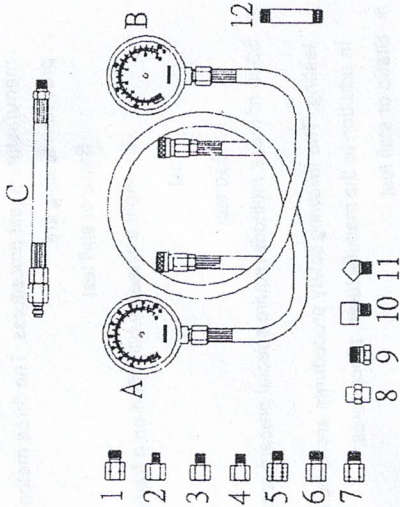


# Transmission Pressure Gauge Set

## INSTRUCTION MANUAL



### Functional Description

|    |                                       |                              |
|----|---------------------------------------|------------------------------|
| A  | 0-100 PSI (0-700 kPa)                 | High Pressure Gauge Assembly |
| B  | 0-500 PSI (0-3500 kPa)                | High Pressure Gauge Assembly |
| C  | Adaptor Hose 1/8-27 NPT               |                              |
| 1  | Adaptor 1/8-27 to M10-1.0             |                              |
| 2  | Adaptor 1/8-27 to 1/16-27 NPT         |                              |
| 3  | Adaptor 1/8-27 to 5/16-24 NF          |                              |
| 4  | Adaptor 1/8-27 to M8-1.25             |                              |
| 5  | Adaptor 1/8-27 to M8-1.0              |                              |
| 6  | Adaptor 1/8-27 to VW Audi             |                              |
| 7  | Adaptor 1/8-27 to 1/8-28 BSPT         |                              |
| 8  | Fitting 1/8-27 Coupling               |                              |
| 9  | Adaptor 1/8-27 to 1/4-18 NPT          |                              |
| 10 | Fitting 1/8-27 Street Elbow 90 Degree |                              |
| 11 | Fitting 1/8-27 Street Elbow 45 Degree |                              |
| 12 | Fitting 1/8-27 Nipple 2" Long         |                              |

### WARNING

Risk of entanglement

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

Entanglement in moving parts can cause injury.

### WARNING

Risk of burns.

- \* Do not touch hot engine components.
- \* Avoid contact with hot transmission fluid.

Hot components can cause injury

### WARNING

Glass lens on gauge face can break.

- \* Do not drop or hit gauge face.
- \* Do not use gauge if glass lens is cracked or broken.

Broken glass can cause injury.

### Before Testing

Always refer to the appropriate section of a repair manual for the following information:

- \* Be sure that the manual covers the specific transmission to be tested.
- \* Test purpose.
- \* Test procedure or sequence.
- \* Pressure tap readings.
- \* Interpreting test results.
- \* Verify proper fluid level and condition.
- \* Verify and correct for proper mechanical linkage adjustment.
- \* Best results are obtained when transmission is at normal operating temperature.

©Any of the above conditions, if not checked and corrected, may result in false readings and inaccurate diagnosis.



## Gauge Selection

Refer to the service manual for specified test pressures and select either the low or high pressure gauge for the test.

- Ⓒ For best results, if the specification is in the 80 to 100 psi range, select the High Pressure gauge.
- The transmission may have a problem that will produce pressures that are higher than specified and that could over range the low pressure gauge.
- Ⓒ Always use the high pressure gauge for an initial test where abnormal pressures are anticipated. A follow up test with the low pressure gauge can be done if pressures are within its range.

### Adaptor Selection

| VEHICLE        | TRANSMISSION                     | ADAPTOR | VEHICLE    | TRANSMISSION           | ADAPTOR |
|----------------|----------------------------------|---------|------------|------------------------|---------|
| ACURA/HONDA    | ALL MODELS                       | 4       | JAGUAR     | ZF-SERIES              | 1       |
| AUDI           | VW003,VW010,VW097                | 6       |            | BORG WARNER 65         | C       |
| B/VW           | ZF-SERIES                        | 1       | LEXUS      | HYDRA-MATIC            | C       |
|                | BORG-WARNER 65                   | C       | MAZDA      | AISIN WARNER           | 5       |
| CHRYSLER CORP  | ZF-SERIES ALL                    | 1       |            | JATCO                  | 7       |
|                | A-SERIES TRANSAXLE 42LE          | 2       | MERCEDES   | FORD 4ALD              | C       |
|                | KM-SERIES                        | 4       |            | ALL                    | 6       |
|                | F3A                              | 7       | MINI       | AISIN WARNER           | 8       |
|                | A-SERIES RWD,32,36,42,44,46RH&RE | C       | MITSUBISHI | MITSUBISHI KM-SERIES   | 7       |
|                | A-SERIES RWD                     | C       |            | JATCO                  | 10      |
| AMC/EAGLE      | AB04/41 TE 41LE                  | 2       | NISSAN     | TORQUEFLITE            | 5       |
|                | KM-SERIES W4A32-1                | 4       |            | JATCO                  | 10      |
|                | ZF-SERIES (EAGLE PREMIER)        | 1       | PEUGEOT    | ZF-SERIES              | 4       |
|                | MB-1,AR4,MJIS(RENAULT)           | 7       | PORSCHE    | VW010                  | 9       |
|                | AW-4                             | 5       | SAAB       | ZF-SERIES              | 6       |
| JEEP           | A004,A999,A500,A518,A727,30,32RH | C       |            | BORG WARNER 37         | 3       |
|                | TURBO HYDRA-MATIC TH400          | C       |            | ZF-SERIES              | 4       |
| FORD           | 4ALD,40D,4X0D,4TX,C3,C4,C5,C6    | C       | SUBARU     | ALL                    | 5       |
|                | 40DE,40D,4R70W,5R55E,AOT         | C       | SUZUKI     | HYDRA-MATIC TH180      | 3       |
|                | MAZDA,TP-ANS,4EAT                | 7       |            | MX-1/A-210             | 8       |
| GENERAL MOTORS | ALL TURBO HYDRA-MATIC            | C       | TOYOTA     | AISIN WARNER A-20/A-30 | 9       |
|                | 4L60E,4L80E,4T60E                | C       | VW         | ALL OTHER              | 8       |
|                | AISIN WARNER MX-1,M5-7           | 5       |            | ALL                    | 9       |
|                | JATCO KF-100                     | 7       | VOLVO      | AISIN WARNER           | 8       |
| SATURN         | TAAT                             | C       |            | BORG WARNER            | 3       |
| HONDA          | ALL                              | 4       |            | ZF-SERIES              | 4       |
| HYUNDAI        | KM-SERIES                        | 4       |            |                        |         |
| INFINITI       | JATCO                            | 7       |            |                        |         |
| LSUZU          | BORG WARNER BW-35                | 5       |            |                        |         |
|                | AISIN WARNER BW-35               | 5       |            |                        |         |
|                | JATCO F3A/F10                    | 7       |            |                        |         |
|                | HYDRA-MATIC TH4L30E,4L60E        | C       |            |                        |         |

## Test Procedure

- \* Transmission pressures are typically tested using three different procedures. Always comply with the manufacturers test procedures. The three methods of pressure testing are:

Static or stall test

Driving the wheels while lifted on a frame contact

Hoist

Road test

- \* Each of these methods require special precautions for safe testing. The following safety procedures are to be used in addition to the manufactures, procedures:
- \* Static or stall test

Block ALL drive wheels with approved wheel chocks.

- \* Driving the wheels while lifted on a frame contact hoist

Be sure that gauge adaptors and hose are routed away from hot or moving parts.

- \* Road test

Extra precautions are required to keep adaptors and hoses away from hot or moving parts while a vehicle is driven on the road. It may be necessary to secure the gauge hose to frame or body parts with wire or nylon ties to insure that the hose does not change position while the vehicle is being driven.

1. DO route gauge hose into the passenger Compartment through an open window.
2. DO NOT pinch gauge hose between hood and fender openings or close a door on the hose.
3. DO NOT attempt to read pressure gauges while driving a vehicle. Have an assistant ride along to take pressure readings.