



Technical Service Information

ALL NISSAN ELECTRONIC UNITS 3RD GEAR STARTS

COMPLAINT: Before and/or after rebuild, any Nissan unit with electronic controls, exhibits a 3rd gear start condition. Energizing the solenoids by using jumper wires, or using an external transmission shift control box, enables the transmission to start in 1st gear and shift up through the ranges normally. There may, or may not be, solenoid trouble codes stored in the computers memory.

CAUSE: The cause may be, a defective solenoid pack that can be verified with a resistance check on the solenoids with your DVOM, using the chart and illustrations in Figure 2.

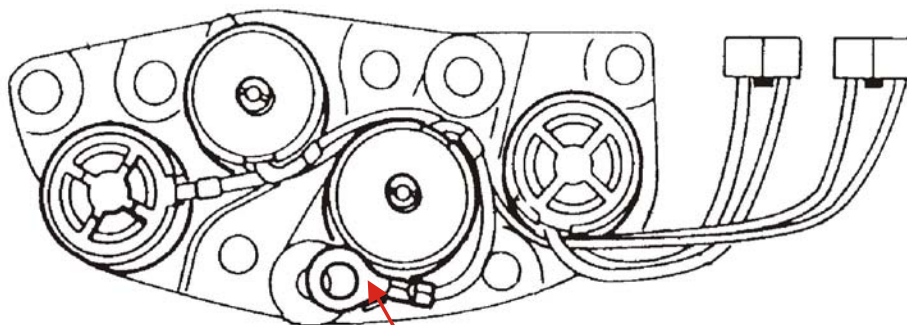
CORRECTION: Replace the solenoid pack with the appropriate part number as listed below in the "Service Information" section. The part numbers that are listed are Nissan, but will also fit the Mazda units as well.

SERVICE INFORMATION:

Solenoid Pack (Rear Wheel Drive Models) 31940-41X-09
Solenoid Pack (Front Wheel Drive Models) 31940-27X-66

SHIFT SOLENOID APPLY CHART			
GEAR	SOLENOID "A"	SOLENOID "B"	OVERRUN
1ST	ON	ON	ON/OFF
2ND	OFF	ON	ON/OFF
3RD	OFF	OFF	ON/OFF
4TH	ON	OFF	ON

Overrun solenoid can be on or off depending on throttle opening, however must be on in fourth gear. Note: when solenoid is "OFF", overrun clutch is on. When solenoid is "ON" clutch is off.

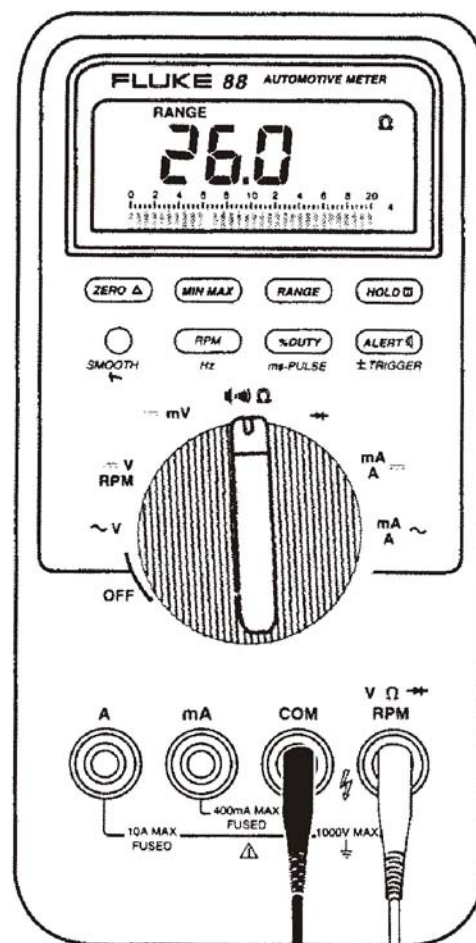


Late model solenoid packs will not have separate ground wire for each solenoid,, but will retro-fit back on the earlier units. They are grounded internally.

Figure 1

CHECKING NISSAN SOLENOIDS

SOLENOID RESISTANCE CHART	
Solenoid	Ohms Resistance
Shift "A"	20 - 40
Shift "B"	20 - 40
Overrun (RE4R01A Only)	20 - 40
Lock-up	10 - 16
EPC	2.5 - 5.0



RE4FO2A SOLENOID LOCATION
IS SHOWN BELOW

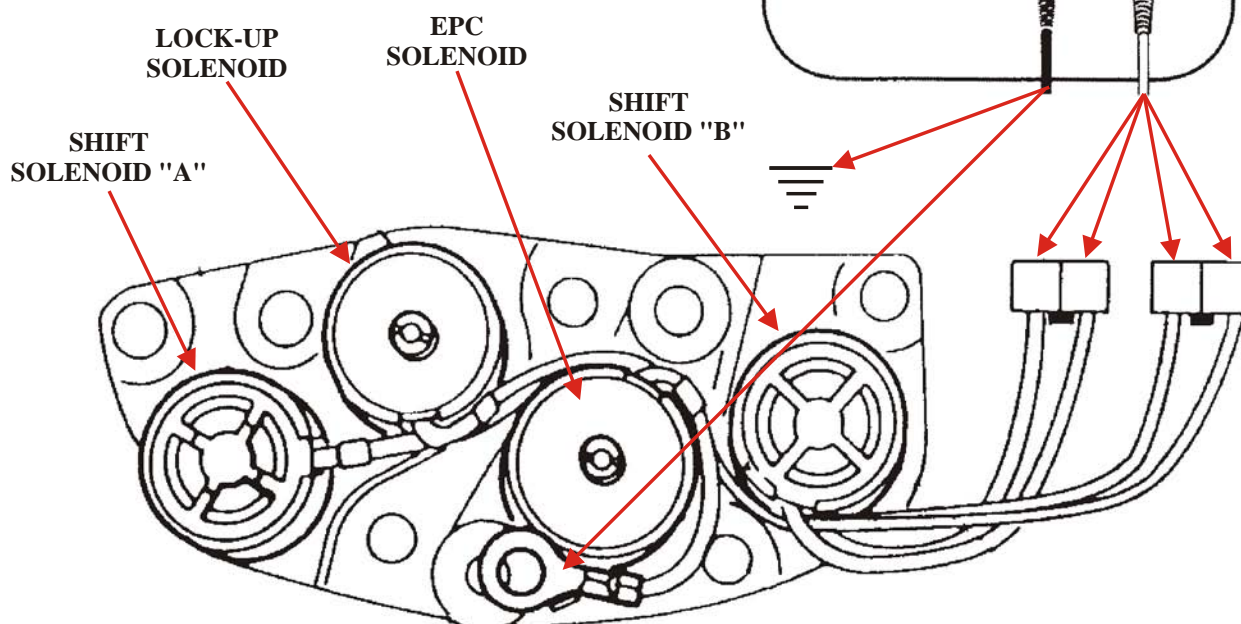


Figure 2