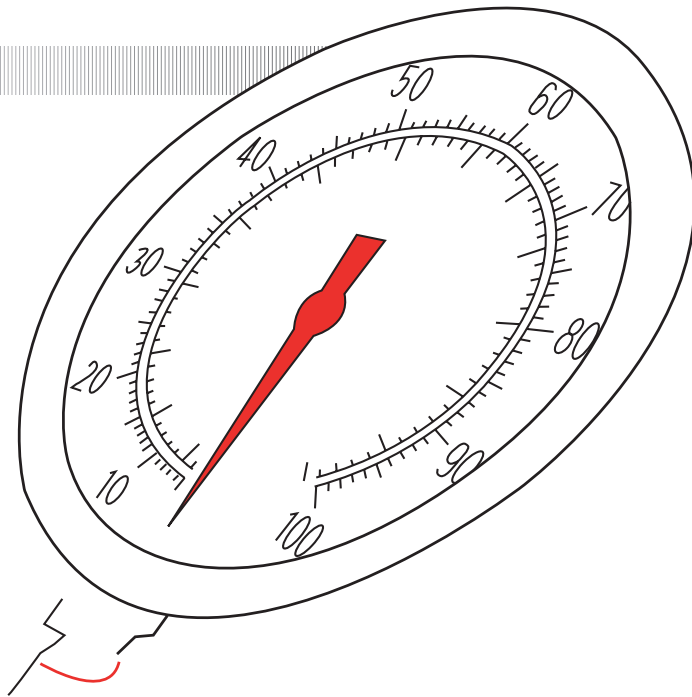


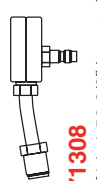
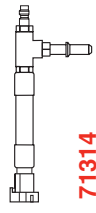
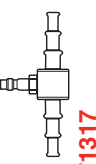
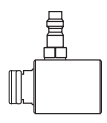
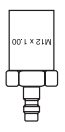
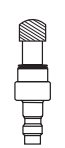
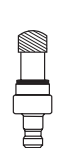
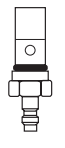
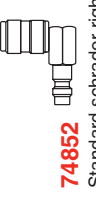
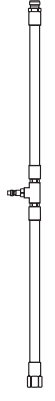
ATD-5549

Fuel Injection Pressure Tester

ADAPTER GUIDEBOOK



Fuel Injection Test Adapters

 71305 Volvo adapter; 14mm LH Jetronic	 71306 11mm adapter (with hold down bolts)	 71308 M14-1.50 3/8" inverted flare male and female connections	 71314 Ford CFI adapter, 5/16" quick disconnects	 71317 Manifold w/ QC plug for 5/16" and 1/4" ID hose	 71318 Standard Schrader hose assembly with QC plug	 71319 Small Schrader hose assembly with QC plug
 71321 16mm adapter (with hold down bolts)	 71328 1/4" hose barb with QC plug	 74426 M12-1.00 Honda pulse dampener adapter	 74431 Banjo bolt M6-1.00 with o-ring	 74432 Banjo bolt M8-1.00 with nyotron washer	 74433 Banjo bolt M10-1.00 with nyotron washer	 74434 Banjo bolt M12-1.25 with nyotron washer
 74435 Banjo bolt M12-1.50 with nyotron washer	 74471 M14-1.50 Banjo bolt assembly	 74851 Deadhead pressure adapter 1/4", 5/16", 3/8" ID hose	 74852 Standard schrader right angle adapter w/ QC plug	 74853 Small Schrader right angle adapter w/ QC plug		
 71313 Ford EFI spring lock adapter w/ QC plug						
 71329 M14 ball seat connection: Audi/Volvo/VW hose assembly						
 74484 5/16" quick disconnect hose assembly with QC plug: Chrysler/Ford						
 74485 3/8" quick disconnect hose assembly with QC plug: GM						

Please visit your local tool distributor for info on adapters not included in your set.

PRESSURE CONVERSION CHART

To convert	To	Multiply by
PSI	k/Pa	6.8946
PSI	bar	0.0689
PSI	kg/cm ²	0.0703
k/Pa	PSI	0.145
k/Pa	bar	0.01
k/Pa	kg/cm ²	0.0102
bar	PSI	14.504
bar	k/Pa	100
kg/cm ²	PSI	14.22
kg/cm ²	k/Pa	98.074
kg/cm ²	bar	0.9807

METRIC CONVERSION CHART

PSI	Bar	k/Pa	kg/cm ²
0.50	0.034	3.44	0.0352
1.00	0.069	6.89	0.0703
1.25	0.086	8.62	0.0879
2.00	0.138	13.79	0.1406
5.00	0.345	34.48	0.3515
10.00	0.699	69.85	0.7030
15.00	1.034	103.43	1.0545
20.00	1.379	137.90	1.4060
25.00	1.724	172.38	1.7500
30.00	2.069	106.85	2.1090
35.00	2.143	241.33	2.4605
40.00	2.758	275.80	2.8120
50.00	3.448	344.75	3.5150
60.00	4.137	413.70	4.2180
70.00	4.827	482.65	4.9210
80.00	5.516	551.60	5.6240
90.00	6.206	620.55	6.3270
100.00	6.895	689.50	7.0300

PRETEST SYSTEM CHECKS

The following basic checks should be performed, and any detected faults corrected, before a fuel system test is performed:

- A. Look for broken or loose fuel lines (metal or rubber).
- B. Make sure fuel tank has sufficient fuel (do not rely on fuel gauge).
- C. Check for water or other contaminants in fuel.
- D. Check condition of fuel system related fuses.
- E. Check condition of fuel tank venting systems.
- F. Check condition of fuel tank filler cap.

Electrical System

- A. If engine won't start, check for ignition spark using a test plug. If no spark, repair ignition system.
The ignition fires the injector on most fuel injection systems so that if there is no spark plug firing, there will be no injector firing.
- B. Observe check engine lamps or other computer fault indicators.
- C. Look for ignition wires broken, disconnected or arcing.
- D. Look for distributor cap or rotor disconnected or arcing.
- E. Check for component grounds loose or corroded.
- F. Look for disconnected electrical components.

Battery & Charging System

- A. Check battery condition. A weak battery will not ensure proper pump delivery or injector triggering. Should be over 12 volts.
- B. Check basic operation of charging system.
- C. Look for loose or corroded battery cables.

Miscellaneous

- A. Check vacuum lines for loose or disconnected lines.
- B. Look for water leaks.
- C. Look for excessive oil leaks.
- D. Listen for any audible air leaks, unusual noises, fuel pump buzz (a noisy pump may not be an indication of poor operating condition), engine rattles or knocks.
- E. Check valve timing and adjustment.

PROCEDURE TO RELIEVE FUEL SYSTEM PRESSURE

- 1. Do not smoke.
- 2. Wear a pair of safety glasses.
- 3. Keep a dry chemical (Class B) fire extinguisher near you.
- 4. Release gas cap with ignition off.
- 5. Disable fuel pump as specified per manufacturer's service manual.
- 6. Some vehicles may have two fuel pumps. Make sure both are disabled.
- 7. On some vehicles, a satisfactory method of disabling the fuel pump(s) is to remove the fuel pump fuse(s). But on other vehicles, removing the fuse(s) disables the fuel injectors or ignition system, so another disabling method must be used. Refer to the manufacturer's service manual.
- 8. Turn the ignition key on and start the engine.
- 9. Run the engine until it stalls.
- 10. Try to restart the engine for 3 - 5 seconds. For cars with inertia switch pressure relief, engage starter 15 seconds to relieve fuel pressure.
- 11. Turn ignition key off.

TYPICAL FUEL INJECTION PRESSURE TEST

All pressure tests should be made at idle on the high pressure side of the system.

- 1. With engine off, locate fuel pressure port (Schrader Valve) and attach fuel pressure gauge. If no Schrader Valve is provided and system must be opened, residual pressure must be released before fittings are loosened to keep gasoline from spraying all over, possibly causing eye injury or a fire. See the **PROCEDURE TO RELIEVE FUEL SYSTEM PRESSURE (above)** and follow instructions. Connect tester using the correct adapter and access point. Always wrap a shop towel around fitting before loosening.
- 2. If the adapter you use is a banjo bolt adapter, ours is designed to use with standard banjos. If a car manufacturer uses a non-standard banjo, more than one washer may be needed on either or both sides of the banjo. Our M12 x 1.25 banjo bolt adapter may need one or more thick or thin washers depending on the application.
- 3. With gauge connected or teed into system using proper adapters, reactivate fuel pump, start the engine and check for leaks. If no leaks are detected, observe gauge. Pressure should rise to slightly above operating pressure and then stabilize at operating pressure (as per manufacturer's specifications). See our adapter applications and specifications beginning on the next page.
- 4. Start engine. If an adjustable fuel pressure regulator is used, pressure should be maintained during running. If a compensating fuel pressure regulator is used, pressure should drop approximately 8-9 PSI, depending on manifold vacuum.
- 5. Locate a flexible hose on the return side and gently squeeze off return flow briefly. Never squeeze a steel braided hose. **CAUTION: Some pump designs can be damaged by this test and test should not be performed unless recommended by the manufacturer.** Observe rapid increase in dead-end pressure. **CAUTION: Pressure could exceed 75 PSI and may blow any loose fittings or defective lines. Observe condition of system before this test.**
- 6. If pressures are acceptable, some manufacturers also require a flow test. If so, at this point, open the fuel system into a graduated plastic container and observe flow rate (*example:* one pint/15 seconds). Close system.
- 7. Turn key off and observe residual pressure. Some manufacturers prescribe a minimum holding time.
- 8. In conjunction with an injector pulse tester, turn key on, observe pressure, pulse one injector, observe pressure drop, turn key off, move tester to next injector, turn key on, observe pressure, pulse injector, observe drop, turn key off, continue with remaining injectors. **CAUTION: Do not repeat this test more than manufacturer's recommendations. Flooding of engine may occur.**
- 9. Deactivate fuel pump and relieve fuel system if necessary. With key off, put bleed-off tubing in a fuel can and press bleed-off valve. If your tester has no bleed-off valve assembly, wrap rags around connections and release slowly. A bleed-off assembly can be purchased from your tool man.
- 10. Remove tester and reconnect all lines.
- 11. Start engine and check for leaks.
- 12. Remove fuel from all hoses. If fuel remains in gauge hose assembly, connect the smallest banjo bolt adapter into the quick coupler over a fuel container. Hold gauge above hose and fuel will flow into the fuel can.

FOR TESTING CIS OR TBI SYSTEMS, PLEASE CONTACT YOUR LOCAL TOOL SUPPLIER FOR AVAILABLE KITS.

MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
ACURA						
Acura	CL	2.2	I-4 V-TEC	97	74431	
Acura	CL	2.3	I-4 V-TEC	98	74435	
Acura	CL	3.0	V-6	97-99	74435	
Acura	CL, S-TYPE	3.2	V-6 V-TEC	01-03	74426	74484
Acura	Integra	all	I-4	86-96	74431	
Acura	Integra	1.8	I-4	97-01	74435	
Acura	Legend	all	V-6	87-95	74431	
Acura	MDX	3.5	V-6	01-04	74426	
Acura	NSX	all	V-6	91-04	74431	
Acura	RL	3.5	V-6	96-04	74431	74434
Acura	RSX	2.0	I-4	02-04	74484	
Acura	SLX	all	V-6	96-99	71317	
Acura	TL	2.5	I-5	95-98	74431	74435
Acura	TL, S-TYPE	3.2	V-6 V-TEC	96-04	74426	74484
Acura	TSX	2.4	I-4	04	74484	
Acura	Vigor	2.5	I-5	91-94	74431	
ALFA ROMEO						
Alfa Romeo	164, Milano, Spider	all	all	84-95	71317	
AUDI						
Audi	80	all	all	88-92	74435	
Audi	90	all	all	88-91	74435	
Audi	90	2.8	V-6	93-95	71329	71305
Audi	100	2.3	I-5	89-91	74435	
Audi	100	2.8	V-6	92-94	71329	71305
Audi	200	2.2	I-5	89-91	74435	
Audi	A,R,S-series, allroad, cabriolet	all	all	95-04	71329	71305
Audi	TT	1.8	I-4	00-04	71329	71305
Audi	TT	3.2	V-6	04	74484	
BMW						
BMW	3,5,6,7,8,M,X,Z Series	all	all	75-95	71317	
BMW	3,5,6,7,8,M,X,Z Series	all	all	96-04	71319	74484
BMW	M3	3.2	I-6	95-04	71319	74484
BMW	7,8 series	all	V-12	88-04	71317	
BUICK						
Buick	all, except TBI and listed below	all	all	84-05	71318	
Buick	Century	all	I-4	93-96	74485	
Buick	Rainier	4.2	I-6	04	74485	
Buick	Roadmaster	all	V-8	91-93	74485	
Buick	Skylark	all	I-4	95-98	74485	
CADILLAC						
Cadillac	all, except TBI	all	all	80-04	71318	
CHEVROLET						
Chevrolet	all, except TBI and listed below	all	all	85-04	71318	
Chevrolet	Tracker	all	I-4	98-04	74471	
Chevrolet	Tracker, Metro, Sprint	all	all	87-04	71317	
Chevrolet	Nova, Spectrum	all	all	87-89	74432	
Chevrolet	Prizm	all	all	98-02	74484	
Chevrolet	Prizm	all	all	90-04	74485	
Chevrolet	Beretta	2.2	I-4	92-96	74485	
Chevrolet	Cavalier	all	I-4	92-03	74485	
Chevrolet	Corsica	all	I-4	90-96	74485	
Chevrolet	Lumina	all	I-4	92-93	74485	
Chevrolet	Malibu	all	I-4	97-98, 04	74485	
Chevrolet	S10 Blazer, Pickup	all	I-4	94-03	74485	
Chevrolet	Trail Blazer	4.2	I-6	02-04	74485	
CHRYSLER						
Chrysler	all, except TBI and listed below	all	all	84-2005	71318	
Chrysler	300	all	V-6	05	74484	
Chrysler	300	5.7	V-8	05	74485	
Chrysler	300M	3.5	V-6	99-04	74484	
Chrysler	Cirrus	2.5	V-6	95-00	74484	
Chrysler	Concorde	2.7	V-6	98-04	74484	
Chrysler	Concorde	3.5	V-6	03-04	74484	
Chrysler	Conquest TSi	2.6	I-4	88-89	74435	
Chrysler	Grand Voyager	3.0	V-6	00	74484	
Chrysler	Laser	all	I-4	84-86	71317	
Chrysler	LeBaron	all	I-4	84-95	71317	71318
Chrysler	LeBaron	3.0	V-6	84-95	74484	
Chrysler	New Yorker	3.0	V-6	88-89	71317	

MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
CHRYSLER						
Chrysler	Pacifica	3.5	V-6	04-05	74484	
Chrysler	PT Cruiser	all	I-4 TURBO	01-05	74484	
Chrysler	Sebring	2.5	V-6	95-00	74484	71321
Chrysler	Sebring	2.7	V-6	01-04	74484	
Chrysler	Sebring	3.0	V-6	01-04	71321	
Chrysler	TC	3.0	V-6	89-91	71313	
Chrysler	Town & Country	3.8	V-6	94-05	74484	
Chrysler	Voyager	3.0	V-6	00	74484	
DAEWOO						
Daewoo	all	all	all	99-02	71318	
DAIHATSU						
Daihatsu	all	all	all	88-92	74435	
DODGE						
Dodge	all, except TBI and listed below	all	all	84-04	71318	
Dodge	600	all	I-4	84-88	71317	71318
Dodge	100 Pickup	all	all	84-89	71317	
Dodge	150, 250, 350 Pickup	all	all	84-93	71317	
Dodge	1500, 2500, 3500 Ram Pickup	all	V-8	97	74484	
Dodge	Aries America	all	I-4	88-89	71317	
Dodge	Avenger	2.5	V-6	95-00	71321	
Dodge	Caravan	2.5	I-4	88-90	71317	71318
Dodge	Caravan	2.5	I-4	91-95	74484	
Dodge	Caravan	3.0	V-6	87-94	71317	
Dodge	Caravan	3.0	V-6	95-00	74484	
Dodge	Colt	all	I-4	84-94	74435	
Dodge	Dakota	2.5	I-4	89-95	71317	
Dodge	Dakota	3.9	V-6	88-91	71317	
Dodge	Dakota	5.2	V-8	90-92	71317	
Dodge	Daytona	2.2	I-4	84-93	71317	71318
Dodge	Daytona	2.5	I-4	86-91	71317	71318
Dodge	Daytona	2.5	I-4	91-93	74484	
Dodge	Daytona	3.0	V-6	90-93	71317	
Dodge	Dynasty	2.5	I-4	88-90	71317	
Dodge	Dynasty	2.5	I-4	90-93	74484	
Dodge	Dynasty	3.0	V-6	88-93	71317	
Dodge	Grand Caravan	3.0	V-6	88-94	71317	
Dodge	Grand Caravan	3.0	V-6	94-04	74484	
Dodge	Grand Caravan	3.8	V-6	94-05	74484	
Dodge	Intrepid	2.7	V-6	98-04	74484	
Dodge	Lancer	all	I-4	85-89	71317	71318
Dodge	Magnum	all	V-6	05	74484	
Dodge	Magnum	5.7	V-8	05	74485	
Dodge	Mini Ram Van	all	all	84-88	71317	
Dodge	Monaco	3.0	V-6	90-92	74485	
Dodge	Omni America	all	I-4	88-90	71317	
Dodge	Raider	2.6	I-4	87-89	71317	
Dodge	Raider	3.0	V-6	87-89	74435	
Dodge	Ram 50 Pickup	all	all	84-93	74435	
Dodge	1500, 2500, 3500 Ram Van	all	all	88-91	71317	
Dodge	Ramcharger	all	V-8	88-92	71317	
Dodge	Shadow	all	I-4	87-90	71317	
Dodge	Shadow	2.2	I-4	90-94	74484	
Dodge	Shadow	2.5	I-4	90-94	74484	71318
Dodge	Shadow	3.0	V-6	87-94	71317	
Dodge	Spirit	all	all	89-90	71317	
Dodge	Spirit	all	all	91-95	74484	
Dodge	Stealth	3.0	V-6	91-96	71321	
Dodge	Stratus	2.5	V-6	95-00	74484	
Dodge	Stratus	2.7	V-6	01-04	74484	
Dodge	Stratus	3.0	V-6	01-04	74484	
EAGLE						
Eagle	Summit, Talon, Vista	all	all	89-98	74435	
Eagle	Medallion	2.2	I-4	88-89	71317	
Eagle	Premier	all	all	88-92	74485	
Eagle	Vision	all	V-6	93-97	71318	
FORD						
Ford	all, except listed below	all	all	83-04	71319	
Ford	Aspire	1.3	I-4	94-97	71317	
Ford	Bronco	5.0	V-8	85-86	71313	

MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
FORD						
Ford	Crown Victoria	4.6	V-8	92-04	71313	
Ford	150, 250, 350 Econoline	5.0	V-8	86	71313	
Ford	Escape	2.0	I-4	01-05	71313	
Ford	Escape	3.0	V-6	01-05	74484	
Ford	Escort	1.9	I-4	87-90	71313	
Ford	Escort	2.0	I-4	01-03	71313	
Ford	EXP	1.6	I-4	84-85	71313	
Ford	Explorer	4.0	V-6	97-04	74484	71313
Ford	Explorer	4.6	V-8	02-04	71313	
Ford	150, 250, 350 F-Series	5.0	V-8	85-86	71313	
Ford	150, 250, 350 F-Series	5.4	V-8	04	71313	
Ford	Freestar	all	V-6	04	71313	
Ford	Festiva	1.3	I-4	88-93	71317	
Ford	Focus	2.0	I-4	00-05	74484	
Ford	Mustang	3.8	V-6	04	71313	
Ford	Mustang	4.6	V-8	96-04	71313	
Ford	Probe	2.2	I-4	89-92	71317	
Ford	Taurus	2.5	I-4	86-91	71313	
Ford	Taurus	3.0	V-6	96-04	74485	
Ford	Tempo	2.3	I-4	85-87	74484	
GEO						
Geo	Metro	all	all	89-97	71317	
Geo	Prizm	all	I-4	97	74484	
Geo	Prizm	all	all	89-96	74432	
Geo	Spectrum	1.5	I-4	89	74432	
Geo	Storm	all	I-4	90-93	71330	71308
Geo	Tracker	1.6	I-4	94-97	74471	
Geo	Tracker, TBI	1.6	I-4	89-95	74431	
GMC						
GMC	all, except TBI and listed below	all	all	85-04	71318	
GMC	Envoy	4.2	I-6	02-04	74485	
GMC	Sonoma	2.2	I-4	94-03	74485	
HONDA						
Honda	Accord	all	all	85-97	74431	
Honda	Accord	all	all	97-02	74435	
Honda	Accord	all	all	03-04	74484	
Honda	Civic	all	I-4	85-96	74431	
Honda	Civic	1.6	I-4	97-00	74435	
Honda	Civic	all	I-4	01-04	74484	
Honda	CR-V	all	I-4	97-04	74435	
Honda	del Sol	all	I-4	93-96	74431	
Honda	del Sol	1.6	I-4	96-97	74435	
Honda	Element	2.4	I-4	03-04	74484	
Honda	Insight	1.0	I-3	00-04	74435	
Honda	Odyssey	2.2	I-4	95-96	74431	
Honda	Odyssey	all	I-4	97-98	74435	
Honda	Odyssey	3.5	V-6	99-04	74426	
Honda	Passport	2.7	I-4	94-96	71317	
Honda	Passport	3.2	V-6	94-02	71318	
Honda	Pilot	3.5	V-6	03-04	74435	
Honda	Prelude	all	I-4	85-96	74431	
Honda	Prelude	2.2	I-4	97-01	74435	
Honda	S2000	all	I-4	00-04	74426	
HUMMER						
Hummer	all	all	V-8	93-04	71318	
HYUNDAI						
Hyundai	Accent	all	I-4	95-02	74435	
Hyundai	Accent	1.6	I-4	02-04	71321	
Hyundai	Elantra	all	I-4	92-95	74435	
Hyundai	Elantra	all	I-4	96-03	71329	71305
Hyundai	Elantra	2.0	I-4	04	71329	71305
Hyundai	Excel	1.5	I-4	90-94	74435	
Hyundai	Santa Fe	all	all	01-04	71321	71305
Hyundai	Scoupe	1.5	I-4	91-95	74435	
Hyundai	Sonata	all	all	89-98	74435	
Hyundai	Sonata	all	all	92-03	71329	71305
Hyundai	Sonata	all	all	04	71321	71305
Hyundai	Tiburon	all	I-4	97-01	71329	71305
Hyundai	Tiburon	all	all	03-04	71321	

MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
HYUNDAI						
Hyundai	XG300	3.0	V-6	01	71321	
Hyundai	XG350	3.5	V-6	02-04	71321	
INFINITI						
Infiniti	FX35	3.5	V-6	03-04	71306	
Infiniti	FX45	4.5	V-8	03-04	71306	
Infiniti	G20	2.0	I-4	91-02	71317	
Infiniti	G35	3.5	V-6	03-04	71306	
Infiniti	I30	3.0	V-6	96-01	71317	
Infiniti	I35	3.5	V-6	02-04	71306	
Infiniti	J30	3.0	V-6	93-97	71317	
Infiniti	M30	3.0	V-6	90-92	71317	
Infiniti	M45	4.5	V-8	03-04	71330	71308
Infiniti	Q45	all	V-8	90-01	71317	
Infiniti	Q45	4.5	V-8	02-04	71330	71308
Infiniti	QX4	all	V-6	97-03	71330	71308
Infiniti	QX56	5.6	V-8	04	71330	71308
ISUZU						
Isuzu	Amigo	2.6	I-4	89-94	71317	
Isuzu	Amigo	all	all	98-00	71318	
Isuzu	Ascender	all	all	03-04	71318	
Isuzu	Axiom	3.5	V-6	02-04	71318	
Isuzu	Hombre	2.2	I-4	96-00	74485	
Isuzu	Hombre	4.3	V-6	97-00	71318	
Isuzu	I-Mark	all	I-4	88-89	71317	
Isuzu	Impulse	all	I-4	83-92	71317	
Isuzu	Oasis	2.2	I-4	96-97	74431	
Isuzu	Oasis	2.3	I-4	98-99	74435	
Isuzu	Pickup	all	I-4	88-95	71317	
Isuzu	Rodeo	2.6	I-4	91-97	71317	
Isuzu	Rodeo	2.2	I-4	98-03	74485	
Isuzu	Rodeo	3.2	V-6	93-04	71318	
Isuzu	Rodeo Sport	2.2	I-4	01-03	74485	
Isuzu	Rodeo Sport	3.2	V-6	01-03	71318	
Isuzu	Stylus	1.6	I-4	91-93	71317	
Isuzu	Trooper	2.6	I-4	88-91	71317	
Isuzu	Trooper	all	V-6	92-02	71318	
Isuzu	VehiCROSS	3.5	V-6	99-01	71318	
JAGUAR						
Jaguar	S-Type	all	all	00-05	71319	
Jaguar	Vanden Plas	4.2	I-6	82-87	71317	
Jaguar	Vanden Plas	all	all	88-97	71329	71305
Jaguar	Vanden Plas	all	V-8	98-04	71319	
Jaguar	XJ12	all	V-12	75-96	71317	
Jaguar	XJ6	all	I-6	78-87	71317	
Jaguar	XJ6	all	I-6	88-96	71329	71305
Jaguar	XJ8	all	V-8	98-04	71319	
Jaguar	XJR	all	V-8	95-04	71319	
Jaguar	XJR-S	6.0	V-12	93	71317	
Jaguar	XJS	all	V-12	76-95	71317	
Jaguar	XJS	4.0	I-6	92-96	71329	71305
Jaguar	XK8	all	V-8	97-05	71319	
Jaguar	XKR	4.0	I-6	95-97	71329	71305
Jaguar	XKR	all	V-8	00-04	71319	
Jaguar	X-Type	all	V-6	02-04	71319	
JEEP						
Jeep	Cherokee	2.5	I-4	86-90	71317	
Jeep	Cherokee	all	all	87-94	71318	
Jeep	Cherokee	all	all	95-01	74484	74485
Jeep	Comanche Pickup	2.5	I-4	86-90	71317	
Jeep	Comanche Pickup	all	all	87-92	71318	
Jeep	Grand Cherokee	all	all	93-04	71318	74484
Jeep	Grand Wagoneer	5.2	V-8	93	71318	
Jeep	Liberty	3.7	V-6	02-04	71318	74484
Jeep	Wagoneer	2.5	I-4	86-87	71317	
Jeep	Wagoneer	4.0	I-6	87-90	71318	
Jeep	Wrangler	2.5	I-4	87-90	71317	
Jeep	Wrangler	all	all	91-04	71318	
KIA						
Kia	Amanti	3.5	V-6	04	71306	

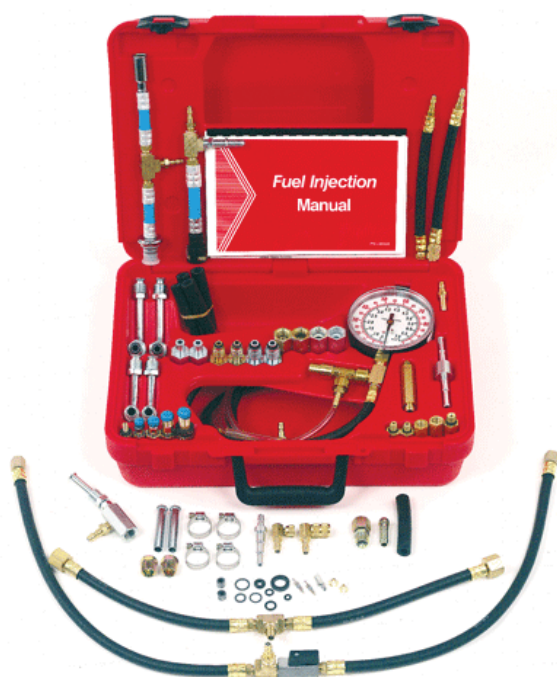
MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
KIA						
Kia	Optima	all	all	01-04	71306	
Kia	Rio	1.5	I-4	01-02	74484	
Kia	Rio	1.6	I-4	03-04	71319	74484
Kia	Sedona	3.5	V-6	02-04	71306	
Kia	Sephia	all	I-4	93-97	71317	
Kia	Sephia	1.8	I-4	98-01	71319	
Kia	Sorento	3.5	V-6	03-04	71306	
Kia	Spectra	1.8	I-4	00-04	71306	
Kia	Sportage	2.0	I-4	95-97	71317	
Kia	Sportage	2.0	I-4	98-02	74484	
LAND ROVER						
Land Rover	Defender 110	3.9	V-8	93	71329	71305
Land Rover	Defender 90	all	V-8	94-97	71329	71305
Land Rover	Discovery	all	V-8	94-99, 03-04	71329	71305
Land Rover	Discovery Series II	all	V-8	99-02	71318	
Land Rover	Freelander	2.5	V-6	02-04	71318	
Land Rover	Range Rover	all	V-8	87-91	71317	
Land Rover	Range Rover	4.6	V-8	92-04	71329	71305
LEXUS						
Lexus	ES 250	2.5	V-6	90-91	74432	
Lexus	ES 300	3.0	V-6	92-96	74434	
Lexus	ES 300	3.0	V-6	97-04	74484	
Lexus	ES 330	3.3	V-6	04	74434	
Lexus	GS 300	3.0	I-6	93-04	74434	
Lexus	GS 400	4.0	V-8	98-00	74435	
Lexus	GS 430	4.3	V-8	01-04	71306	
Lexus	IS 300	3.0	I-6	01-04	74434	
Lexus	LS 400	4.0	V-8	90-00	74435	
Lexus	LS 430	4.3	V-8	01-04	74434	
Lexus	LX 450	4.5	I-6	96-97	74434	
Lexus	LX 470	4.7	V-8	98-04	74434	
Lexus	RX 300	3.0	V-6	99-03	74484	
Lexus	SC 300	3.0	I-6	92-00	74434	
Lexus	SC 400	4.0	V-8	92-00	74435	
Lexus	SC 430	4.3	V-8	02-04	74434	
LINCOLN						
Lincoln	all, except listed below	all	all	80-04	71319	
Lincoln	Aviator	4.6	V-8	03-04	71313	
Lincoln	Town Car	4.6	V-8	04	71313	
MAZDA						
Mazda	3	all	I-4	04	74484	
Mazda	6	2.3	I-4	03-04	74484	
Mazda	6	3.0	V-6	03-04	71313	
Mazda	323	all	I-4	86-94	71317	
Mazda	626	all	all	84-02	71317	
Mazda	929	all	all	88-95	71317	
Mazda	B2000	all	all	84, 86-87	71317	
Mazda	B2200	all	all	87-93	71317	
Mazda	B2300	all	all	94-97, 01-04	71319	
Mazda	B2500	all	all	98-01	71319	
Mazda	B2600	all	all	87-93	71317	
Mazda	B3000	3.0	V-6	94-04	71319	
Mazda	B4000	4.0	V-6	94-04	71319	
Mazda	Miata MX-5	all	all	90-04	71317	
Mazda	Millenia	all	all	95-97	71317	
Mazda	Millenia	all	all	98-02	74484	
Mazda	MPV	all	all	89-98, 00-04	71317	
Mazda	MX-3	all	all	92-95	71317	
Mazda	MX-6	all	all	88-97	71317	
Mazda	Navajo	4.0	V-6	91-94	71319	
Mazda	Protege	all	all	90-03	71317	
Mazda	Protege5	all	all	02-03	71317	
Mazda	RX-7	all	all	84-95	71317	
Mazda	RX-8	all	all	04	74484	
Mazda	Tribute	2.0	I-4	01-05	71319	
Mazda	Tribute	3.0	V-6	01-05	74484	
MERCEDES-BENZ						
Mercedes-Benz	all	all	all	81-04	71318	

MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
MERCURY						
Mercury	Capri	all	all	83-86	71319	
Mercury	Capri	1.6	I-4	91-94	71317	
Mercury	Cougar	all	all	83-02	71319	
Mercury	Grand Marquis	all	V-8	83-96	71319	
Mercury	Grand Marquis	4.6	V-8	92-04	71313	
Mercury	LN7	1.6	I-4	83	71319	
Mercury	Lynx	all	I-4	83-87	71319	
Mercury	Lynx	1.6	I-4	87	71317	
Mercury	Marauder	4.6	V-8	03-04	71313	71319
Mercury	Marquis	3.8	V-6	84-86	71319	
Mercury	Monterey	4.2	V-6	04	71313	
Mercury	Mountaineer	all	all	97-04	71319	
Mercury	Mountaineer	4.0	V-6	02-04	74484	
Mercury	Mountaineer	4.6	V-8	02-04	71313	
Mercury	Mystique	all	all	95-00	71319	
Mercury	Sable	3.8	V-6	88-95	71319	
Mercury	Sable	3.0	V-6	96-04	74485	
Mercury	Sable	all	all	86-04	71313	
Mercury	Topaz	2.3	I-4	85-87	74484	
Mercury	Topaz	all	all	88-94	71319	
Mercury	Tracer	1.6	I-4	88-89	71317	
Mercury	Tracer	1.8	I-4	91-96	74484	
Mercury	Tracer	all	I-4	91-99	71319	
Mercury	Villager	all	V-6	93-02	71317	
MERKUR						
Merkur	Scorpio	2.9	V-6	88-89	71319	
Merkur	XR4Ti	2.3	I-4	85-89	71319	
MINI						
MINI	Cooper	1.6	I-4	02-04	71319	
MITSUBISHI						
Mitsubishi	3000GT	all	all	91-99	71321	
Mitsubishi	Cordia	1.8	I-4	84-88	74435	
Mitsubishi	Diamante	3.0	V-6	92-96	74435	
Mitsubishi	Diamante	3.5	V-6	97-04	74484	
Mitsubishi	Endeavor	3.8	V-6	04	74484	
Mitsubishi	Eclipse	1.8	I-4	90-94	74435	
Mitsubishi	Eclipse	2.0	I-4	93-99	74435	
Mitsubishi	Eclipse	2.4	I-4	96-01	71318	
Mitsubishi	Eclipse	3.0	V-6	00-04	71321	
Mitsubishi	Expo	all	all	92-95	74435	
Mitsubishi	Galant	all	I-4	85-01	74435	
Mitsubishi	Galant	3.0	V-6	94-04	71321	
Mitsubishi	Lancer	all	all	02-04	74484	
Mitsubishi	Mirage	1.5	I-4	89-96	74435	
Mitsubishi	Mirage	1.5	I-4	97-02	71321	
Mitsubishi	Mirage	1.6	I-4	85-92	74435	
Mitsubishi	Mirage	1.8	I-4	93-96	74435	
Mitsubishi	Mirage	1.8	I-4	97-02	71321	
Mitsubishi	Montero	all	all	84-04	71321	
Mitsubishi	Montero Sport	all	all	97-04	71321	
Mitsubishi	Outlander	2.4	I-4	03-04	71321	
Mitsubishi	Pickup	all	all	84-96	71321	
Mitsubishi	Precis	1.5	I-4	87-94	74435	
Mitsubishi	Sigma	3.0	V-6	89-90	74435	
Mitsubishi	Starion	2.6	I-4	84-89	74435	
Mitsubishi	Tredia	1.8	I-4	84-88	74435	
NISSAN						
Nissan	200SX	all	all	84-88, 95-98	71317	
Nissan	240SX	all	all	89-98	71317	
Nissan	300ZX	all	all	84-96	71317	
Nissan	350Z	3.5	V-6	03-04	71306	
Nissan	Altima	2.4	I-4	93-01	71317	
Nissan	350Z	3.5	V-6	03-04	71306	
Nissan	Altima	2.4	I-4	93-01	71317	
Nissan	Altima	2.5	I-4	02-04	74484	
Nissan	Altima	3.5	V-6	02-05	71306	
Nissan	Axxess	2.4	I-4	90	71317	
Nissan	Frontier	2.4	I-4	98-04	71317	
Nissan	Frontier	3.3	V-6	99-04	71306	

MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
NISSAN						
Nissan	Maxima	2.4	I-4	82-84	71317	
Nissan	Maxima	3.0	V-6	85-01	71317	
Nissan	Maxima	3.5	V-6	02-04	71306	
Nissan	Minivan	all	all	87-88, 90	71317	
Nissan	Murano	3.5	V-6	03-04	71306	
Nissan	NX	all	all	91-93	71317	
Nissan	Pathfinder	2.4	I-4	87-89	71317	
Nissan	Pathfinder	3.0	V-6	87-95	71317	
Nissan	Pathfinder	3.3	V-6	96-00	71317	
Nissan	Pathfinder	3.5	V-6	01-05	71306	
Nissan	Pathfinder	3.8	V-8	04-05	71306	
Nissan	Pickup	all	all	84-97	71317	
Nissan	Pulsar	all	all	84-90	71317	
Nissan	Quest	3.0	V-6	93-98	71317	
Nissan	Quest	3.3	V-6	99-02, 04	71306	
Nissan	Sentra	2.5	I-4	02-04	74484	
Nissan	Sentra	1.6	I-4	84-04	71317	
Nissan	Sentra	1.8	I-4	84-04	71317	
Nissan	Sentra	2.0	I-4	84-04	71317	
Nissan	Stanza	all	I-4	84-92	71317	
Nissan	Titan	5.6	V-8	04	71306	
Nissan	Xterra	2.4	I-4	00-04	71317	
Nissan	Xterra	3.3	V-6	02-04	71306	
OLDSMOBILE						
Oldsmobile	all, except TBI and listed below	all	all	84-04	71318	
Oldsmobile	Cutlass Ciera	2.2	I-4	93-96	74485	
PEUGEOT						
Peugeot	405	1.9	I-4	89-91	71317	
Peugeot	505	all	all	84-91	71317	
PLYMOUTH						
Plymouth	Acclaim	2.5	I-4 TURBO	89-91	71318	
Plymouth	Acclaim	all	all	89-90	71317	
Plymouth	Acclaim	all	all	91-95	74484	
Plymouth	Breeze	all	I-4	96-00	71318	
Plymouth	Caravelle	2.2	I-4 TURBO	85-88	71318	
Plymouth	Caravelle	all	I-4	85-88	71317	
Plymouth	Colt	all	I-4	84-95	74435	
Plymouth	Colt Vista	2.0	I-4	87-91	71321	
Plymouth	Colt Vista	1.8	I-4	92-94	74435	
Plymouth	Colt Vista	2.4	I-4	84-94	71321	
Plymouth	Grand Voyager	2.4	I-4	96-97	71318	
Plymouth	Grand Voyager	2.5	I-4	88	71317	
Plymouth	Grand Voyager	3.0	V-6	95-00	74484	
Plymouth	Grand Voyager	3.0	V-6	87-95	71317	
Plymouth	Grand Voyager	3.3	V-6	90-00	71318	
Plymouth	Grand Voyager	3.8	V-6	94-00	71318	
Plymouth	Horizon	2.2	I-4	88-90	71317	
Plymouth	Laser	all	I-4	90-94	74435	
Plymouth	Neon	2.0	I-4	95-01	71318	
Plymouth	Prowler	3.5	V-6	97, 99-00	71318	
Plymouth	Reliant	all	I-4	84-89	71317	
Plymouth	Sundance	2.2	I-4	91-94	74484	
Plymouth	Sundance	2.2	I-4	87-90	71317	
Plymouth	Sundance	2.5	I-4	91-94	74484	
Plymouth	Sundance	2.5	I-4	88-90	71317	71318
Plymouth	Sundance	3.0	V-6	92-94	71313	
Plymouth	Voyager	2.4	I-4	96-97	71318	
Plymouth	Voyager	2.5	I-4	88	71317	
Plymouth	Voyager	3.0	V-6	95-00	74484	
Plymouth	Voyager	3.0	V-6	87-95	71317	
Plymouth	Voyager	3.3	V-6	90-00	71318	
Plymouth	Voyager	3.8	V-6	94-00	71318	
PONTIAC						
Pontiac	all, except TBI and listed below	all	all	84-04	71318	
Pontiac	Grand Am	all	all	92-04	74485	
Pontiac	Sunbird	2.0	I-4	92-94	74485	
Pontiac	Sunfire	all	I-4	95-04	74485	
Pontiac	Vibe	1.8	I-4	03-04	74484	

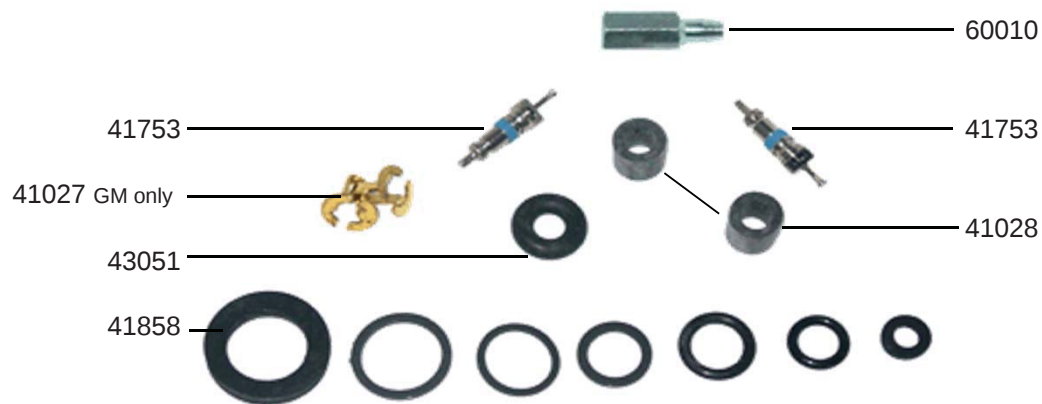
MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
PORSCHÉ						
Porsche	911	all	H-6	84-94	74435	
Porsche	911	all	H-6	95-04	71318	
Porsche	924	2.5	I-4	87-88	71408	
Porsche	928	all	V-8	78-84	71329	71305
Porsche	928	all	V-8	85-95	71408	
Porsche	944	all	I-4	83-91	71408	
Porsche	968	3.0	I-4	92-95	71408	
Porsche	Cayenne	all	all	03-04	71318	
Porsche	Carrera GT	5.7	V-10	04	71318	
Porsche	Boxster	all	H-6	97-04	71318	
SAAB						
Saab	900	all	I-4	85-97	74435	
Saab	900	2.5	V-6	94-97	71318	
Saab	900	all	I-4	94-98	74484	
Saab	9000	all	all	86-98	74435	
Saab	9-3	all	I-4	99-04	71318	
Saab	9-5	all	all	99-04	71318	
SATURN						
Saturn	all	all	all	91-04	71318	
SCION						
Scion	xA	1.5	I-4	04	74484	
Scion	xB	1.5	I-4	04	74484	
STERLING						
Sterling	825	2.5	V-6	87-88	74431	74435
Sterling	827	2.7	V-6	89-91	74431	74435
SUBARU						
Subaru	all	all	all	83-04	71317	
SUZUKI						
Suzuki	Aerio	all	I-4	02-04	71317	
Suzuki	Esteem	all	I-4	95-02	74471	
Suzuki	Forenza	2.0	I-4	04	71318	
Suzuki	Grand Vitara	all	V-6	99-04	74471	
Suzuki	Samurai	1.3	I-4	90-95	74431	
Suzuki	Sidekick	1.6	I-4	89-95	71317	
Suzuki	Sidekick	all	I-4	96-98	74471	
Suzuki	Swift	1.3	I-4	89-01	71317	
Suzuki	Verona	2.5	V-6	04	74484	
Suzuki	Vitara	all	I-4	99-04	74471	
Suzuki	X-90	1.6	I-4	96-98	74471	
Suzuki	XL-7	2.7	V-6	01-04	71317	
TOYOTA						
Toyota	4Runner	all	all	87-95	74435	
Toyota	4Runner	2.7	I-4	96-00	71330	
Toyota	4Runner	3.4	V-6	96-02	74435	
Toyota	4Runner	4.0	V-6	03-04	74484	
Toyota	4Runner	4.7	V-8	03-04	74435	
Toyota	Avalon	3.0	V-6	95-97	74435	
Toyota	Avalon	3.0	V-6	98-04	74484	
Toyota	Camry	all	all	84-01	74435	
Toyota	Camry	all	all	02-04	74484	
Toyota	Celica	all	all	84-99	74435	
Toyota	Celica	all	all	00-04	74484	
Toyota	Corolla	all	all	84-97	74435	
Toyota	Corolla	all	all	98-04	74484	
Toyota	Cressida	all	all	84-92	74435	74432
Toyota	Echo	all	all	00-04	74484	
Toyota	Highlander	all	all	01-04	74484	
Toyota	Land Cruiser	all	all	84-04	74435	
Toyota	Matrix	all	all	03-04	74484	
Toyota	Minivan	all	all	84-89	74435	74432
Toyota	RAV4	2.0	I-4	96-00	74435	
Toyota	RAV4	2.0	I-4	01-04	74484	
Toyota	MR2	all	all	85-89, 91-95	74435	74432
Toyota	MR2 Spyder	all	all	00-04	74484	
Toyota	Paseo	all	all	92-97	74435	
Toyota	Pickup	all	all	84-95	74435	
Toyota	Previa	all	all	91-97	74435	
Toyota	Prius	1.5	I-4	01-04	74484	
Toyota	Sequoia	4.7	V-8	01-04	74435	

MAKE	MODEL	SIZE	TYPE	YEAR	Adapter	Adapter
TOYOTA						
Toyota	Sienna	3.0	V-6	98-00	74435	
Toyota	Sienna	3.0	V-6	01-04	74484	
Toyota	Solara	2.2	I-4	99-01	74435	
Toyota	Solara	2.4	I-4	99-04	74484	
Toyota	Solara	3.0	V-6	99-04	74484	
Toyota	Supra	all	all	86-98	74434	74432
Toyota	T100	all	all	93-98	74435	
Toyota	Tacoma	2.4	I-4	95-04	74435	
Toyota	Tacoma	2.7	I-4	95-04	71330	
Toyota	Tacoma	3.4	V-6	95-04	74435	
Toyota	Terrel	all	all	84-98	74435	
Toyota	Tundra	all	all	00-04	74435	
VOLKSWAGEN						
Volkswagen	Beetle	all	I-4	01-04	74484	74485
Volkswagen	Beetle	all	I-4	98-00, 04	71317	
Volkswagen	Cabrio	2.0	I-4	95-02	71317	
Volkswagen	Cabriolet	1.8	I-4	85-89	74435	
Volkswagen	Cabriolet	all	I-4	90-95	71317	
Volkswagen	Corrado	all	all	90-95	71317	
Volkswagen	Eurovan	2.8	V-6	01-04	74484	74485
Volkswagen	Eurovan	all	all	92-00	71317	
Volkswagen	Fox	1.8	I-4	87-90	74435	
Volkswagen	Fox	1.8	I-4	91-93	71317	
Volkswagen	Golf	all	I-4	87-92	74435	
Volkswagen	Golf	all	all	85-04	71317	
Volkswagen	Golf	1.8	I-4	00-03	71329	71305
Volkswagen	Jetta	all	I-4	87-92	74435	
Volkswagen	Jetta	1.8	I-4	01-03	71329	71305
Volkswagen	Jetta	all	all	81-04	71317	
Volkswagen	Phaeton	all	all	04	71317	
Volkswagen	Passat	2.0	I-4	90-94	74435	
Volkswagen	Passat	all	all	91-97	71317	
Volkswagen	Passat	all	all	98-04	71329	71305
Volkswagen	Quantum	2.2	I-5	84-88	74435	
Volkswagen	Quantum	all	I-4	82-85	71317	
Volkswagen	R32	3.2	V-6	04	74484	
Volkswagen	Scirocco	1.8	I-4	87-89	74435	
Volkswagen	Touareg	3.2	V-6	04	71319	
Volkswagen	Touareg	4.2	V-8	04	71317	
Volkswagen	Vanagon	2.1	H-4	86-91	71317	
VOLVO						
Volvo	240	2.3	I-4	83-90	71329	
Volvo	240	2.3	I-4	90-93	71319	
Volvo	740	2.3	I-4	85-92	71329	
Volvo	760	all	all	84-90	71329	
Volvo	780	2.8	V-6	87-90	71329	
Volvo	850	all	all	93-97	71319	71329
Volvo	940	all	all	91-95	71319	71329
Volvo	960	2.9	I-6	92-97	71319	
Volvo	C70	all	I-5	98-04	71319	
Volvo	Coupe	2.3	I-4	91	71329	
Volvo	S40	1.9	I-4	00-04	71319	
Volvo	S60	all	I-5	01-04	71319	
Volvo	S70	all	I-5	98-00	71319	
Volvo	S80	all	I-6	99-04	71319	
Volvo	S90	2.9	I-6	97-98	71319	
Volvo	V40	1.9	I-4	00-04	71319	
Volvo	V70	all	I-5	98-04	71319	
Volvo	V90	2.9	I-6	97-98	71319	
Volvo	XC70	all	all	03-04	71319	
Volvo	XC90	all	all	03-04	71319	
YUGO						
Yugo	Cabrio	1.3	I-4	90-91	71317	
Yugo	GV	1.3	I-4	90-91	71317	



- 94430-0003 **TU-443 PlasticBox**
- 41576 90 DEG. BENT STEEL TUBING
w/2 3/8 INVERTED NUTS * 41576 * ZINC PLATED
- 42437 INSTRUCTION MANUAL
CIS & TBI MANUAL
- 42438 INSTRUCTION MANUAL
MASTER GLOBAL F.I. TEST KIT
- 52005 BLOW MOLDED BOX DELUXE FI
15x11x4-3/8 * 52005 *
- 56231 WARNING LABEL FI SET
2-7/8x5-7/8, SELF ADHESIVE BACKED, BLACK ON SILVER
- 56243 LABEL 'Made in U.S.A.'
* 56243 * 1-1/2X1-1/2, SELF-ADHESIVE BACKED, RED AND
BLUE ON WHITE HIGH GLOSS
- 59005 FOAM 9x6x1/4 GREY
- 60236 M16x1.5Fx3/8 TUBE
- 60238 M14x1.5 TUBE ADAPTER
- 60239 J-BODY ADAPTER
5/8-18 UNF STANDARD 3/8 INVERTED FLARE & M16x1.5 *
- 60410 M8x1.0 F ADAPTER BODY
* 60410 * M12x1.5 M OTHER END

60440	M10x1.0 F ADAPTER BODY M12x1.5 M OTHER END * 60440 *
71305	VOLVO ADAPTER
71308	GEO STORM ADAPTER
71313	HOSE ASSEMBLY . FORD EFI ADAPTER - METAL . SPRING LOCK CONNECTION
71314	HOSE ASSEMBLY FORD CFI ADAPTER
71317	MANIFOLD AND PLUG
71318	HOSE ASSEMBLY . STANDARD SCHRADER ADAPTER *
71319	HOSE ASSEMBLY . Small Schrader/Ford Adapter
71328	HOSE BARB & VALVE ASSY
71404	M8x1.0 ADAPTER ASSEMBLY M8x1.0/M12x1.5 w/O-RING * 71404 *
71405	M10x1.0 ADAPTER ASSEMBLY M10x1.0/M12x1.5 w/O-RING * 71405 *
71406	M8x1.0 ADAPTER ASSEMBLY M8x1.0/M12x1.5 w/O-RING * 71406 *
71408	HOSE ASSEMBLY w/B. VALVE for Bosch C. I. S. * 71408 *
72305	BENT TUBING & O-RING ASSY
72306	ADAPTER ASSEMBLY * 72306 * M16x1.5 MALE THREAD x 3/8 TUBE FITTING
72308	HOSE ASSEMBLY GMTBI * 72308 *
72309	ADAPTER ASSEMBLY M14x1.5 MALE x 3/8 TUBE w/O-RING * 72309 *
72321	FUEL HOSE ASSEMBLY
74431	M6x1.0 BANJO BOLT ASSY.
74432	M8x1.0 BANJO BOLT ASSY.
74433	M10x1.0 BANJO BOLT ASSY
74434	M12x1.25 BANJO BOLT ASSY
74435	M12x1.5 BANJO BOLT ASSY
74437	REPAIR PARTS KIT * 74437 * FUEL INJECTION
74438	GAUGE & HOSE ASSEMBLY 3.5 Gauge Valve Hose Tubing * 74438 *
74447	4' HOSE ONLY FOR 74438 GAUGE AND HOSE ASSEMBLY INCLUDES QUICK COUPLER
74455	PARTS KIT * 74455 * STRAIGHT TUBING, NUT, CLAMP



74437	REPAIR PARTS KIT	74437
41027	A/C DEPRESSOR BRASS	
41028	STANDARD SCHRADER SEAL	GM
41753	FUEL INJ. VALVE CORE	
41853	WASHER 90 DURO NITRILE	FORD
41856	8mm NYLOTRON WASHER	
41857	10mm NYLOTRON WASHER	
41858	12mm NITRILE WASHER	
41859	12mm NYLOTRON WASHER	
42441	INSTRUCTION SHEET	
43051	O-RING M6 .187 x .139	Honda
43081	O-RING M8 .239 ID x .070	
43101	O-Ring M10 thin .312x.078	
53001	3x5x4ml PLASTIC BAG	
60010	SLEEVE REMOVAL TOOL	