

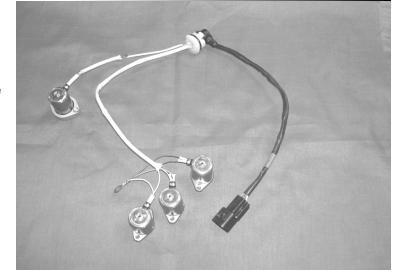
ELECTRICAL COMPONENTS

INSTALLATION INSTRUCTIONS Super Master Solenoid Kit

MS KM-175

Fits 85 to 92 FITS KM-175,176 & 177 Series For F4A21-1, F4A22-2, F4A23-2

'87-up for Hyundai, '85-'92 Mitsubishi and Chrysler



NOTE: These solenoids will work for KM-175, 176, and 177 Series transmissions. The 3 ohm solenoid will work on all year models in the EPC position. It is also used in the DCC position on Mitsubishi vehicles prior to '93, and on later Hyundai and Chrysler vehicles. **IF A 3 OHM RESISTANCE SOLENOID IS USED ON A SYSTEM REQUIRING A 13 OHM SOLENOID, THE COMPUTER WILL BE DAMAGED.**

There are two methods to determine which ohms of resistance DCC (lock-up) solenoid is needed.

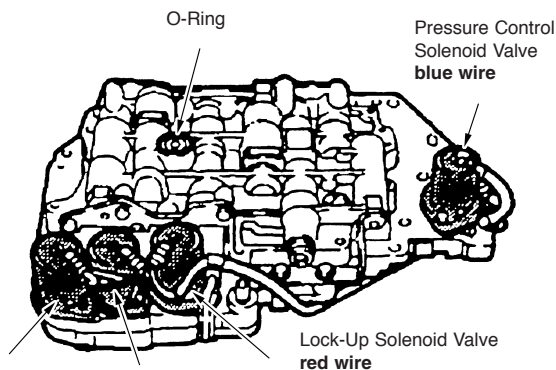
1. The most accurate method is to use a multi-meter to measure the resistance original (lock-up) solenoid.

2. If the external transmission wiring harness has a red wire with a black tracer (black stripe), a 13 ohm range solenoid is required. If the wire is solid red in color, it will require a 3 ohm range solenoid.

The DCC Lock-up solenoid is the only solenoid with a resistance change. The EPC solenoid is 3 ohms of resistance.

Note: For '85-88 Mitsubishi Galant (2.4 L engine) KM175-1, an aluminum plug/gasket adapter will be required. If you can see through the valve body where the Pressure Control and /or Lock-up solenoids seat.

1. **To Remove:** Disconnect the negative battery cable, drain the ATF out of unit, and remove the pan.
2. Remove and disconnect the solenoid wiring harness from the bracket on the top transmission.
3. Remove the transmission filter, noting the length of the bolts. They are of different lengths.



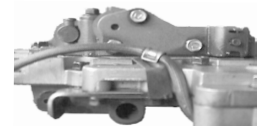
B Shift Control Solenoid Valve
yellow wire

A Shift Control Solenoid Valve
orange wire

4. Remove the solenoid wiring harness case plug from the case. Fish the remaining external part of the harness through the case, the connector plug is a tight fit.
5. Remove ten valve body bolts while holding the valve body against the case, noting the different length bolts: 20mm, 28mm, 45mm. Lower the valve body, **be careful not to drop the manual valve it can fall out of the valve body.**
6. Remove the solenoids from the valve body: don't forget to remove the ground wire bolts.

7. **To Install:** Before installing the solenoids route the harness and ground wires so that they do not interfere with the solenoids seating or the valve body mating to the case. Place the shift solenoids into their seats making sure that the O-ring holds the solenoid off the seat when held by hand. If the shift solenoids fall into the seat you may need to replace the O-rings with the (Parker O-ring #114) to insure a good seal. Remember to loosely bolt the solenoids as shown in **(Figure 1)** and check the harness routing and solenoid seating.
8. Attach the ground wires to the valve body and tighten the solenoids to 10 to 11.5 Nm (7.5 to 8.5 ft. lbs)
9. Check to be sure that the O-ring on the solenoid side of the valve body is there as shown in **(Figure 1)**, if not replace it with the (Parker O-ring#112).
10. Reinstall the valve body into the case, **being careful to hook the manual valve properly onto the internal manual control lever.** Tighten the ten valve body bolts to 10 to 11.5 Nm (7.5 to 8.5 ft. lbs.).
11. Install the harness through the case; be sure the notched part of the case plug is in the proper place. **The wires are delicate so be careful.** After the case plug on the harness is installed then place the harness end connector on the bracket and reconnect.
12. Install new filter, tighten four bolts to 6 to 6.5 Nm (4 to 5 ft. lbs).

Helpful Hint: While installing the new filter, insert a pick (or paper clip) through the lock-up retaining plate, and work the valve while tightening filter bolts. This will keep the valve from binding.



13. Flatten the edge of pan around bolt holes. Install new pan gasket and pan, tighten bolts to 10 to 11.5 Nm (7.5 to 8.5 ft. lbs.) or until pan gasket just starts to bulge.
14. Connect the negative battery cable.
15. Fill unit with ATF and check for leaks.

If there are any questions about the installation of this product or any other Teckpak products, call our Teckpak Hotline, 1-800-527-2544 or e-mail us at customerservice@teckpak-fitall.com