



FPT1000  
FPT5000

MANUEL DE JUEGO DE PRUEBA DE PRESIÓN DE COMBUSTIBLE

# FUEL PRESSURE TEST SET MANUAL



**Safety Information • Operating Instructions • Parts Breakdown**

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## *ENGLISH*

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# Safety Information



## ***Flying particles can cause eye injury***

- Wear safety goggles.
- Be sure all connections are secure.



## ***Fire can cause injury***

- Avoid excess fuel spillage.
- Do not smoke or cause sparks or flame in the vicinity.
- Check all connections for leaks before and after testing.



## ***Moving parts can cause injury***

- Keep yourself, clothing and test equipment clear of moving parts.



## ***Burn Risk***

- Do not touch engine components that are hot.



## ***Exposure to fuel or poisonous vapors can cause injury***

- Use this equipment in an adequately ventilated area.
- Do not siphon fuel by mouth or take internally.
- Avoid prolonged skin contact with fuel.



## ***Risk of sudden vehicle movement***

## **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.*

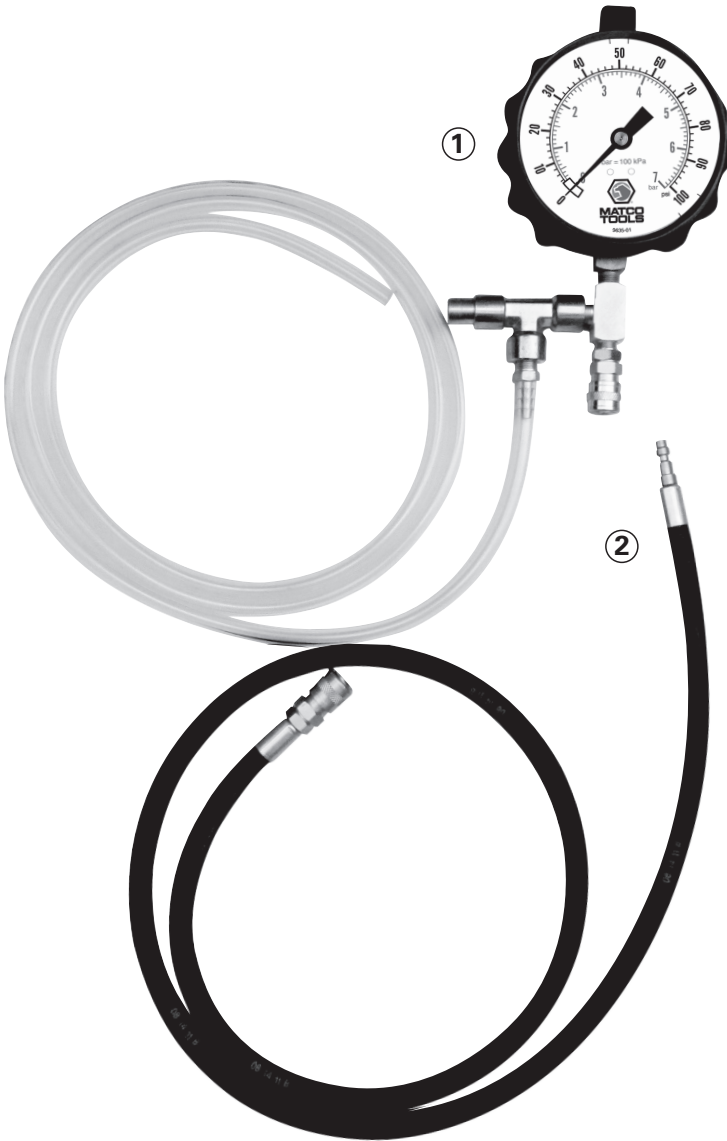
1. With engine off, locate fuel pressure port (Schrader Valve) and attach fuel pressure gauge. If no Schrader Valve is provided and system must be opened, residual pressure must be released before fittings are loosened to keep gasoline from spraying all over, possibly causing eye injury or a fire. See 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 table.
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
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 banjo bolt adapter into the quick coupler over a fuel container. Hold gauge above hose and fuel will flow into the fuel can.

# Parts List

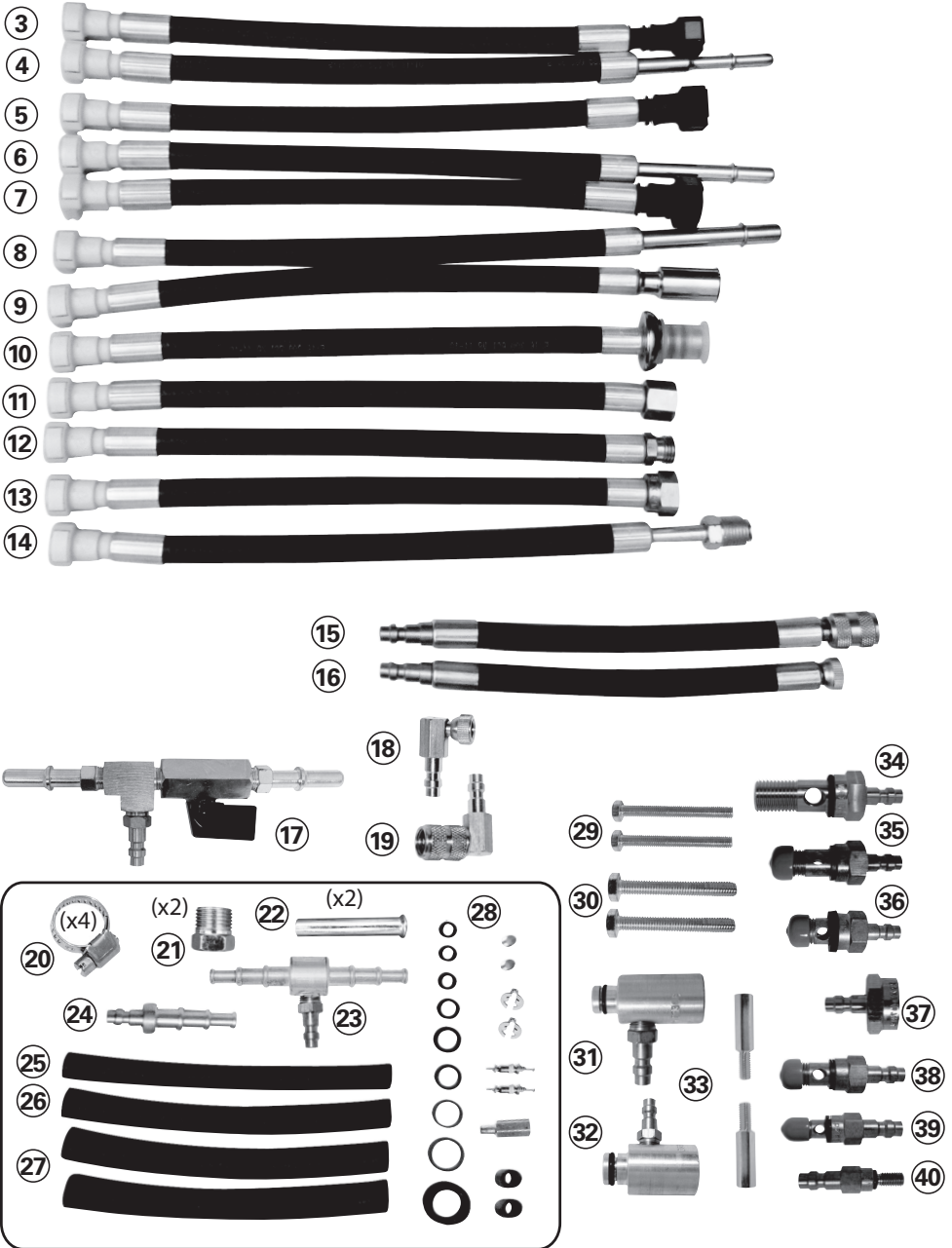
*When connecting inline hose adapters to the inline adapter manifold,*

| Number | Qty | Part# | Description                             |
|--------|-----|-------|---|
| 1      | 1   | 74510 | Gauge and Bleed-off Assembly            |
| 2      | 1   | 74511 | 4' Hose Assembly With Quick Coupler     |
| 3      | 1   | 74401 | 1/4" Female Adapter                     |
| 4      | 1   | 74402 | 1/4" Male Adapter                       |
| 5      | 1   | 74403 | 5/16" Female Adapter                    |
| 6      | 1   | 74404 | 5/16" Male Adapter                      |
| 7      | 1   | 74405 | 3/8" Female Adapter                     |
| 8      | 1   | 74406 | 3/8" Male Adapter                       |
| 9      | 1   | 74407 | Female Spring Lock Adapter              |
| 10     | 1   | 74408 | Male Spring Lock Adapter                |
| 11     | 1   | 74409 | Female Volvo Adapter                    |
| 12     | 1   | 74410 | Male Volvo Adapter                      |
| 13     | 1   | 74411 | Female Inverted Flare Adapter           |
| 14     | 1   | 74412 | Male Inverted Flare Adapter             |
| 15     | 1   | 71318 | Standard Schrader Hose Adapter          |
| 16     | 1   | 71319 | Small Schrader Hose Adapter             |
| 17     | 1   | 74400 | Inline Adapter Manifold                 |
| 18     | 1   | 74853 | Right Angle Small Schrader Adapter      |
| 19     | 1   | 74852 | Right Angle Standard Schrader Adapter   |
| 20     | 4   | 41152 | Hose Clamp                              |
| 21     | 2   | 12301 | 3/8" Flare Nut                          |
| 22     | 2   | 41575 | Steel Tubing                            |
| 23     | 1   | 71317 | Manifold With Quick Coupler Plug        |
| 24     | 1   | 74851 | Deadhead Aluminum Adapter               |
| 25     | 1   | 34021 | 1/4" Fuel Hose                          |
| 26     | 1   | 35031 | 5/16" Fuel Hose                         |
| 27     | 2   | 36032 | 3/8" Fuel Hose                          |
| 28     | 1   | 74423 | Repair Parts Kit                        |
| 29     | 2   | 41110 | Hex Screw                               |
| 30     | 2   | 41111 | Hex Screw                               |
| 31     | 1   | 71306 | M11 O-ring Adapter                      |
| 32     | 1   | 71321 | M16 O-ring Adapter                      |
| 33     | 2   | 61333 | 6mm Adapter Extension                   |
| 34     | 1   | 74471 | M14 x 1.50 Banjo Bolt Adapter           |
| 35     | 1   | 74435 | M12 x 1.50 Banjo Bolt Adapter           |
| 36     | 1   | 74434 | M12 x 1.25 Banjo Bolt Adapter           |
| 37     | 1   | 74426 | M12 x 1.00 Honda Pulse Dampener Adapter |
| 38     | 1   | 74433 | M10 x 1.00 Banjo Bolt Adapter           |
| 39     | 1   | 74432 | M8 x 1.00 Banjo Bolt Adapter            |
| 40     | 1   | 74431 | M6 x 1.00 Banjo Bolt Adapter            |
| N/A    | 1   | 42434 | Instruction Manual                      |
| N/A    | 1   | 52027 | Plastic Case                            |

# Parts List



# Parts List





## Información De Seguridad



### ***Las partículas disparadas pueden lesionar los ojos***

- Use gafas de seguridad.
- Cerciórese que todas las conexiones estén bien aseguradas.



### ***El fuego puede causar heridas***

- Evite las pérdidas excesivas de combustible.
- No fume o produzca chispas o fuego en las cercanías.



### ***Las piezas movibles pueden causar lesiones***

- Mantenga su cuerpo, ropa y el probador alejados de las piezas movibles.



### ***Riesgo de quemadura***

- No toque los componentes calientes del motor.



### ***La exposición a combustibles o vapores venenosos puede ser nociva***

- Use este equipo en un área correctamente ventilada.
- No haga sifón con la boca o ingiéralo.
- Evite el contacto prolongado de la piel con el combustible.



### ***Riesgo de movimiento súbito del vehículo***

## **CONTROLES DEL SISTEMA PREVIOS A LA PRUEBA**

***Se deben realizar los siguientes controles básicos y se debe corregir cualquier falla detectada antes de llevar a cabo una prueba de sistema de combustible:***

- A. Asegúrese de que no haya conductos de combustible averiados o sueltos (de metal o caucho).
- B. Asegúrese de que el tanque tenga suficiente combustible (no se fíe de los que marca el manómetro).
- C. Controle que no haya agua y otros contaminantes en el combustible.
- D. Controle el estado de los fusibles relacionados con el sistema de combustible.
- E. Controle el estado de los sistemas de ventilación del tanque de combustible.
- F. Controle el estado del tapón del tanque de combustible.

### **Sistema eléctrico.**

- A. Si el motor no enciende, controle las bujías con una bujía de prueba. Si no enciende de este modo, repare el sistema de encendido. El encendido dispara el inyector en la mayoría de los sistemas de inyección de combustible, de modo que si no encienden las bujías, no encenderá el inyector.
- B. Controle las luces del motor y otras luces indicadoras de fallas del ordenador.
- C. Asegúrese de que no haya cables de encendido averiados, desconectados o que produzcan descargas.
- D. Controle que la tapa del distribuidor y el rotor no estén desconectados o produciendo descargas.
- E. Asegúrese de que las bases de los componentes no estén sueltas u oxidadas.
- F. Asegúrese de que los componentes eléctricos no estén desconectados.

### **Sistema de batería y carga**

- A. Controle el estado de la batería. Una batería con poca carga no garantizará la correcta carga de la bomba o la activación del inyector. Debe ser superior a los 12 voltios.
- B. Controle el funcionamiento básico del sistema de carga.
- C. Asegúrese de que los cables de la batería no estén sueltos u oxidados.

### **Varios**

- A. Controle los conductos de vaciado para que no haya conductos sueltos o desconectados.
- B. Controle que no haya pérdidas de agua.
- C. Controle que no haya pérdidas de aceite excesivas.
- D. Esté atento a las pérdidas de aire audibles, los ruidos anormales y el zumbido de la bomba de combustible (una bomba ruidosa no es necesariamente un indicio de mal funcionamiento), sonidos o golpes del motor. E. Controle la sincronización y el ajuste de las válvulas.

## **PROCEDIMIENTO PARA ALIVIAR LA PRESIÓN DEL SISTEMA DE COMBUSTIBLE**

1. No fume.
2. Use gafas de seguridad.
3. Tenga cerca un extintor de incendios de polvo químico seco (Clase B).
4. Retire el casquete de gas con el motor apagado.
5. Desactive la bomba de combustible según lo especificado en el manual de servicio del fabricante.
6. Algunos vehículos tienen dos bombas de combustible. Asegúrese de que ambas estén desactivadas.
7. En algunos vehículos, un buen método para desactivar las bombas de combustible es quitarles los fusibles. Pero en otros vehículos, quitar los fusibles desactiva los inyectores

## **PROCEDIMIENTO PARA ALIVIAR LA PRESIÓN DEL SISTEMA DE COMBUSTIBLE (continuación)**

de combustible o el sistema de encendido, de modo que se debe utilizar otro método de desactivación. Consulte el manual de servicio del fabricante.

8. Gire la llave de encendido y encienda el motor.
9. Mantenga el motor encendido hasta que quede en punto muerto.
10. Intente volver a encenderlo en 3-5 segundos. En el caso de automóviles con alivio de presión del conmutador inercia, inicie el arranque durante 15 segundos para aliviar la presión de combustible.
11. Gire la llave para apagar el motor.

## **PRUEBATÍPICA DE PRESIÓN DE INYECCIÓN DE COMBUSTIBLE**

*Todas las pruebas de presión se deben hacer en punto muerto sobre el extremo de alta presión del sistema.*

1. Con el motor apagado, ubique el puerto de presión del combustible (válvula Schrader) y agregue un manómetro de combustible. Si no se proporciona una válvula Schrader y se debe abrir el sistema, se debe aliviar la presión residual antes de que se suelten los accesorios para evitar que se desparrame gasolina por todos lados y que pueda provocar una lesión ocular o un incendio. Consulte el PROCEDIMIENTO PARA ALIVIAR LA PRESIÓN DEL SISTEMA DE COMBUSTIBLE (arriba) y siga las instrucciones. Conecte el tester utilizando el adaptador y el punto de acceso correctos. Siempre envuelva el accesorio con una toalla para uso industrial antes de aflojarlo.
2. Si el adaptador que está utilizando es un adaptador de perno banjo, el nuestro está diseñado para utilizarse con pernos banjo convencionales. Si el fabricante de un automóvil utiliza un perno banjo no convencional, es posible que se necesite más de una arandela en uno o en ambos lados del perno banjo. Es posible que nuestro adaptador de perno banjo de M12 x 1.25 necesite de una o más arandelas gruesas o finas dependiendo de la aplicación.
3. Con el manómetro conectado o derivado hacia el sistema mediante los adaptadores adecuados, reactive la bomba de combustible, encienda el motor y compruebe que no haya fugas. Si no se detecta ninguna fuga, controle el manómetro. La presión debe aumentar ligeramente por encima de la presión operativa y luego estabilizarse al nivel de la presión operativa (según las especificaciones del fabricante). Consulte nuestra tabla de aplicaciones y especificaciones de adaptadores.
4. Encienda el motor. Si se utiliza un regulador de presión de combustible, la presión se debe mantener durante el encendido. Si se utiliza un regulador compensador de presión de combustible, la presión debería bajar a aproximadamente 8-9 PSI (libras por pulgada cuadrada), dependiendo del colector de vacío.
5. Busque una manguera flexible en el extremo de retención y libere con suavidad el flujo de retención brevemente. Nunca apriete una manguera trenzada de acero. **PRECAUCIÓN:** Los diseños de algunas bombas pueden dañarse en la prueba, por lo que la prueba no se debe realizar salvo que lo recomiende el fabricante. Controle si hay un aumento rápido en la presión del extremo cerrado. **PRECAUCIÓN:** La presión podría exceder las 75 PSI y podría hacer saltar los accesorios sueltos o los conductos defectuosos. Controle el estado del sistema antes de esta prueba.

## **PRUEBA TÍPICA DE PRESIÓN DE INYECCIÓN DE COMBUSTIBLE (continuación)**

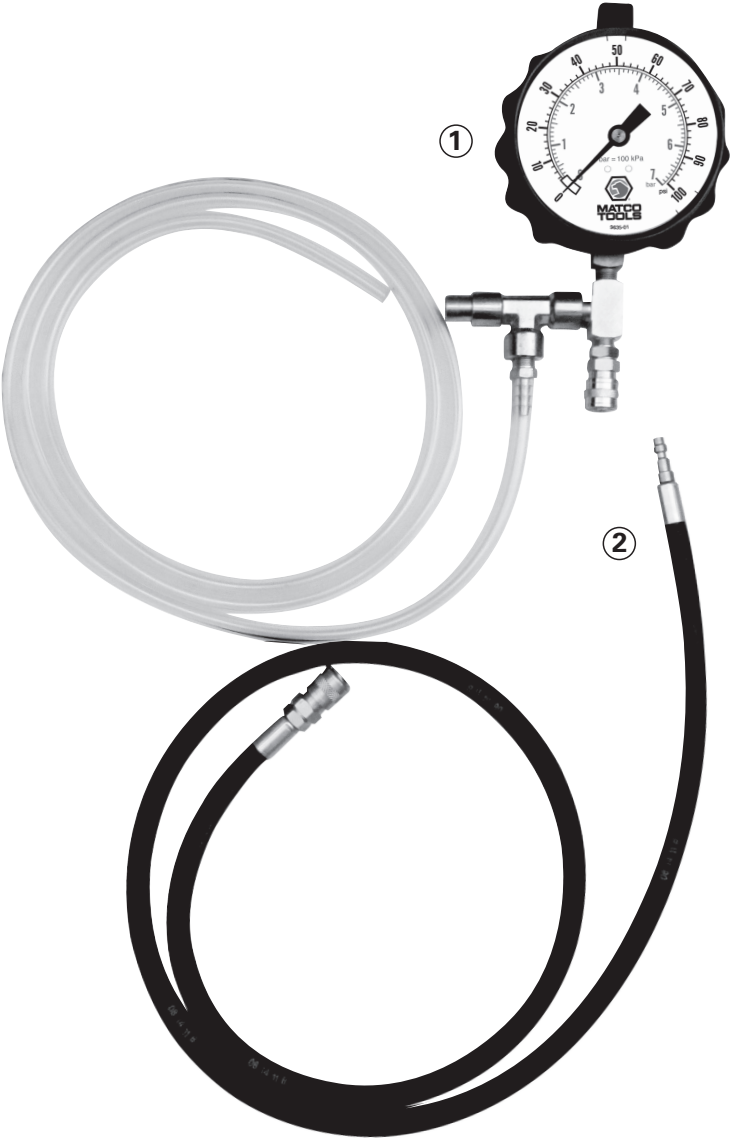
6. Si la presión está en un nivel aceptable, algunos fabricantes también exigen una prueba de flujo. De ser así, en este punto, abra el sistema de combustible, viértalo en un recipiente plástico con medidas y controle la tasa de flujo (ejemplo: una pinta/15 segundos). Cierre el sistema.
7. Gire la llave para apagar el motor y controle la presión residual. Algunos fabricantes indican un tiempo mínimo de espera.
8. Junto con un tester de pulso de inyectores, gire la llave para encender el motor, controle la presión, pulse un inyector, controle cómo baja la presión, gire la llave para apagar el motor, coloque el tester en el siguiente inyector, gire la llave para encender el motor, pulse el inyector, controle cómo baja la presión, gire la llave para apagar el motor, continúe con los inyectores restantes. **PRECAUCIÓN:** No repita esta prueba más de lo que recomienda el fabricante. El motor podría inundarse.
9. Desactive la bomba de combustible y retire el sistema de combustible si fuera necesario. Con el motor apagado, coloque la tubería de purga en una lata para combustible y presione la válvula de purga.
10. Quite el tester y vuelva a conectar todos los conductos.
11. Encienda el motor y controle que no haya fugas.
12. Extraiga el combustible de todas las mangueras. Si quedan restos de combustible en el conjunto de mangueras del manómetro, conecte el adaptador de perno banjo más pequeño a un acoplador rápido sobre un recipiente de combustible. Mantenga el manómetro sobre la manguera y el adaptador de perno banjo en un acoplador rápido sobre un recipiente de combustible. Mantenga el manómetro sobre la manguera y el combustible caerá en la lata.

# Lista De Piezas

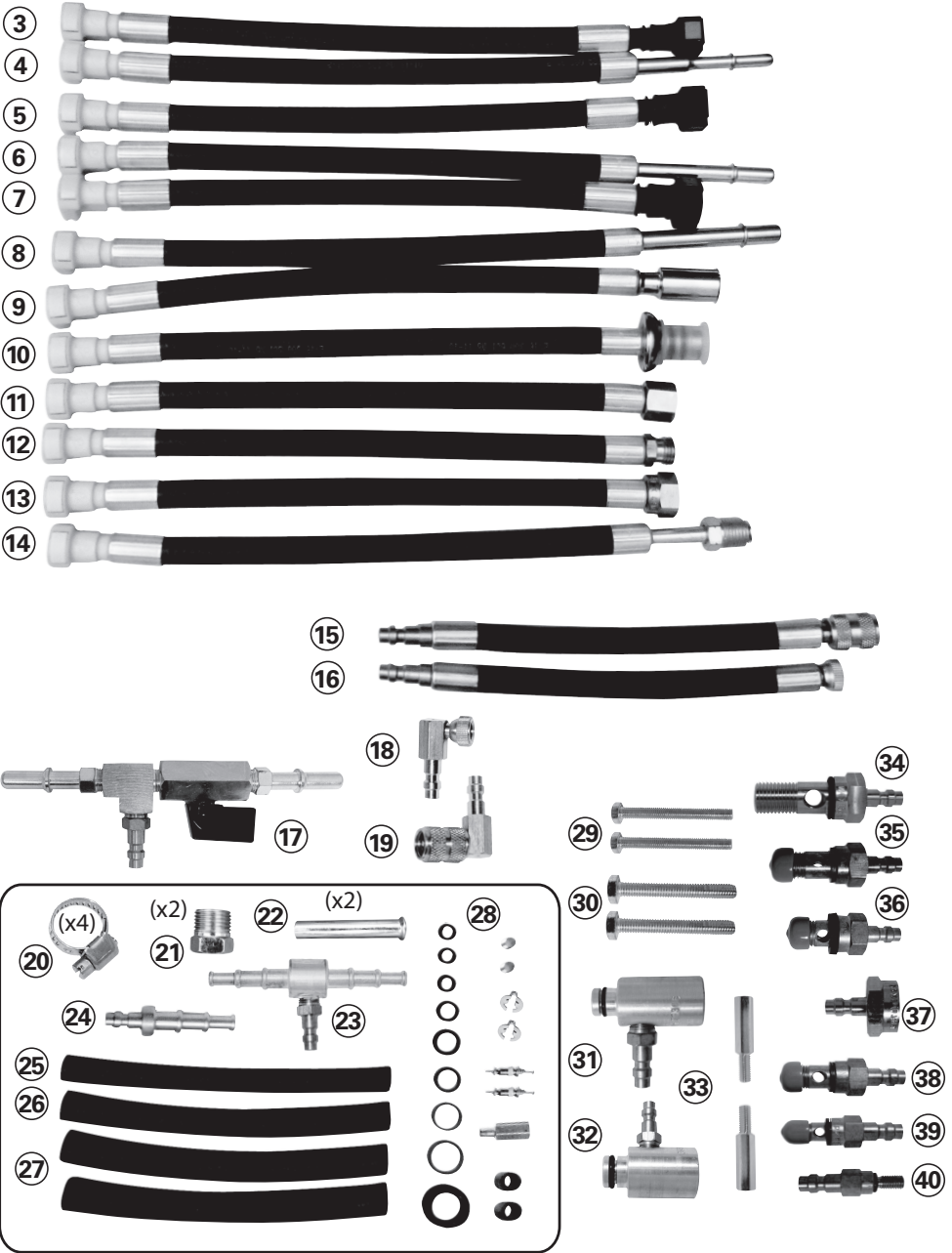
*Al conectar adaptadores de manguera en línea al colector del adaptador en línea, el conector blanco siempre debe estar conectado al colector.*

| Number | Qty | Part# | Description                                      |
|--------|-----|-------|--|
| 1      | 1   | 74510 | Manómetro y conjunto de purga                    |
| 2      | 1   | 74511 | Conjunto de mangueras de 4' con acoplador rápido |
| 3      | 1   | 74401 | Adaptador hembra de 1/4"                         |
| 4      | 1   | 74402 | Adaptador macho de 1/4"                          |
| 5      | 1   | 74403 | Adaptador hembra de 5/16"                        |
| 6      | 1   | 74404 | Adaptador macho de 5/16"                         |
| 7      | 1   | 74405 | Adaptador hembra de 3/8"                         |
| 8      | 1   | 74406 | Adaptador macho de 3/8"                          |
| 9      | 1   | 74407 | Adaptador hembra de cerradura de muelle          |
| 10     | 1   | 74408 | Adaptador macho de cerradura de muelle           |
| 11     | 1   | 74409 | Adaptador hembra para Volvo                      |
| 12     | 1   | 74410 | Adaptador macho para Volvo                       |
| 13     | 1   | 74411 | Adaptador hembra de combustión invertida         |
| 14     | 1   | 74412 | Adaptador macho de combustión invertida          |
| 15     | 1   | 71318 | Adaptador de manguera Schrader estándar          |
| 16     | 1   | 71319 | Adaptador de manguera Schrader pequeño           |
| 17     | 1   | 74400 | Colector de adaptador en línea                   |
| 18     | 1   | 74853 | Adaptador Schrader pequeño de ángulo derecho     |
| 19     | 1   | 74852 | Adaptador Schrader estándar de ángulo derecho    |
| 20     | 4   | 41152 | Abrazadera de manguera                           |
| 21     | 2   | 12301 | Tuerca cónica de 3/8"                            |
| 22     | 2   | 41575 | Tubería de acero                                 |
| 23     | 1   | 71317 | Colector de tapón de acoplador rápido            |
| 24     | 1   | 74851 | Adaptador de aluminio sin cabezal                |
| 25     | 1   | 34021 | Manguera de combustible de 1/4"                  |
| 26     | 1   | 35031 | Manguera de combustible de 5/16"                 |
| 27     | 2   | 36032 | Manguera de combustible de 3/8"                  |
| 28     | 1   | 74423 | Kit de repuestos                                 |
| 29     | 2   | 41110 | Tornillo hexagonal                               |
| 30     | 2   | 41111 | Tornillo hexagonal                               |
| 31     | 1   | 71306 | Adaptador de junta tórica M11                    |
| 32     | 1   | 71321 | Adaptador de junta tórica M16                    |
| 33     | 2   | 61333 | Extensión de adaptador de 6mm                    |
| 34     | 1   | 74471 | Adaptador de perno banjo M14 x 1.50              |
| 35     | 1   | 74435 | Adaptador de perno banjo M12 x 1.50              |
| 36     | 1   | 74434 | Adaptador de perno banjo M12 x 1.25              |
| 37     | 1   | 74426 | Adaptador amortiguador de pulso Honda M12 x 1.00 |
| 38     | 1   | 74433 | Adaptador de perno banjo M10 x 1.00              |
| 39     | 1   | 74432 | Adaptador de perno banjo M8 x 1.00               |
| 40     | 1   | 74431 | Adaptador de perno banjo M6 x 1.00               |
| N/A    | 1   | 42434 | Manual de instrucciones                          |
| N/A    | 1   | 52027 | Caja de plástico                                 |

# Lista De Piezas



# Lista De Piezas



# APPLICATIONS

| MAKE              | MODEL                            | SIZE | TYPE      | YEAR   | ADAPTER     | ADAPTER     |
|-------------------|----------------------------------|------|-----------|--------|-------------|-------------|
| <b>ACURA</b>      |                                  |      |           |        |             |             |
| 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       | 74400+03+04 |
| Acura             | Integra                          | all  | I-4       | 86-96  | 74431       |             |
| Acura             | Integra                          | 1.8  | I-4       | 97-01  | 74435       |             |
| Acura             | Legend                           | all  | V-6       | 86-95  | 74431       |             |
| Acura             | MDX                              | 3.5  | V-6       | 01-05  | 74426       |             |
| Acura             | MDX                              | 3.7  | V-6       | 06-10  | 74426       |             |
| Acura             | NSX                              | all  | V-6       | 91-05  | 74431       |             |
| Acura             | RL                               | 3.5  | V-6       | 96-08  | 74431       | 74434       |
| Acura             | RL                               | 3.7  | V-6       | 09-10  | 74400+03+04 |             |
| Acura             | RSX                              | 2.0  | I-4       | 02-06  | 74400+03+04 |             |
| 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 | 96-08  | 74426       | 74400+03+04 |
| Acura             | TL, S-TYPE                       | 3.5  | V-6 V-TEC | 10-Sep | 74400+03+04 |             |
| Acura             | TSX                              | 2.4  | I-4       | 04-09  | 74400+03+04 |             |
| Acura             | TSX                              | 3.5  | V-6       | 10     | 74400+03+04 |             |
| Acura             | Vigor                            | 2.5  | I-5       | 91-94  | 74431       |             |
| <b>ALFA ROMEO</b> |                                  |      |           |        |             |             |
| Alfa Romeo        | 164, Milano, Spider              | all  | all       | 84-95  | 71317       |             |
| <b>AUDI</b>       |                                  |      |           |        |             |             |
| Audi              | 80                               | all  | all       | 88-92  | 74435       |             |
| Audi              | 90                               | all  | all       | 88-91  | 74435       |             |
| Audi              | 90                               | 2.8  | V-6       | 93-95  | 74400+09+10 |             |
| Audi              | 100                              | 2.3  | I-5       | 89-91  | 74435       |             |
| Audi              | 100                              | 2.8  | V-6       | 92-94  | 74400+09+10 |             |
| Audi              | 200                              | 2.2  | I-5       | 89-91  | 74435       |             |
| Audi              | A,R,S-series, allroad, cabriolet | all  | all       | 95-10  | 74400+09+10 |             |
| Audi              | TT                               | 1.8  | I-4       | 00-07  | 74400+09+10 |             |
| Audi              | TT                               | 2.0  | I-4       | 08-10  | 74400+07+08 |             |
| Audi              | TT                               | 3.2  | V-6       | 04     | 74400+03+04 |             |
| <b>BMW</b>        |                                  |      |           |        |             |             |
| BMW               | 3,5,6,7,8,M,X,Z Series           | all  | all       | 75-95  | 71317       |             |
| BMW               | 1,3,5,6,7,8,M,X,Z Series         | all  | all       | 96-10  | 71319       | 74400+03+04 |
| BMW               | M3                               | all  | all       | 95-08  | 71319       | 74400+03+04 |
| BMW               | 7,8 series                       | all  | all       | 88-10  | 71317       |             |
| <b>BUICK</b>      |                                  |      |           |        |             |             |
| Buick             | all, except TBI                  | all  | all       | 84-10  | 71318       |             |
| Buick             | Century                          | 2.4  | I-4       | 93-96  | 74400+05+06 |             |
| Buick             | Century                          | 3.1  | V-6       | 97-05  | 74400+05+06 |             |
| Buick             | Rainier                          | 4.2  | I-6       | 04-07  | 74400+05+06 |             |
| Buick             | Rendezvous                       | 3.6  | V-6       | 06     | 74400+07+08 |             |
| Buick             | Roadmaster                       | all  | V-8       | 91-96  | 74400+05+06 |             |
| Buick             | Skylark                          | all  | I-4       | 95-98  | 74400+05+06 |             |
| Buick             | Terraza                          | 3.5  | V6        | 05-06  | 74400+07+08 |             |
| <b>CADILLAC</b>   |                                  |      |           |        |             |             |
| Cadillac          | all, except TBI                  | all  | all       | 80-10  | 71318       |             |
| Cadillac          | Escalade                         | 6.2  | V-8       | 06-08  | 74400+07+08 |             |
| Cadillac          | STS                              | 3.6  | V-6       | 05     | 74400+07+08 |             |
| Cadillac          | XLR                              | 4.6  | V-8       | 04-08  | 71317       |             |
| <b>CHEVROLET</b>  |                                  |      |           |        |             |             |
| Chevrolet         | all, except TBI                  | all  | all       | 85-10  | 71318       |             |
| Chevrolet         | Tracker                          | all  | I-4       | 98-10  | 74471       |             |
| Chevrolet         | Tracker, Metro, Sprint           | all  | all       | 87-10  | 71317       |             |



# APPLICATIONS

| MAKE            | MODEL                       | SIZE | TYPE      | YEAR      | ADAPTER     | ADAPTER |
|-----------------|-----------------------------|------|-----------|-----------|-------------|---------|
| Chevrolet       | Nova, Spectrum              | all  | all       | 87-89     | 74432       |         |
| Chevrolet       | Prizm                       | all  | all       | 98-02     | 74400+03+04 |         |
| Chevrolet       | Prizm                       | all  | all       | 90-04     | 74400+05+06 |         |
| Chevrolet       | Beretta                     | 2.2  | I-4       | 92-96     | 74400+05+06 |         |
| Chevrolet       | Cavalier                    | all  | I-4       | 92-03     | 74400+05+06 |         |
| Chevrolet       | Cobalt                      | all  | I-4       | 06-10     | 74400+03+04 |         |
| Chevrolet       | Corsica                     | all  | I-4       | 90-96     | 74400+05+06 |         |
| Chevrolet       | Lumina                      | all  | I-4       | 92-93     | 74400+05+06 |         |
| Chevrolet       | Malibu                      | all  | I-4       | 97-98, 04 | 74400+05+06 |         |
| Chevrolet       | S10 Blazer, Pickup          | all  | I-4       | 94-03     | 74400+05+06 |         |
| Chevrolet       | TrailBlazer                 | 4.2  | I-6       | 02-07     | 74400+05+06 |         |
| <b>CHRYSLER</b> |                             |      |           |           |             |         |
| Chrysler        | all, except TBI             | all  | all       | 84-10     | 71318       |         |
| Chrysler        | 300                         | all  | V-6       | 05        | 74400+03+04 |         |
| Chrysler        | 300                         | 5.7  | V-8       | 05        | 74400+05+06 |         |
| Chrysler        | 300M                        | 3.5  | V-6       | 99-04     | 74400+03+04 |         |
| Chrysler        | Cirrus                      | 2.5  | V-6       | 95-00     | 74400+03+04 |         |
| Chrysler        | Concorde                    | 2.7  | V-6       | 98-04     | 74400+03+04 |         |
| Chrysler        | Concorde                    | 3.5  | V-6       | 03-04     | 74400+03+04 |         |
| Chrysler        | Conquest TSi                | 2.6  | I-4       | 88-89     | 74435       |         |
| Chrysler        | Crossfire                   | 3.2  | V-6       | 05-08     | 74852       |         |
| Chrysler        | Grand Voyager               | 3.0  | V-6       | 00        | 74400+03+04 |         |
| 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     | 74400+03+04 |         |
| Chrysler        | New Yorker                  | 3.0  | V-6       | 88-89     | 71317       |         |
| Chrysler        | Pacifica                    | 3.5  | V-6       | 04-05     | 74400+03+04 |         |
| Chrysler        | PT Cruiser                  | all  | I-4 TURBO | 01-09     | 74400+03+04 |         |
| Chrysler        | Sebring                     | 2.5  | V-6       | 95-00     | 74400+03+04 | 71321   |
| Chrysler        | Sebring                     | 2.7  | V-6       | 01-05     | 74400+03+04 |         |
| Chrysler        | Sebring                     | 3.0  | V-6       | 01-05     | 71321       |         |
| Chrysler        | TC                          | 3.0  | V-6       | 89-91     | 74400+07+08 |         |
| Chrysler        | Town & Country              | 3.8  | V-6       | 94-09     | 74400+03+04 |         |
| Chrysler        | Voyager                     | 3.0  | V-6       | 00        | 74400+03+04 |         |
| <b>DAEWOO</b>   |                             |      |           |           |             |         |
| Daewoo          | all                         | all  | all       | 99-02     | 71318       |         |
| <b>DAIHATSU</b> |                             |      |           |           |             |         |
| Daihatsu        | all                         | all  | all       | 88-92     | 74435       |         |
| <b>DODGE</b>    |                             |      |           |           |             |         |
| Dodge           | all, except TBI             | all  | all       | 84-10     | 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        | 74400+03+04 |         |
| 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     | 74400+03+04 |         |
| Dodge           | Caravan                     | 3.0  | V-6       | 87-94     | 71317       |         |
| Dodge           | Caravan                     | 3.0  | V-6       | 95-00     | 74400+03+04 |         |
| 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     | 74400+03+04 |         |

# APPLICATIONS

| MAKE         | MODEL                    | SIZE | TYPE | YEAR  | ADAPTER     | ADAPTER |
|--------------|--------------------------|------|------|-------|-------------|---------|
| 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 | 74400+03+04 |         |
| 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  | 94-10 | 74400+03+04 |         |
| Dodge        | Grand Caravan            | 3.8  | V-6  | 94-10 | 74400+03+04 |         |
| Dodge        | Intrepid                 | 2.7  | V-6  | 98-04 | 74400+03+04 |         |
| Dodge        | Lancer                   | all  | I-4  | 85-89 | 71317       | 71318   |
| Dodge        | Magnum                   | all  | V-6  | 05-08 | 74400+03+04 |         |
| Dodge        | Magnum                   | 5.7  | V-8  | 05-08 | 74400+05+06 |         |
| Dodge        | Mini Ram Van             | all  | all  | 84-88 | 71317       |         |
| Dodge        | Monaco                   | 3.0  | V-6  | 90-92 | 74400+05+06 |         |
| 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 | 74400+03+04 |         |
| Dodge        | Shadow                   | 2.5  | I-4  | 90-94 | 74400+03+04 | 71318   |
| Dodge        | Shadow                   | 3.0  | V-6  | 87-94 | 71317       |         |
| Dodge        | Spirit                   | all  | all  | 89-90 | 71317       |         |
| Dodge        | Spirit                   | all  | all  | 91-95 | 74400+03+04 |         |
| Dodge        | Stealth                  | 3.0  | V-6  | 91-96 | 71321       |         |
| Dodge        | Stratus                  | 2.5  | V-6  | 95-00 | 74400+03+04 |         |
| Dodge        | Stratus                  | 2.7  | V-6  | 01-04 | 74400+03+04 |         |
| Dodge        | Stratus                  | 3.0  | V-6  | 01-04 | 74400+03+04 |         |
| <b>EAGLE</b> |                          |      |      |       |             |         |
| Eagle        | Summit, Talon, Vista     | all  | all  | 89-98 | 74435       |         |
| Eagle        | Medallion                | 2.2  | I-4  | 88-89 | 71317       |         |
| Eagle        | Premier                  | all  | all  | 88-92 | 74400+05+06 |         |
| Eagle        | Vision                   | all  | V-6  | 93-97 | 71318       |         |
| <b>FORD</b>  |                          |      |      |       |             |         |
| Ford         | all, except TBI          | all  | all  | 83-10 | 71319       |         |
| Ford         | Aspire                   | 1.3  | I-4  | 94-97 | 71317       |         |
| Ford         | Bronco                   | 5.0  | V-8  | 85-86 | 74400+07+08 |         |
| Ford         | Crown Victoria           | 4.6  | V-8  | 92-04 | 74400+07+08 |         |
| Ford         | 150, 250, 350 Econoline  | 5.0  | V-8  | 86    | 74400+07+08 |         |
| Ford         | Escape                   | 2.0  | I-4  | 01-05 | 74400+07+08 |         |
| Ford         | Escape                   | 2.3  | I-4  | 06-08 | 74400+03+04 |         |
| Ford         | Escape                   | 3.0  | V-6  | 01-05 | 74400+03+04 |         |
| Ford         | Escort                   | 1.9  | I-4  | 87-90 | 74400+07+08 |         |
| Ford         | Escort                   | 2.0  | I-4  | 01-03 | 74400+07+08 |         |
| Ford         | EXP                      | 1.6  | I-4  | 84-85 | 74400+07+08 |         |
| Ford         | Explorer                 | 4.0  | V-6  | 97-08 | 74400+03+04 |         |
| Ford         | Explorer                 | 4.6  | V-8  | 02-08 | 74400+07+08 |         |
| Ford         | 150, 250, 350 F-Series   | 5.0  | V-8  | 85-86 | 74400+07+08 |         |
| Ford         | 150, 250, 350 F-Series   | 5.4  | V-8  | 04    | 74400+07+08 |         |
| Ford         | Freestar                 | all  | V-6  | 04    | 74400+07+08 |         |
| Ford         | Festiva                  | 1.3  | I-4  | 88-93 | 71317       |         |
| Ford         | Focus                    | 2.0  | I-4  | 00-08 | 74400+03+04 |         |
| Ford         | Mustang                  | 3.8  | V-6  | 04    | 74400+07+08 |         |
| Ford         | Mustang                  | 4.0  | V-6  | 05-08 | 74400+03+04 |         |
| Ford         | Mustang                  | 4.6  | V-8  | 96-08 | 74400+07+08 |         |
| Ford         | Mustang                  | 5.4  | V-8  | 07-09 | 74400+03+04 |         |

# APPLICATIONS

| MAKE           | MODEL           | SIZE | TYPE | YEAR  | ADAPTER     | ADAPTER     |
|----------------|-----------------|------|------|-------|-------------|-------------|
| Ford           | Probe           | 2.2  | I-4  | 89-92 | 71317       |             |
| Ford           | Taurus          | 2.5  | I-4  | 86-91 | 74400+07+08 |             |
| Ford           | Taurus          | 3.0  | V-6  | 96-08 | 74400+05+06 |             |
| Ford           | Tempo           | 2.3  | I-4  | 85-87 | 74400+03+04 |             |
| <b>GEO</b>     |                 |      |      |       |             |             |
| Geo            | Metro           | all  | all  | 89-97 | 71317       |             |
| Geo            | Prizm           | all  | I-4  | 97    | 74400+03+04 |             |
| Geo            | Prizm           | all  | all  | 89-96 | 74432       |             |
| Geo            | Spectrum        | 1.5  | I-4  | 89    | 74432       |             |
| Geo            | Storm           | all  | I-4  | 90-93 | 74400+11+12 |             |
| Geo            | Tracker         | 1.6  | I-4  | 94-97 | 74471       |             |
| Geo            | Tracker, TBI    | 1.6  | I-4  | 89-95 | 74431       |             |
| <b>GMC</b>     |                 |      |      |       |             |             |
| GMC            | all, except TBI | all  | all  | 85-04 | 71318       |             |
| GMC            | all, except TBI | all  | all  | 05-09 | 74400+07+08 |             |
| GMC            | Canyon          | all  | all  | 07-09 | 74400+03+04 |             |
| GMC            | Envoy           | all  | all  | 02-08 | 74400+05+06 |             |
| GMC            | Sierra          | all  | all  | 05-09 | 74400+03+04 |             |
| GMC            | Sonoma          | 2.2  | I-4  | 94-03 | 74400+05+06 |             |
| GMC            | Yukon           | all  | all  | 06-09 | 74400+03+04 |             |
| <b>HONDA</b>   |                 |      |      |       |             |             |
| Honda          | Accord          | all  | all  | 85-97 | 74431       |             |
| Honda          | Accord          | all  | all  | 97-02 | 74435       |             |
| Honda          | Accord          | all  | all  | 03-09 | 74400+01+02 |             |
| Honda          | Civic           | all  | I-4  | 85-96 | 74431       |             |
| Honda          | Civic           | 1.6  | I-4  | 97-00 | 74435       |             |
| Honda          | Civic           | all  | I-4  | 01-09 | 74400+01+02 |             |
| Honda          | CR-V            | all  | I-4  | 97-04 | 74435       |             |
| Honda          | CR-V            | all  | I-4  | 05-09 | 74400+01+02 |             |
| 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  | 03-09 | 74400+01+02 |             |
| Honda          | Fit             | 1.5  | I-4  | 07-09 | 74400+01+02 |             |
| Honda          | Insight         | 1.0  | I-3  | 00-09 | 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          | Odyssey         | 3.5  | V-6  | 05-09 | 74400+01+02 |             |
| Honda          | Odyssey         | 3.5  | V-6  | 05-09 | 74400+03+04 |             |
| 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          | Pilot           | 3.5  | V-6  | 05-09 | 74400+01+02 |             |
| Honda          | Prelude         | all  | I-4  | 85-96 | 74431       |             |
| Honda          | Prelude         | 2.2  | I-4  | 97-01 | 74435       |             |
| Honda          | Ridgeline       | all  | V-6  | 05-09 | 74400+01+02 |             |
| Honda          | S2000           | all  | I-4  | 00-05 | 74426       |             |
| Honda          | S2000           | all  | I-4  | 06-09 | 74400+01+02 |             |
| <b>HUMMER</b>  |                 |      |      |       |             |             |
| Hummer         | all, except TBI | all  | V-8  | 93-08 | 71318       |             |
| <b>HYUNDAI</b> |                 |      |      |       |             |             |
| Hyundai        | all, except TBI | all  | all  | 04-10 | 71321       | 74400+09+10 |
| 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 | 74400+09+10 |             |
| Hyundai        | Elantra         | 2.0  | I-4  | 04    | 74400+09+10 |             |

# APPLICATIONS

| MAKE            | MODEL       | SIZE | TYPE | YEAR   | ADAPTER     | ADAPTER     |
|-----------------|-------------|------|------|--------|-------------|-------------|
| Hyundai         | Excel       | 1.5  | I-4  | 90-94  | 74435       |             |
| Hyundai         | Santa Fe    | all  | all  | 01-04  | 71321       | 74400+09+10 |
| Hyundai         | Scoupe      | 1.5  | I-4  | 91-95  | 74435       |             |
| Hyundai         | Sonata      | all  | all  | 89-98  | 74435       |             |
| Hyundai         | Sonata      | all  | all  | 92-03  | 74400+09+10 |             |
| Hyundai         | Sonata      | all  | all  | 04     | 71321       | 74400+09+10 |
| Hyundai         | Tiburon     | all  | I-4  | 97-01  | 74400+09+10 |             |
| Hyundai         | Tiburon     | all  | all  | 03-04  | 71321       |             |
| Hyundai         | XG300       | 3.0  | V-6  | 01     | 71321       |             |
| Hyundai         | XG350       | 3.5  | V-6  | 02-04  | 71321       |             |
| <b>INFINITI</b> |             |      |      |        |             |             |
| Infiniti        | FX35        | 3.5  | V-6  | 03-10  | 71306       |             |
| Infiniti        | FX45        | 4.5  | V-8  | 03-10  | 71306       |             |
| Infiniti        | G20         | 2.0  | I-4  | 91-02  | 71317       |             |
| Infiniti        | G35         | 3.5  | V-6  | 03-10  | 71306       |             |
| Infiniti        | G37         | 3.7  | V-6  | 08-10  | 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  | 03-10  | 74400+11+12 |             |
| Infiniti        | Q45         | all  | V-8  | 90-01  | 71317       |             |
| Infiniti        | Q45         | 4.5  | V-8  | 02-04  | 74400+11+12 |             |
| Infiniti        | QX4         | all  | V-6  | 97-03  | 74400+11+12 |             |
| Infiniti        | QX56        | 5.6  | V-8  | 04-09  | 74400+11+12 |             |
| <b>ISUZU</b>    |             |      |      |        |             |             |
| Isuzu           | Amigo       | 2.6  | I-4  | 89-94  | 71317       |             |
| Isuzu           | Amigo       | all  | all  | 98-00  | 71318       |             |
| Isuzu           | Ascender    | all  | all  | 03-08  | 71318       |             |
| Isuzu           | Axiom       | 3.5  | V-6  | 02-04  | 71318       |             |
| Isuzu           | Hombre      | 2.2  | I-4  | 96-00  | 74400+05+06 |             |
| Isuzu           | Hombre      | 4.3  | V-6  | 97-00  | 71318       |             |
| Isuzu           | i-280       | 2.8  | I-4  | 06     | 71318       |             |
| Isuzu           | i-280       | 2.9  | I-4  | 07-09  | 71318       |             |
| Isuzu           | i-370       | 3.7  | I-5  | 06-'09 | 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  | 74400+05+06 |             |
| Isuzu           | Rodeo       | 3.2  | V-6  | 93-04  | 71318       |             |
| Isuzu           | Rodeo Sport | 2.2  | I-4  | 01-03  | 74400+05+06 |             |
| 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       |             |
| <b>JAGUAR</b>   |             |      |      |        |             |             |
| Jaguar          | S-Type      | all  | all  | 00-05  | 71319       |             |
| Jaguar          | S-Type      | all  | all  | 06-09  | 74400+07+08 |             |
| Jaguar          | Vanden Plas | 4.2  | I-6  | 82-87  | 71317       |             |
| Jaguar          | Vanden Plas | all  | all  | 88-97  | 74400+09+10 |             |
| 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       |             |

# APPLICATIONS

| MAKE              | MODEL               | SIZE | TYPE | YEAR   | ADAPTER     | ADAPTER     |
|-------------------|---------------------|------|------|--------|-------------|-------------|
| Jaguar            | XJ6                 | all  | I-6  | 88-96  | 74400+09+10 |             |
| Jaguar            | XJ8                 | all  | V-8  | 98-05  | 71319       |             |
| Jaguar            | XJ8                 | all  | V-8  | 06-09  | 74400+07+08 |             |
| Jaguar            | XJR                 | all  | V-8  | 95-05  | 71319       |             |
| Jaguar            | XJR                 | all  | V-8  | 06-09  | 74400+07+08 |             |
| 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  | 74400+09+10 |             |
| Jaguar            | XK8                 | all  | V-8  | 97-05  | 71319       |             |
| Jaguar            | XKR                 | 4.0  | I-6  | 95-97  | 74400+09+10 |             |
| Jaguar            | XKR                 | all  | V-8  | 00-09  | 71319       |             |
| Jaguar            | X-Type              | all  | all  | 02-05  | 71319       |             |
| Jaguar            | X-Type              | all  | all  | 06-09  | 74400+07+08 |             |
| <b>JEEP</b>       |                     |      |      |        |             |             |
| Jeep              | all, except TBI     | all  | all  | 06-10  | 74400+03+04 |             |
| Jeep              | Cherokee            | 2.5  | I-4  | 86-90  | 71317       |             |
| Jeep              | Cherokee            | all  | all  | 87-94  | 71318       |             |
| Jeep              | Cherokee            | all  | all  | 95-01  | 74400+03+04 | 74400+05+06 |
| Jeep              | Comanche Pickup     | 2.5  | I-4  | 86-90  | 71317       |             |
| Jeep              | Comanche Pickup     | all  | all  | 87-92  | 71318       |             |
| Jeep              | Grand Cherokee      | all  | all  | 93-05  | 71318       | 74400+03+04 |
| Jeep              | Grand Wagoneer      | 5.2  | V-8  | 93     | 71318       |             |
| Jeep              | Liberty             | 3.7  | V-6  | 02-05  | 71318       | 74400+03+04 |
| 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  | 91-05  | 71318       |             |
| <b>KIA</b>        |                     |      |      |        |             |             |
| Kia               | Amanti              | all  | V-6  | 04-10  | 71306       |             |
| Kia               | Optima              | all  | all  | 01-10  | 71306       |             |
| Kia               | Rio                 | 1.5  | I-4  | 01-02  | 74400+03+04 |             |
| Kia               | Rio                 | 1.6  | I-4  | 03-05  | 71319       | 74400+03+04 |
| Kia               | Rio                 | 1.6  | I-4  | 06-10  | 71306       |             |
| Kia               | Rondo               | all  | all  | 07-10  | 71306       |             |
| Kia               | Sedona              | all  | V-6  | 02-10  | 71306       |             |
| Kia               | Sephia              | all  | I-4  | 93-97  | 71317       |             |
| Kia               | Sephia              | 1.8  | I-4  | 98-01  | 71319       |             |
| Kia               | Sorento             | all  | V-6  | 03-10  | 71306       |             |
| Kia               | Spectra             | all  | I-4  | 00-10  | 71306       |             |
| Kia               | Sportage            | 2.0  | I-4  | 95-97  | 71317       |             |
| Kia               | Sportage            | 2.0  | I-4  | 98-10  | 74400+03+04 |             |
| Kia               | Sportage            | 2.7  | V-6  | 05-10  | 71306       |             |
| <b>LAND ROVER</b> |                     |      |      |        |             |             |
| Land Rover        | Defender 110        | 3.9  | V-8  | 93     | 74400+09+10 |             |
| Land Rover        | Defender 90         | all  | V-8  | 94-97  | 74400+09+10 |             |
| Land Rover        | Discovery           | all  | V-8  | 94-99, | 74400+09+10 |             |
| Land Rover        | Discovery Series II | all  | V-8  | 99-02  | 71318       |             |
| Land Rover        | Freelander          | 2.5  | V-6  | 02-04  | 71318       |             |
| Land Rover        | LR2                 | all  | all  | 08-10  | 74400+07+08 |             |
| Land Rover        | LR3                 | 4.0  | V-6  | 05-10  | 74853       |             |
| Land Rover        | LR3                 | 4.4  | V-8  | 05-10  | 74400+07+08 |             |
| Land Rover        | Range Rover         | all  | V-8  | 87-91  | 71317       |             |
| Land Rover        | Range Rover         | 4.6  | V-8  | 92-04  | 74400+09+10 |             |
| <b>LEXUS</b>      |                     |      |      |        |             |             |
| 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  | 97-03  | 74400+03+04 |             |

# APPLICATIONS

| MAKE                 | MODEL      | SIZE | TYPE | YEAR      | ADAPTER     | ADAPTER |
|----------------------|------------|------|------|-----------|-------------|---------|
| Lexus                | ES 330     | 3.3  | V-6  | 04-05     | 74434       |         |
| Lexus                | ES 330     | 3.3  | V-6  | 06        | 74433       |         |
| Lexus                | ES 350     | 3.5  | V-6  | 07-09     | 74433       |         |
| 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                | GS 450     | 4.5  | V-8  | 07        | 74433       |         |
| Lexus                | IS 250     | 2.5  | V-6  | 06-07     | 74433       |         |
| Lexus                | IS 300     | 3.0  | I-6  | 01-04     | 74434       |         |
| Lexus                | IS 350     | 3.5  | V-6  | 06-07     | 74433       |         |
| 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     | 74400+03+04 |         |
| Lexus                | RX 330     | 3.3  | V-6  | 05-06     | 74400+03+04 |         |
| Lexus                | RX 350     | 3.5  | V-6  | 07-08     | 74400+03+04 |         |
| 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  | 02-08     | 74434       |         |
| <b>LINCOLN</b>       |            |      |      |           |             |         |
| Lincoln              | all        | all  | all  | 80-04     | 71319       |         |
| Lincoln              | all        | all  | all  | 05-09     | 74400+03+04 |         |
| Lincoln              | Aviator    | 4.6  | V-8  | 03-04     | 74400+07+08 |         |
| Lincoln              | MKX, MKZ   | 3.5  | V-6  | 07-09     | 74400+03+04 |         |
| Lincoln              | Town Car   | 4.6  | V-8  | 04-08     | 74400+07+08 |         |
| Lincoln              | Zephyr     | 3.0  | V-6  | 06        | 74400+03+04 |         |
| <b>MAZDA</b>         |            |      |      |           |             |         |
| Mazda                | all        | all  | all  | 06-09     | 74400+03+04 |         |
| Mazda                | 3          | all  | I-4  | 04        | 74400+03+04 |         |
| Mazda                | 6          | 2.3  | I-4  | 03-04     | 74400+03+04 |         |
| Mazda                | 6          | 3.0  | V-6  | 03-04     | 74400+07+08 |         |
| 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     | 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  | 90-09     | 71317       |         |
| Mazda                | Millenia   | all  | all  | 95-97     | 71317       |         |
| Mazda                | Millenia   | all  | all  | 98-02     | 74400+03+04 |         |
| Mazda                | MPV        | all  | all  | 89-98,    | 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        | 74400+03+04 |         |
| Mazda                | Tribute    | 2.0  | I-4  | 01-05     | 71319       |         |
| Mazda                | Tribute    | 3.0  | V-6  | 01-05     | 74400+03+04 |         |
| <b>MERCEDES-BENZ</b> |            |      |      |           |             |         |
| Mercedes-            | all        | all  | all  | 81-09     | 71318       |         |

# APPLICATIONS

| MAKE              | MODEL         | SIZE | TYPE | YEAR   | ADAPTER     | ADAPTER |
|-------------------|---------------|------|------|--------|-------------|---------|
| <b>MERCURY</b>    |               |      |      |        |             |         |
| 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  | 92-09  | 74400+07+08 |         |
| 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  | 74400+07+08 | 71319   |
| Mercury           | Mariner       | all  | all  | 05-09  | 74400+03+04 |         |
| Mercury           | Marquis       | 3.8  | V-6  | 84-86  | 71319       |         |
| Mercury           | Milan         | all  | all  | 06'09  | 74400+03+04 |         |
| Mercury           | Montego       | 3.0  | V-6  | 05-07  | 71319       |         |
| Mercury           | Monterey      | 4.2  | V-6  | 04     | 74400+07+08 |         |
| Mercury           | Mountaineer   | all  | all  | 97-05  | 71319       |         |
| Mercury           | Mountaineer   | 4.0  | V-6  | 02-05  | 74400+03+04 |         |
| Mercury           | Mountaineer   | 4.6  | V-8  | 02-05  | 74400+07+08 |         |
| Mercury           | Mystique      | all  | all  | 95-00  | 71319       |         |
| Mercury           | Sable         | 3.8  | V-6  | 88-95  | 71319       |         |
| Mercury           | Sable         | 3.0  | V-6  | 96-05  | 74400+05+06 |         |
| Mercury           | Sable         | all  | all  | 86-05  | 74400+07+08 |         |
| Mercury           | Topaz         | 2.3  | I-4  | 85-87  | 74400+03+04 |         |
| Mercury           | Topaz         | all  | all  | 88-94  | 71319       |         |
| Mercury           | Tracer        | 1.6  | I-4  | 88-89  | 71317       |         |
| Mercury           | Tracer        | 1.8  | I-4  | 91-96  | 74400+03+04 |         |
| Mercury           | Tracer        | all  | I-4  | 91-99  | 71319       |         |
| Mercury           | Villager      | all  | V-6  | 93-02  | 71317       |         |
| <b>MERKUR</b>     |               |      |      |        |             |         |
| Merkur            | Scorpio       | 2.9  | V-6  | 88-89  | 71319       |         |
| Merkur            | XR4Ti         | 2.3  | I-4  | 85-89  | 71319       |         |
| <b>MINI</b>       |               |      |      |        |             |         |
| MINI              | Cooper        | 1.6  | I-4  | 02-10  | 71319       |         |
| <b>MITSUBISHI</b> |               |      |      |        |             |         |
| Mitsubishi        | all           | all  | all  | 07-09  | 74400+03+04 |         |
| 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  | 97-05  | 74400+03+04 |         |
| Mitsubishi        | Endeavor      | 3.8  | V-6  | 04-05  | 74400+03+04 |         |
| 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  | 00-05  | 71321       |         |
| Mitsubishi        | Expo          | all  | all  | 92-95  | 74435       |         |
| Mitsubishi        | Galant        | all  | I-4  | 85-01  | 74435       |         |
| Mitsubishi        | Galant        | 3.0  | V-6  | 94-06  | 71321       |         |
| Mitsubishi        | Lancer        | all  | all  | 02-06  | 74400+03+04 |         |
| 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  | 84-06  | 71321       |         |
| Mitsubishi        | Montero Sport | all  | all  | 97-06  | 71321       |         |
| Mitsubishi        | Outlander     | 2.4  | I-4  | 03-06  | 71321       |         |
| Mitsubishi        | Pickup        | all  | all  | 84-96  | 71321       |         |

# APPLICATIONS

| MAKE              | MODEL           | SIZE | TYPE     | YEAR      | ADAPTER     | ADAPTER |
|-------------------|-----------------|------|----------|-----------|-------------|---------|
| 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       |         |
| <b>NISSAN</b>     |                 |      |          |           |             |         |
| Nissan            | 200SX           | all  | all      | 84-88,    | 71317       |         |
| Nissan            | 240SX           | all  | all      | 89-98     | 71317       |         |
| Nissan            | 300ZX           | all  | all      | 84-96     | 71317       |         |
| Nissan            | 350Z            | 3.5  | V-6      | 03-08     | 71306       |         |
| Nissan            | Altima          | 2.4  | I-4      | 93-01     | 71317       |         |
| Nissan            | Altima          | 2.5  | I-4      | 02-08     | 74400+03+04 |         |
| Nissan            | Altima          | 3.5  | V-6      | 02-08     | 71306       |         |
| Nissan            | Axxess          | 2.4  | I-4      | 90        | 71317       |         |
| Nissan            | Frontier        | 2.4  | I-4      | 98-06     | 71317       |         |
| Nissan            | Frontier        | 3.3  | V-6      | 99-08     | 71306       |         |
| 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     | 74400+03+04 |         |
| 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       |         |
| <b>OLDSMOBILE</b> |                 |      |          |           |             |         |
| Oldsmobile        | all, except TBI | all  | all      | 84-04     | 71318       |         |
| Oldsmobile        | Cutlass Ciera   | 2.2  | I-4      | 93-96     | 74400+05+06 |         |
| <b>PEUGEOT</b>    |                 |      |          |           |             |         |
| Peugeot           | 405             | 1.9  | I-4      | 89-91     | 71317       |         |
| Peugeot           | 505             | all  | all      | 84-91     | 71317       |         |
| <b>PLYMOUTH</b>   |                 |      |          |           |             |         |
| Plymouth          | Acclaim         | 2.5  | I-4TURBO | 89-91     | 71318       |         |
| Plymouth          | Acclaim         | all  | all      | 89-90     | 71317       |         |
| Plymouth          | Acclaim         | all  | all      | 91-95     | 74400+03+04 |         |
| Plymouth          | Breeze          | all  | I-4      | 96-00     | 71318       |         |
| Plymouth          | Caravelle       | 2.2  | I-4TURBO | 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       |         |



# APPLICATIONS

| MAKE           | MODEL           | SIZE | TYPE | YEAR      | ADAPTER     | ADAPTER |
|----------------|-----------------|------|------|-----------|-------------|---------|
| Plymouth       | Grand Voyager   | 3.0  | V-6  | 95-00     | 74400+03+04 |         |
| 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     | 74400+03+04 |         |
| Plymouth       | Sundance        | 2.2  | I-4  | 87-90     | 71317       |         |
| Plymouth       | Sundance        | 2.5  | I-4  | 91-94     | 74400+03+04 |         |
| Plymouth       | Sundance        | 2.5  | I-4  | 88-90     | 71317       | 71318   |
| Plymouth       | Sundance        | 3.0  | V-6  | 92-94     | 74400+07+08 |         |
| 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     | 74400+03+04 |         |
| 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       |         |
| <b>PONTIAC</b> |                 |      |      |           |             |         |
| Pontiac        | all, except TBI | all  | all  | 84-05     | 71318       |         |
| Pontiac        | all, except TBI | all  | all  | 06-08     | 74400+05+06 |         |
| Pontiac        | Grand Am        | all  | all  | 92-05     | 74400+05+06 |         |
| Pontiac        | GTO             | 6.0  | V-8  | 06        | 74400+07+08 |         |
| Pontiac        | Montana         | 3.5  | V-6  | 06        | 74400+07+08 |         |
| Pontiac        | Sunbird         | 2.0  | I-4  | 92-94     | 74400+05+06 |         |
| Pontiac        | Sunfire         | all  | I-4  | 95-06     | 74400+05+06 |         |
| Pontiac        | Vibe            | 1.8  | I-4  | 03-08     | 74400+03+04 |         |
| <b>PORSCHE</b> |                 |      |      |           |             |         |
| Porsche        | 911             | all  | H-6  | 84-94     | 74435       |         |
| Porsche        | 911             | all  | H-6  | 95-08     | 71318       |         |
| Porsche        | 928             | all  | V-8  | 78-84     | 74400+09+10 |         |
| Porsche        | Cayenne         | all  | all  | 03-08     | 71318       |         |
| Porsche        | Caymen          | all  | all  | 06-09     | 74400+03+04 |         |
| Porsche        | Carrera GT      | 5.7  | V-10 | 04        | 71318       |         |
| Porsche        | Boxster         | all  | H-6  | 97-09     | 71318       |         |
| <b>SAAB</b>    |                 |      |      |           |             |         |
| Saab           | 900             | all  | I-4  | 85-97     | 74435       |         |
| Saab           | 900             | 2.5  | V-6  | 94-97     | 71318       |         |
| Saab           | 900             | all  | I-4  | 94-98     | 74400+03+04 |         |
| Saab           | 9000            | all  | all  | 86-98     | 74435       |         |
| Saab           | 9-2X            | all  | all  | 05-06     | 71318       |         |
| Saab           | 9-3             | all  | I-4  | 99-09     | 71318       |         |
| Saab           | 9-5             | all  | all  | 99-09     | 71318       |         |
| Saab           | 9-7X            | 4.2  | I-6  | 05-09     | 74400+03+04 |         |
| Saab           | 9-7X            | 5.3  | V-8  | 05-09     | 71318       |         |
| Saab           | 9-7X            | 6.0  | V-8  | 08-09     | 71318       |         |
| <b>SATURN</b>  |                 |      |      |           |             |         |
| Saturn         | all             | all  | all  | 91-05     | 71318       |         |
| Saturn         | Ion             | all  | all  | 05-07     | 74400+05+06 |         |
| Saturn         | Outlook         | all  | all  | 07-08     | 74400+05+06 |         |
| Saturn         | Relay           | 3.5  | V-6  | 06        | 74400+05+06 |         |
| Saturn         | Relay           | 3.9  | V-6  | 06-08     | 74400+05+06 |         |
| Saturn         | Sky             | all  | I-4  | 07-08     | 74400+05+06 |         |
| Saturn         | Vue             | all  | all  | 06-08     | 74400+05+06 |         |

# APPLICATIONS

| MAKE            | MODEL        | SIZE | TYPE | YEAR  | ADAPTER     | ADAPTER |
|-----------------|--------------|------|------|-------|-------------|---------|
| <b>SCION</b>    |              |      |      |       |             |         |
| Scion           | xA           | all  | I-4  | 04-06 | 74400+03+04 |         |
| Scion           | xB           | all  | I-4  | 04-09 | 74400+03+04 |         |
| Scion           | xD           | all  | I-4  | 08-09 | 74400+03+04 |         |
| Scion           | tC           | all  | I-4  | 04-09 | 74400+03+04 |         |
| <b>STERLING</b> |              |      |      |       |             |         |
| Sterling        | 825          | 2.5  | V-6  | 87-88 | 74431       | 74435   |
| Sterling        | 827          | 2.7  | V-6  | 89-91 | 74431       | 74435   |
| <b>SUBARU</b>   |              |      |      |       |             |         |
| Subaru          | all          | all  | all  | 83-04 | 74400+03+04 |         |
| <b>SUZUKI</b>   |              |      |      |       |             |         |
| Suzuki          | Aerio        | all  | I-4  | 02-04 | 71317       |         |
| Suzuki          | Esteem       | all  | I-4  | 95-02 | 74471       |         |
| Suzuki          | Forenza      | 2.0  | I-4  | 04-05 | 71317       |         |
| Suzuki          | Forenza      | 2.0  | I-4  | 06-09 | 74400+03+04 |         |
| Suzuki          | Grand Vitara | all  | V-6  | 99-09 | 74471       |         |
| Suzuki          | Reno         | 2.0  | I-4  | 05-09 | 71317       |         |
| 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          | SX4          | 2.0  | I-4  | 7-09  | 71317       |         |
| Suzuki          | Verona       | 2.5  | V-6  | 04    | 74400+03+04 |         |
| 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  | 01-05 | 71317       |         |
| Suzuki          | XL-7         | 3.6  | V-6  | 06-09 | 74433       |         |
| <b>TOYOTA</b>   |              |      |      |       |             |         |
| Toyota          | 4Runner      | all  | all  | 87-95 | 74435       |         |
| Toyota          | 4Runner      | 2.7  | I-4  | 96-00 | 74400+11+12 |         |
| Toyota          | 4Runner      | 3.4  | V-6  | 96-02 | 74435       |         |
| Toyota          | 4Runner      | 4.0  | V-6  | 03-04 | 74400+03+04 |         |
| Toyota          | 4Runner      | 4.7  | V-8  | 03-07 | 74435       |         |
| Toyota          | Avalon       | 3.0  | V-6  | 95-97 | 74435       |         |
| Toyota          | Avalon       | 3.0  | V-6  | 98-04 | 74400+03+04 |         |
| Toyota          | Camry        | all  | all  | 84-01 | 74435       |         |
| Toyota          | Camry        | all  | all  | 02-05 | 74400+03+04 |         |
| Toyota          | Camry        | all  | all  | 05-08 | 74433       |         |
| Toyota          | Celica       | all  | all  | 84-99 | 74435       |         |
| Toyota          | Celica       | all  | all  | 00-04 | 74400+03+04 |         |
| Toyota          | Corolla      | all  | all  | 84-97 | 74435       |         |
| Toyota          | Corolla      | all  | all  | 98-08 | 74400+03+04 |         |
| Toyota          | Cressida     | all  | all  | 84-92 | 74435       | 74432   |
| Toyota          | Echo         | all  | all  | 00-08 | 74400+03+04 |         |
| Toyota          | Highlander   | all  | all  | 01-08 | 74400+03+04 |         |
| Toyota          | Land Cruiser | all  | all  | 84-08 | 74435       |         |
| Toyota          | Matrix       | all  | all  | 03-08 | 74400+03+04 |         |
| Toyota          | Minivan      | all  | all  | 84-89 | 74435       | 74432   |
| Toyota          | MR2          | all  | all  | 85-89 | 74435       | 74432   |
| Toyota          | MR2 Spyder   | all  | all  | 00-04 | 74400+03+04 |         |
| 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  | 01-08 | 74400+03+04 |         |
| Toyota          | RAV4         | 2.0  | I-4  | 96-00 | 74435       |         |
| Toyota          | RAV4         | 2.0  | I-4  | 01-08 | 74400+03+04 |         |
| Toyota          | Sequoia      | 4.7  | V-8  | 01-08 | 74435       |         |

# APPLICATIONS

| MAKE       | MODEL     | SIZE | TYPE | YEAR      | ADAPTER     | ADAPTER     |
|------------|-----------|------|------|-----------|-------------|-------------|
| Toyota     | Sienna    | 3.0  | V-6  | 98-00     | 74435       |             |
| Toyota     | Sienna    | 3.0  | V-6  | 01-08     | 74400+03+04 |             |
| Toyota     | Solara    | 2.2  | I-4  | 99-01     | 74435       |             |
| Toyota     | Solara    | 2.4  | I-4  | 99-04     | 74400+03+04 |             |
| Toyota     | Solara    | 3.0  | V-6  | 99-04     | 74400+03+04 |             |
| Toyota     | Solara    | 3.0  | V-6  | 05-08     | 74433       |             |
| 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     | 74400+11+12 |             |
| Toyota     | Tacoma    | 3.4  | V-6  | 95-07     | 74435       |             |
| Toyota     | Tercel    | all  | all  | 84-98     | 74435       |             |
| Toyota     | Tundra    | all  | all  | 00-07     | 74435       |             |
| VOLKSWAGEN |           |      |      |           |             |             |
| Volkswagen | Beetle    | all  | I-4  | 01-04     | 74400+03+04 | 74400+05+06 |
| Volkswagen | Beetle    | all  | I-4  | 98-00, 04 | 71317       |             |
| Volkswagen | Beetle    | 2.5  | I-5  | 05-09     | 74400+03+04 |             |
| 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 | Eos       | all  | all  | 07-09     | 74400+03+04 |             |
| Volkswagen | Eurovan   | 2.8  | V-6  | 01-04     | 74400+03+04 | 74400+05+06 |
| 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     | 74400+09+10 |             |
| Volkswagen | Jetta     | all  | I-4  | 87-92     | 74435       |             |
| Volkswagen | Jetta     | 1.8  | I-4  | 01-03     | 74400+09+10 |             |
| Volkswagen | Jetta     | all  | all  | 81-04     | 71317       |             |
| Volkswagen | Jetta     | 2.5  | I-5  | 05-09     | 74400+03+04 |             |
| Volkswagen | Phaeton   | all  | all  | 04-06     | 71317       |             |
| Volkswagen | Passat    | 2.0  | I-4  | 90-94     | 74435       |             |
| Volkswagen | Passat    | all  | all  | 91-97     | 71317       |             |
| Volkswagen | Passat    | all  | all  | 98-09     | 74400+09+10 |             |
| Volkswagen | Quantum   | 2.2  | I-5  | 84-88     | 74435       |             |
| Volkswagen | Quantum   | all  | I-4  | 82-85     | 71317       |             |
| Volkswagen | R32       | 3.2  | V-6  | 04, 08    | 74400+03+04 |             |
| Volkswagen | Scirocco  | 1.8  | I-4  | 87-89     | 74435       |             |
| Volkswagen | Touareg   | 3.2  | V-6  | 04-09     | 71319       |             |
| Volkswagen | Touareg   | 4.2  | V-8  | 04-09     | 71317       |             |
| Volkswagen | Vanagon   | 2.1  | H-4  | 86-91     | 71317       |             |
| VOLVO      |           |      |      |           |             |             |
| Volvo      | all       | all  | all  | 97-10     | 71319       |             |
| Volvo      | 240       | 2.3  | I-4  | 83-90     | 74400+09+10 |             |
| Volvo      | 240       | 2.3  | I-4  | 90-93     | 71319       |             |
| Volvo      | 740       | 2.3  | I-4  | 85-92     | 74400+09+10 |             |
| Volvo      | 760       | all  | all  | 84-90     | 74400+09+10 |             |
| Volvo      | 780       | 2.8  | V-6  | 87-90     | 74400+09+10 |             |
| Volvo      | 850       | all  | all  | 93-97     | 71319       | 74400+09+10 |
| Volvo      | 940       | all  | all  | 91-95     | 71319       | 74400+09+10 |
| Volvo      | Coupe     | 2.3  | I-4  | 91        | 74400+09+10 |             |
| YUGO       |           |      |      |           |             |             |
| Yugo       | Cabrio    | 1.3  | I-4  | 90-91     | 71317       |             |
| Yugo       | GV        | 1.3  | I-4  | 90-91     | 71317       |             |

