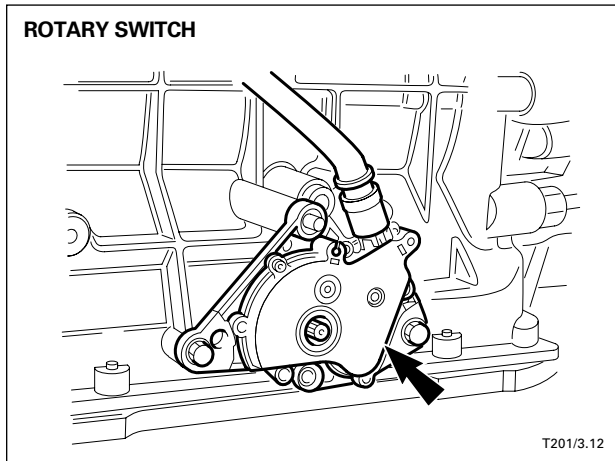


## 5HP 24 AUTOMATIC TRANSMISSION SYSTEM

### TCM Inputs – Transmission (continued)

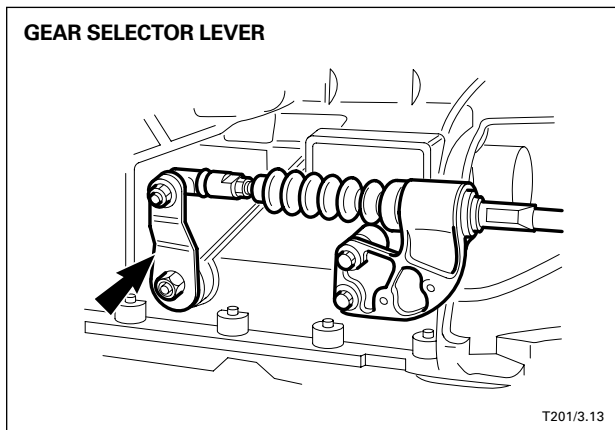


#### Transmission Rotary Switch

The digital rotary switch is mounted on the right hand side of the transmission and is operated by transmission gear selector shaft. Selection of a particular gear generates a 4-bit binary coded signal which is transmitted directly to the TCM over a four wire parallel interface. The rotary switch bolts directly to the transmission case and does not require a service tool for installation.

In addition to the gear selector positions, the rotary switch incorporates a separate Park/Neutral open/close switch used for engine start inhibit.

**NOTE:** If the selector cable is incorrectly adjusted, the range selector may transmit an invalid code, which would cause a DTC to be flagged.



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#### NOTES

PDU Datalogger readings for the range sensor and the D – 4 switch will show as follows:

RANGE	SWL1	SWL2	SWL3	SWL4	D4SW
PARK	1	0	0	0	0
REVERSE	0	1	0	0	0
NEUTRAL	1	1	1	0	0
DRIVE	1	0	1	1	0
MANUAL 4th	1	0	1	1	1
MANUAL 3rd	0	1	1	1	1
MANUAL 2nd	0	0	0	1	1

SWL 0 = closed / low voltage; 1 = open / high voltage

D4SW 0 = open / low voltage; 1 = closed / high voltage (B+)

**D-4 Switch**

The normally open (Drive range) D – 4 switch, located at the J-gate selector, provides the TCM with an voltage input when the gear selector is moved from one side to the other. This input is required as no selector cable and range sensor movement occurs during the side-ways movement.

**NOTES**

