLACED THREE DIFFERENTIAL SEALS.INSTALLED HOUSING VENT IN DIFFEREN-TIAL.					
	P94910	A	780627	07464000	PWR TRN AXLE ASSEMBLY-SEAL,AXLE SHAFT 77 000405 PONTIAC	0200 GRAND PRIX	32	C	000000	045324016
					SEAL NOT PROPER SIZE - AXLE LARGER THAN SEAL. LEAKAGE.					
	P84905	A	780403	08100000	ELECTRICAL SYSTEM BATTERY 00 000000 UNKNOWN	0000 UNKNOWN	28	C	000000	P06605117
					DEFECTIVE BATTERIES - UNABLE TO RETURN TO DOUGLAS BATTERY MFG. CO. FOR CREDIT.					
50031	P04779	A	780725	08500000	ELECTRICAL SYSTEM-IGNITION 76 000101 AMERICAN MOTORS DV	0500 HORNET	28	C	022121	053140005
					VACUUM ADVANCE FAILED.					

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PARTS RECEIVED JULY 78
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50031	P04780	A	780725	08500000	ELECTRICAL SYSTEM-IGNITION 76 000101 AMERICAN MOTORS DV	0700 MATADOR	28	C	018129	053140005
					VACUUM ADVANCE FAILED.					
50038	P04778	A	780706	08540000	ELEC.SYS.IGNITION-ELECTRONIC CONTROL UNIT 77 000404 OLDSMOBILE	0800 OMEGA	77	C	013066	023513001
					ELECTRONIC MODULE FAILURE. CAR CUT OFF WHILE DRIVING AND WOULD NOT RESTART.					
50038	P04770	A	780713	08550000	ELEC.SYS.IGNITION-OTHER PART 75 000404 OLDSMOBILE	0600 98	28	C	039000	036108002
					DEFECTIVE ROTOR-NOT SPECIFIC.					
50031	P04784	A	780725	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 73 000301 FORD DIVISION	0500 MUSTANG	28	C	047914	099206096
					INTERNAL SHORT, NO TURN SIGNAL.					
50031	P04783	A	780725	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 72 000303 MERCURY	0300 COUGAR	28	C	067881	099206096
					PUSH ROD WITHOUT OIL - WORE THROUGH ROCKER ARM.					
50031	P04785	A	780725	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 70 000303 MERCURY	0400 MERCURY-COLONY PRK	28	C	086479	099206096
					INTERNAL SHORT.					
50031	P04786	A	780725	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 69 000305 FORD TRUCK DIV	5111 F250	28	C	087071	099206096
					INTERNAL SHORT.NO RIGHT HAND TURN OR BRAKE LIGHT.					
	P94917	A	780727	12430000	INSTR PANEL SPEEDOMETER-ODOMETER 75 000407 CHEVROLET TRUCK DV	5700 PICK UP MODELS	28	C	000000	057754008
					CABLE MISROUTED TOO CLOSE TO EXHAUST,BURNS CABLE.SPEEDOMETER MALFUNCTIONED 3 TIMES.					
	P94916	A	780726	13100000	STRUCTURE-FRAME,MEMBERS & BODY 75 000407 CHEVROLET TRUCK DV	5700 PICK UP MODELS	49	C	000000	057754008
					RUST AND CORROSION.POOR PREPARATION.PAINT AND METAL FLAKING INSIDE BODY PANELS.					

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BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	COMPONENT NAME / MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
	P84888	A	780707	13110000	STRUCTURE-FRAME & MEMBERS(GIVE SIDE/END)		03	C	035610	094110116
					76 000403 CHEVROLET	1100 MONZA				
					FRAME CRACKED DUE TO HEAVY V-8 ENGINE IN VEGA FRAME.					
	P84893	A	780708	13710000	HOOD ASSEMBLY-FRAME & PANEL		21	C	040765	038829023
					74 160401 DATSUN DIVISION	0300 DATSUN B-210				
					HOOD PANEL SEPERATED FROM BRACES-VIBRATION CAUSED METAL FATIGUE					
					HOOD LATCH FAILURE.					
	P84890	A	780717	13730000	HOOD ASSEMBLY-LATCHES		72	C	000000	085202099
					00 000200 CHRYSLER MOTOR CO	0000 CHRYSLER MOTOR CO				
					HOOD LATCH HANGS FROM HOOD CAUSING SAFETY HAZARD TO MECHANICS WORKING					
					UNDER HOOD.					
	P84889	A	780717	13730000	HOOD ASSEMBLY-LATCHES		72	C	000000	085202099
					00 000400 GENERAL MOTORS CO	0000 GENERAL MOTORS CO				
					HOOD LATCH HANGS FROM HOOD CAUSING SAFETY HAZARD TO MECHANICS WORKING					
					UNDER HOOD.					
	P94923	A	780701	15300000	EQUIPMENT-SPEED CONTROL		14	C	000000	085021027
					73 000407 CHEVROLET TRUCK DV	5700 PICK UP MODELS				
					T-BOLT IN ASSEMBLY TURNED DOWN AND CAUGHT IN THROTTLE LINKAGE.					
					ENGINE RACED UNTIL TURNED OFF AT KEY.					

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RECORD COUNT = 77 - END OF REPORT

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PARTS RECEIVED BY 78
1 AUGUST 78 TO 31 AUGUST 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	YR	COMPONENT NAME MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
50030	P05598	A	780909	01160000		STEERING COLUMN COUPLING		57	C	059278	055805004
					74	000301 FORD DIVISION	1500 MUSTANG II				
						COUPLING CAME LOOSE CAUSING EXCESSIVE WEAR.					
50030	P05583	A	780809	01200000		STEERING GEAR BOX		03	C	000000	089104010
					69	000407 CHEVROLET TRUCK DV	5401 G10				
						ONE BOLT HAS APPEARANCE OF EARLIER FRACTURE WEAKENING BOLT WHICH BROKE CAUSING STEERING GEAR BOX TO BECOME LOOSE.				
	P95611	A	780815	01310000		STEERING POWER ASSIST-PUMP		21	C	028000	F32301116
					77	000301 FORD DIVISION	0300 LTD				
						CAR WAS SITTING STILL,BOOSTER BURST AT SEAM,LOST FLUID,CAUSED LOSS OF POWER STEERING AND POWER BRAKES.				
	P95623	A	780815	01500000		STEERING LINKAGES		14	C	011000	090808064
					77	000204 DODGE TRUCK DIV	5506 MR300				
						TAPER OF HOLE IN STEERING ARM IS DIFFERENT THAN BALL JOINT STUD. EXCESSIVE PLAY AND PUSSIBILITY OF STUD BREAKING RESULT.				
	P85614	A	780823	02140000		SUSPN.INDP.FT. CONTROL ARM,UPPER		03	C	000000	060638110
					76	000202 DODGE	0800 ASPEN				
						BOLT AREA BROKEN.					
50030	P05600	A	780821	02140000		SUSPN.INDP.FT. CONTROL ARM,UPPER		44	C	000000	060638110
					76	000202 DODGE	0800 ASPEN				
						BRACKET BROKEN.					
	P85617	A	780810	02140000		SUSPN.INDP.FT. CONTROL ARM,UPPER		29	C	018000	097266002
					77	000202 DODGE	0800 ASPEN				
						LACK OF SUFFICIENT RANGE OF ADJUSTMENT ON UPPER CONTROL ARMS TO ALLOW PROPER CAMBER & CASTER SETTINGS.				
50030	P05574	D	780816	02170000		SUSPN.INDP.FT. -BEARING WHEEL		04	C	000000	022154182
					00	000403 CHEVROLET	0900 VEGA				
						FRONT WHEEL BEARING APPEARS TO HAVE BEEN IMPROPERLY INSTALLED,NO PROPER CLEARANCE CAUSING BEARING TO BURN.				
50030	P05574	C	780816	02170000		SUSPN.INDP.FT. -BEARING WHEEL		04	C	000000	022154182
					00	000403 CHEVROLET	0900 VEGA				
						FRONT WHEEL BEARING APPEARS TO HAVE BEEN IMPROPERLY INSTALLED,NO PROPER CLEARANCE CAUSING BEARING TO BURN.				

OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED BY 78
1 AUGUST 78 TO 31 AUGUST 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I O	DATE RECEIVED	COMPONENT CLASS	COMPONENT NAME / MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
50030	P05574	B	780816	02170000	SUSPN.INDP.FT. -BEARING WHEEL		04	C	000000	022154182
					00 000403 CHEVROLET	0900 VEGA				
					FRONT WHEEL BEARING APPEARS TO HAVE BEEN IMPROPERLY INSTALLED,NO PROPER CLEARANCE CAUSING BEARING TO BURN.					
50030	P05574	A	780816	02170000	SUSPN.INDP.FT. -BEARING WHEEL		04	C	000000	022154182
					00 000403 CHEVROLET	0900 VEGA				
					FRONT WHEEL BEARING APPEARS TO HAVE BEEN IMPROPERLY INSTALLED,NO PROPER CLEARANCE CAUSING BEARING TO BURN.					
50030	P05571	B	780816	02260000	SUSPN.I BEAM,SLD,FT: BEARING, WHEEL		37	C	010020	089104010
					77 000302 LINCOLN	0206 MARK V				
					ROLLERS CRACKED AND NOISY.					
50030	P05571	A	780816	02260000	SUSPN.I BEAM,SLD,FT: BEARING, WHEEL		37	C	010020	089104010
					77 000302 LINCOLN	0206 MARK V				
					ROLLER CRACKED & NOISY.					
	P95624	A	780818	02412000	SUSPN.SGL AXL R-LEAF SPRING HANGER-BRACKET		57	C	008000	022150182
					00 000204 DODGE TRUCK DIV	5306 B SERIES				
					HANGERS ARE POSITIONED 3/4 IN BACK CAUSING UNEVEN TRACKING AND EXCESSIVE WEAR ON TIRES.B100,200,300 VANS,1975-77.					
50030	P05604	A	780616	02412000	SUSPN.SGL AXL R-LEAF SPRING HANGER-BRACKET		03	C	074087	F80302177
					75 000407 CHEVROLET TRUCK DV	6000 C50-65 M65 SERIES				
					HANGER APPEARS TO HAVE BEEN CRACKED BEFORE,THEN BROKE UNDER STRESS LATER.					
50030	P05573	A	780816	02483000	SUSPN.SGL AXL R-NON-POWER AXLE , BEARING WHEEL		44	C	000000	022150182
					00 200031 INTERNATIONAL TRCK	0000 INTERNATIONAL TRCK				
					BEARINGS NOISY,RACES BURNED.SHOP STATES BURNED SURFACES,EXCESSIVE PACE WEAR.					
	P95622	A	780801	02700000	TIRES		62	C	000000	067501001
					00 160101 SUBARU DIVISION	0104 SUBARU WAGON				
					TIRE BLEW OUT.POSSIBLE OVERINFLATION. BF GOODRICH 155-SR8 GT 200.					
	P95618	A	780817	03000000	SERVICE BRAKES		33	C	011000	060201006
					76 160501 MAZDA DIVISION	0000 MAZDA DIVISION				
					BRAKES LOCK AT 40 MPH WHEN BRAKES ARE APPLIED.					

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50030	P05575	A	780809	03241000	BRKS,HYDRAULIC-LINES,METALLIC		32	C	023457	095207019
					77 000203 PLYMOUTH	0700 VOLARE				
					BATTERY ACID CORRODED BRAKE LINE CAUSING LEAK.					
50030	P05581	B	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		56	C	034504	055406067
					74 000203 PLYMOUTH	0603 DUSTER CUSTOM				
					HOSE CRACKED AT UNION WITH METAL COUPLING.					
50030	P05581	A	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		56	C	034504	055406067
					74 000203 PLYMOUTH	0603 DUSTER CUSTOM				
					OUTER COVERING WAS CRACKING AT UNION WITH METAL COUPLING.					
50030	P05582	B	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		03	C	048046	055406067
					68 000301 FORD DIVISION	0800 TORINO				
					HOSE CRACKED AT UNION WITH METAL COUPLING.					
50030	P05582	A	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		32	C	048046	055406067
					68 000301 FORD DIVISION	0800 TORINO				
					HOSE CRACKED AT UNION WITH METAL COUPLING.					
50030	P05579	B	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		56	C	033453	055406067
					75 000301 FORD DIVISION	0900 GRANADA				
					HOSE CRACKED AT UNION WITH METAL COUPLING-S.					
50030	P05579	A	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		56	C	033453	055406067
					75 000301 FORD DIVISION	0900 GRANADA				
					HOSE CRACKED AT UNION WITH METAL COUPLING.					
50030	P05560	B	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		56	C	067648	055406067
					66 000403 CHEVROLET	0312 IMPALA				
					HOSE CRACKED AT UNION WITH METAL COUPLING.					
50030	P05560	A	780809	03242000	BRKS,HYDRAULIC-LINES-HOSE,NON-METALLIC		56	C	067648	055406067
					66 000403 CHEVROLET	0312 IMPALA				
					HOSE CRACKED AT UNION WITH METAL COUPLING.					

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50030	P05603	A	780816	03264000	BRKS,HYDR-SHOE AND DRUM SYSTEM-DRUM 72 000404 OLDSMOBILE	0600 98	57	C	091479	089104010
					DRUM CUT BY WORN OUT BRAKE SHOES.					
	P85610	A	780827	03271000	BRKS HYDRAULIC-DISC-CALIPER 78 000101 AMERICAN MOTORS DV	0900 CONCORD	57	C	023000	022015215
					FRONT CALIPERS FROZEN.					
50030	P05602	A	780821	03272000	BRKS HYDRAULIC-DISC-PADS AND SHOES 78 000403 CHEVROLET	0800 MONTE CARLO	09	C	019786	077640085
					CALIPER ON ONE SIDE NOT FUNCTIONING PROPERLY CAUSING UNEVEN AND EXCESSIVE WEAR ON PADS.					
50030	P05599	A	780908	03273000	BRKS HYDRAULIC-DISC-ROTOR-DISC HUB 71 000406 GMC TRUCK DIV	5600 PICK UP MODELS	76	C	044511	055805004
					ROTOR COMPLETELY WORN OUT.					
50030	P05596	A	780821	04140000	PRKNG EMRG BRK MECH-RELEASE MECH,AUTOMATIC 76 000402 CADILLAC	0400 SEVILLE	14	C	045616	094110116
					VACUUM LEAK CAUSING CONSTANT NOISE,INTERMITTENT EMERGENCY BRAKE RELEA-SE,AND ROUGH ENGINE IDLE.					
50030	P05586	A	780706	05110000	ENGINE MOUNTS 69 000201 CHRYSLER DIV	0200 300	34	C	099000	001230005
					MOTOR MOUNT SEPERATED,ENGINE LIFTS WHEN CAR IS REVED UP.					
50030	P05605	A	780809	05110000	ENGINE MOUNTS 70 000203 PLYMOUTH	0600 VALIANT	20	C	060000	055429135
					MOTOR MOUNT SEPERATED.					
50030	P05593	A	780816	05150000	ENGINE-OTHER PARTS 69 000201 CHRYSLER DIV	0200 300	28	C	099000	001230005
					OIL PUMP INTERNAL FAILURE.SHOP STATES NO OIL PRESSURE TO ENGINE.					
50030	P05585	A	780816	05230000	ENGINE COOLING SYSTEM-PUMP,WATER 66 000202 DODGE	0400 CORONET	32	C	100000	001230005
					CASING CRACKED.SHOP STATES LEAKS WATER,CAR BOILS.					

OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED BY 78
1 AUGUST 78 TO 31 AUGUST 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	COMPONENT NAME YR MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
50030	P05588	A	780816	05230000	ENGINE COOLING SYSTEM-PUMP,WATER 73 160201 HONDA DIVISION PULLEY CRACKED.	0100 CIVIC	55	C	060327	022201212
50030	P05597	A	780824	05240000	ENGINE COOLING SYSTEM-FAN 77 000301 FORD DIVISION BLADE BROKEN OFF.	0900 GRANADA	21	C	020603	063123061
	P95621	A	780801	06112000	FUEL TANK ASSEMBLY-PIPE,FILLER-NECK 73 150301 FIAT DIVISION SEEPAGE OF GASOLINE.	0400 128	32	C	035000	067501001
50030	P05572	A	780816	06124000	FUEL EMISSION CONTROL-VALVE 77 000305 FORD TRUCK DIV CONTROL VALVE MALFUNCTION.SHOP STATES ROUGH IDLE AND VALVE NOISE. ID # - 2A(551)FORD.	5101 F100	44	C	024000	019805002
	P95628	A	780821	06130000	FUEL LINES FITTINGS AND PUMP 00 000203 PLYMOUTH ROUTING OF FUEL LINES CAUSE STALLING.	0400 FURY	77	C	000000	F17120205
	P95619	A	780816	06130000	FUEL LINES FITTINGS AND PUMP 00 000301 FORD DIVISION RETURN LINE FROM PUMP VIBRATES LOOSE SPILLING GAS ON ENGINE.	0600 PINTO	21	C	000000	085021027
	P95620	A	780816	06130000	FUEL LINES FITTINGS AND PUMP 00 140501 VOLKSWAGEN DIVISN FUEL LINE TO CARB VIBRATES LOOSE,GAS LEAKS ON ENGINE.	0100 TYPE 1	21	C	000000	085021027
50030	P05576	A	780809	06132000	FUEL LINES,HOSES,NON-METALLIC 73 000401 BUICK FUEL LINE CRACKED,POSSIBLE LEAK CAUSING FIRE HAZARD.	0402 ESTATE STATION WAG	32	C	000000	055406067
	P95626	A	780818	06135000	FUEL FILTER LINE 78 000401 BUICK STALLING ON 1978 BUICKS WITH 305 V8.	0000 BUICK	44	C	004000	000000000

OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED BY 78
1 AUGUST 78 TO 31 AUGUST 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	COMPONENT NAME / MANUFACTURER	MAKE-MODEL	FAULT CODE	MAL. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
	P95627	A	780816	06135000	FUEL FILTER LINE		44	C	006000	000000000
					78 000403 CHEVROLET	0300 CAPRICE				
					STALLING ON 1978 CAPRICES WITH 305 V8.					
	P95625	A	780818	06135000	FUEL FILTER LINE		44	C	006000	000000000
					78 000403 CHEVROLET	0312 IMPALA				
					STALLING ON 1978 IMPALAS WITH 305 V8.					
50030	P05578	A	780809	06136000	FUEL PUMP		44	C	000000	018018143
					78 000202 DODGE	0300 COLT				
					BROKEN DIAPHRAGM CAUSING PUMP TO MALFUNCTION.					
	P95612	A	780815	06243000	CARBURETOR,FOUR-BARREL-OTHER PART		77	C	000000	F32301116
					77 000301 FORD DIVISION	0300 LTD				
					ACCELERATOR PUMP DIAPHRAGM TOO SMALL,CAUSES STALLING.REPLACING DIA-PHRAGM CORRECTS PROBLEM FOR APPROX.2 MONTHS.					
	P95616	A	780831	06300000	FUEL INJECTION SYSTEM		14	C	001000	000000000
					77 140501 VOLKSWAGEN DIVISN	0600 RABBIT				
					CAR STALLS WHEN COLD.PROBLEM STARTED WITHIN FIRST 1000 MILES.					
50030	P05595	A	780821	06324000	FUEL INJECTION,ELECTRIC-DISTRIBUTOR		28	C	018952	094110116
					76 160401 DATSON DIVISION	0701 280 Z 2+2				
					TRANSISTOR FAILED IN ENALOGE COMPUTER IN ELECTRONIC CONTROL UNIT OF FUEL INJECTION SYSTEM.HAD TO REPLACE ENTIRE CONTROL UNIT.					
50024	P05567	A	780816	06620000	EXHAUST SYSTEM-PIPE,EXHAUST		77	C	024000	022201212
					74 000304 ENGLISH FORD	0006 ENGLISH FORD				
					PIPE COLLAPSED,BACK PRESSURE WILL STALL ENGINE.					
50030	P05584	A	780816	06651000	CONVERTER		28	C	033960	094110116
					76 000203 PLYMOUTH	0800 ARROW				
					CATALYTIC CONVERTER BURNED OUT.					
50030	P05601	A	780821	07120000	POWER TRAIN CLUTCH ASM-LINKAGE,FLEXIBLE		03	C	015870	094110116
					74 150301 FIAT DIVISION	0403 128 CUSTOM SW				
					CLUTCH CABLE BROKEN,APPEARS TO HAVE BEEN IMPROPERLY ROUTED.					

OFFICE OF DEFECTS INVESTIGATION
PARTS RECEIVED BY 78
1 AUGUST 78 TO 31 AUGUST 78 SORTED BY COMPONENT,MODEL,MDL YR

BIN NUMBER	PRP NUMBER	I D	DATE RECEIVED	COMPONENT CLASS	COMPONENT NAME / MANUFACTURER	MAKE-MODEL	FAULT CODE	HAZ. CAT.	MILEAGE AT FAILURE	SHOP NUMBER
	P85613	A	780803	07222000	PWR TRN TRANSM.-4 SPD-LVR & LNKG,FLR.SHIFT 00 000403 CHEVROLET	1000 CHEVETTE	28	C	000000	FS1110044
					GEAR SHIFT LEVER BREAKS ON STANDARD TRANS.HAS 4 CHEVETTES WITH TOTAL OF OVER 12 FAILURES.					
50030	P05577	A	780809	08120000	ELECTRICAL SYSTEM BATTERY-CABLE 75 140501 VOLKSWAGEN DIVISN	0305 DASHER SW	73	C	035000	020800030
					BATTERY CABLE IN CONTACT WITH ENGINE BLOCK WEARING INSULATION OFF CAUSING ELECTRICAL SHORT.					
50030	P05615	A	780809	09102000	SWCH-BUTTON-RING-HEAD LIGHTS 72 000301 FORD DIVISION	0310 LTD CNTRY SEDAN	28	C	019726	099206096
					INTERNAL SHORT. SHOP STATES HEADLIGHTS BLINK OFF AND ON,BAD SWITCH.					
50030	P05590	A	780809	09106000	SWCH-BUTTON-RING-BRAKE LIGHTS 73 000301 FORD DIVISION	0000 FORD DIVISION	28	C	000000	099206096
					SWITCH MALFUNCTION. ID- A,MOTORCRAFT. SHOP STATES LOOSE TERMINAL,NO BRAKE LIGHTS.					
50030	P05590	A	780809	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 73 000301 FORD DIVISION	0000 FORD DIVISION	28	C	000000	099206096
					INTERNAL SHORT. NO SIGNALS.					
50030	P05592	A	780809	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 73 000301 FORD DIVISION	0700 THUNDERBIRD	28	C	070774	099206096
					INTERNAL SHORT. NO SIGNALS.					
50030	P05591	A	780809	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 69 000303 MERCURY	0300 COUGAR	28	C	000000	099206096
					INTERNAL SHORT. NO RIGHT REAR TURN SIGNAL.					
50030	P05589	A	780809	09110000	SWCH-BUTTON-RING-TURN SIGNAL LIGHTS 73 000305 FORD TRUCK DIV	5111 F250	28	C	078609	099206096
					INTERNAL SHORT.NO TURN SIGNALS.					
	P85629	A	780811	15500000	EQUIPMENT-JACKS 00 000000 UNKNOWN	0000 UNKNOWN	21	C	000000	FS1201134
					HANDLE BROKE OFF WHILE JACKING UP CAR.JACK COLLAPSED.HEIN WARNER MODEL 51.35 1 1/2 TON.					

RECORD COUNT = 65 - END OF REPORT

PARTS RETURN PROGRAM

MONTHLY SUMMARY

Sept. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06585	01223000	Power steering shaft Pitman Arm	1977 Chrysler Cordoba	28825	084111015
		Excessive wear in pitman arm ball joint.			
P06550	01330000	Steering power assist. Hose, Fluid	1976 Lincoln Continental	36187	023513001
		Hose cut by control arm			
P05606	01530000	Steering Linkages Idler Arm	1976 AMC Gremlin	16145	014607007
		Excessive wear at idler arm left steering loose			
P05607	01530000	Steering Linkages Idler Arm	1977 Chevrolet Van	36150	014607007
		Idler arm froze from lack of lubrication. Steering very stiff. Would not return to straight ahead after a turn.			
P06579	01530000	Steering Linkages Idler Arm	1972 Ford Galaxie	----	060638110
		Lack of lubrication caused arm to freeze up.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06547	01560000	Steering Linkages Tie Rod End	1975 Cadillac DeVille	35287	023513001
		Tie rod ball bushing broken. Loose steering.			
P06565	02152000	Suspn. Indp. Ft. Control Arm Lower Ball Joint	1970 Chevrolet Nova	---	048602093
		Ball joint appears to have been cracked for sometime before shaft broke completely.			
P06587 A	02152000	Suspn. Indp. Ft. Control Arm Lower Ball Joint	1972 Ford Pinto	22473	067501001
		Excessive wear.			
P06587B	02152000	Suspn. Indp. Ft. Control Arm Lower Ball Joint	1972 Ford Pinto	22473	067501001
		Excessive wear.			
P06592	02152000	Suspn. Indp. Ft. Control Arm Lower Ball Joint	1970 Buick LeSabre	---	048238092
		Ball joint casing broke allowing ball joint to fall to ground.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06566	02160000	Suspn. Indp. Ft. Spindle - Knuckle, Steering. Spindle	1973 Pontiac Grand Prix	19000	0-----0
		Bearing froze on spindle and locked into hub, twisting end off of spindle.			
P06548	02420000	Suspn. Sgl. Axl. Control Arm	1977 Buick Skyhawk	32854	017104008
		Bushing froze on bolt, causing bushing to wear arm.			
P05608	03242000	Brks. Hydraulic Line, Hose Brake Hose	1976 Plymouth Duster	33210	014607007
		Hose deteriorated and cracked.			
P05609	03242000	Brks. Hydraulic Lines, Hose Brake Hose	1973 Ford Maverick	39827	014607007
		Hose deteriorated and cracked.			

MONTHLY SUMMARY

Sept. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06581	03230000	Brks. Hydraulic - Mstr. Cyl. Master Cylinder	1974 AMC Gremlin	33373	023513001
		Check valve failed, causing master cylinder to fail, loss of brakes.			
P6591	03230000	Master Cylinder Master Cylinder	1977 Cadillac	----	00861107
		Master Cylinder Leaking.			
P06580	03242000	Brks. Hydraulic - Lines, Hoses, Non-Metallic Brake Line	1974 Plymouth Valiant	-----	060638110
		Brake line cracked, leaks, causing loss of brakes.			
P06545	03262000	Brks, Hydr-Shoe & Drum System Brake Shoe	1972 Ford F-250	-----	044312002
		Brake Shoe Bent			
P06553-A	03270000	Brks. Hydr-Disc-Rotor-Disc Hub Rotor	1971 Ford F250	------	089104010
		Pads worn out, cut rotors badly.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

Sept. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06653-B	03270000	Brks. Hydr-Disc-Rotor-Disc Hub Rotor	1971 Ford F250	------	089104010
		Pads worn out, cut rotors badly.			
P06586	03273000	Brks. Hydr.-Disc-Rotor-Disc Hub Brk. Rotor	1969 Ford Fairlane 500	66725	053612002
		Rotor rusted out & collapsed, rotor appears to have machine to thin prior to collapse.			
P06594	03273000	Brks. Hydr. Disc-Rotor-Disc Hub Brake Rotor	1971 Mercury Cougar	90212	040503002
		Rotor surface is extremely worn and cracking. Rotor is broken in two.			
P06541	05151000	Engine Timing Gear & Chain Timing Belt	1976 Chevrolet Chevette	15943	033318118
		Belt broken.			
P06567	05151000	Engine Timing, Belt & Gear Time Belt & Gear	1976 Chevrolet Chevette	18783	014865140
		Excess wear on gear causing belt to jump time.			

MONTHLY SUMMARY

Sept. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06589	05230000	Engine Cooling System Water Pump	1977 Pontiac Grand Prix	11700	008861107
		Water Pump leaking.			
P96557	06113000	Fuel Tank Asm. Fuel Tank.	1971 Ford LN600	140,000	042301006
		Plastic fuel tank melted.			
P06572A	06132000	Fuel lines, Hoses, Non-Metallic Fuel Line	1973 Buick Electra	27,000	019805002
		Fuel return line cracked and leaking.			
P06572B	06132000	Fuel Lines, Hoses, Non-Metallic Fuel Hose	1973 Buick Electra	27000	019805002
		Hose deteriorated and cracked causing fuel leak.			
P06552	06136000	Fuel Pump Fuel Pump	1975 Ford Trk.	-----	P60126146
		Diaphragm broke, leaks gas into oilpan.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

Sept. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06540	06213000	Carburetor, Unk. Type, Other part Float	1974 Ford Mustang II	70176	023513001
		Float loaded up with gas. Float will not shut off gas, carb overloads.			
P06549	06213000	Carb. Unk. Type - Other Part Float	1974 Plymouth Valiant	48866	090004013
		Float loaded with gas. Failed to cut off gas.			
P06558	06213000	Carb., Unk., Type Other Part.	UNK	------	098036056
		Float saturated, causing carb., to flood.			
P06559	06213000	Carb., Unk. Type - Other Part. Float	UNK	----	098036056
		Float saturated, causing carb., to flood.			
P06560	06213000	Carb., Unk. Type - Other Part. Float	UNK	-----	098036056
		Float saturated, causing carb., to flood.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06561	06213000	Carb., Unk. Type - Other Part. Float	UNK	----	098036056
		Float saturated, causing carb., to flood.			
P06562	06213000	Carb., Unknown Type - Other Part Float	UNK	----	098036056
		Float saturated, causing carb., to flood.			
P06563	06213000	Carb., Unk. Type - Other Part Float	UNK	-----	098036056
		Float saturated, causing carb., to flood.			
P06564	06213000	Carb., Unk. Type - Other Part Float	UNK	------	098036056
		Float saturated, causing carb., to flood.			
P06582	06233000	Carb., Double, Other Part Float	Ford Pinto	-----	023513001
		Float loaded up with gas, causing carb., to flood.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06583	06223000	Carb., Single - Other Part Float	----	----	023513001
		Float loads up with gas, carb., malfunctions.			
P06584	06223000	Carb., Single - Other Part Float	----	---	023513001
		Float loads up with gas, carb., malfunctions.			
P06543	06500000	Exhaust/Crankcase Emission Control Devices EGR Plate	1976 Ford F350 Custom	34616	033316118
		EGR Plate burnt out.			
P06570	06500000	Exhaust/Crankcase Emission Control Device EGR Plate	Ford	----	014865140
		EGR Plate deteriorated causing poor performance.			
P06571	06500000	Exhaust/Crankcase Emission Control Device EGR Plate	1973 Ford LTD	37460	014865140
		EGR Plate deteriorated causing fire hazard & poor operation of the car.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06568	06530000	Exhst/Crankcase Emission Cntrl. Check Valve Valve	1977 Plymouth	----	014865140
		Valve failed, causing fire.			
P06551	07400000	Power Train Drive Line Drive Shaft	1977 Ford LTD	20037	085004002
		Drive shaft twisted in half, due to improper weld.			
P06593	07450000	Differential Unit Ring & Pinion Gear	---	-----	0-------0
		Ring and pinion gears are worn and broken. No information from shop.			
P06542	09102000	Swch-Button Ring. Head Lights Headlight Switch	1975 Ford F350	21000	044312002
		Internal Short. Complete headlight failure.			
P06544	09102000	Swch-Button-Ring Head Lights Switch.	1975 Ford Galaxie	----	044312002
		Internal Short. Shop states headlights failed.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06573	09110000	Swch-Button-Ring, Turn Signal Lights Turn Signal Switch	1968 Mercury Cougar	06427	099206096
		Internal Short.			
P06574	09110000	Swch-Button-Ring, Turn Signal Lights Turn Signal Switch	1973 Ford Gran Torino	45185	099206096
		Internal Short.			
P06575	09110000	Swch-Button-Ring, Turn Signal Lights Turn Signal Switch	1969 Ford Pick-up	76445	099206096
		Internal Short.			
P06576	09110000	Swch-Button, Ring-Turn Signal Lights Turn Signal Switch	1965 Ford 350 Pickup	71548	099206096
		Internal Short.			
P06577	09110000	Swch-Button, Ring-Turn Signal Lights Turn Signal Switch	1971 Ford Station Wagon	26722	099206096
		Internal Short.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06546	11103000	Water Heater, Dfrstr, Dfggr Fan Motor	1978 Cadillac	9780	023513001
		Internal Short.			
P06590	13720000	Hood Assem. Hinge & Attachments Hood Spring	1977 Cadillac	----	008861107
		Hood spring broken in two.			
P96554	15500000	Hein Warner Jack Hydr. Floor Jack	---	---	020031021
		Handle broke off 3 jacks.			
P96555	15500000	Hein Warner Jack Hydr. Floor Jack	---	----	020031021
		Wheel fell off jack.			
P96556	15500000	Hein Warner Hydr. Floor Jack	---	----	020031021
		3 Hydraulic seals bad and would not stay pumped up.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

Sept. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06588	15504000	Jacks-Ramp Drive-on Ramp	---	---	007083128

Ramp collapsed while in use. Firebird was vehicle on ramp. No injuries.

PARTS RETURN PROGRAM

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06642	01160000	Steering Column Coupling	1973 Mercury Capri	-----	094110116
		Rubber coupling broke.			
P06599	01220000	Steering Box	1978 Chevrolet	21000	006856001
		Nut came loose, jammed steering.			
P06597	01223000	Power Steering Shaft Pitman Arm	1968 Cadillac Eldorado	48236	033316118
		Pitman arm casting broke.			
P06606	01330000	Steering Power Assist-Hose, Fluid P/S Hose	1975 Ford Granada	52883	006856001
		Hose improperly fastned at fitting, hose separated causing loss of power steering.			
P96625	01330000	Steer Power Assist.-Hose, Fluid Power Steering Hose	1978 Ford F150 Pick-up	19,000	078701089
		Hole in power steering hose (not due to rubbing) causes fluid loss.			

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MONTHLY SUMMARY

Oct. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96624	01500000	Steering Linkages Caster & Camber Adjustment	1978 Plymouth Police Package	-----	078701089
		Caster and camber cannot be adjusted on left side unless torched to slot hole.			
P06598	01530000	Steering Linkages Idler Arm	1970 Ford Galaxie 500	55000	053140017
		Idler arm froze and tore away from frame.			
P06617	01530000	Steering Linkage Arm, Idler & Attachments Idler Arm	1976 AMC Gremlin	31295	014607007
		Ball frozen in socket.			
P06619	01530000	Steering Linkage-Arm, Idler & Attachment Idler Arm	1973 Chevrolet Chevelle	61462	014607007
		Idler arm attachment bent.			
P96631	02113000	Suspn. Indp. Ft. Attach. Mech. Rt. Front Coil Spring	1978 Dodge 150 Series	-----	068510002
		Delivered with 3rd coil of rt. front spring broken. Frame bent. Rode hard.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

Oct. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06613	02142000	Suspn. Indp. Ft. Ctrl Arm Ball joint	1971 Chevrolet Van	35874	090027012
		Excessive wear, ball joint separated			
P06620	02150000	Suspn. Indp. Ft. Control Control Arm	1970 Ford Galaxie	48831	028208008
		Ball joint broke.			
P86628	02700000	Tires Firestone Steel Radial	1976 Chevrolet Monte Carlo	15871	003242005
		Tire has lumps in tread area and out of round.			
P96645	02700000	Tire Firestone 500	1978 Chevrolet Camaro Z-28	-----	0P80301169
		Firestone 500 blew out.			
P96647	02700000	Tire Michelin X (34 days old)	1960 Mercedes 250S	-----	020012007
		Sidewall split while rounding turn. Hit gaurd rail - damaged side of car.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06648	02700000	Tire Firestone 500 Steel Belted Radial	----	----	0F10801145
		Tire out of round. Tread design warped.			
P06649	02700000	Firestone 500 Steel Belted Radial	----	----	0F10801145
		Tire out of round. Tread design warped.			
P06607	03230000	Brks. Hydraulic Master Cylinder	1973 Plymouth Satellite	58217	023513001
		Internal failure, no visible defect. Shop states loss of brake pedal.			
P06618	03230000	Brks. Hydraulic Master Cylinder	1974 Plymouth Valiant	42621	014607007
		Internal malfunction.			
P96627	03230000	Brks. Hydr. Master Cylinder	19-- VW Dasher	----	006783137
		Master cylinder failure.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06650	03230000	Brks. Master Cylinder	1976 Chevrolet Nova	----	090027012
		Internal failure, shop states pedal sinks.			
P06651	03230000	Brks., Hydr. Master Cylinders	19--	---	090027012
		Internal malfunction.			
P06601A	03242000	Brks. Hydr. Lines, Hose, Non-metallic Brake Hose	1966 Chevrolet 10	63835	019047001
		Hose cracked at union.			
P06601B	03242000	Brks. Hydr. Lines, Hose, Non-metallic Brake Hose	1966 Chevrolet 10	63835	019047001
		Hose cracked at union.			
P06602A	03242000	Brks. Hydr. Lines, Hose, Non-metallic Brakes Hose	1975 Dodge Dart Swinger	----	019047001
		Hose rubbed on frame, wore through.			

PARTS RETURN PROGRAM

MONTHLY SUMMARY

Oct. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06602B	03242000	Brks. Hydraulic-Lines, Hose, Non-metallic Brake Hose	1975 Dodge Dart Swinger	----	019047001
		Hose cracked at union.			
P06616A	03242000	Brks. Hydr. Lines, Hose, Non-metallic Brake Hose	1975 Plymouth Valiant	20729	014607007
		Hose cracked at union.			
P06616B	03242000	Brks. Hydr. -Lines, Hose, Non-metallic Brake Hose	1975 Plymouth Valiant	20729	014607007
		Hose cracked at union.			
P86630	03270000	Brks. Hydr.-Shoe-Disc Brake System Front Brakes	1976 Dodge Van B300	----	006855010
		Turning to extreme right or left, brake caliper would hit frame pushing piston back into caliper.			
P06615	03271000	Brks. Hydr. -Disc-Caliper Caliper Pistons	1976 Dodge F40	4100	022150182
		Piston frozen in caliper.			

MONTHLY SUMMARY

Oct. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06634	03272000	Brks. Hydr. Disc-Pads & Shoes Brake Pad	1970 Pontiac Bonneville	56231	023513001
		Linging broken			
P06621	03281000	Brks. Hydr. -Switch, Brake Warning Brk. Warning Light Valve	1973 Oldsmobile Cutless	50057	090027012
		Leaking			
P06596	04110000	Parking Emer. Brk-Mech Lvr. Emergency Brake Handle	1975 Dodge Van A100	49000	098106082
		Lever broke at cable connector.			
P06608	05110000	Engine Mounts Motor mount.	1971 Cadillac	90868	090027012
		Motor mount separated allowing motor to lift.			
P06609	05110000	Engine Mount. Mount.	1972 Dodge Dart	44005	090027012
		Mount separated allowing engine to lift.			

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MONTHLY SUMMARY

Oct. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06610	05110000	Engine Mount. Mount	1969 Ford Torino	45450	090027012
		Mount separated, allowing engine to lift.			
P06611	05110000	Engine Mount Mount	1970 Chevrolet	56119	090027012
		Mount separated, allowing motor to lift.			
P06612	05110000	Engine Mount Mount.	1966 Ford Mustang	49578	090027012
		Mount separated, allowing motor to lift.			
P06643	05150030	Engine Valves, Valve Train Valve Guide	1975 Datsun B210	66783	094110116
		Valve guide broken #4 cylinder			
P06644	05150030	Engine Valves - Valve Train Valve Guide	1975 Datsun B210	39769	094110116
		Exhaust valve guide broken #4 cylinder.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06641	05151000	Engine-Time Gear & Chain Tensioner	1972 Datsun 510	45000	094706117
		Valve sticking.			
P06640	05240000	Engine Cooling System Fan	1976 Mercury Marquis	21045	060651069
		Fan blade broken and split.			
P06605	06213000	Carburetor, Unk. Type-Other Part Float	1976 Ford Pinto	34359	023513001
		Float loaded up with gas, causing carburetor to flood.			
P96623	06213000	Carb. Unk. Type - Other Part Carb. Floats	---	---	007083128
		Cracks around portion of float where metal tank enters float.			
P06637	06132000	Fuel lines, hoses Fuel Hose	1977 Oldsmobile Delta 88 Wagon	23327	055433054
		Fuel return line cracked and leaking.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06635	06220000	Carburetor Float	1976 Buick Regal	----	090004013
		Float loaded up with gas, causing carb to flood.			
P06636	06222100	Carb, Single-Choke Gasket	1970 Ford Maverick	---	023513001
		Choke housing gasket misaligned, car stalls at idle.			
P96629	06232000	Carb-Double-Manifold, Intake Intake Manifold	1977 Plymouth Volare Wagon	19000	006783137
		Hole under carb, bottom of intake manifold. Caused poor performance at low RPM.			
P86632	06243000	Carb., Four-barrel - other part Tapered plug in carb.	1976 Dodge Monaco Police	46592	0F95150169
		Tapered plug came out of carb, allowing gas to flood over engine. Car burned up.			
P06600	06500000	Exhaust/Crankcase Emission Control Devices EGK Plate	19--	----	006856001
		EGR plate burnt out causing poor performance. Vehicle unknown. Possibly a Ford.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06603	06500000	Exhaust/crankcase Emission Control Devices EGR Plate	1976 Ford Granada	28673	023513001
		Exhaust port stripped causing leak.			
P06633	06520000	Exhst/crankcase Emission Cntrl Hoses-lines Hose	1977 Pontiac Bonneville	41192	023513001
		PCV valve hose cut.			
P06595	07240000	Pwr. Trn. Trns. Unk. type Flex Plate	1977 Honda Accord	24928	012205080
		Plate misaligned and worn until plate broke.			
P96646	07241000	Column Shift-Trans. Unk. type Column Shift	1971-72 Ford Pick-up	----	0P85008093
		1971-72 Ford pick-up. Column shifter gets loose.			
P06639	07463000	Pwr. Trn. Axle - Bearing, Axle, Shaft Bearing	1978 Ford F150 Ranger	26104	033316118
		Bearing lock ring loose on axle.			

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MONTHLY SUMMARY

Oct. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06604	08300000	Electrical System Wiring A/C Wire	1978 Oldsmobile Omega	1179	006856001
		Shorted out electrical system.			
P06638	08500000	Electrical System Ignition Vacuum Control	1977 American Motors Pacer	----	055433054
		Vacuum control improperly adjusted.			
P06614	09102000	Swch.-Button-Ring-Head Lights Switch	1976 Toyota Corona	48492	094706117
		Light Switch broken.			
P96626	13110000	Structure-frame& members Cross-member	1977 Pontiac Lemans	----	07870189
		Cross member cracked.			

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MONTHLY SUMMARY

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96697	01500000	Link Belt	1976 GM 4 Wheel Drive	---	85021024
		Pulls to right.			
P06662	01560000	Steering Linkage Tie Rod End & Sleeve	----	----	00000000
		Threads stripped, pulled loose from sleeve, loss of control.			
P86665	02132000	Suspn. Indp. Ft. Control Arm Ball Joint	1977 Dodge Aspen	7205	12054098
		Ball joint loose.			
P96698	02140000	Suspn. Indp. Ft. Control Arm Control Arm	1978 Chevrolet Chevette	----	11204002
		Control arm difficulties			
P96696	02160000	Spindle (R. F.)	1978 Dodge Custom 300	12289	33334156
		Outer end snapped off $1\frac{1}{2}$" from end.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86683	02700000	Tires Uniroyal HR78-15	1977 Chevrolet Impala SW	----	F60085155
		Seperation causing flat spots. Problems with tires, balance and alignment.			
P86682	02700000	Tires Uniroyal HR78-15	1977 Chevrolet Impala SW	----	F60085155
		Seperation eausing flat spots. Problems with tires, balance and alignment			
P06627	03230000	Brks. Hydr. Master Cylinder	1975 Dasher Wagon	64700	06783137
		Brake pedal keeps going down. Internal failure.			
P96678	03230000	Master Cylinder	1976 Dodge Motor Home	30000	22150182
		Braking difficulties - original master cylinder replaced - new part not compatible with other components.			
P96677	03224000	Brake Servo Unit Power Booster	1976 Chevrolet Luv Pick-up	----	22150182
		Push-rod breaks on atmospheric side of diaphragm in power booster.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06658-A	03242000	Brks. Hydraulic Brake Hose	1970 Dodge Dart	59687	23513001
		Hose cracked at Union with Metal fitting.			
P06658B	03242000	Brks. Hydraulic Brake Hose	1974 Dodge Dart	59687	23513001
		Hose cracked at union with metal fitting.			
P06659	03242000	Brks. Hydraulic Hose	1974 Dodge Dart	58239	23513001
		Hose cracked at union with metal fitting.			
P06674	03271000	Brks. Hydraulic Caliper Piston & Seal	1977 Dodge Aspen	16280	12054098
		Seal worn, leaked,causing loss of front brakes.			
P06695	03272000	Brks. Hydr. Disc Brake Pad	1970 Pontiac Bonneville	----	23513001
		Pad excessively worn.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96699	03272000	Brks. Hydr. Brake Pads	1978 Ford Fiesta	----	06754043
		Deterioration of brake pads.			
P06664	03272000	Brks. Hydr. Pads	1977 Dodge Aspen	16280	12054098
		Pads soaked with brake fluid.			
P06685	03273000	Brks. Hydr. Rotor	1971 Mercury Couger	99600	40503002
		Rotor cracked, turned below manufacturers spec.			
P06684	03273000	Brks. Hydr. Rotor	1973 Ford LTD	30000	47305031
		Rotor cracked.			
P06688	05110000	Engine Mounts Motor Mount	1973 Audi 100LS	52200	44114014
		Motor mount broken, allowing motor to shift.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06663	05130000	Engine Pulley-Crankshaft Pulley	1976 Chevrolet	22123	12054098
		Pulley torn loose from damper.			
P06653	05150000	Engine/Other Parts Oil Pressure Switch	1975 Buick Limited	64332	27101002
		Switch leaking.			
P06690	05150030	Engine Valves, Valve Train Camshaft	1976 Chevrolet Chevette	35758	84057010
		Camshaft broken, behind front bearing.			
P06655	05151000	Engine - Timing Chain Time Belt	1977 Mercury Bobcat	17000	3331611S
		Timing belt broke, causing engine to loose time.			
P06656	05151000	Engine - Timing Chain Timing Belt	1977 Fiat X1/9	24000	3331611S
		Teeth worn off belt, causing belt to jump time.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06666	09102000	Switch Button Ring Switch	1967 Chrysler NY	101705	99206096
		Internal short.			
P06669	09110000	Switch Button Ring Switch	Mercury Cougar	91060	99206096
		Internal failure. No turn signal.			
P0668	09110000	Switch Button Ring Switch	1973 Ford Grand Torino	79425	99206096
		Internal failure, no turn signal.			
P06667	09110000	Switch Button Ring Switch	1975 Dodge Coronet	25777	99206096
		Internal short, not turn signal.			
P06687	09110000	Switch Button Ring Switch	1972 Ford Custom 500	30569	99206096
		Internal short, no brake or rear right turn signal at times.			

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Nov. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06660	09110000	Switch Button Ring Switch	1968 Ford Mustang	20274	99206096
		Internal failure, no turn signal.			
P06689	09110000	Switch Button Ring Switch	1973 Ford Ranchero	48646	99206096
		Internal short, causing no brake lights or turn signal.			
P96679	15300000	Equipment - Speed Control Cruise Control	1973 Continental Mark IV	50,000	33316118
		Control would not shut off by steping on brake or by switch on steering wheel. Accelerator stickes.			
P06661	05260000	Engine Cooling System Thermostat	---	---	00000000
		Thermostat failed, engine overheating.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06652	06115000	Fuel Tank Assembly-Attachments Gas cap cover	1977 Mercury Monarch	18322	27101002
		Hinge broken.			
P06654	06123000	Fuel emmision control-cannister Tank-Vacuum	1977 Ford		33316118
		Tank leaks, causing failure vehicle polution system.			
P06694	06212100	Carburetor unknown type-choke Choke housing gasket	1970 Ford Maverick		23513001
		Choke housing gasket.			
P06680	06500000	Exhaust/crankcase emmision control devices EGR plate	Ford	70000	33316118
		EGR plate eaten away. Replaced this vehicle's EGR plate at 48000 miles. Stalling.			
P96680	06520000	Exhaust crankcase emmision control hose-lines PCV hose	1977 Pontiac Bonneville		23513001
		PCV hose operating poorly.			
P06657	07150000	Power train clutch Assembly Lever-release, throw out Clutch Fork	1974 Ford Pinto	66904	23513001

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96681	07450000	Power train driveline-Differential unit Ring and pinion gear Assembly	1976 Plymouth Volare	68000	85021027
		Ring and pinion gear assembly seems too small (7 1/4") for 318 V-8 engine. Bolts backed out and locked ring against housing.			
P96692	07450000	Pwr.Trn.Driveline-Differential unit Differential	1974-78 Ford Mustang II		74120030
		Rear ends "going out". Possible labor problem rather than material defect. 1974-78 with V-8 engine.			
P96691	07450000	Pwr.Trn.Driveline-Differential unit Differential	1974-78 Mercury Capri		74120030
		Rear ends "going out". Possible labor problem rather than material defect. 1974-78 with V-6 engines.			
P96670	07450000	Pwr.Trn.Driveline-Differential unit Differential	1974-78 Mercury Bobcat		74120030
		Rear ends "going out". Possible labor problem rather than material defect. 1974-78 with V-6 engines.			
P96671	07450000	Pwr.Trn.Driveline-Differential Differential	1974-78 Ford Pinto		74120030
		Rear ends "going out". Possible labor problem rather than material defect. 1974-78 with V-6 engines.			

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Sept. 1978

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96691	07450000	Pwr.Trn.Driveline-Differential Differential	1974-78 Ford Pinto		74120030
		Rear ends "going out". Possible labor problem rather than material defect. 1974-78 with V-6 engines.			
P96673	07450000	Pwr.Trn.Drive line-Differential unit Differential	1974-78 Ford Mustang II		74120030
		Rear ends "going out". Possible labor problem rather than material defect. 1974-78 with V-6 engine.			
P06672	08540000	Electronic ign.-control unit Ignition Amp.	1978 Ford Pinto	20218	97405004
		Possible internal failure. No ignition.			
P96676	08540000	Ignition amplifier	Ford		74120030
		Resistence wire (1.6 OHM) could break internally causing short-stalling.			
P86675	08540000	Elec. System Ign.-Elec. control unit Ignition amplifier	1975 MGB Roadster	35114	67501001
		Stalls in traffic.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06686	09102000	Swch. Button Ring-Head lights Switch	1967 Chrysler Town and Country	90643	99206096
		Internal short, lights flash off and on.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06709	01200000	Steering Gear Box Bolt	1976 Ford Econoline, E350	61,036	012225097
		Steering Box securing bolts broken.			
P06703	01200000	Steering Gear Box Bolts	1978 Ford E150	13,000	P06605117
		Steering gear bolts sheared off			
P96733	01220000	Power Steering Gear Box Power steering box	1966 Dodge Polara	120,000	067501001
		Power steering binds or grabs without warning. Unable to discover why. Flushed system - works OK.			
P96740	01230000	Steering Box Bracket	1972 Dodge B200 Van	-----	022150182
		Brackets snapped due to metal fatigue.			
P96729	01400000	Steering Gear, Rack and Pinion Steering box	1971-72 Ford Pinto	-----	019479109
		Steering is loose - feels as if gears are loss internally.			
P06721-B	02150000	Susp. Indp. Ft. Ctrl. Arm, Lower Ball Joint 1974 Fiat 128 Control Arm		38,512	067501091
		Lower control arm separated, ball joint pulled out of socket.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06721	02152000	Suspn. Indp. Ft. Ctrl. Arm Lower Ball Joint Control Arm	1974 Fiat 128	32,512	067501001
		Lower control arm separated, ball joint pulled out of socket.			
P06712	02600000	Wheels Wheel	1966 Dodge P.U.	89,000	083651021
		Center section of wheel broken out.			
P96730	02700000	Tires Pirelli Tires	----	----	067501001
		Steel belts coming through tread.			
P06714	03223000	Brks. Hydr. Pwr. Assist Valve	1974 Dodge Dart	46,464	023513001
		Internal malfunction			
P06726	03224000	Brks. Hydr. Pwr. Assist Brake Booster	1977 Dodge Aspen	25,000	019923101
		Vacuum leak			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96738	03230000	Brks. Hydraulic Master Cylinder	1977 Oldsmobile Delta 88	15,000	060201006
		Slight pressure on pedal and it sinks to the floor. Hard braking doesn't seem to affect it. Replacing master cylinder. Does not cure.			
P86732	03230000	Brks. Hydraulic Master Cylinder	1974 MGB	33,368	067501001
		Brake master cylinder will not always hold.			
P06722	03271000	Brks. Hydraulic Disc Caliper	----	----	076103004
		Caliper seized up.			
P06725	03273000	Brks. Hydraulic Disc Hub Rotor	1978 Ford Fiesta	18,592	006754043
		Rotor warped			
P06724	03273000	Brks. Hydraulic Disc Hub Rotor	1977 Ford Fiesta	18,592	006754043
		Rotor warped			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06710	05150030	Engine Valves - Valve Train Valves (4)	1974 Pontiac Grandville	52,460	063111009
		Valves cracked			
P86739	05151000	Engine - Timing Gear & Chain Timing Belt	1974 Fiat X-19	44,165	067501001
		Broken timing belt			
P06713	05270000	Engine Colling System - Other Parts Bearing	1971 Chev. 3/4 ton PU	10,634	083651021
		Bearing on A.C. idler locked up			
P96731	06112000	Fuel Tank Assembly Gas tank, filler, neck	1974 Scout	----	085021027
		Filler neck split			
P96705	06115000	Fuel Tank Assem. Attachments Recall Gas Tank shield	1975 Ford Pinto	-----	074120030
		Plastic shield melted due to routing of exhaust pipe (V-6 only) after 3 days			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86734	06132000	Fuel lines, Hoses, Non-Metallic Gas Tank Filler Hose	1973 Fiat 128-1300	35,398	067501001
		Gas tank filler hose deteriorates then leakes on ground.			
P06704	06132000	Fuel Lines, Hoses, Non-Metallic Hose	1971 Oldsmobile Delta 88	94,673	060651069
		Fuel line hose cracked.			
P06707	06136006	Fuel Pump Fuel pump	1976 Triumph TR-7	26,563	067501001
		Leaks at crimped seal.			
P06706	06136006	Fuel Pump Fuel pump	1975 Triumph TR-7	18,079	067501001
		Leaks at crimped seal.			
P06720	06200000	Fuel Carburetor Float	1973 Plymouth Valiant	92,400	090027113
		Float overloaded, cause carburetor to malfunction.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86735	06213000	Carburetor Unknown Type Choke Pin	19— VW Beetle	51,839	067501001
		The choke pin falls out of the hole allowing the motor to race.			
P86736	06213000	Carburetor Unknown Type Choke Pin	1966 VW Beetle	55,127	067501001
		The choke pin falls out of the hole allowing motor to race.			
P86737	06213000	Carburetor Unknown Type Choke Pin	1969 VW Beetle	41,741	067501001
		Choke pin drops out of hole - throttle is then stuck wide open.			
P06715	06500000	Exhaust/Crank Case Emission Ctrl. Device EGR Plate	1973 Ford Galaxie 500	46,699	084111045
		Plate burnt out.			
P06708	07120000	Power Train Clutch Asm. Clutch Cable	1975 Ford Pinto	110,380	006754043
		Bushing broke.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86727	07310000	Pwr. Trn. Trns. Auto-Indicator Gear Selector Lever	1974 - on Jaguar XJ12	-----	092103122
		May vibrate from Park position to Reverse.			
P06711	08120000	Electrical System Battery Cable	1977 Buick Landau.	8,304	055429135
		Cable burnt thru, causing dead short.			
P06719	08500000	Electrical System - Ignition Dist. Rotor	1975 Pontiac Grandville	59,847	023513001
		Rotor malfunction.			
P06718	08500000	Electrical System - Ignition Dist. Rotor	-----	-----	023513001
		Rotor malfunction.			
P06717	08500000	Electrical System - Ignition Dist. Rotor	-----	-----	023513001
		Rotor malfunction.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86741	08540000	Electric Module	1978 Chevrolet Monza Sports Coupe	5,627	000000000
		Car stopped running when hot. Replaced electronic ignition module.			
P06723	08540000	Elec. Sys. Ignition - Elec. Ctrl Unit Amplifier	1975 MGB	35,309	067501001
		Internal short.			
P96728	08550000	Electronic Ignition Balast Resistor	-----	-----	097405004
		Car stalls; replace resistor - runs OK			
P06716	09002000	Gnrl or Unk Comp Headlights Headlamp Adjusters	1976 Cadillac Seville	47,854	090027113
		Plastic retainers broken on headlamp adjusters.			
P06702	09202000	Lamp or Socket - Headlights Adjusters	1978 Cadillac Seville	12,000	090027113
		Plastic clip broken, headlight out of adjustment.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96742	11100000	Heater Design	----- Triumph TR-7	-----	067501001
		Because of location of heater duct, CO fumes can leak into passenger compartment.			

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JANUARY '79

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06766	01420000	Steering Gear, Shaft Pinion Steering Sector Box	1972 Ford Pinto	76,357	090405016
		Input shaft bearing fell apart causing steering box malfunction, due to rust and corrosion.			
P06771	02132000	Suspn. Indp. Ft. Ctrl. Arm Unk Type Control Arm Ball Joint	1974 Fiat 128SL	43,000	020800030
		Ball joint separated from socket.			
P86778	02142000	Suspn. Indp. Ctrl. Arm Upper ball joint	1977 Dodge B200 Van	-----	017754007
		Upper ball joint can wear on brake lines.			
P96780	02160000	Suspn. Indp. Ft. Right Front Spindle	1978 Dodge Custom 300	12,289	033308038
		Outer end snapped off 1 1/2" from the end.			
P86819	02600000	Wheels Wheels	1978 Ford T-Bird	17,439	D54449115
		Optional styled road wheels fit too tight on hub. Difficult to get off.			

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JANUARY '79

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06764	03230000	Brks. Hydraulic Master Cylinder	----	----	019047001
		Internal malfunction.			
P06758	03230000	Brks. Hydraulic Master Cylinder	1973 Volkswagen Type I	99,978	084111015
		Internal malfunction.			
P06750	03230000	Brks. Hydraulic Master Cylinder	1969 Dodge Dart	45.610	014607007
		Internal malfunction.			
P06776	0323000	Brks. Hydraulic Master Cylinder	1976 Audi Fox	18.350	085009060
		Pedal goes to floor, no fluid leakage.			
P86777	03241000	Brks. Hydraulic-Lines Metallic Steel Brake Lines	1977 Dodge B200 Van	-----	017754007
		Routing of lines can cause brake line wear.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06753B	03242000	Brks. Hydraulic Lines Hose Brake Hose	1973 Dodge Dart	41,202	014607007
		Hose cracked.			
P06754A	03242000	Brks. Hydraulic Lines Hose Brake Hose	1973 Plymouth Duster	32,021	014607007
		Hose cracked at union.			
P06754B	03242000	Brks. Hydraulic Lines Hose Brake Hose	1973 Dodge Duster	32,021	014607007
		Hose cracked at union.			
P06755A	03242000	Brks. Hydraulic Brake Hose	1973 Dodge Dart	41,202	014607007
		Hose cracked			
P06770	03242000	Braks. Hydraulic-lines-hose Front right brake hose	1969 Dodge Dart	70,223	019479109
		Hose too short. Cracked near fittings.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06770	03242000	Brks. Hydraulic-Lines-Hose Left front brake hose	1969 Dodge Dart	70,223	019479109
		Hose too short. Cracked near fittings.			
P86816	03245000	Brks. Hydr. Differential Brake Metering Valve	19-- Toyota Pickup Hilux SR5	-----	090405016
		Rear brakes would lock-up. Installed a metering valve to correct problem.			
P06742	03242000	Brks. Hydr. Lines Hose Hose	1970 Oldsmobile Toronado	12,000	080918075
		Brake Line Broken			
P06743	03271000	Brks. Hydr. Disc-Caliper Caliper	1978 Plymouth Volarie	47,702	012601043
		Piston frozen in caliper causing wheel to lock up.			
P06774	05151000	Engine-Timing Gear & Chain Timing Gear	1975 Ford Pinto	25,300	083651037
		Teeth broken off timing gear.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06757	05230000	Engine Cooling System-Pump-Water Pulley	1978 Ford B700	3,874	F20850221
		Water pump pulley ripped out.			
P96802	06130000	Fuel Lines, Fittings and Pump Fuel Line	19 late model Various	12,000	000000000
		Premature fuel line deterioration in late model domestic vehicles.			
P06748	06200000	Fuel Carburetion Choke pull off	1972 Plymouth Fury III	89,000	001230005
		Choke pull off malfunction, carburetor overloads with gas and stalls.			
P06746	06210000	Carburetor, Unknown Type Carburetor Kit	--- Maverick Sedan	85,000	001230005
		Carburetor malfunction causing engine to stall.			
P06760	06210000	Carburetor Unknown Type Float	1974 Ford Pinto Wagon	54,133	023513001
		Carburetor float overloads with gas, causing carburetor to flood out.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06756	06220000	Carburetor Single Float	1974 American Motors Matador St. Wgn.	38.765	097405004
		Float overloads with gas, causing carburetor to flood out.			
P06762	06223000	Carb. Single-Other Part Gasket	19-- Unknown	-----	023513001
		Choke gasket leaks.			
P06759	06240000	Carburetor, Four Barrel Carburetor	1977 Chrysler Cordoba	35.791	084111015
		Top of carburetor broken, allowing gas leak, possible fire hazard.			
P0676	06243000	Carb. Four Barrell - Other Part Float	1969 Chevrolet Impala	-----	023512001
		Carburetor float overloads with gas, causing carburetor to flood out.			
P06812	06610000	Exhaust Manifold	1974 Chevrolet Vega	76.479	022201004
		Crack in manifold.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86817	06113000	Fuel Tank Assembly Fuel Tank	1975 Jeep Wagoneer	-----	003242005
		Fuel tank leak. Replaced tank.			
P86803	06115000	Fuel Tank Assembly Gas Tank shield	1975 Ford Pinto	44,809	074120030
		Exhaust pipe melted protective gas tank shield installed in Pinto recall campaign #293.			
P06747	06430000	Throttle Linkage Accelerator Throttle Cable	1970 American Motors Hornet	103,000	001230005
		Throttle cable broken & stretched			
P06772	06500000	Exhaust/Crankcase EGR Valve	1978 Ford Fairmont	15,617	023513067
		Valve sticks open			
P06769	06500000	Exhaust/Crankcase EGR Plate	1973 Ford Galaxie 500	94,135	083651037
		Exhaust corrosion			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96781	07100000	Power Train Clutch Assembly Clutch	1978 Dodge Omni	16,000	083672034
		Clutch burned out.			
P86779	07240000	Pwr. Train Trans. Unk Type Transmission Hanger	1977 Dodge B200 Van	-----	017754007
		Transmission hangers are falling out causing transmission to drop.			
P06775	07410000	Power Train Driveline - Universal Joint Universal Joint	19-- Unknown	-----	094553104
		Unknown Type vehicle. Universal joint broken.			
P06744	07463000	Pwr. Trn. Axle Assembly Bearing	1977 GMC Van	27,000	060638110
		Bearing and race corroded causing excessive noise.			
P06773	08210000	Electrical System Alternator Pulley	1974 Lincoln Continental	51,781	098944004
		Pulley broken.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06745C	08500000	Electrical System-Ignition Rotor	1973 Chrysler New Yorker	64,188	001230005
		Short in ignition system			
P06745B	08500000	Electrical System-Ignition Cap	1973 Chrysler New Yorker	64,188	001230005
		Short in ignition system.			
P06745A	08500000	Electrical System-Ignition Wires	1973 Chrysler New Yorker	64,188	001230005
		Short in ignition system			
P06767	08510000	Electrical System-Ignition Pos. Distributor Connector	19-- Ford Pinto	-----	006810052
		Connector came loose causing vehicle to stall.			
P06751	08530000	Elect.System Ignition Wiring, Primary & Second Cable	1976 American Motors Pacer	54,664	067501001
		Internal Short			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96818	08540000	Elec. System Ignition Electronic Cont. Unit Amplifier Module	19-- Ford Unknown	-----	000000000
		Internal circuits of unit may cause stalling.			
P06753	08540000	Elec. Sys. Ignition, Electronic Control Unit Control Unit	1976 Ford Ranchero	30,000	067501001
		Internal Short			
P06752	08540000	Elec. Sys. Ignition, Electronic Control Unit Control Unit	1976 American Motors Pacer	54,664	067501001
		Internal Short			
P06768	08550000	Elec. Syst. Ignition - Other Parts Distributor	1974 Ford Mustang II	61,031	012540026
		Broken internally			
P06767B	08550000	Elec. Ign. - Other Part Pos. Distributor Connector	19-- Ford Unknown	-----	006810052
		Connector came loose causing car to stall			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06767C	08550000	Ele. Ign. Other Part Pos. Distributor Connector	19-- Ford Unknown	-----	006810052
		Connector came loose causing car to stall.			
P86806B	08550000	Elec. Sys. Ingition - Other Part Spark Advance Unit	1975 AMC Hornet	-----	F17604203
		Poor quality diaphram material used in spark advance unit. Had to be replaced.			
P86806C	08550000	Elec. Sys. Ingition- Other Part Spark Advance Unit	1975 AMC Hornet	-----	F17604203
		Poor quality diaphram material used in spark advance unit. Had to be replaced.			
P86806D	08550000	Elec. Sys. Ingition - Other Part Spark Advance Unit	1975 AMC Matador	-----	F17604203
		Poor quality diaphram material used in spark advance unit. Had to be replaced.			
P86806E	08550000	Elec. Sys. Ingition - Other Part Spark Advance Unit	1975 AMC Matador	----	F17604203
		Poor quality diaphram material used in spark advance unit. Had to be replaced.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86806F	08550000	Elec. Sys. Ingition - Other Part Spark Advance Unit	1975 AMC MAtador	——	F17604203
		Poor quality diaphram material used in spark advance unit. Had to be replaced.			
P86806G	08550000	Elec. Sys. Ignition - Other Part Spark Advance Unit	1975 AMC Matador	——	F17604203
		Poor quality diaphram material used in spark advance unit. Had to be replaced.			
P86806	08550000	Elec. Sys. Ingition - Other Part Spark Advance Unit	1975 AMC Hornet	——	F17604203
		Poor quality diaphram material used in spark advance unit. Had to be replaced.			
P06765	09110000	Swch. Button-Ring-Turn Signal Lights Switch	1972 Ford Torino	56,000	0090405016
		Internal short.			
P06763	09205000	Lamp or Socket - Tail Lights Light Socket	1974 Mercury Comet	44,790	023513001
		Short in ground wire.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96782	11103000	Water-Heater, Dfrstr, Dfgger-Fan Heater Fan Motor	1978 Chevrolet Malibu	-----	F17604203
		Motor Freezes up.			
P86783	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure.			
P86783B	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	----	F60085155
		Heater fan motor failure			
P86783C	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure			
P86783D	11103000	Water-Heater, Dfrstr, Dfggr - Fan Motor Bearings in Heater Motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86783E	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor Heater fan motor failure	1978 Chevrolet Impala	-----	F60085155
P86783F	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor Heater fan motor failure	1978 Chevrolet Impala	-----	F60085155
P86783G	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor Heater fan motor failure	1978 Chevrolet Impala	-----	F60085155
P86783H	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor Heater fan motor failure	1978 Chevrolet Impala	-----	F60085155
P86783I	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor Heater fan motor failure	1978 Chevrolet Impala	-----	F60085155

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86783J	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure			
P86783K	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure			
P86783L	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure			
P86783M	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure			
P86783N	11103000	Water-Heater, Dfrstr, Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Impala	-----	F60085155
		Heater fan motor failure			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86783O	11103000	Water-Heater, Dfrstr-Dfggr-Fan Motor Bearing in heater motor	1978 Chevrolet Impa	-----	F60085155
		Heater fan motor failure			
P86783P	11103000	Water-Heater, Dfrstr,Dfggr-Fan Motor Bearings in heater motor	1978 Chevrolet Malibu	-----	F60085155
		Heater fan motor failure			
P86783Q	11103000	Water-Heater,Dfrstr,Dfggr-Fan Motor Bearing in heater motor	1978 Chevrolet Malibu	-----	F60085155
		Heater fan motor failure			
P06749	11116001	Water-Htr,Dfrstr, Dfggr Valve	1972 Plymouth Fury III	79,500	001230005
		Heater control valve leaks			
P96813	13110000	Structure-Frame & Members Fram e	1977 Dodge B-300 Truck	83,000	060201006
		Steering gear box broke away from frame. Reduction in steering ability			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96814	13110000	Frame & Members, Structure Frame weld behind steering Frame weld right behind steering box is cracked	1976 Ford F250 Pickup	-----	091304174
P86915	13110000	Structure-Frame & Members Frame Frame cracking at steering box	1977 Chevrolet 10 Series Step Van	38,976	019047001

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06879	01160000	Steering column coupling Steering coupler Steering coupler broken.	1974 Ford Thunderbird	59,904	90027012
P96895	01300000	Steering Power Assist R & P Steering Isolator bushings. Bushings wear out.	1978 Ford Mustang II		80407038
P96896	01300000	Steering Power Assist R & P Steering Isolator bushings. Bushings wear out.	1977 Ford Mustang II		80407038
P96897	01300000	Steering Power Assist R & P Steering Isolator Bushings Bushings wear out.	1976 Ford Mustang II		80907038
P86905	01300000	Steering Power Assist P.S. Control Valve Valve retains moisture and freezes all model years.	19-- Ford Granada		19380005

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86904	01300000	Steering power assist P.S. Control valve	19-- Mercury Monarch		19380005
		Valve retains moisture and freezes all model years.			
P06869	01330000	Steering power assist-hose, fluid P.S. hose	19-- Unknown		68521028
		Rubber hose is worn down to center fibers.			
P06827	01330000	Power steering assist hose fluid	1975 Ford Granada	55,332	92103122
		Metal proteetive coil on hose rubbed hole in hose.			
P06859	01530000	Steering linkages-arm, idler and Attaehment. Idler arm.	1972 Ford Country Sedan	34,040	54304055
		Idler arm froze up and tore away from frame.			
P86860	01530000	Steering linkages-arm, idler and Attaehment. Idler arm	19-- Ford Unknown	40,000	54304055
		Idler arm tore away from frame.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86861	01530000	Steering linkages-arm, idler and Attachment, Idler arm	19-- Ford Unknown	42.000	54304055
		Idler arm tore from frame.			
P06875	01530000	Steering linkages-arm, idler and Attachment. Idler arm	1967 Dodge Dart		90027012
		Idler arm wore out.			
P06837	01560000	Steering linkages-tie rod end Tie rod end	1973 Chevrolet Impala	33,664	03242005
		Bar pulled out of socket due to excessive wear.			
P06865	01560000	Steering linkages-tie rod end Tie rod end	1965 Chevrolet Impala		68521028
		Tie rod rusted. Fell off crossing R.R. track.			
P06868	02142000	Suspn.Indp.Ft.Ctrl. Arm upper Ball joint. Upper Ball joint.	1969 Dodge Dart		68521028
		Bolt broke allowing wheel to fall over.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06828	02150000	Suspn.Indp-Ft. Control Arm lower	1974 Fiat 128	31,193	67501001
		Ball joint very loose.			
P06862	02152000	Suspn.Indp.Ft.Ctrl Arm Lower ball joint	1978 GMC Van 2500	11,000	60638110
		Ball joint wore out at low mileage.			
P06848A	02160000	Suspn.Indp.Ft.Spindle-Knuckle, Steering R.F. Spindle	1978 Dodge 300 Custom	12,138	33334156
		Spindle broken at end.			
P06848B	02170000	Suspn.Indp.Ft. Bearing wheel R.F. Wheel bearings	1978 Dodge 300 Custom	12,138	333345156
		Bearing seals damaged.			
P06682	02190000	Suspn.Ind.Ft.-Torsion bar	1976 Dodge Aspen		85021027
		Torsion bar broke in middle with twisting motion.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06878	03230000	Brks. Hydraulic-Master Cyl.	1977 Ford Granada	30,737	90027012
		Internal malfunction.			
P06877	03230000	Brakes Hydr. Master Cylinder	1966 VW S.B.	95,287	90027012
		Internal malfunction. No brakes.			
P06873	03230000	Brakes Hydr. Master Cylinder	1964 Audi Fox	24,985	80903015
		Internal failure. Brake pedal went to floor.			
P06870	03230000	Brakes Hydr. Master Cylinder	1975 Mercedes Benz		00000000
		Internal failure.			
P06854	03230000	Brakes Hydr. Master Cylinder	1974 Ford Galaxie	29,461	19020002
		Internal leak. Loss of brakes.			
P06847	03230000	Brakes Hydr. Master Cylinder	19-- Ford Unknown		P55423105
		Plastic piece is affected by cold weather. Master cylinder fails.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06835	03230000	Brakes Hydr. Master Cylinder	1973 Ford LTD	88,473	19020002
		Cylinder would not hold pressure, no brakes.			
P06834	03230000	Brakes Hydr. Master Cylinder	1978 Ford St Wagon	18,360	19047004
		Internal failure rear half of master cylinder inoperative.			
P06863	03245000	BrakesHydr.-Differnt.-Proportion,Vlv. Brake combination valve	1976 Buick Regal	23,500	84057040
		Internal malfunction. Front brakes would not work.			
P96907	03260000	Rear Brakes (Drum)	1978 Mazda RX-7	2,000	00000000
		Rear drum brakes too small.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06820	03261000	Brks.Hydr.-Shoe and drum wheel cyl. Wheel Cylinder	1970 AMC Hornet	90,000	01230005
		Cylinder leaks causing loss of brakes.			
P06871	03264000	Brks.Hydr.-Shoe and drum system-Drum RR Brake Drum	1972 Dodge Chassis Winabago	26,000	00000000
		Drum broken at mounting holes.			
P06911	03264000	Brks.Hydr.-Shoe and drum system-Drum Rear Brake Drum	1975 Forn Torino	77,824	19047001
		Brake drum cracked.			
P96890	03270000	Brks.Hydr.-Shoe-Disc Brake System Brake Piston	1978 Dodge Aspen	45,000	54301058
		Piston froze in caliper.			
P96890B	03270000	Brks.Hydr.-Shoe-Disc Brake System Brake piston	1978 Dodge Aspen	45,000	54301058
		Piston froze in caliper.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06852B	03270000	Brks.Hydr.-Disc Brake System Brake pistons (R) Pistons rusted on inside.	1970 Dodge Dart	93.245	840570404
P06851B	03270000	Brks.Hydr.-Disc Brake system Brake pistons Pistons rusted on inside.	1970 Dodge Dart	93.245	84057040
P06864	03271000	Brks.Hydr.-Disc-Caliper Disc brake caliper Piston frozen in caliper.	1974 GM 3/4 4x4	72,000	84057040
P06851A	03271000	Brks.Hydr.-Disc-Caliper Disc brake caliper (L) Caliper rusted.	1970 Dodge Dart	93.245	84057040
P06852A	03271000	Brks. Hydr.-Disc-Caliper Disc brake caliper (R) Caliper rusted.	1970 Dodge Dart	93.245	84057040

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86901	03271000	Brks.Hydr.-Disc-Caliper L.F. Brake caliper	1976 Buick Limited	35,548	12601016
		L.F. Disc brake caliper was frozen in out position.			
P06826A	03271000	Brks.Hydr.-Disc-Caliper Caliper piston	1977 Dodge B 200	44,000	033316118
		Piston badly scored.			
P06826C	03272000	Brks.Hydr.-Disc-Pads and shoes Brake pads (2) LF	1977 Dodge B 200	44,000	33316118
		Pads excessively worn.			
P06826B	03272000	Brks.Hydr.-Disc-Pads and shoes Brake pads (2) RF	1977 Dodge B 200	44,000	33316118
		Pads excessively worn.			
P06833	03272000	Brks.Hydr.-Disc-Pads and shoes Pads	1973 Chevrolet Subn Carryall	29,050	12054098
		Lining pulled of rivets.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06833E	03272000	Bkes.Hydr.-Disc-Pads and shoes Pads	1973 Chevrolet Subn Carryall	29,050	12054098
		Lining pulled off rivets.			
P06833A	03272000	Brks.Hydr.-Disc-Pads and shoes Pads	1973 Chevrolet Subn Carryall	29,050	12054098
		Lining pulled off rivets.			
P06836	03272000	Brks.Hydr.-Disc-Pads and shoes Brake pad (1)	1977 Chrysler Cordoba	40,000	55429135
		Pads improperly installed.			
P96893	05140000	Engine flywheel Flywheel	1977 Ford Pinto	42,000	70601002
		Flywheel wore out.			
P06874B	05110000	Engine mounts Motor mount (R)	1970 Chevrolet Concours	66,225	90027012
		Motor mount broken.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06874A	05110000	Engine Mounts Motor mounts (L) Motor mounts broken.	1970 Chevrolet Concours	66,225	90027012
P06825	05150020	Engine Gaskets-Valve Cover Gasket Gasket leaks oil.	1978 Chrysler Cordoba	7,800	01230005
P06881	05150030	Engine valves, Valve train Camshaft gear Plastic gear broke away from metal disc part	1977 Ford Pinto	45,000	30301098
P96894	05150030	Engine valves, Valve train Camshaft Camshaft worn.	1976 Ford Pinto		33316118
P06832	05151000	Engine timing gear and chain Gear Cam gear broken.	1977 Ford Pinto	43,549	30301098

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06849	05230000	Engine cooling system-Pump,water Water pump	1975 Ford Pinto	35,618	30030021
		Damaged by corrosion.			
P06912	05240000	Engine cooling system-Fan Flex Fan	1977 Ford T-Bird	19,487	11204002
		Fan blades cracked.			
P06910	05240000	Engine Cooling system-Fan Fan Blade	1970 Volvo	92,113	97303038
		Fan blade appears to have struck something and broke blade.			
P06850	05260000	Engine Cooling system-Thermostat Thermostat housing	1975 Ford Pinto	35,618	300030021
		Damaged by corrosion.			
P06838	06131000	Fuel lines, Metallic Fuel line	1968 Ford Mustang	16,708	07662053
		Fuel line rusted through and leaked.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06867	06133000	Fuel lines fittings-Metallic Gas lines (metallic)	1974 Plymouth Fury	61,209	68521028
		Line rusted and bent.			
P96891	06210000	Carburetor, Unknown type Accelerator/Carburetor	1977 Datsun R 210	20,000	37209003
		Car accelerated on its own when put in gear.			
P06824	06210000	Carburetor, Unknown type Carburetor kit	1974 Dodge Dart	78,000	01230005
		Carburetor floods over, car stalls, leaks gas.			
P06853	06212000	Carb., Unknown type-Choke Choke spring assembly	1977 Chevrolet Malibu	22,061	19020002
		Spring assem. shorted keeping choke closed, flooded engine and caused fire in air cleaner housing.			
P96886	06212000	Carb., Unknown type-Choke Welsh plug (in carb choke)	1978 Mercury Marquis	14,000	P60521157
		Plug pulls out of choke housing causing excessively rich mixture and over heating.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06666	06213000	Carb., Unknown type-Other part Carb float	1974 Dodge Dart	20,104	68521028
		Float broken. Carb flooded.			
P96887	06240000	Carb., Four-Barrel 4 Barrel carb	1978 Mercury Marquis	9,000	P60521157
		Throttle valves on rear barrel stick open at 30 M.P.H.			
P06843	06430000	Throttle linkage, Accelerator,Flex. Cable	1976 Ford Mustang II	18,769	00000000
		Cable broken.			
P06880	06500000	Exhaust/Crankcase emission Cntrl.Devic. EGR Plate	1973 Ford Mustang	63,921	90027012
		Badly corroded. Shop states rough idle.			
P06844	06500000	Exhaust/Crankcase Emmision Cntrl.Devic. EGR Plate	1973 Ford Station Wagon	78,038	33316118
		Plate corroded.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96885	06651000	Converter Catalytic converter	1977 MG	23,000	67501001
		Converter overheats.			
P96900B	06651000	Converter Catalytic converter	1976 Cadillac	22,000	18018143
		Engine backfired, insides of converter blew out exhaust.			
P06876	07140000	Power Trn. Clutch asm.-Crosshaft,Pivot Clutch pivot arm	1970 Volvo 145		90027012
		Pivot arm broke at end.			
P06883	07230000	Pwr.Trn.Trns.,Auto.-Lvr. & Link,Col.Shift Shift linkage bellcrank	1978 AMC Concord	6,325	F06106103
		Bolt broken. Linkage loose, won't start in park.			
P96888	07310000	Pwr.Trn.Trns.Auto-Indicat,lever-gear Gear selector lever	19-- Ford LTD Police		F06108106
		Pops from park to reverse			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96892	08230000	Electrical system starter Starter	1977 Ford Pinto	42,000	70601002
		Starter wore out.			
P06823	08230000	Electrical system starter Starter end plate	1973 Chrysler Newport	63,000	01230005
		Starter locked up.			
P06822	08500000	Electrical system ignition Dist. cap	1973 Oldsmobile	54,000	01230005
		Short in dist cap and rotor.			
P06829B	08500000	Electrical system ignition Rotor	1974 Mazda RX-7	45,732	67501001
		Rotor defective.			
P06829A	08500000	Electrical system ignition Dist. cap	1974 Mazda RX-7	45,732	67501001
		Distibutor cap defective.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06821	08530000	Elec.Sys.Ign.-Wiring,Prim. and Secon. Ignition wire	1978 Chrysler Cordoba	8,500	01230005
		Short in wires.			
P06830	08540000	Elec.Sys.Ign.-Electronic Cntrl. unit Mod	1976 Chevrolet Caprice	41,000	67501001
		Internal failure.			
P86842	08550000	Elec.Sys.Ign.-Other part Pole piece	1976 Oldsmobile Cutlass	32,000	55429135
		Leads broken on pole piece.			
P86841	08550000	Elec.Sys.Ign.-Other part Pole piece	1976 Oldsmobile Cutlass	29,000	55429135
		Leads broken on pole piece.			
P06840	08550000	Elec.Sys.Ign.-Other part Pole piece	1976 Oldsmobile Cutlass	24,000	55429135
		Leads broken on pole piece.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06839	08550000	Elec.Sys.Ign.-Other part Pole piece Leads broken on pole piece.	1976 Oldsmobile Cutlass	41,000	055429135
P96900A	08550000	Elec.Sys.Ign.-Other part Coil contacts Coil wire shorts out.	1976 Cadillac	22,000	18018143
P96899	08550000	Elec.Sys.Ign.-Other part Coil contact Coil shorts out internally.	1977 Oldsmobile Delta 88	20,000	18018143
P96898	08550000	Elec.Sys.Ign.-Other part Coil contacts Coil wire shorts out internally.	19-- Chevrolet C-10 Truck		18018143
P06872	08550000	Elec.Sys.Ign.-Other part Dual ballast resistor No visual defects. Shop states no ignition.	1977 Plymouth Volare Wagon	28,441	97405004

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06845	09102000	Swch-Button-Ring-Head Lights Headlight switch	19-- Toyota Corona	12,438	33316118
		Plastic switch broken.			
P86903	09110000	Swch-Button-Ring-Turn signal Lights Turn signal handle	19-- Ford Granada		19380005
		Turn signal handle breaks easily.			
P86902	09110000	Swch-Button-Ring-Turn signal Lights Turn signal handle	19-- Mercury Monarch		19380005
		Turn signal handle breaks easily.			
P06858	09110000	Swch-Button-Ring-Turn signal Lights Signal switch	1971 Ford Ranchero	65,277	99206096
		No signals.			
P06857	09110000	Swch-Button-Ring-Turn signal Lights Signal switch	1972 Ford Galaxie		99206096
		No signal or brake lights.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06856	09110000	Swch-Button-Ring-Turn signal lights Signal switch	1974 Ford T-Bird	51,539	99206096
		No signals.			
P06855	09110000	Swch-Button-Ring-Turn signal lights Signal switch	1969 Ford F-250		99206096
		No right rear brake or signal.			
P06831	10315000	Visual Systems windshield wiper blade Wiper blade refill	1976 MGB	33,086	67501001
		Rubber seperated from backing.			
P86884	11100000	Water-Heater,Defroster,Defogger Heater design	1979 Ford LTD		054449115
		Heater causes frost to from on inside of windshield.			
P96907B	13000000	Structure Rear end design	1978 Mazda RX-7	2,000	00000000
		Rear end too light. Results in spin-outs at low M.P.H. Totales Vehicle.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86846	15300000	Equipment-Speed control Cruise control	1973 Lincoln Mark IV	51,000	33316118

Will not disengage with brake application or press off button.

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06914	01160000	Steering Column Coupling Coupling	1971 Mercury Capri	104,845	90027012
		Coupling starting to fracture; excess play in steering.			
P06951	01160000	Steering Column Coupling Steering Colm. Flex Coupling	1961 Cadillac Fleetwood 60 Special	82,115	94110116
		Coupling worn. Shop states excessive play in steering.			
P06946	01213000	Manual Steering Shaft Pitman Arm	1969 Dodge Dart	101,970	90027012
		Pitman arm broken			
P06959	01232000	Unknown Type Steering Steering Sector	1969 Ford Bronco	97,454	97303038
		Sector gears worn. Bearing ring broken.			
P06931	01530000	Steering Linkages - Arm, Idler & Attachments Idler Arm	1972 Ford Wagon	70,036	60609104
		Idler arm frozen, ripped from mounting.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06957	01590000	Steering Linkages - Other Steering Stabilizer	1977 Chevrolet K-20	15,000	46327016
		Leaks.			
P06960A	02113000	Rt. Ft. Coil Spring	1978 Dodge Custom P.U.	2,106	68510002
		Spring broken.			
P06960B	02110000	Rt. Ft. Spring Bumper	1978 Dodge Custom P.U.	2,106	68510002
		Spring bumper chewed up.			
P06968	02113000	Suspn. Indp. Ft. Attach. Mech. Coil Spring L.F.	1978 Dodge $\frac{1}{2}$ ton	14,816	90027012
		Spring broken.			
P06924	02140000	Susp. Indp. Ft. Control Arm, Upper Control Arm	1968 Plymouth Valant	89,426	04104003
		Control arm rusted away and broke.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06941	02150000	Suspn. Indp. Ft. Control Arm Lower Control Arm	1974 Dodge Royal Monaco	65,965	89104010
		Lower control arm cracked.			
P06926	02152000	Supn. Indp. Ft. Ctrl Arm, Lower Ball Joint	1976 Chevrolet Malibu Classic	13,971	30341086
		Ball joint broken.			
P06936	02152000	Suspn. Indp. Ft. Ctrl. Arm, Lower Ball Joint	1976 Buick Skyhawk	49,048	70601009
		Ball joint pulled apart, front end collapsed.			
P86799	02700000	Tires Uniroyal Tires	1977 Chevrolet Impala SW	24,000	F60085155
		Tire developed tread separation.			
P86799B	02700000	Tires Uniroyal Tire	1977 Chevrolet Impala S. W.	24,000	F60085155
		Tire developed slow leak and tread separation.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86799C	02700000	Tires Uniroyal Tire	1977 Chevrolet Impala S. W.	24,000	F60085155
		Tire developed tread separation and was out of round.			
P86930	02730000	Tires - Ply Tire	1976 Oldsmobile Cutlass	25,270	60609104
		Ply separated, causing bubble, or blister.			
P06920	03230000	Brks. Hydraulic Master Cylinder	1974 Datsun B210	----	90027012
		Internal failure.			
P06925	03230000	Brks. Hydraulic Master Cylinder	19--	----	90027012
		Internal Malfunction.			
P06928	03230000	Brks. Hydraulic Master Cylinder	1969 Ford Mustang	72,485	90027012
		Leak.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06944	03230000	Brks. Hydraulic Master Cylinder	1976 Plymouth Volare	----	14607007
		Internal malfunction, check valve, no brakes.			
P06945	03230000	Brks. Hydraulic Master Cylinder	1976 Volkswagen Rabbit	45,320	90027012
		Internal Malfunction, check valve			
P06953	03230000	Brks. Hydraulic Master Cly. Cover Gasket	1979 Oldsmobile 98 Regency Deisel	12,000	46327016
		No visible defect. Shop states oil in one side of master cylinder.			
P06958	03230000	Brks. Hydraulic Master Cylinder	1973 Ford Mustang	57,591	19020002
		Brake pedal goes to floor on light braking.			
P06790	03241000	Brks. Hydraulic-Lines, Metallic Brake Lines	1978 Pontiac Phoenix	3,593	336 12002
		Brake Lines corroded.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06943A	03242000	Brks. Hydraulic, Lines, Hose Hose	1975 Plymouth Duster	66,451	14607007
		Hose cracked at both ends, at union with metal ends.			
P06943B	03242000	Brks. Hydraulic,Lines, Hose Hose	1975 Plymouth Duster	66,451	14607007
		Hose cracked at both ends, at union with metal ends.			
P86793A	03264000	Brks. Hydr-Shoe & Drum System Brake Drum	1970 Chevrolet Full Size Sedan	----	19560055
		Brake drum worn beyond resurfacing.			
P86793B	03262000	Brks. Hydr-Shoe & Drum System Brake Shoes	1970 Chevrolet Full Size Sedan	----	19560055
		Brake shoes worn to bare steel.			
P86784A	03271000	Brks. Hydr-Shoe-Disc Brake System L. F. Disc Caliper	1975 Plymouth Duster	36,533	12601016
		Left front caliper frozen.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P6784B	03272000	Brks. Hydra. Disc-Pads & Shoes Disc Pads	1975 Plymouth Duster	36,533	12601016
		Disc pads damaged from frozen caliper.			
P6784C	02170000	Suspn. Indp. Ft. Bearing Wheel Bearing	1975 Plymouth Duster	36,533	12601016
		Bearings replaced.			
P6784D	03270000	Brks. Hydr. Shoe-Disc Brake Caliper Piston	1975 Plymouth Duster	36,533	12601016
		Caliper piston replaced.			
P86794A	03271000	Brks. Hydra. Disc Caliper Caliper (R. F.)	1971 Chrysler Newport	27,907	12601016
		Right front caliper frozen.			
P86794B	03270000	Brks. Hydra-Shoe-Disc Brake System R. F. Caliper piston	1971 Chrysler Newport	27,907	12601016
		Piston rusted and pitted.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96795A	03271000	Brks. Hydra-Disc-Caliper Brake Caliper (R)	1977 Dodge Aspen	-----	12054098
		Piston froze in caliper.			
P96795B	03270000	Brks. Hydr-Shoe-Disc Brake System Caliper Piston (R)	1977 Dodge Aspen	----	12054098
		Piston froze in caliper.			
P86933	03271000	Brks. Hydra-Disc-Caliper Pistons	1976 Chrysler Newport	30,000	60609104
		Pistons frozen in caliper.			
P06922	05110000	Engine Mounts Engine Mount	----	----	90027012
		Engine mount broken, engine not secured.			
P06923	05110000	Engine Mounts Engine Mount	----	----	90027012
		Mount broken, engine, engine not secured.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06932	05110000	Engine Mounts. Mount	1973 Chevrolet Impala	43,000	51108008
		Motor mount broken.			
P06948	05110000	Engine Mounts Engine Mount	1972 Oldsmobile 98	52,154	14607007
		Mount cracked, allowing engine to lift.			
P06952	05150000	Engine- Other Parts Engine head	1976 Datsun B210	46,850	94110116
		Exhaust guides out on numbers 3, 4, 2. Intake valve seat out on number 4, 2.			
P06927	05150030	Engine Valves, Valve Train Rocker Arm	1973 Ford Mustang II	36,000	04104003
		Improper lubrication rocker worn.			
P96787	05230000	Engine Cooling System Water Pump	1975 Ford Mustang II	42,000	74120030
		Seal in pump went bad.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96788	05230000	Engine Cooling System Water Pump	1974 Ford Mustang II	43,000	74120030
		Seal in pump went bad.			
P96789	05230000	Engine Cooling System Water Pump	1975 Ford Pinto	46,000	74120030
		Seal in pump went bad.			
P96786	05230000	Engine Cooling System Water Pump	1974 Ford Mustang II, Mach I	----	74120030
		Seal in pump went bad.			
P06942B	05240000	Engine Cooling System Fan	1976 Plymouth Fury	34,430	75701037
		Blades cracked.			
P06942	05240000	Engine Cooling System Fan	1976 Plymouth Fury	34,430	75701037
		Blades cracked.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86790A	06113000	Fuel Tank Assembly Gas Tank	1978 Pontiac Phoenix	3,593	33612002
		Gas tank badly rusted.			
P86796	06113000	Fuel Tank Assembly Gas Tank	1975 AMC Pacer	40,524	90027012
		Gas tank had 2 inch crack on top. Tank was replaced.			
P06917	06120000	Fuel Emission Control EGR Plate	1973 Ford SW	54,879	90027012
		EGR plate corroded.			
P06921	06120000	Fuel Emission Control EGR Plate	1973 Ford Mustang	47,000	04104003
		EGR plate eaten away causing vacuum leak.			
P86790E	06131000	Fuel Lines, Matallic Gas Lines	1978 Pontiac Phoenix	3,593	33612002
		Gas lines corroded.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06939	06136000	Fuel Pump Fuel Pump	1977 Ford Granada	17,000	083706016
		Bottom half of fuel pump loose, causing gas leak.			
P06939B	06136000	Fuel Pump Fuel Pump Plugs	1977 Ford Granada	17,000	83706016
		Plugs broken causing leak.			
P06954	06136000	Fuel Pump Fuel Pump	1977 Chevrolet K20 Pick-Up	29,000	46327016
		Pump leaks at seam.			
P06929	06213000	Carburetor, Unk. Type - Other Part Float	----	----	90027012
		Float broken.			
P86791A	06240000	Carburetor, Four-Barrel Secondary Throttle Valves	1978 Mercury Marquis SW	9,000	P60521157
		Secondary throttle valves stick open.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P86792	06240000	Carburetor - Four-Barrel Secondary Throttle Valves	1978 Mercury Marquis SW	15,000	P60521157
		Secondary throttle valves stick open.			
P86791B	06243000	Carburetor, Four-Barrel - Other Part Carb. Welsh Plug	1978 Mercury Marquis SW	9,000	P60521157
		Welsh plug fell out. Caused lack of power and catalytic convertors to overheat			
P86785	06400000	Throttle Linkages & Control Throttle Linkage	1969 Opel Opel GT	110,663	90027012
		Weld that holds throttle bracket to firewall broke.			
P06915	06430000	Throttle Linkage, Accelerator Flexible Cable	1972 MG B	49,544	90027012
		Cable wires broken causing cable to stick in housing.			
P06937	06450000	Thrtl. Linkg. & Ctrl. Solenoid, Vlvs. Swch Choke Pull Off	1976 Chevrolet Impala	20,257	19805002
		Choke pulloff, malfunction when cold.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06940	06500000	Exhaust/Crankcase Emission Ctrl. Devices EGR Valve	1977 Ford LTD	20,050	43614003
		Diaphram broken.			
P86791C	06651000	Converter Catalytic Converter	1978 Mercury Marquis SW	9,000	P60521157
		Carburetor welch plug fell out causing converters to overheat.			
P06918	07120000	Power Train Clutch Asm. Linkage Flexible Cable	1971 Volkswagen Bus	12,195	90027012
		Cable end fastner broken.			
P06938	07350000	Pwr. Trn. Trns. Auto-Swch-Solenoid, Shift Vacuum Manifold	1976 Ford Granada	32,102	19380005
		Manifold leaks, vacuum			
P86790C	07420000	Pwr. Trn. Driv. Shft-Chain, Propeler Drive Shaft	1978 Pontiac Phoenix	3,593	33612002
		Drive shaft corroded.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06934	07430000	Pwr. Train Driveline Brkt. Bearing	1976 Ford Pickup	70,000	51108008
		Bearing frozen.			
P86790	07450000	Pwr. Train Driveline-Differential Unit Rear End Housing	1978 Pontiac Phoenix	3,593	33612002
		Rear end housing corroded.			
P06955	07450000	Pwr. Trn. Driveline - Differential Differential Bolts	1974 Olds Unknown	39,000	46327016
		Bolts broken. Shop has seen same problem on another vehicle.			
P06949	07462000	Pwr. Trn, Axle Assembly - Shaft, Axle Right Drive Axel	1975 Cadillac El Dorado	55,273	94110116
		Axle worn. Shop states total fracture. Disassociation of bonding compound between axle halves.			
P06916	03540000	Elec. Sys Ignition, Electronic Ctrl. Unit Rotor	1978 Chevrolet Nova	19,080	90027012
		Short.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06919	08540000	Elec. Sys. Ignition - Electronic Ctrl Unit Pickup Coil	1976 Cadillac Deville	32,000	18018143
		Wire broken on pickup coil causing engine to miss.			
P06950	08540000	Elec. Sys. Ignition-Electronic Ctrol. Unit Electronic Module	1977 Ford LTD Squire	18,792	94110116
		No visible defects. Shop states internal damage, unit inoperative.			
P06956	08550000	Elec. Sys. Ignition - Other Part Breaker Points Assembly	1973 Unknown	49,000	46327016
		Coil spring on points broken. Shop has seen 3 similar occurrences, all delco.			
P06961	08550000	Elec. Sys. Ignition- Other Part Ign. Advance Unit	1975 Triumph Spitfire	-----	33316118
		Unit inoperative. Car stops when hot.			
P06962	08550000	Elec. Sys. Ignition- Other Part Ign. Advance Unit	1975 Triumph Spitfire	----	33316118
		Unit inoperative. Car stops when hot.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06963	08550000	Elec. Sys. Ignition - Other Part Ign. Advance Unit	1976 MG MGB	----	33316118
		Unit inoperative. Car stops when hot.			
P06964	08550000	Elec. Sys. Ignition - Other Part Ign. Advance Unit	1976 Triumph TR-7	----	33316118
		Unit inoperative. Car stalls when hot.			
P06965	08550000	Elec. Sys. Ignition - Other Part Ign. Advance Unit	1975 MG MGB	-----	33316118
		Unit inoperative. Car stops when hot.			
P06966	08550000	Elec. Sys. Ignition - Other Part Ignition Amp.	1975 Jaguar XKE	-----	33316118
		Unit inoperative. Car stops when hot.			
P06935	09102000	Swch. Button-Ring Head Lights Switch	1973 Mercury Marquis	33,000	51108008
		Internal Short.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06947	09202000	Lamp or Socket - Head Lights Adjust Screws	1976 Cadillac Seville	33,044	90027012
		Adjustment screws broken.			
P06798	09110000	Swch-Button-Ring-Turn Signal Lights Handle Switch	1976 Chevrolet Van	23,000	51108008
		Switch Handle Broken.			
P06967	12311000	Tracks & Anchors - Front Seat, Manual Adjust. Driver's Seat Recline Mech.	1971 Datsun 510	97,515	90027012
		Reclining mechanism broke.			
P86790	13110000	Structure-Frame & Members Floor Board	1978 Pontiac Phoenix	3,593	33612002
		Floor Board rusted.			
P86797	15300000	Equipment - Speed Control Cruise Control Wire	1978 Buick La Sabre	----	80903065
		Cruise Control wire broke causing short.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06969	01300000	Steering Power Assist Control Valve	1976 Dodge Aspen	30,000	01749012
		Internal Malfunction .			
P06970	01530000	Steering Linkages - Arm, Idler and Attachments Idler Arm	1976 Cadillac Seville	17,000	08723101
		Idler Arm loose.			
P96971	02130000	Susp. Ind. Ft. Control Arm, Unknown Type Pivot Bar Support Plate	1976 Plymouth Volare	-------	07450150
		Pivot Bar Support Plates Could Break. Fatigue and Failure When Exposed to Heavy Stress.			
P6972	02130000	Susp. Ind. Ft. Control Arm, Unknown Type Pivot B ar Support Plate	1976 Dodge Aspen	-------	07450150
		Pivot Bar Support Plates Could Break. Fatigue and Failure When Exposed to Heavy Stress.			
P06973	02150000	Suspn. Ind. Ft. Control Arm, Lower Control Arm	1970 Ford Maverick	58,000	13901005
		Control Arm and Frame Rusted Out and Seperated.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06974	02152000	Susp. Ind. Ft. Control Arm, Lower Ball Joint Ball Joint	1975 Chevrolet Vega Kammback	53,000	19805002
		Ball Broke Out of Socket, Loss of Control.			
P06975	02152000	Susp. Ind. Ft. Control Arm, Lower Ball Joint Ball Joint	1972 Dodge Van, Tradesman	--------	089104010
		Lower Ball Joint Broken.			
P96976	02160000	Susp. Ind. Ft. Spindle - Knuckle, Steering Front End, Spindle	1975 GM -------	---------	60609104
		Can't Allign Front End. Thinks Spindle May Be Bent.			
P96977	02611000	Wheels, Rim Base Wheel	1978 Chevrolet Caprice Classic	26,000	78701089
		Rim Base Weld Broke. Wheel Will Not Hold Air.			
P86978	02611000	Wheels, Rim Base Wheel	1978-79 Ford 9000	15,000	D54449115
		Rear Wheels Break at Flange.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96979	02170000	Susp. Ind. Ft. Bearing Wheel L.F. Wheel Bearing	1978 Chevrolet Camaro Z28	12,000	64133134
		Outer Bearing Disintegrated. Minor Spindle Damage Occured.			
P86980	03224000	Brks. Hydrallic, Power Assist, Booster Power Booster Vacuum Line	1975 Chevrolet Nova	78,000	F30316139
		Vacuum Line From Power Booster to Intake Manifold Clogs with Carbon. Loss of Power Assist to Brakes.			
P06981	03230000	Brks. Hydraulic, Master Cylinder Master Cyl inder	----------	---------	00000000
		Internal Malfunction Causing Loss of Brakes.			
P96982	03230000	Brks. Hydraulic, Master Cylinder Master Cylinder	1978 Lincoln Continental	----------	85021427
		Rubber Seal Expanded in Cylinder Causing Loss of Pressure. Foreign Substance Present in Brake Fluid.			
P06805A	03242000	Brks. Hydraulic Lines, Hose, Non-Metallic Brake Hoses	1969 Buick Skylark	71,271	54130001
		Brake Hose Cracked. Leaked Fluid.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06805B	03242000	Brks. Hydraulic Lines, Hose, Non-Metallic Brake Hose	1969 Buick Skylark	71,271	54130001
		Brake Hose Cracked. Leaked Fluid.			
P06983	03242000	Brks. Hydraulic Brake Hose	1970 Buick Skylark	71,695	54130001
		Brake Hose Cracked. Leaked Fluid.			
P06984A	03242000	Brks. Hydraulic Lines, Hose, Non-Metallic Brake Hose	1973 Dodge Swinger	42,036	04104003
		Hose Cracked at Union with Metal Connector.			
P06984B	03242000	Brks. Hydraulic Lines, Hose, Non-Metallic Brake Hose	1973 Dodge Swinger	42,036	04104003
		Hose Broken and Leaking.			
P06985	03242000	Brks. Hydraulic Lines, Hose, Non-Metallic Brake Hose	1977 Plymouth Volare	58,321	F53702100
		Hose Cracked at Union. Leaking, Loss of Front Brakes.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06986	03245000	Brks. Hydraulic, Differential, Proportion Valve Combination Valve	1977 Chevrolet Caprice	35,000	84057040
		Internal Failure.			
P986987	03245000	Brks. Hydraulic, Differential, Proportion Valve Combination Valve	1971-78 GMC	---------	84057040
		Valve Sticks to One Side of Inner Valve Body. Only OneSet of Brakes Work Front or Rear.			
P06809A	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes	19-- Volkswagon Type I	< 6,000	55416047
		Excessive Wear. Brakes Pull.			
P06809B	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes	19-- Volkswagen Type I	< 6,000	55416047
		Excessive Wear. Brakes Pull.			
P06810A	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes	19-- Volkswagen Type I	< 6,000	55416047
		Excessive Wear. Brakes Pull.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06810B	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes Excessive Wear. Brakes Pull.	19-- Volkswagen Type 1	< 6,000	55416047
P06811A	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes Excessive Wear. Brakes Pull.	19-- Volkswagen Type 1	< 6,000	55416047
P06811B	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes Excessive Wear. Brakes Pull.	19-- Volkswagen Type 1	< 6,000	55416047
P06988A	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes Excessive Wear. Brakes Pull.	19-- Volkswagen Type 1	< 6,000	55416047
P06988B	03262000	Brks. Hydraulic Shoe and Drum System Brake Shoes Excessive Wear. Brakes Pull.	19-- Volkswagen Type 1	< 6,000	55416047

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P96989	03271000	Brks. Hydraulic, Disc, Caliper Brake Caliper	1977 Dodge Aspen	24,000	0740150
		Piston Freezes Up In Caliper.			
P06990A	03271000	Brks. Hydraulic, Disc, Caliper Broke Caliper Pistons	1975 Mercury Monorch	33,000	04104003
		Caliper Piston Frozen Due To Rust.			
P06990B	03271000	Brks. Hydraulic, Disc, Caliper Caliper Piston	1975 Mercury Monorch	33,000	04104003
		Caliper Piston Frozen Due to Rust.			
P06991A	03271000	Brakes Hydraulic, Disc, Caliper Caliper Piston Seal And Boot	----------	----------	00000000
		Caliper Piston Seal and Boot Not Sealing Properly Allowing Piston To Rust and Freeze.			
P06991B	03271000	Brakes Hydraulic, Disc, Caliper Caliper Piston Seal And Boot	----------	----------	00000000
		Caliper Piston Seal and Boot Not Sealing Properly Allowing Piston To Rust and Freeze.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06992A	03271000	Brks. Hydraulic, Disc, Caliper Caliper Bolts	----------	---------	00000000
		Bolts Rusted. Could Not Be Used Again.			
P06992B	03271000	Brks. Hydraulic, Disc, Caliper Caliper Bolts	----------	----------	00000000
		Bolts Rusted. Could Not Be Used Again.			
P06993	03271000	Brks. Hydraulic, Disc, Caliper Piston	----------	----------	000000000
		Piston Rusted and Hole Broken in End.			
P06994	03271000	Brks. Hydraulic, Disc, Caliper Piston	1977 Dodge Aspen	25,319	022180188
		Piston Sticks Causing Pads To Bind Against Rotor.			
P96995A	03272000	Brks. Hydraulic, Disc, Pads and Shoes L.F. Disc Brake Pad	1978 Chevrolet Chevette	21,000	01904029
		Pad Fell Off - Rotor Damaged. Caused Poor Braking.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06996A	03272000	Brks. Hydraulic, Disc, Pads And Shoe Brake Pads	----------	--------	00000000
		Piston Froze in Caliper Causing Excessive Wear On One Pad.			
P06996B	03272000	Brks. Hydraulic, Disc, Pads and Shoe Brake Pads	----------	----------	00000000
		Piston Froze in Caliper Causing Excessive Wear On One Pad.			
P96995B	03273000	Brks. Hydraulic, Disc, Rotor, Disc Hub L.F. Rotor	1978 Chevrolet Chevette	21,000	01904029
		Rotor Damaged When Pad Fell Off.			
P06807A	05110000	Engine Mounts Engine Mount	1972 Chevrolet Impala	62,103	54130001
		Mounts Broken. Allows Engine To Raise Up. Possible Fan Damage To Hoses or Radiator.			
P06807B	05110000	Engine Mounts Engine Mount	1972 Chevrolet Impala	62,103	54130001
		Mounts Broken. Allows Engine to Raise Up. Possible Fan Damage To Hoses or Radiator.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06998	05110000	Engine Mounts Engine Mount	1972 Chevrolet Chevelle	36,435	53405004
		Mount Broken Allowing Engine To Lift.			
P96999	05140000	Engine Flywheel Flywheel	1974 Jaguar XJ6	40,000	92103122
		Rivets Come Loose. Flywheel Moves And Damages Front Pump And Cooling Shroud.			
P07000	05150000	Engine, Other Parts Oil Pump Drive Shaft	1971 Toyota Corona	47,068	67211009
		Key Broke. No Oil Pump Pressure.			
P07001	05150030	Engine Valves, Valve Train Push Rods	1974 American Motors Matador	38,097	53140005
		Vehicle Jumped Time. Valves Opened Against Pistons. Push Rods Bent.			
P97002	05150030	Engine Valve, Valve Train Camshaft	Ford Mustang II	26,000	19401088
		Bad Camshaft Causes Very Poor Acceleration And Power.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P87003	05151000	Engine, Timing Gear and Chain Timing Belt	19-- Fiat 1315	--------	33316118
		Timing Belt Failure.			
P07004	05240000	Engine, Caoling System Fan	1974 Plymouth Valient	87,517	23462064
		One Fan Blade Broke Apart.			
P97005	05240000	Engine, Cooling System Flexible Fan Blade	1970 Ford Mustang Mach I	55,000	04038005
		Fan Blade Broke While Engine Was Running and Tore a Hole Through The Hood.			
P96997	06113000	Fuel Tank Assembly, Tank Fuel Tank	----------	----------	19020002
		Gas Tanks Should Have A Drain Plug Built In To Allow Drainage To Eliminate Excessive Water Build-Up.			
P07046	06115000	Fuel Tank Assembly, Attachments Gas Tank Crash Shield	1975 Ford Pinto Runabout	50,907	74120003
		Melted Where In Contact With Exhaust Pipe.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07006	06132000	Fuel Lines, Hoses, Non-Metallic Hose	1979 Triumph TR 7	21,437	67211009
		Fuel Line Deteriorated and Clogged Line.			
P87007	06136000	Fuel Pump Fuel Pump	1976 Triumph TR7	22,464	087123025
		Intermitent Fuel Leak At Crimped Seal.			
P07008	06200000	Fuel Carburation Float	1974 American Motors Hornet	18,793	53140005
		Float Absorbs Too Much Gas. Becomes Heavy Causing Carburetor To Flood Out And Stall.			
P07009	06210000	Carburetor, Unknown Type Float	1976 Chevrolet Monza	29,394	23513001
		Float Absorbs Too Much Gas. Causes Engine To Flood And Stall.			
P07010	06210000	Carburetor, Unknown Type Float	----------	----------	23513001
		Float Absorbs Too Much Gas. Causes Engine To Flood And Stall.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07011	06210000	Carburetor, Unknown Type Float	----------	----------	23513001
		Float Absorbs Too Much Gas. Causes Engine To Flood And Stall.			
P07012	06210000	Carburetor, Unknown Type Float	----------	----------	23513001
		Float Absorbs Too Much Gas. Causes Engine To Flood And Stall.			
P07013	06210000	Carburetor, Unknown Type Float	----------	----------	23513001
		Float Absorbs Too Much Gas. Causes Engine To Flood and Stall.			
P07014	06210000	Carburetor, Unknown Type Float	----------	----------	23513001
		Float Absorbs Too Much Gas. Causes Engine To Flood And Stall.			
P97015	06213000	Carburetor, Unknown Type, Other Part Carburetor	1975 AMC Pacer	56,000	04038005
		Gas Leaks From Accelerator Pump Into Manifold.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07016	06250000	Carburation, Other Part Choke Pulloff	1975 Chevrolet Impala	19,525	53405004
		Internal Failure.			
P07017	06450000	Thrtl., Lnkg. And Ctrl. Solenoid Choke Pulloff	1976 Chevrolet Nova	60,315	04104003
		Valve Failure Causing Excessive Use Of Gas.			
P07018	06450000	Thrtl., Lnkg. And Ctrl. Solenoid Choke Pulloff	19-- Pontiac Catalina	------	04104003
		Valve Failure Causing Excessive Use Of Gas.			
P07019	06500000	Exhaust/Crankcase Emission Control Devices EGR Plate	1973 Ford Wagon	97,041	54130001
		Burnt Out Causing Vacuum Leak. Engine Will Not Idle.			
P07020	06500000	Exhaust/Crankcase Emission Control Devices EGR Plate	1973 Ford Maverick	46,325	04104003
		EGR Plate Burnt Out Causing Exhaust Leak Resulting in Poor Performance.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07021	06610000	Exhaust System, Manifold, Engine Exhaust Manifold	1970 GMC Pick Up	73,049	76901005
		Manifold Broken.			
P87022	06640000	Exhaust System, Tail Pipe Tail Pipe	1977 Plymouth Fury Coupe	36,712	F53214114
		Tail Pipe Positioned So That Hot Exhaust Gasses Melted Lens To Backup Light.			
P07023	07330000	Pwr. Trn. Trans., Auto, Lvr. And Lnkg. Trans. Selector Lever	1974 Jaguar XJ6	30,000	92103122
		Lever Elongates Through Use. Allows Trans. To Shift By Itself From Park To Reverse With The Engine Running.			
P07024	08210000	Electrical System Alternator, Generator Alternator Bridge	1975 Buick ------	7,567	53405004
		Internal Failure.			
P07025	08400000	Electrical System, Fuse And Fuse Recepticle Fuse Panel	1978 Volkswagen Sirocco	20,000	33316118
		Internal short.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P97026	08500000	Electrical System, Ignition Distributor	1974 AMC --------	----------	23513001
		If Engine Diesels When Shut Off, Gasses Can Enter Distributor And Blow Off Cap.			
P97027	08540000	Electrical System, Ignition, Electronic Control Unit ----- Ford Ignition Amplifier		----------	74120030
		Bad Ignition Amplifier Can Cause Rough Idle and Stalling Out At Any Speed. Most Common In Summer Months.			
P07028	08550000	Electrical System, Ignition, Other Part Vacuum Advance	1971 Volkswagen Type I	87,369	04104003
		Diaphram Ruptured Causing Loss Of Advance And Retard In Distributor.			
P07029	08550000	Electrical System, Ignition, Other Part Vacuum Advance	1975 AMC Hornet	-------	53140005
		Vacuum Advance Leaks.			
P07030	08550000	Electrical System, Ignition, Other Part Vacuum Advance	1975 AMC Hornet	--------	53140005
		Vacuum Advance Leaks.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P06808	09110000	Swch. Button, Ring Turn Signal Lights Switch	1971 Datsun PL 510	19,051	54130001
		Internal Short.			
P87031	09110000	Swch. Button, Ring Turn Signal Lights Turn Signal Switch	1975 MG MGB	27,920	87123025
		Plastic Slide Switch Inside Unit Broke Causing No Headlight Bright Or Dim Changing.			
P06800	10220000	Visual Systems, Mirrors, Rearview, Exterior Mirror	1978 Datsun 310	78	38829023
		Glass Distorted.			
P06801	10220000	Visual Systems, Mirrors, Rearview, Exterior Mirror	1979 Datsun 210	12	38829023
		Glass Distorted.			
P07032	10220000	Visual Systems, Mirrors, Rearview, Exterior Mirror	1979 Datsun B210	07	38829023
		Glass Distorted.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P97033	13100000	Structure, Frame, Members And Body Frame And Body	1975 GMC	23,000	57754008
		20-30% Of Body, Door Panels And Rocker Panels Rusted Out.			
P87034	13110000	Structure, Frame, Members And Body Lower Frame Flange	1977 Dodge B 300 Van	52,000	F85009095
		Steering Gear Mounting Bracket Caused Lower Frame Flange To Crack.			
P87035	13110000	Structure, Frame, Members And Body Frame	1975 Chevrolet Pick Up	-------	13901005
		Frame Corroded Near Cowl.			
P87036	13110000	Structure, Frame, Members And Body Torsion Arm Mount	1970 Plymouth Duster	----------	13901005
		Frame Corroded At The Torsion Arm Mount.			
P87037	13110000	Structure, Frame, Members And Body Frame	1972 Mercury	--------	13901005
		Frame Corroded.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P87038	13110000	Structure, Frame, Members And Body Frame	1968 Pontiac	-------	13901005
		Corroded In Rear Frame Area.			
P87039	13110000	Structure, Frame, Members And Body Frame	1968 Chevrolet	13,000	13901005
		Frame Corroded.			
P87040	13110000	Structure, Frame, Members And Body Frame	1971 International	50,000	13901005
		Frame To Trailer House Hauler Rusted And Cracked.			
P87041	13110000	Structure, Frame, Members And Body Frame	1972 Mercury	63,000	13901005
		Frame Corroded.			
P97042	13110000	Structure, Frame, Members And Body Frame	1976 Dodge Aspen	--------	19020002
		Frame On Right Side Not Welded Properly. One Inch Split In Frame. Caused Front Wheel To Tilt Inwards.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P97043	13110000	Structure, Frame, Members And Body Front Supports	1973 Dodge Polara	72,000	14901136
		Main Supports On Both Sides Are Rusted Out. Was Discovered When Car Was On Lift For Transmission Inspection.			
P87049	13730000	Hood Assembly, Latches Hood Safety Catch	1976 MG Midget Roadster	32,650	67501001
		Safety Catch Is Not Long Enough. Hood Came Op n While Driving 40-45 M.P.H.			
P97045	13730000	Hood Assembly, Latches Hood Release	1971 Dodge	--------	67501001
		Safety Catch Does Not Hold Well.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07071	01160000	Steering Column Coupling Steer Shaft U Joint Bushing Partly Melted	1977 Ford Mustang	31683	45404009
P07123	01200000	Steering Gear Box Steering Gear Steering Gear Broken	1977 Chevrolet 3/4 Pick Up	-----	06114089
P07127	01200000	Steering Gear Box Steering Gear Box Steering Gear Assy Broken	1978 Dodge Van	3636	29405008
P07064	01330000	Steering Power Assist Hose, Fluid Hose Power Steering Hi Pressure Hose Leaking	1972 Chevrolet Caprice	46097	51108008
P07060	01530000	Steering Linkages - Arm, Idler & Att'mnt. Idler Arm Excessive Wear in Bushing	1974 Ford Maverick	19163	14607007
P07061	01530000	Steering Linkages-Arm, Idler & Attchmnt Idler Arm Excessive Wear in Bushings	1974 Ford Maverick	48755	14607007
P07112	01530000	Steering Linkage, Arm, Idler & Attchmnt Idler Arm Bushing Worn Out	1969 Ford Mustang	7272	53405004

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07113	01530000	Steering Linkage-Arm, Idler & Attchmnt Idler Arm Bushing Worn Out	1968 Ford Mustang	26567	53405004
P07046	01560000	Tie Rod End Excessive Wear	1976 Ford F150	25928	15697025
P07059	01560000	Tie Rod End No Grease in socket causing excessive wear & rupture, Lost control	1975 Mercury Montego	80925	030309023
P07062	01560000	Tie Rod End No Grease in Socket, Causing Excessive Wear	1975 Pinto SW	33254	14607007
P07110	01560000	Tie Rod End Tie Rod End & Sleeve Loose	1977 Plymouth Volare	21114	53405004

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P05109	01570000	Steering Linkage- Sleeve Tie Rod Adjustable Tie Rod End & Sleeve Loose	1977 Plymouth Volare	2114	53405004
P87139	02110000	Suspn. Ind Ft Attaching Mechanisms Upper Shaft Pivot Bar Support No Upper Shaft Pivot Bar Support Plates	1978 Plymouth Volare	9782	07450150
P87140	02110000	Suspn Ind Ft Attaching Mechanisms Upper Inner Shaft Support No Upper Inner Shaft Support Bracket	1978 Plymouth Volare	--	07450150
P87141	02110000	Suspn. Indp. Ft. Attaching Mechanisms Upper Inner Shaft Support Upper Support Broke. No upper Support Shaft Installed	1976 Dodge Aspen	30,000	07450150
P07099-A	02111000	Suspn. Indp. Ft. Attach. Mechanisms - Strut Rod McPherson Cartridge Cartridge Frozen	1976 VW Super Beetle	16,662	89104010
P07099-B	02111000	Suspn. Indp. Ft. Attch. Mechanism- Strut Rod Cartridge Frozen	1976 VW Super Beetle	16,662	89104010

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07086	02412000	Suspn. Sgl. Axl R-Leaf Spring Hanger Bracket Shackle Spring Shackle Broke	----- Dodge Van	------	07450150
P97108	02500000	Goodyear Tires O.E. Goodyear Tires have Developed bulges in Sidewalls. 15" polysteel radial blackwalls	----------	----------	F30316139
P07052	03213000	Brakes, Hydraulic Switch Brake Light Switch Brake Light Defective	1967 Ford Mustang	41,158	99206096
P07053	03213000	Brks. Hydraulic - Switch, Brake Light Switch Brake Light Switch Internal Malfunction	1972 Ford	55,320	60651069
P07081	03230000	Brakes Hydraulic Mast. Cyl. Master Cylinder Internal Malfunction	1976 Datsun B210	47,567	90027012

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07082	04240000	Brakes, Hydraulic Master Cyl. Master Cylinder Internal Leak	1977 Datsun	32,000	90027012
P07083	03230000	Brakes Hydraulic Mstr. Cyl. Master Cylinder Internal Leak	1974 Datsun 610	56,696	90027012
P87131	04230000	Brakes, Hydraulic - Master Cyl. Master Cylinder Brake Master Cylinder Failure Resulting in a low Brake Pedal with No Rear Braking.	1974 Audi Fox	71,814	23513001
P07143	04230000	Brakes, Hydraulic - Mstr. Cyl. Master Cylinder Internal Malfunction	Unknown	------	90027001
P97107	04350000	Brakes, Hydraulic - Lines, Fittings Brake Line Battery Acid Corroded Brake Line	1977 Plymouth Volare	28,849	F30316139

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P87106A	04242000	Brakes, Hydraulic-Lines-Hose, Non-metallic Rear Brake Lines	1978 Oldsmobile Cutlass Supreme	35,000	F60085150
		Lines are rubbing on car Frame. Could cause leak and brake loss.			
P87106B	03242000	Brakes, Hydraulic-Lines-Hose Non-metallic Rear Brake Line	1978 Oldsmobile Cutlass Supreme	35,000	04040109
		Lines are rubbing on car frame. Could cause leak and brake loss.			
P07114A	03242000	Brakes, Hydraulic-Lines-Hose Non-metallic Hose	1974 Dodge Dart	36,491	19020002
		Brake Hose Cracked.			
P07114B	03242000	Brakes, Hydraulic Lines, Hose Hose	1974 Dodge Dart	36,491	19020002
		Brake Hoses Cracked.			
P07115A	03242000	Brakes, Hydraulic-Lines, Hoses Brake Hose	1976 Plymouth Duster	47,022	19020002
		Brake Hose Cracked.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07115B	03242000	Brakes, Hydraulic-Lines-Hose Non-metallic Hose Brake Hose Cracked.	1976 Plymouth Duster	47,022	19020002
P97138	03270000	Brakes, Hydraulic-Shoe-Disc Brake System Brake Piston Right piston froze in caliper. Pads worn. Bore full of rust.	1977 Dodge Aspen	24,000	07450150
P07054-A	03271000	Brakes, Hydraulic Disc Caliper Piston Piston Frozen in Caliper.	1977 Dodge Aspen	-----	60201006
P07054-B	03271000	Brakes, Hydraulic Disc Caliper Piston Piston Frozen in Caliper.	1977 Dodge Aspen	------	60201006
P07073A	03271000	Brakes, Hydraulic-Disc-Caliper Rotor Pads worn out, damaged rotor.	1973 Dodge Colt	67,902	89104010

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07080C	03271000	Brks Hydraulic-Disc-Caliper Piston	1977 Dodge Aspen	24667	07450150
		Piston Froze in Caliper.			
P07084	03271000	Brks Hydraulic-Disc-Caliper Boot	1977 Dodge Aspen	24667	07450150
		Boot misaligned allowing piston to become corroded and freeze			
P07085	03271000	Brks Hydraulic-Disc-Caliper Boot	1977 Dodge Aspen	24667	07450150
		Boot misaligned allowing piston to become corroded on right caliper.			
P97133	03271000	Brks Hydraulic-Disc-Caliper R.R. Disc Brake	1977 Cadillac Fleetwood	25000	60201006
		Caliper holes enlarged.			
P07048	03272000	Brks Hydraulic-Disc Pads & Shoes Brake Pads	1977 Ford Granada	26183	84111015
		Excessive Wear.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07073B	03272000	Brks Hydraulic-Disc Pads & Shoes Brake Pads	1973 Dodge Colt	67902	89104010
		Pads Worn Out Causing Damage to Rotor.			
P07080A	03272000	Brks Hydraulic-Disc Pads & Shoes Pads	1977 Dodge Aspen	24667	07450150
		Piston froze in caliper causing right pads to wear excessively.			
P07080B	03272000	Brks Hydraulic-Disc Pads & Shoes Pads	1977 Dodge Aspen	24667	07450150
		Piston froze in right caliper. Repaired both sides.			
P07080D	03271000	Brks Hydraulic-Disc-Caliper Piston	1977 Dodge Aspen	24667	07450150
		Piston froze in caliper right side. Changed both sides.			
P07116	04150000	Prkng Emrg Brk Mech-Linkage & Cables Cable	1975 Chevrolet Impala	74714	19020002
		Emergency brake cable frozen.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07142	04180000	Prkg Emrg Brk-Other Part Brake Adjuster	1977 Chevrolet Chevette Scooter	29000	51108008
		Brake adjuster froze in backing plate. Unable to adjust. Result Broke.			
P97100	05110000	Engine Mounts Right Motot Mount	1977 Volvo 242	30000	33316118
		Mount broke. Engine can lift. Difficult to Shift. Difficult to obtain parts.			
P07144	05110000	Engine Mounts Motor Mount	----------	----------	90027012
		Mount broken.			
P07065	05130000	Engine Pulley Crankshaft Pulley	1977 Chevrolet Chevette	13891	00000000
		Pulley ruptured.			
P07089	05150000	Engine-Other Parts Switch	19-- GM -------	----------	17754007
		Leaks under pressure.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07070	05151000	Engine-Timing Gear & Chain Cam Gear Nylon gear broken.	1974 Ford Mustang II	58749	45404009
P07090	05150030	Engine Valves-Valve Train Rockerkeeper Keeper broken.	1975 Cadillac	34000	17754007
P07055	06120000	Fuel Emission Control EGR Plate EGR Plate Burnt Out.	1974 Ford Thunderbird	45000	07083128
P07056	06120000	Fuel Emission Control EGR Adapter Plate EGR plate burnt out.	1973 Ford Torino	56000	07083128
P07057	06210000	Carburetor-Unknown Type Float Float overloading causing engine to flood and stall.	1974 Oldsmobile Delta 88	13430	07083128

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07058	06210000	Carburetor-Unknown Type Float	1972 Pontiac Gran Prix	---------	07083128
		Float overloading causing engine to flood and stall.			
P07119	06210000	Carburetor-Unknown Type Float	1977 Winnebago 440-3	5790	83651037
		Float overloading with gas.			
P07120	06210000	Carburetor-Unknown Type Float	1978 Dodge 440-3	6983	83651037
		Float absorbs gas, becomes heavy, will not shut off. Engine floods over and stalls.			
P07122	06210000	Carburetor-Unknown Type Float	1975 Chrysler 360	14356	83651037
		Float overloaded with gas. Would not shut off. Engine would flood and stall.			
P07146	06210000	Carburetor-Unknown Type Float	1976 American Motors Pacer	42213	90027012
		Float absorbs fuel. Engine floods.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07147	06210000	Carburetor-Unknown Type Float Float absorbs fuel. Engine floods.	1975 Plymouth Valient	44463	90027012
P07066	06132000	Fuel Lines, Hoses-Non-Metallic Hose Hose cracked.	1978 Ford F250	25518	98270095
P07072	06132000	Fuel Lines, Hoses-Non-Metallic Hose Cracked hose. Leaks gas.	1978 Chevrolet Chevette	12738	01606062
P07121	06230000	Carburetor- Double Float Float absorbs gas. Will not shut off. Engine floods and stalls.	1973 Dodge-------	40440	83651037
P07098	06233000	Carburetor-Double-Other Part Float Float saturated with gas.	1973 Ford Pinto	43678	23513001

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07063	06430000	Throttle Link., Accel., Flexible Cable Cable bent and sticks in housing.	1972 Ford LTD	55320	60651069
P07074	06500000	Exhaust/Crankcase Emiss. Con. Dev. EGR Plate Plate burned through causing vacuum leak.	1973 Mercury Cougar	57904	33316118
P07092	06500000	Exhaust/Crankcase Emiss. Con. Dev. EGR Plate Leaks, vacuum engine miss and run poorly.	1973 Ford Thunderbird	73900	33316118
P07117	06500000	Exhaust/Crankcase Emiss. Con. Dev. EGR Plate EGR plate burnt out. Looses vacuum.	1975 Ford F250	30000	83651037
P07118	06500000	Exhaust/Crankcase Emiss. Con. Dev. EGR Plate EGR Plate burnt out. Looses vacuum.	1973 Mercury	83175	83651037

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07129	06500000	Exhaust/Crankcase Emiss. Con. Dev. EGR Plate	1973 Ford Mustang	94660	95336001
		EGR plate burned out causing noisy exhaust, fumes and rough engine.			
P07126	06610000	Exhaust System-Manifold, Engine Manifold	1970 Ford Custom	---------	89104010
		Manifold broken.			
P07128	06610000	Exhaust System-Manifold, Engine Exhaust Manifold	1973 Ford Thunderbird	90285	95336001
		Cracked and broke in half.			
P07137	06620000	Exhaust System-Pipe, Exhaust Exhaust Pipe	1977 Plymouth Fury	35000	F17120205
		Pipe warped and would not align with manifold.			
P07047	07100000	Power Train-Clutch, Assembly Clutch Master Cylinder	1975 Datsun Pick-up	36380	84111015
		Leaked fluid. Loss of clutch pedal.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P97130	07300000	Power Train-Transmission, Automatic Automatic Transmission	1978 Ford Fairmount	--------	83704012
		1978-79 Fairmounts with 302 V-8 or 6 cyl. and auto. trans. Transmission leaks fluid.			
P97132	07300000	Power Train-Transmission, Automatic Automatic Transmission	19-- Dodge/Plymouth Aspen/Volare	--------	83316118
		Aspen/Volare, reverse gear locks up and kills motor.			
P97134	07300000	Power Train-Transmission, Automatic Automatic Transmission	1977 Oldsmobile Cutlass	---------	60201006
		Transmission does not upshift properly.			
P07148A	07300000	Power Train-Transmission, Automatic Internal Transmission Gear	1976 Subaru D. L. Wagon	41385	00000000
		Transmission malfunction.			
P07148B	07300000	Power Train-Transmission, Automatic Internal Transmission Drum	1976 Subaru D. L. Wagon	41385	00000000
		Transmission malfunction.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07148C	07300000	Power Train-Transmission, Automatic Transmission Band Transmission malfunction, transmission band.	1976 Subaru D. L. Wagon	41,385	00000000
P07148D	07300000	Power Train-Transmission, Automatic Gasket Set Transmission malfunction, gasket set.	1976 Subaru D. L. Wagon	41385	00000000
P97149	07300000	Power Train-Transmission, Automatic Turbo 200 Transmission Compund planetary gear set went out. Transmission inoperative.	1977 Pontiac Bonneville	37000	33316118
P07076	07462000	Power Train Axle Assem.-Shaft, Axle Axle Shaft Bearing seat scored.	1976 Chevrolet Nova	23780	01606062
P07077	07462000	Power Train Axle Assem.-Shaft, Axle Axle Shaft Shaft split.	1971 Ford Pinto	60000	68504010

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P87136	07462000	Power Train Axle Assem.-Shaft, Axle Right Rear Axle	1977 Ford Mustang II	20241	23513067
		Right rear axle shaft split $\frac{1}{4}$ inch wide.			
P07088	08220000	Electrical System-Regulator Regulator	1966 Dodge	57976	17754007
		Regualtor burnt out.			
P07087	08232000	Electrical System-Starter, Solenoid Solenoid	1970 Ford	81327	17754007
		Internal short.			
P87135	08240000	Elect. Syst.-Alt., Reg., Strtr., Other Part Stater Wire	1979 GMC Truck	9207	99206096
		Starter wire too close to maifold. Wire insulation melted and shorted.			
P07095	08500000	Electical Syst.- Ignition Distributor Cap	1970 Pontiac Catalina	60000	01230005
		Broken.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07111	08500000	Electical Syst.-Ignition Vacuum Advance Vacuum advance unit leaks.	1976 Rambler Pacer	42299	53405004
P07124	08500000	Electrical Syst.-Ignition Coil Internal malfunction.	1975 Ford Trk 4 WD	6000	85203098
P07145	08530000	Elect. Syst.-Ignition-Wiring, Prim. & Sec. Ignition Plug Wire Plug wire shorts out. Will not idle.	1978 Chrysler LeBaron	1276	90027012
P07075	08540000	Elecrical Syst.-Ignition-Electronic Con. Unit Electronic Moduale Internal malfunction.	1976 Ford F250	12012	33316118
P07091	08540000	Electrical Syst.-Ignition-Electronic Con. Unit Modaule Internal Short.	1974 Ford Torino	19600	33316118

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07101	08540000	Electrical Syst.-Ignition-Electronic Con. Unit Ignition Amplifier Amplifier inoperative. Car stalled.	1977 Lincoln Continential	15000	F10801145
P07102	08540000	Electrical Syst.-Ignition-Electronic Con. Unit Ignition Amplifier Amplifier inoperative. Car stalled on highway.	1977 Lincoln Town Sedan	15000	F10801145
P07103	08540000	Electrical Syst.-Ignition-Electronic Con. Unit Ignition Amplifier Amplifier inoperative. Car stalled.	1977 Lincoln Continential	15000	F10801145
P07104	08540000	Electrical Syst.-Ignition-Electronic Con. Unit Ignition Amplifier Engine looses power and missfires.	1978 Mercury	16000	D54449115
P07105	08540000	Electrical Syst.-Ignition-Electronic Con. Unit Ignition Amplifier Engine quit running. No spark.	1979 Lincoln	308	D54449115

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07125	08540000	Electrical Syst.-Ignition-Electronic Con. Unit Electronic Module Internal malfunction.	1976 Ford Pinto	54298	85203098
P07067	08550000	Electronic System-Ignition-Other Part Ballast Resistor Resistor burnt out.	19-- Chrysler	--------	23513001
P07068	08550000	Electrical Syst.-Ignition-Other Part Ballist Resistor Resistor burnt out.	1978 Dodge Aspen	14009	23513001
P07069	08550000	Electrical Syst.-Ignition-Other Part Vacuum Advance Internal malfunction.	19-- AMC Gremlin	21192	23513001
P07078	08550000	Electrical Syst.-Ignition-Other Part Pickup Assembly Broken wire.	1978 Buick LaSabre	33000	55429135

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07079	08550000	Electrical Syst.-Ingnition-Other Part Pickup Assembly Broken wire.	1978 Pontiac	24000	55429135
P07049	09110000	Switch-Button-Ring-Turn Sig. Lights Switch Internal short.	1972 Ford LTD	17748	99206096
P07050	09110000	Switch-Button-Ring-Turn Sig. Lights Switch Internal short.	1971 Mercury	46688	99206096
P07051	09110000	Switch-Button-Ring-Turn Sig. Lights Switch Internal short.	19-- Ford	-------	99206096
P07097	09102000	Switch-Button-Ring-Headlights Switch Internal short. Lights go on and off while car is moving.	1976 Dodge Aspen Wagon	28000	01230005

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07044	09112000	Switch-Button-Ring-Instrument Lights Switch Leaks oil.	1970 Pontiac Catalina	60000	01230005
P07093	11303000	Elec. Heater, Dfrstr., Dfggr.-Fan Motor Fan Blower fan broken.	1973 Ford LTD Wagon	56136	01230005
P07096	11116001	Water-Hrt., Dfrster., Dfggr.-Control Valve Valve Leaks.	1967 Cadillac ElDorado	100000	01230005

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07196	01200000	Steering Gear Box Gear Box	1975 Chevrolet Monte Carlo	39170	97405004
		Case broken, fluid leaks out.			
P07183	01223000	Power Steering Shaft-Pitman Pitman Arm	1976 American Matador St. Wgn.	44912	53140005
		Ball joint frozen.			
P07184	01223000	Power Steering Shaft-Pitman Pitman Arm	1974 American Mtrs. Matador	65044	53140005
		Ball joint frozen.			
P87226	01232000	Unkn. Type Steering Shaft-Sector Steering Gear Adjustment	1978 Ford F250	-----	55423002
		Adjustment disconnected from sector shaft resulting in difficult steering.			
P97150	01500000	Steering Linkages Tie Rod End, Drag Link	1978 Ford F100	13733	12601016
		Tie Rod End and Drag link failure.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07182	01530000	Steering Linkages-Arm-Idler & Attach. Idler Arm Bushing frozen.	Unknown	-----	53140005
P07180	02111000	Suspn. Indp. Ft. Attach. Mechanisms Strut Rod. Strut Bushing Bushing worn out.	Unknown	-----	53140005
P07181	02111000	Suspn. Indp. Ft. Attach. Mechanisms Strut Rod. Strut Bushing Bushing worn out.	Unknown	-----	53140005
P07189	02140000	Suspn. Indp. Ft. Control Arm, Upper Control Arm Bushing worn out.	1967 Mercury Cougar	112800	91605014
P07188	02142000	Susp. Indp. Ft. Ctrl. Arm Upper Ball Joint Ball joint worn out and separated.	1968 Pontiac	17164	91605014

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07191	02152000	Suspn. Indp. Ft. Ctrl. Arm, Ball Joint	1967 Mercury Cougar	112800	91605014
		Upper control worn out and caused lower ball joint to break loose.			
P07190	02170000	Suspn. Indp. Ft. - Bearing, Wheel Bearing	1979 Chevrolet C-20 Van	01887	79605020
		Bearing broken.			
P87219 A	02700000	Tires Firestone 721	1978 Ford LTD	24745	07450150
		Tire out of round and developed bulges in sidewall and tread.			
P87219 B	02700000	Tires Firestone 721	1978 Ford LTD	24745	07450150
		Tire out of round and developed bulges in sidewall and tread.			
P87219 C	02700000	Tires Firestone 721	1978 Ford LTD	24745	07450150
		Tire out of round and developed bulges in sidewall and tread.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07216	03230000	Brks. Hydraulic-Mstr. Cyl. Master Cylinder Internal failure.	1970 Chrysler Newport	78105	23513001
P07158 A	03242000	Brks. Hydraulic-Lines-Hose, Non-Metallic Hose Hose broken at union with connector.	1975 Mercury Capri 2800	51364	88001012
P07158 B	03242000	Brks. Hydraulic Lines-Hose, Non-Metallic Hose Hose cracked at union with metal connector.	1975 Mercury Capri 2800	51364	88001012
P07161 A	03242000	Brks. Hydraulic Lines Hose, Non-Metallic Hose Hose cracked at union with connector.	1977 Plymouth Volore	19215	55407066
P07161 B	03242000	Brks. Hydraulic Lines-Hose, Non-Metallic Hose Hose cracked at union with connector.	1977 Plymouth Volore	19215	55407066

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07174 A	03242000	Brks. Hydraulic-Lines-Hoses-Non-Metallic Brake Hose Cracked hose at union.	1975 Dodge B20 Van Sportsman	96000	60076001
P07174 B	03242000	Brks. Hydraulic-Lines-Hose, Non-Metallic Brake Hose Cracked hose at union.	1975 Dodge B20 Van, Sportsman	96000	60076001
P07176	03242000	Brks. Hydraulic-Lines-Hose, Non-Metallic Hose Hose blocked internally.	1965 Plymouth Fury	83111	23513001
P07178 A	03242000	Brks. Hydraulic-Lines-Hose, Non-Metallic Hose Hose cracked at union.	1977 Plymouth Volore	36300	F53702100
P07178 B	03242000	Brks. Hydraulic-Lines-Hose, Non-Metallic Hose Hose cracked at union.	1977 Plymouth Volore	36300	F53702100

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07203 A	03242000	Brks. Hydr. Lines-Hose, Non-Metallic Hose Brake hose cracked.	1974 AMC Gremlin	31641	54130001
P07203 B	03242000	Brks. Hydr. Lines-Hose, Non-Metallic Hose Broken.	1974 AMC Gremlin	31641	54130001
P07204 A	03242000	Brks. Hydr. Lines-Hose, Non-Metallic Hose Broken.	1968 Buick Special	70124	54130001
P07204 B	03242000	Brks. Hydr. Lines-Hose, Non-Metallic Hose Broken.	1968 Buick Special	70124	54130001
P07227	03242000	Brks. Hydr. - Lines-Hose, Non-Metallic R. F. Brake Hose Hose rubbed on tire causing hole.	19-- MG Midget	-----	67501001

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07228 A	03242000	Brks. Hydr. - Lines-Hose. Non-Metallic Front Brake Hose Hose rubbed on tire causing a hole.	1971 MG Midget	-----	67501001
P07228 B	03242000	Brks. Hydr. -Lines-Hose, Non-Metallic Front Brake Hose Hose rubbed on tire causing a hole.	1971 MG Midget	-----	67501001
P07159	03271000	Brks. Hydr. Disc-Caliper Piston Piston chipped.	1977 Dodge Unknown	-----	70601009
P07161 C	03271000	Brks. Hydr.-Disc-Caliper Piston Piston frozen caliper.	1977 Plymouth Volore	19215	55407066
P07161 D	03271000	Brks. Hydr.-Disc-Caliper Piston Seal Boot allowed moisture in and caused piston to stick.	1977 Plymouth Volore	19215	55407066

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07164	03271000	Brks. Hydr.-Disc-Caliper Piston Seals (8) Caliper leaking fluid.	1975 Chevrolet Corvette	30000	01230005
P07165	03271000	Brks. Hydr.-Disc-Caliper Piston Piston froze in caliper.	1977 Dodge Aspen	26165	44312002
P07186 A	03271000	Brks. Hydr.-Disc-Caliper Piston Piston frozen in caliper.	1978 Dodge Van	21000	60609104
P07186 B	03271000	Brks. Hydr.-Disc-Caliper Piston Piston frozen in caliper.	1978 Dodge Van	21000	60609104
P07197	03271000	Brks. Hydr.-Disc-Caliper Piston Piston frozen in caliper	Unknown	-----	44312002

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07198	03271000	Brks. Hydr.-Disc-Caliper Piston Piston frozen in caliper.	Unknown	-----	44312002
P07199	03271000	Brks. Hydr.-Disc-Caliper Piston Piston froze in caliper.	Unknown	-----	44312002
P07200	03271000	Brks. Hydr.-Disc-Caliper Piston Piston froze in caliper.	19--Ford Unknown	-----	44312002
P07201	03271000	Brks. Hydr.-Disc-Caliper Piston Piston froze in caliper.	19--Chrysler Unknown	-----	44312002
P07202	03271000	Brks. Hydr.-Disc-Caliper Piston Piston froze in caliper.	19-- Chrysler Unknown	-----	44132002

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07213 A	03271000	Brks. Hydr.-Disc-Caliper Piston	1976 Dodge B200	82000	04104003
		Pistons corroded, causing piston to freeze in caliper.			
P07213 B	03271000	Brks. Hydr.-Disc-Caliper Piston	1976 Dodge B200	82000	04104003
		Pistons corroded, causing piston to freeze in caliper.			
P87220	03271000	Brks. Hydr.-Disc-Caliper L. F. Disc Brake Caliper	19--Dodge Aspen	-----	03103002
		Shop has seen many Aspens with frozen left front brake calipers. Mileage from 7,000 to 15,000. Same problem with Plymouth Volore.			
P07155	04130000	Prkng. Emrg. Brk. Mech.-Release Mech. Emergency Brake Pedal	1977 Chevrolet Caprice Classic	12647	90027012
		Brake holding ratchet worn out.			
P07177 A	05110000	Engine Mounts Mount	1973 Ford Galaxie	32800	60076001
		Mount separated.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07177 B	05110000	Engine Mounts Engine Mounts Mount separated.	1973 Ford Galaxie	32800	60076001
P07210 A	05110000	Engine Mounts Mounts Separated.	1971 Pontiac Safari	98975	54130001
P07210 B	05110000	Engine Mounts Engine Mount Separated.	1971 Pontiac Safari	98975	54130001
P07217	05151000	Engine-Timing Gear & Chain Timing Belt Teeth missing from belt.	1976 Ford Pinto	61008	23513001
P07185	05240000	Engine Cooling System Fan Fan blade split.	1975 Ford Custom 500	93963	60609104

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07192	05240000	Engine Cooling System Fan Blades torn causing excessive vibration.	1976 Chrysler Cordoba	42349	30313006
P87221	05240000	Engine Cooling System Fan Fan has crack in blade.	1977 Ford Thunderbird	22000	48722088
P07169	05270000	Engine Cooling System-Other Part Water Outlet Leaks water.	1975 Buick Electria	52000	01230005
P07154	06115000	Fuel Tank Assembly-Attachments Cap Vent. cap cracked, leaked gas.	1971 Datsun 510 Sedan	11588	90027012
P07209	06115000	Fuel Tank Assembly - Attachments Hose Hose leaks, gas fumes in car.	1975 Ford LTD Wagon	25211	54130001

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07151 A	06120000	Fuel Emission Control EGR Base Plate	1974 Ford Mustang II	44764	90027012
		EGR base plate cracked.			
P07152 A	06120000	Fuel Emission Control EGR Base Plate	1974 Ford Mustang II	72000	90027012
		EGR base corroded.			
P87222	06120000.	Fuel Emission Control Evaporation Control System	19-- Toyota	-----	67501001
		Evaporation control systems can cause excessive pressure build up in fuel tank.			
P07151 B	06124000	Fuel Emission Control Valve EGR Valve	1974 Ford Mustang II	44764	90027012
		EGR valve broken.			
P07152 B	06124000	Fuel Emission Control Valve EGR Valve	1974 Ford Mustang II	72000	90027012
		EGR valve clogged.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07214	06124000	Fuel Emission Control Valve EGR Valve	1977 Ford Truck	32691	04104003
		Valve leaks, causing valve to be inoperative.			
P07215	06124000	Fuel Emission Control Valve EGR Valve	--- Plymouth	-----	04104003
		Leaks causing loss of vacuum, valve inoperative.			
P07230	06130000	Fuel Pump Fuel Pump	1976 MG Midget	-----	67501001
		Leaks at crimped seal.			
P07231	06130000	Fuel Pump Fuel Pump	1971 VW SB	67325	67501001
		Leaked at crimped joint.			
P07153	06210000	Carburetor Unknown Type Float	1974 Ford Mustang II	73833	90027012
		Float absorbed gas causing engine to flood and stall.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07160	06210000	Carburetor, Unknown Type Carburetor Screw	1977 Buick	19792	70601009
		Screw was not threaded causing carburetor to malfunction.			
P07166	06210000	Carburetor, Unknown Type Repair Kit	1976 Chevrolet Monte Carlo	42669	01230005
		Carburetor malfunction.			
P07172	06210000	Carburetor, Unknown Type Float	1975 Chrysler New Yorker	51938	23513001
		Float absorbs gas causing float to sink. Engine floods and stalls.			
P07175	06210000	Carburetor Unknown Type Float	1974 Ford Mustang	62279	23513001
		Float absorbs gas causing float to sink. Engine floods and stalls.			
P07205	06210000	Carburetor Float	1973 Oldsmobile Cutlass	-----	54130001
		Absorbs fuel causing carburetor to flood over and stall.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07208	06210000	Carburetor - Unknown Type Float	1976 Ford Pinto	26726	54130001
		Float absorbs fuel, causing carburetor to flood and car stalls.			
P07218	06210000	Carburetor - Unknown Type Float	1974 Plymouth Fury	25078	23513001
		Float absorbs fuel, causing engine to flood over and stall.			
P07194	06213000	Carburetor - Unknown Type Choke Pull Off	1971 Plymouth	-----	04104003
		Internal malfunction.			
P07229	06317000	Fuel Injection, Unk. Type - Injector Fuel Injector	19-- VW 411	-----	67501001
		Injector sprayed fuel in engine compartment.			
P07211	06500000	Exhaust/Crankcase Emission Control Devices EGR Plate	1977 Ford E250	32145	04104003
		Exhaust gas burnt out plate causing vacuum leak.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07212	06500000	Exhaust/Crankcase Emission Control Devices EGR Plate	1977 Ford	24015	04104003
		Exhaust gas burnt out plate causing vacuum leak.			
P07157	07212000	Pwr Trn Trans. - 3 spd. Lvr & Lnkg. Shift Lever	1973 Mercury Capri	75216	88001012
		Lever broken.			
P07193	07300000	Power Train Trans Automatic Screen	1975 GMC P.U. Truck	-----	04104003
		Screen torn.			
P07195	07450000	Pwr Trn Driveline - Diffential Unit Diff Case Gears	19-- Unknown	-----	00000000
		Broken gears.			
P07171 B	08210000	Electrical System Alternator-Generator Brushs	1975 Buick Electria	52000	01230005
		Brush worn out.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07170	08220000	Electrical System - Regulator Volt Regulator Voltage regulator burnt out.	1969 Cadillac ElDorado	100000	01230005
P07171 A	08220000	Electrical System Regulator Volt Regulator Internal short.	1975 Buick Electria	52000	01230005
P07156	08500000	Electrical System Ignition Igniter Internal failure.	1975 Toyota Corona	26073	88001012
P07163	08530000	Elect. Sys. Ignition- Wiring, Primary & Second Wires (9) Bad ignition wires.	1974 AMC Unknown	-----	01230005
P07187	08540000	Elec. Sys. Ignition - Electronic Ctrl Unit Module Internal short causing loss of ignition. Car stalls or fails to start.	1976 Ford LTD	40649	706010009

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07168	08550000	Elec. Sys. Ignition - Other Part Distributor Broken gear shaft.	1976 Chevrolet C-10	81207	30341086
P07179	08550000	Elec. Sys. Ignition - Other Part Vacuum Advance Internal malfunction.	1977 Hornet	17248	53140005
P07162	09110000	Swch-Button-Ring-Turn Signal Lights Signal Switch Internal malfunction.	1978 Alpha Romeo Sprit	5296	92103122
P07206	09110000	Swch-Button-Ring-Turn Signal Lights Switch Internal short.	1975 Ford LTD	25211	54130001
P07207	09110000	Swch-Button-Ring-Turn Signal Lights Switch Internal short.	1971 Mercury Montery	62694	54130001

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07173	09204000	Lamp or Socket - Park Lights Socket	1979 Ford Granada	5684	23513001
		Faulty ground circuit.			
P07167	11609000	Air Conditioner - Compressor Clutch	1973 Chrysler New Yorker	70000	01230005
		A/C clutch froze up.			
P87224	13110000	Structure-Frame & Members Under carriage	1969 Fiat 850	60000	33316118
		Under carriage rotted out completely.			
P87225	13110000	Structure-Frame & Members Structure	1973 Fiat 850 Sport Spyder	48369	33316118
		Severe structural rust.			
P97223	13130000	Structure - Body Rocker Panels	1972 Fiat 128 SL	65822	67501001
		Rust on rocker panels, large hole on driver's side.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07280	01213000	Manual Steering Shaft - Pitman Pitman Arm Excessive wear.	1966 Chevrolet Pickup	83607	98223001
P07255	01330000	Steering Power Assist - Hose, Fluid Hose Power steering hose broken.	1968 Ford Galaxie 500	67941	51108008
P87262	01520000	Steering Linkages - Link, Drag - Connection - Drag Link Tierod end loose in socket, caused front tire to wear.	1977 Ford F-150	34135	12601016
P07270	01520000	Steering Linkages - Link, Drag - Connection Center Link Ball joint, excessive play causing steering to be loose.	1978 Ford F-100	13733	12601016
P07238	01540000	Steering Linkages - Rod, Relay - Connecting Relay Rod Ball & Socket separated from rod.	1978 Pontiac Safari	28907	07450150

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07239	01540000	Steering Linkages - Rod, Relay - Connecting Relay Rod Ball & socket separated from rod.	1975 Pontiac Firebird	------	07450150
P87264	07450150	Steering Linkages - Other Support Bracket No support brackets as per recall.	1976 Plymouth Volare	------	07450150
P87265	01590000	Steering Linkages - Other Pivot Bar Bracket No bracket to reinforce pivot bar.	1977 Plymouth Volare	7659	07450150
P07232	02150000	Suspn. Indp. Ft. Control Arm Lower Control Arm Arm worn out at bushing, causing arm to break.	1972 AMC Ambassador	94739	39501021
P07281	02152000	Suspn. Indp. Ft. Ctrl. Arm, Lower Ball Joint Ball Joint Joint frozen causing excessive wear.	1973 Ford Ranchero	66981	98223001

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P87259A	02600000	Wheels Road Wheel	1978 Ford Thunderbird	------	D54449115
		Corrosion can cause 'road wheel' to freeze to hub 1977 & 78 models.			
P87259B	02600000	Wheels Road Wheel	1977 & 1978 Mercury Cougar	------	D54449115
		Corrosion can cause 'road wheel' to freeze to hub. 1977 & 78 models.			
P87260	02700000	Tires Tires	1976 Mercedes 450 SEL	29650	89104010
		Separation of 3 tires			
P87263	02700000	Tires Steel Belted Radial	1978 Ford LTD	24745	07450150
		3 Firestone 721 . Broken Belts.			
P07247	03230000	Brks. Hydraulic Master Cylinder Master Cylinder	1971 Volkswagon 411	41635	67501001
		Internal leak.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07256	03230000	Brks. Hydraulic - Master Cylinder Master Cylinder Internal leak, only 1/2 of system working	1974 VW Dasher	28890	P20910027
P87258	03230000	Brks. Hydraulic - Mstr. Cyl. Master Cylinder Internal leakage. Loss of brakes with no warning.	1976 Audi Fox	64838	P20900027
P07242	03233000	Brks. Hydraulic - Mstr. Cyl. Pistons-Cups. Spring - Master Cylinder Kit Internal malfunction.	1967 MGB - MGB	------	67501001
P07243	03233000	Brks. Hydraulic Mstr Cyl. Pistons-Cups-Spring Master Cylinder Kit Internal leak.	1973 Super Beetle	2461	67501001
P07274	03241000	Brks. Hydraulic Lines Metallic Line Line rusted through.	1968 Ford LTD	------	04104003

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07253	03242000	Brk Hydraulic Lines, Hose non-metallic Hose Hose broken.	1978 Chevrolet Blazer	21000	83651069
P07256	03242000	Brks Hydraulic Lines - Hose Non-Metallic Hose Brake hose broken, loss of brakes.	1966 Mercury Parklane	76097	51108008
P07271A	03242000	Brks Hydraulic Lines - Hose Non-Metallic Hose Hose cracked.	1973 Dodge Dart	29000	04104003
P07271B	03242000	Brks Hydraulic Lines - Hose Non-Metallic Hose Hose cracked.	1973 Dodge Dart	29000	04104003
P07272A	03242000	Brks Hydraulic Lines - Hose - Non-metallic Hose Hose cracked.	1976 Plymouth Volare	44209	04104003

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07272B	03242000	Brks Hydraulic - Lines - Hose Non-Metallic Hose Hose cracked.	1976 Plymouth Volare	44209	04104003
P07273A	03242000	Brks Hydraulic - Lines - Hose Non-Metallic Hose Cracked hose.	1973 Plymouth Scamp	64921	04104003
P07273B	03242000	Brks Hydraulic Lines - Hose Non-Metallic Hose Cracked hose.	1973 Plymouth Scamp	64921	04104003
P07283A	03242000	Brks Hydraulic Lines - Hose Non-Metallic Hose Hose cracked.	1974 Dodge Dart	55479	60659011
P07284A	03242000	Brks Hydraulic Line - Hose - Non-Metallic Hose Hose cracked.	1974 AMC Grimlin	19446	60659011
P07283B	03242000	Brks Hydraulic-Lines-Hoses, Non-Metallic Hose Hose cracked.	1974 Dodge Dart	55479	60659011

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07284B	03242000	Brks Hydraulic Lines - Hose - Non-Metallic Hose Cracked Hose.	1974 AMC Grimlin	19446	60659011
P07289A	03242000	Brks Hydraulic Lines - Hoses - Non-Metallic Hose Hose cracked.	1974 Dodge Dart	31027	60659011
P07289B	03242000	Brks Hydraulic Lines - Hoses - Non-Metallic Hose Hose broken, complete loss of brakes.	1974 Dodge Dart	31027	60659011
P07254	03265000	Brks Hydr. Show & Drum System Other Brake Adjuster Brake adjuster broken	1976 Dodge Cornet	61213	51108008
P87266A	03271000	Brks Hydraulic-Disc-Caliper Brake Caliper (Right) Pulling, shimmy and poor brake reaction. Has seen similar problems on Valiants, Darts and Aspens.	1977 Plymouth Volare	26000	11581115

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P87266B	03271000	Brks Hydraulic - Disc - Caliper Brake Caliper (left) Pulling, shimmy and poor brake reaction.	1977 Plymouth Volare	26000	11581115
P07275	03271000	Brks Hydraulic - Disc - Caliper Piston Piston frozen in caliper.	1976 Chevrolet Truck	------	04104003
P07239A	03272000	Brks Hydraulic Disc - Pads & Shoes Brake Pads Pads caused rotors to be scored	1978 Ford Bronco 4+4	16066	07450150
P07239B	03272000	Brks Hydraulic Disc - Pads & Shoes Brake Pads Pads caused rotors to be scored.	1978 Ford Bronco 4+4	16066	07450150
P07240A	03272000	Brks Hydraulic Disc - Pads & Shoes Pads Pads worn out.	1977 Pontiac Grand Safari	20333	07450150

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07240B	03272000	Brks Hydraulic Disc Pads & Shoe s Pads Pads worn out.	1977 Pontiac Grand Safari	20333	07450150
P07277B	03272000	Brks Hydraulic Disc Pads & Shows Pads Piston froze in caliper, wore out pads.	1977 Buick Skyhawk	23680	89104010
P07277C	03272000	Brks. Hydraulic Disc Pads & Shoes Pads Piston froze in caliper, wore out pads.	1977 Buick Skyhawk	23680	89104010
P07277A	03273000	Brks. Hydraulic Disc - Rotor - Disc Hub Rotor Piston froze in caliper causing pads to remain on rotor at all times.	1977 Buick Skyhawk	23680	089104010
P07279A	05110000	Engine Mounts Engine Mount Mount broken.	1972 Pontiac Catalina	56644	90027012

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07279B	05110000	Engine Mounts Engine Mount Mount broken.	1972 Pontiac Catalina	56644	90027012
P07291	05110000	Engine Mounts Engine Mount Mount broken.	1977 Volvo 242	3320	33316118
P07267	05140000	Engine Flywheel Flywheel Flex plate cracked and separated from flywheel.	1974 Jaguar XJ6	------	92103122
P07268	05140000	Engine Flywheel Flywheel Teeth on flywheel worn.	1971 Ford LTD	40000	46619005
P07278	05140000	Engine Flywheel Flex Plate Bolt pattern ripped completely loose.	1974 Opel Manta	45431	90027012

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07245	05151000	Engine - Timing Gear & Chain Timing Gear Cam gear broken.	1970 Volvo Wagon	105025	67501001
P07279	05240000	Engine Cooling System, Fan Fan Blades broken causing unbalance.	1972 Opel Kadett	62701	98223001
P07244	06136000	Fuel Pump Electric Fuel Pump Internal malfunction.	1969 Autopulse 2100	------	67501005
P07234	06210000	Carburetor Unknown Type Float Float over loads with fuel, float sinks causing engine to flood & stall.	------	------	90027012
P07236	06500000	Exhst/Crankcase Emmission Control Devises EGR Valve EGR valve leaks.	1975 Fort Pinto	------	90027012

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07282	06500000	Exhaust/Crankcase Emmission Control Devices EGR Plate Plate burnt out causing vacuum leak.	1975 Ford F-250	44804	84111015
P07290	06500000	Exhaust/Crankcase Emission Control Devises EGR Plate Plate burnt out causing vacuum leak.	1973 Ford LTD Wagon	57673	60659011
P07292	06500000	Exhaust/Crankcase Emission Control Devises EGR Plate Plate burnt out causing vacuum leak.	1972 Ford Pinto	48761	33316118
P07235	07100000	Power Train Clutch Assembly Clutch Master Cylinder Internal leak.	1976 Datsun 610	41891	90027012
P07246	07100000	Power Train Clutch Assembly Master Cylinder Internal malfunction.	1973 Datsun 510	71123	67501001

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P97257	97110000	Power Train Clutch Assembly - Pedal Clutch Pedal Clutch cable pulled from firewall.	1976 Ford Pinto Runabout	37000	74120030
P07288	07120000	Power Train Clutch Asm-Linkage Flexible Cable Clutch cable broken.	1975 Oldsmobile Starfire	17543	46619005
P07233	07200000	Power Train Transmission, Standard, Manual Shift Fork Shift fork broken.	------	-----	90027012
P07252	07212000	Pwr Train Transm-3 &PD -Lvr & Linkage Floor Shift Cable Cable broken.	1967 Pontiac Gran Prix	49022	46619005
P07250	07310000	Pwr Trn Trns. Auto Indicator - Lever - Gear Shift Rod Selector rod hole enlarged.	1976 Volvo 265 DL	60000	92103122

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07237	07460100	Pwr Trn Axle Assembly Housing, Axle Shaft Axle Shaft Retain Pin Retaining pin broken.	------ Ford Ltd.	------	07450150
P07248	08500000	Electrical System Ignition Distributor Shaft. Vacuum advance malfunction.	1977 Pontiac Phoenix	26000	085268105
P07249	08500000	Electrical System Ignition Distributor Shaft Vacuum advance malfunction.	1977 Chevrolet C 30	45000	085268105
P07251	08540000	Elec. Sys./Ignition - Electronic Control Unit Pick up Coil Wire connection broken.	1976 Oldsmobile Omega	51182	46619005
P07241	09102000	Switch Button Ring Headlights Switch Internal short.	------ MG	------	6750100

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07287	09106000	Switch-Button-Ring-Brake Lights Switch Internal Short.	1971 Plymouth Fury III	82384	99206096
P07285	09110000	Switch Button Ring Turn Signal Lights Switch Internal short.	1970 Ford XL	82949	99206096
P07286	09110000	Switch Button Ring Turn Signal Lights Switch Internal short.	1972 Ford Torino	62658	99206096
P87261	13110000	Structure - Frame & Members K-Frame K-frame cracked.	1977 Plymouth Volare	58000	89104010

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P87305	01200000	Steering Gear Box Steering Gear Box	1979 Dodge Power Wagon 150	6377	08526815
		Steering gear box comes loose.			
P07355	01213000	Manual Steering Shaft-Pitman Pitman Shaft	1976 Ford E100	42000	55423002
		Shaft broken.			
P07323	01222000	Power Steering Shaft-Sector Sector Shaft	1977 Chevrolet Impala	22329	12208084
		Cracked at spline and twisted.			
P07298	01310000	Steering Power Assist Pump Cylinder head	1976 Chrysler Newport	42707	68102007
		Cylinder head scored.			
P07324	01520000	Steering Linkages-Link, Drag-Connection Center link	1972 Lincoln Mark III	26004	76103004
		Center link broken.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07316	01530000	Steering Linkages-Arm,Idler, & Attachments Idler Arm Assy.	1974 Ford Maverick	28671	14607007
		Bushing ripped out of idler arm.			
P07296	01540000	Steering Linkages-Rod Relay-Connections Relay Rod	1974 Pontiac Firebird	54691	07450150
		Ball broken loose from rod.			
P07318	01560000	Steering Linkages-Tie Rod, End Tie Rod End	1973 Chevrolet Malibu	48340	14607007
		Excessive wear in ball joint.			
P07325	01560000	Steering Linkages-Tie Rod, End Tie Rod	1976 Ford Mustang II	42000	03060006
		Tie rod broken.			
P87307	02100000	Support Bracket - Upper Shaft Suspenstion Independent Front	19-- Dodge Aspen	----	07450150
		No support bracket on upper shaft.			

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PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07328	02140000	Control Arm	Unknown	Unknown	00000000
		Ball joint pulled loose from control arm.			
P07327	02140000	Suspn. Indp. Ft. Control Arm. Upper Control Arm	1970 Ford Torino Wagon	116790	95336001
		Control arm cracking possible separating with ball joint & loss of control.			
P07304A	02150000	Suspn. Indp. Ft. Control Arm Lower Bushing	1978 MG B	5190	89104010
		Lower control arm bushings worn.			
P07304B	02150000	Suspn. Indp. Ft. Control Arm Lower Bushing	1978 MG B	5190	89104010
		Lower control arm bushings worn.			
P07358	02152000	Suspn. Indp. Ft. Ctrl. Arm Lower Ball Joint Ball Joint	1978 Pontiac Lemans	39421	19380005
		The nut sheared cotterkey and ball joint came loose from control arm.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07326	02730000	Tires Tires	1976 Buick Estate Wagon	9167	60201006
		Ply separates, vibrate on low and high speeds.			
P07354	03214000	Brakes Hydraulic Other Cable	1977 Oldsmobile Cutlass	35221	19020002
		Brake release cable broken.			
P07297	03230000	Brks. Hydraulic - Mstr. Cyl. Master Cylinder	1976 Ford F250	72686	23513001
		Internal malfunction.			
P87309	03230000	Brks. Hydraulic - Mstr. Cyl. Master Brake Cylinder	1976 Renault R12	17352	60201006
		Master brake cylinder failed.			
P07340	03230000	Brks. Hydraulic Mstr. Cyl. Master Cylinder	1975 Chevrolet Impala	51283	90027012
		Internal leak.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER	
P07347	03230000	Brks. Hydraulic - Mstr. Cyl. Master Cylinder	1974 Toyota Celica	35489	90027012	✓
		Internal leak.				
P07348	03230000	Brks. Hydraulic - Mstr. Cyl. Master Cylinder	1974 Toyota Celica	60229	90027012	✓
		Internal leak.				
P07352	03230000	Brks. Hydraulic - Mstr. Cyl. Master Cylinder	1976 Renault 1212	17752	60201006	✓
		Internal leak.				
P07359	03230000	Brks. Hydraulic - Mstr. Cyl. Master Cylinder	1970 Ford XL	----	54911080	✓
		Internal leak, loss of brakes.				
P87302	03242000	Brks. Hydr.-Lines-Hose, Non-Metallic Brake Hose	1976 Ford F150 PU	27470	55805004	
		Left front brake hose failed.				

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07311A	13242000	Brks. Hydraulic Lines - Hose, Non Mettalic Brake Hose	1974 Dodge Van	66579	17701023
		Hose cracked at one end.			
P07311B	03242000	Brks. Hydraulic Lines-Hose, Non-Metallic Brake Hose	1974 Dodge Van	66579	17701023
		Brake Hose broke causing loss of brakes.			
P07317	03242000	Brks Hydraulic-Lines-Hose Non-Metallic Hose	1977 Dodge Aspen	18650	14607007 ✓
		Hose cracked at bracket.			
P07319	03242000	Brks. Hydraulic Lines-hose Non-Metallic Brake Hose	1973 Plymouth Duster	34551	14607007 ✓
		Hose cracked at both ends.			
P07320	03242000	Brks. Hydraulic-Lines-Hose Non-Metallic Hose	1969 Dodge Coronet	48623	14607007
		Hose cracked at ends.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07360A	03242000	Brks. Hydraulic Lines Hose Non-Metallic Hose	1973 Dodge Dart	39856	19020002
		Hose cracked.			
P07360B	03242000	Brks. Hydraulic Lines Hose Non-Metallic Hose	1973 Dodge Dart	39856	19020002
		Hose cracked.			
P07361A	03242000	Brks. Hydraulic Lines Hose Non-Metallic Brake Hose	1976 Ford F150	27470	55805004
		Hose broke, loss of brakes.			
P07361B	03242000	Brks. Hydraulic Lines Hoses Non-Metallic Brake Hose	1976 Ford F150	27470	55805004
		Line cracked at union.			
P07366A	03242000	Brks. Hydraulic Lines Hose Non-Metallic Hose	1977 Dodge Aspen	44586	60076001
		Cracked at support.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07366B	03242000	Brks. Hydraulic Lines Hose Non-Metallic Hose	1977 Dodge Aspen	44586	60076001
		Cracked at support.			
P07294A	03261000	Brks. Hydr. Shoe and Drum Wheel Cylinder Adjuster	1974 Datsun B210	46297	60201006
		Brake shoe adjuster frozen.			
P07294B	03261000	Brks. Hydr. Shoe and Drum Wheel Cylinder Adjuster	1974 Datsun B210	46297	60201006
		Brake shoe adjuster frozen.			
P07353	03265000	Brks Hydr. Shoe & Drum System - Other Adjuster	1976 Datsun	25412	60201006
		Adjusting screw stripped and frozen.			
P07312	03271000	Brks Hydraulic - Disc - Caliper Caliper Piston	1977 Dodge	111259	60601009
		Piston stuck locking brakes.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07342	03271000	Brks. Hydraulic - Disc - Caliper Caliper	1977 Ford PU	35077	93725039
		Chrome plating came loose wedged piston in caliper.			
P07303A	03272000	Brks. Hydraulic - Disc Pads & Shoes Pads	1978 Chevrolet Chevette	20752	44312002
		Lining came loose.			
P07303B	03272000	Brks Hydraulic - Disc- Pads & Shoes Pads	1978 Chevrolet Chevette	20752	44312002
		Lining came loose.			
P87306	05150000	Cam Shaft - Lifters Cam Shaft	1976 Chevrolet Nova SS	38000	54130001
		Cam Shafts were completely worn out.			
P07357	05151000	Engine - Time Gear & Chain Cam Gear	1973 Mercury Capri	77520	95336001
		Teeth stripped from gear.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07329	05240000	Engine Cooling System Fan Fan	1974 Dodge Dart	102108	11204002
		Blade cracked.			
P87310	06113000	Fuel Tank Assembly - Tank Gas Tank	1974 Ford Gran Torino	----	13901005
		Fuel tank fell out of car.			
P07363	06124000	Fuel Emission Control - Valve EGR Valve	1977 Buick V6	32151	04104003
		Internal leak.			
P07365	06124000	Fuel Emission Control - Valve EGR Valve	19-- Ford	----	04104003
		Internal leak.			
P07322	06132000	Fuel Lines, Hoses, Non-Metallic Hose	1977 GMC Sierra	18317	04104003
		Leaking gas.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07299	06212100	Carburetor, Unknown Type, Choke Choke Pull Off	1974 Pontiac Lemans	86315	04104003
		Leaks.			
P07364	06212100	Carburetor, Unknown Type - Choke Choke Pull Off	1974 Pontiac Lemans	86315	04104003
		Internal leak.			
P07356	06220000	Carburetor Single Float	1975 AMC Paeer	26535	95336001
		Float loaded up with gas.			
P07300	06500000	Exhaust/Crank Case Emission Ctrl. Device EGR Valve	19-- Unknown	Unknown	04104003
		Leaks, causing engine to run poorly.			
P07301	06500000	Exhaust/Crank Case Emission Ctrl. Device EGR Valve	1975 Ford E150	41681	04104003
		Leaks, causing engine to misfire.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07302	06500000	Exhaust/Crank Case Emission Ctrl. Deviee EGR Valve	1977 Buiek V6	32151	04104003
		Valve leaking eausing engine to misfire.			
P07345	07412000	P wr. Trn. Driveline Univ. Jt. Cnstnt Velocity Yoke	1978 Ford Fiesta	28043	90027012
		Spline stripped.			
P07321	08500000	Electrieal System Ignition Distributor Shaft	1976 Buiek Skylark	29165	085268105
		Cent. Weights appear to be rusted and corroded causing erratic ope. and causing damage to rotor and cap.			
P07313	08540000	Elec. Sys. Ignition Electronic Control Unit Modulater	1975 Ford Pickup	80453	70601009
		Internal failure.			
P07314	08540000	Elec. Sys. Ignition Eleetronie Cntrl. Unit Modulater	1977 Ford Maverick	20331	70601009
		Internal failure.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07315	08540000	Elec. Sys. Ignition - Electronic Ctrl. Unit Modulater	1977 Ford pickup	23735	70601009
		Internal failure.			
P07343	08540000	Elec. Sys. Ignition Electronic Ctrl. Unit Module	1977 Ford Pickup	32386	70601009
		Internal short			
P07344	08540000	Elec. Sys. Ignition Electronic Ctrl. Unit Module	1977 Ford LTD	29988	70601009
		Internal Short			
P07346	08540000	Elec. Sys. Ignition Electronic Ctrl. Unit Moduale	1975 Ford Country Squire	38189	33316118
		Internal short.			
P07351	08540000	Elec. Sys. Ignition Electronic Ctrl. Unit Module	1976 Oldsmobile 88	29951	70601009
		Internal Short.			

PRP NUMBER	COMPONENT CLASS	COMPONENT NAME	YEAR-MAKE-MODEL	MILEAGE AT FAILURE	SHOP NUMBER
P07349	09110000	Swch. Button Ring - Turn Signal Switch	19-- Ford	----	29611001
P07350	09110000	Swch. Button Ring - Turn Signal Lights Switch	1969 Ford Galaxie	58408	29611001
		Internal short.			
P07341	09202000	Lamp or Socket Head Lights Adjusting screws	1977 Cadillac	31717	90027012
		Plastic adjusting nut broken.			

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