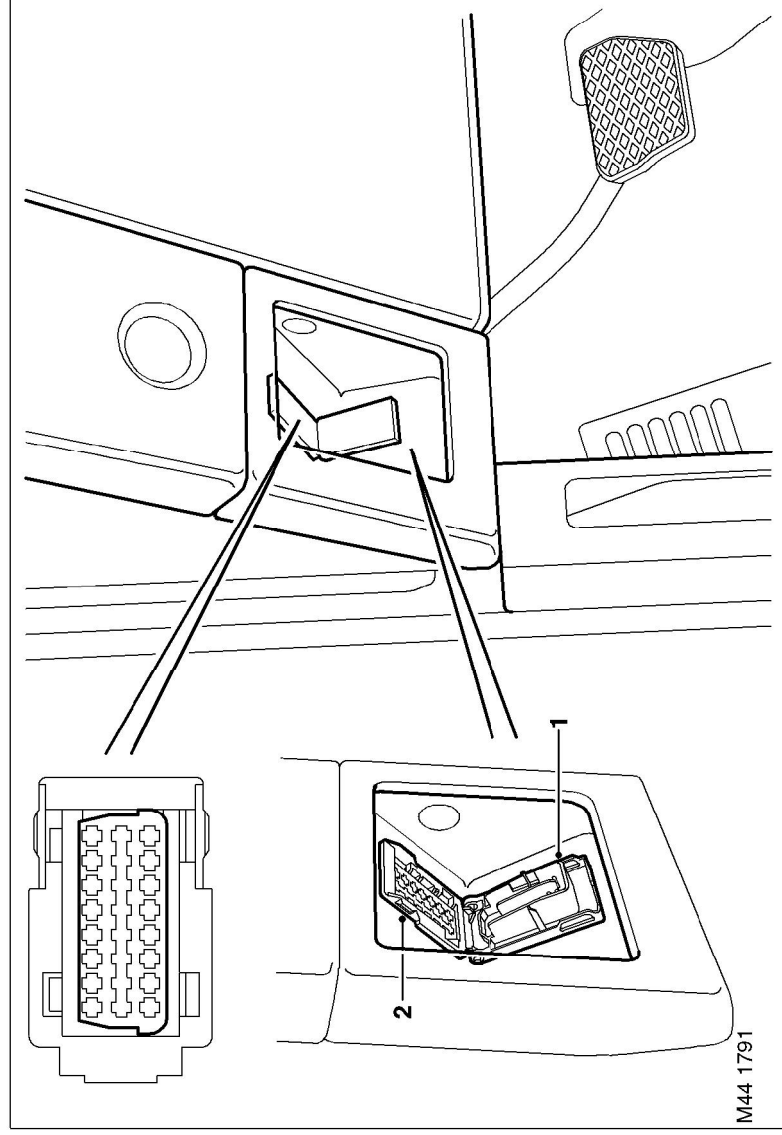


AUTOMATIC TRANSMISSION – ZF 5HP24

Diagnostic Socket



1 Cover

2 Diagnostic socket

The diagnostic socket allows the exchange of information between the various ECU's on the bus systems and TestBook/T4 or a diagnostic tool using Keyword 2000 protocol. The information is communicated to the socket via a diagnostic ISO9141 K Line. This allows the retrieval of diagnostic information and programming of certain functions using TestBook/T4 or a suitable diagnostic tool.

The EAT ECU uses a P code strategy which stores industry standard and Land Rover specific Diagnostic Trouble Codes (DTC) relating to faults.

Transmission P Codes

P Code No.	Component/Signal	Fault Description
0702	EAT ECU internal error 4 (FET/FET 1)	Open circuit, short circuit to ground or battery
0705	Inhibitor switch (PRNDL input)	Implausible
0710	Gearbox oil temperature sensor	Implausible
0711	Gearbox oil temperature sensor	Open circuit
0712	Gearbox oil temperature sensor	Short circuit to ground
0713	Gearbox temperature sensor	Short circuit to battery
0715	Input speed sensor	Implausible
0716	Input speed sensor	Value too large
0720	Output speed sensor	Implausible
0721	Output speed sensor	Implausible, value too large
0730	Gear ratio monitoring	Implausible
0731	1st gear ratio	Implausible
0732	2nd gear ratio	Implausible
0733	3rd gear ratio	Implausible
0734	4th gear ratio	Implausible
0735	5th gear ratio	Implausible



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P Code No.	Component/Signal	Fault Description
0740	Pressure regulator solenoid 4	Implausible
0741	Torque converter lock-up clutch performance	Implausible
0743	Pressure regulator solenoid 4	Open circuit, or short circuit to battery or ground
0745	Pressure regulator solenoid 1	Implausible
0748	Pressure regulator solenoid 1	Open circuit, or short circuit to battery or ground
0750	Shift control solenoid 1	Implausible
0751	Shift control solenoid 1	Open circuit
0752	Shift control solenoid 1	Short circuit to ground
0753	Shift control solenoid 1	Short circuit to battery
0755	Shift control solenoid 2	Implausible
0756	Shift control solenoid 2	Open circuit
0757	Shift control solenoid 2	Short circuit to ground
0758	Shift control solenoid 2	Short circuit to battery
0760	Shift control solenoid 3	Implausible
0761	Shift control solenoid 3	Open circuit
0762	Shift control solenoid 3	Short circuit to ground
0763	Shift control solenoid 3	Short circuit to battery
0775	Pressure regulator solenoid 2	Implausible
0778	Pressure regulator solenoid 2	Open circuit, or short circuit to battery or ground
0780	Shift control	No shift change
0782	Shift from 2 to 3	Value too big, no change
0783	Shift from 3 to 4	Value too big, no change
0795	Pressure regulator solenoid 3	Implausible
0798	Pressure regulator solenoid 3	Open circuit, or short circuit to battery or ground
1601	EAT ECU checksum	Implausible
1602	EAT ECU programme sensing	Implausible
1604	EAT ECU internal error 3 (watchdog)	General error
1605	EAT ECU EEPROM	General error
1710	Battery voltage	Implausible, too low
1711	Battery voltage	Implausible
1743	Pressure regulator solenoid 5	Open circuit, or short circuit to battery or ground
1745	Pressure regulator solenoid 5	Implausible
1748	Pressure regulator solenoid sum current	Implausible
1789	Steptronic	Implausible
1825	Shift lock solenoid	Open circuit, or short circuit to ground or battery
1840	Observation CAN bus	Implausible
1842	CAN version fault	Implausible
1844	CAN bus link with ECM	Timed out
1845	CAN traction control timeout	Implausible
1885	CAN brake signal	Implausible
1884	CAN throttle signal	Implausible