SATURN TAAT
HARSH SHIFTS P0746 AND OR P0789

COMPLAINT: 1996 and up Saturn vehicles equipped with the TAAT transaxle may exhibit Harsh Upshifts and or downshifts, and may have a Diagnostic Trouble Code P0746 Line Pressure Solenoid circuit open / grounded or a P0789 Solenoid Intermittent Circuit fault.

CAUSE: The cause may be, a faulty Line Pressure Solenoid, poor connection at the main harness connector, poor contacts on the "Bus Plate," or a wiring problem leading to the PCM.

CORRECTION: To correct this condition, Refer to the steps below:

Step 1: Remove the external harness connector and ohm test the Line Pressure Solenoid across pins G and F of the Bus Plate, as shown in Figure 1. If the ohm value is not within 4-6 ohms, replace the Line Pressure Solenoid in the location shown in Figure 2 and inspect the Bus Plate for burnt terminals as shown in Figure 1. If the Solenoid Ohm tests well, go to Step 2.

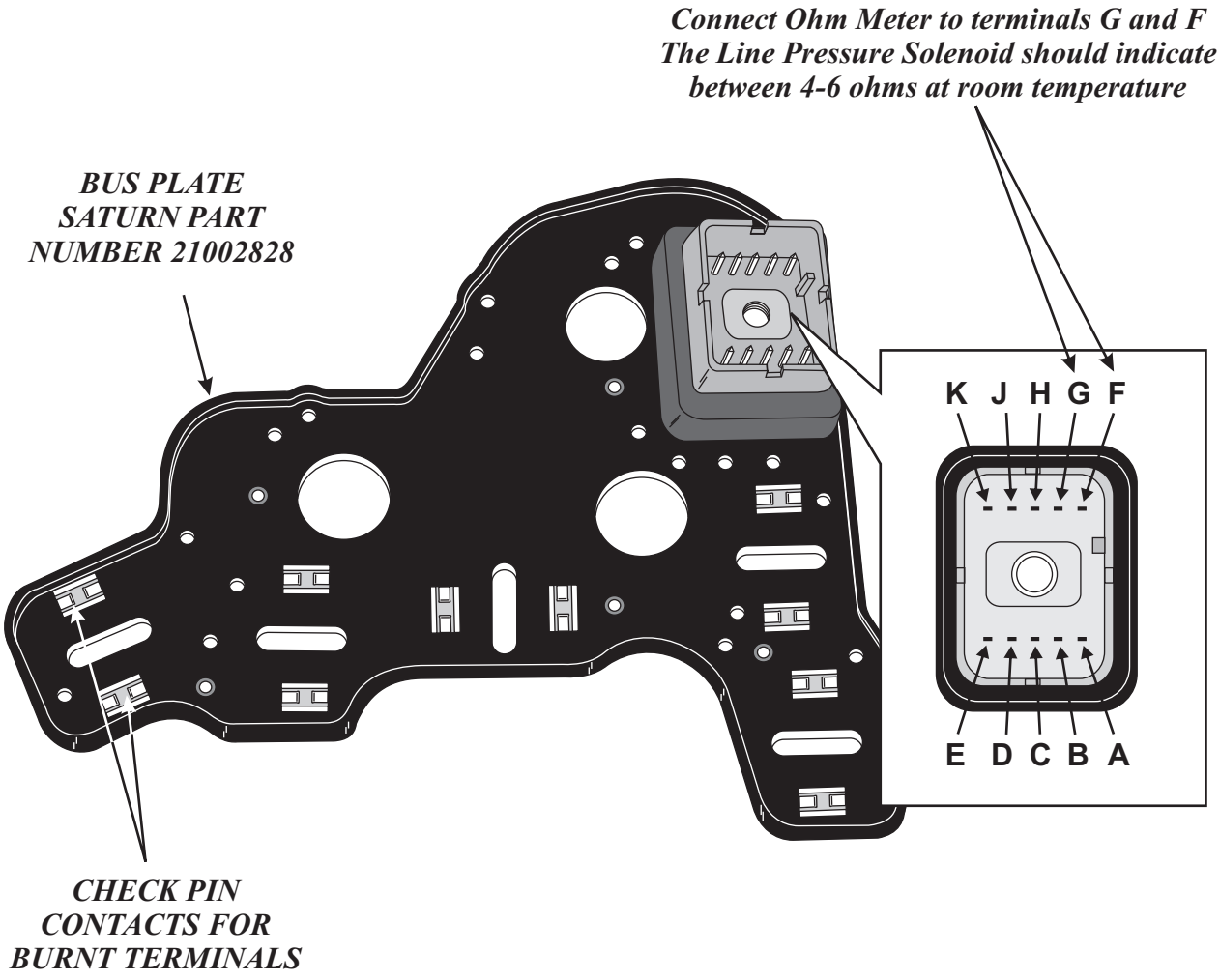
Step 2: Inspect the terminals inside of the Harness Connector for a loose connection or burnt terminals at G and F as shown in Figure 3. If the terminals are faulty, replace the harness connector with the repair harness. If the harness connector is good, go to Step 3.

Step 3: Verify the integrity of the Positive and Ground side of the Line Pressure circuit from the Underhood Fuse Block to the Powertrain Control Module as shown in Figure 4. Repair harness as necessary. ***Note: the Schematic shown is for a 2000 model, terminal locations at the PCM will vary by year model.***

SERVICE INFORMATION:

4TH DESIGN SOLENOID.....21003344
BUS PLATE.....21002828
HARNESS CONNECTOR REPAIR KIT.....21024415

LINE PRESSURE SOLENOID OHM TEST AND BUS PLATE CONNECTOR TERMINAL I.D.

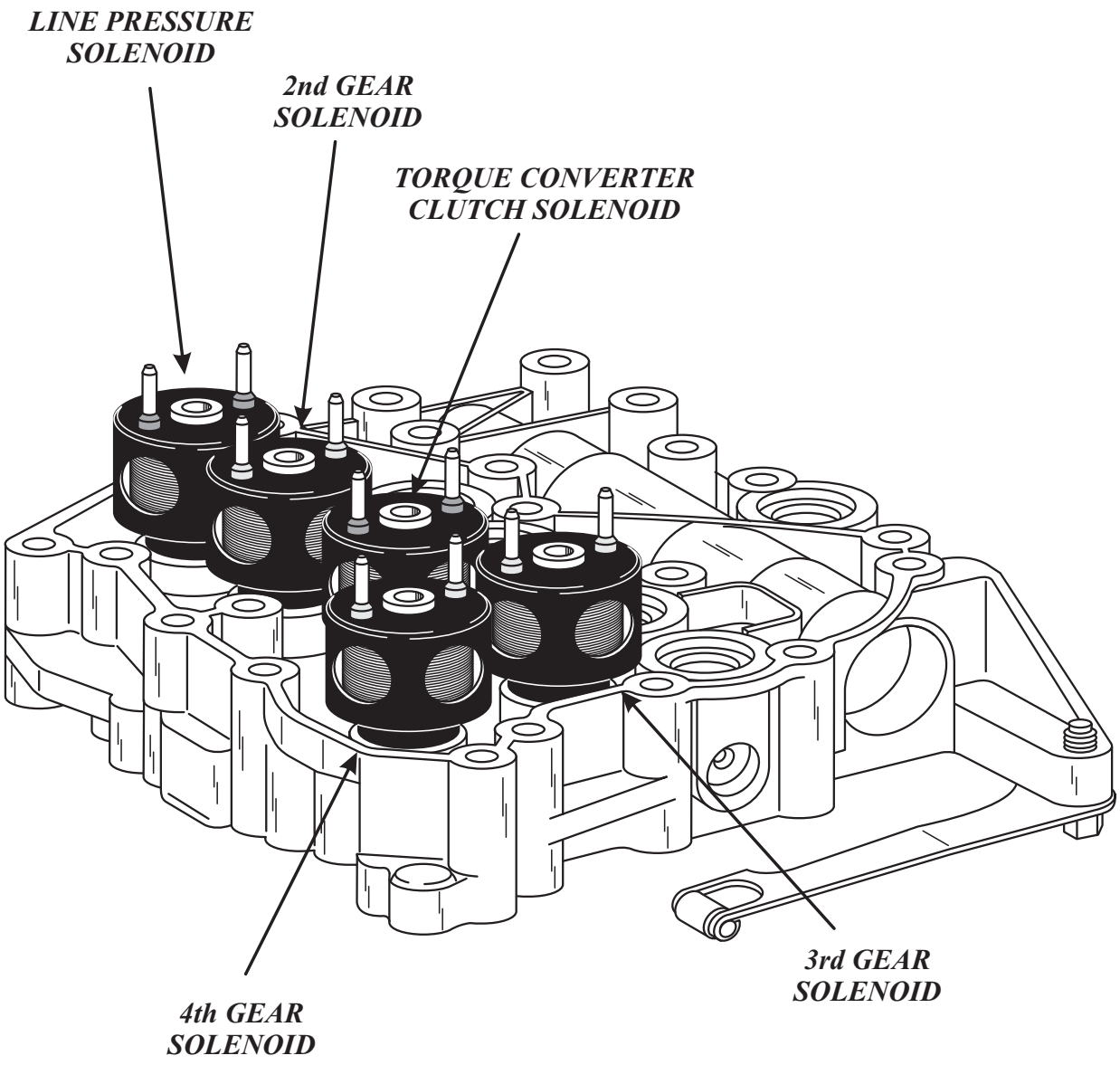


Solenoid	*Positive Terminal*	*Ground Terminal*
LINE PRESSURE	**G**	**F**
SOLENOID 4	**C**	**D**
SOLENOID 3	**A**	**B**
TCC SOLENOID	**E**	**K**
SOLENOID 2	**J**	**H**

Note: All Solenoids should indicate 4-6 ohms

Figure 1

SATURN VALVE BODY
SOLENOID LOCATIONS



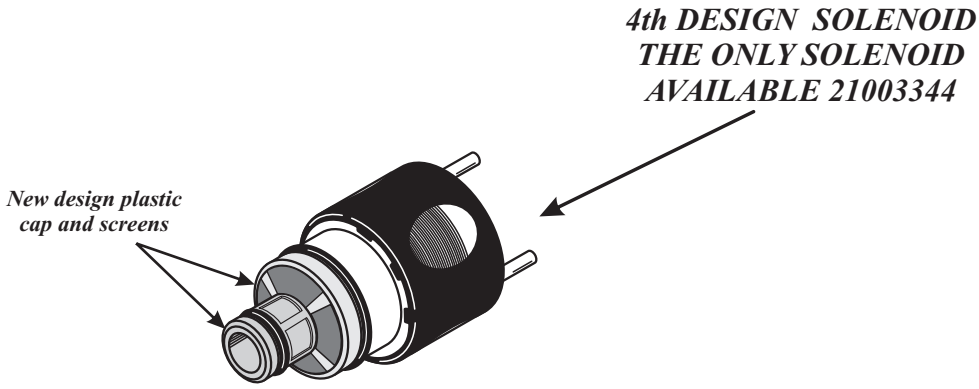
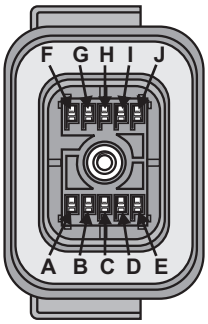


Figure 2

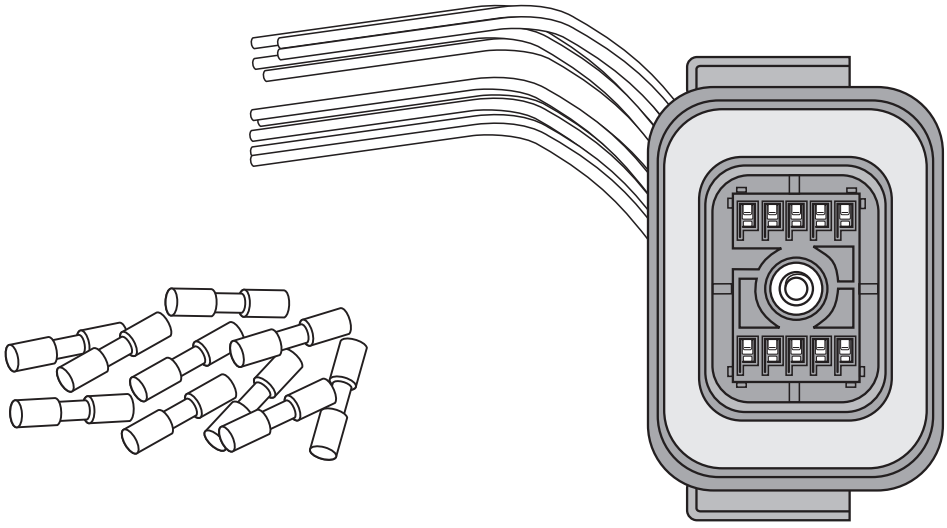
HARNESS CONNECTOR TERMINAL I.D.

Check for burnt or loose terminals



Solenoid	*Positive Terminal*	*Ground Terminal*
LINE PRESSURE	**G**	**F**
SOLENOID 4	**C**	**D**
SOLENOID 3	**A**	**B**
TCC SOLENOID	**E**	**K**
SOLENOID 2	**J**	**H**

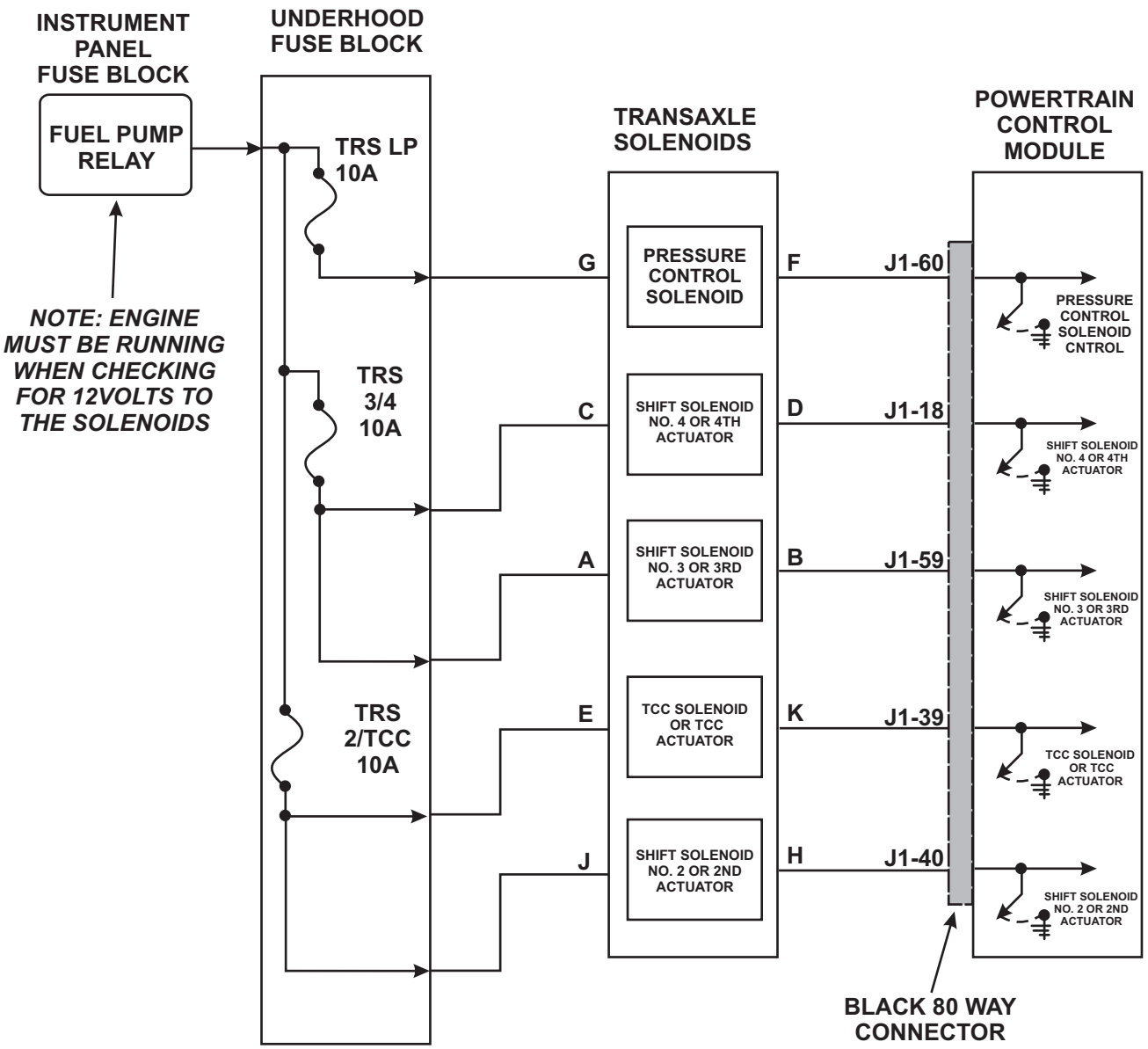
HARNESS REPAIR KIT
21024415



Note: All of the wires are White and there are no instructions identifying wire colors leading to the PCM

Figure 3

PARTIAL WIRE SCHEMATIC



NOTE: 2000 model schematic shown. Pcm Pin and connector terminals will vary by year. Prior to 1994 Each Solenoid had it's own Fuse.

Figure 4