

# Transmission (EGS) Fault Code Lists

## 4HP22/4HP24 (EARLY MODEL THROUGH 10/89) - EGS 1.XX

U1 CODE	DEFINITION OF FAULT	EGS PIN OUT	TRANS. CABLE (8 PIN)	POSSIBLE CAUSES
01	Transmission relay			Relay not switching
02	EPROM checksum error			Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
03	Kickdown switch	2		Short to ground
04	Program switch	2		Break in wiring Short in wiring Defective switch
05	Throttle valve signal or accelerator pedal position - (EML pin 32)	7 9		Break in wiring Short in wiring Defective switch
06	Solenoid valve 1	16	5	Break in wiring Short in wiring Defective valve winding
07	Solenoid valve 2	17	6	Break in wiring Short in wiring Defective valve winding
08	Solenoid valves 1 & 2	16, 17	5, 6	Short in wiring Defective valve winding
09	Solenoid valve - Reverse lock	20	2	Break in wiring Short in wiring Defective valve winding
10	Solenoid valve 1 - Reverse lock	16, 20	5, 2	Short in wiring Defective valve winding
11	Solenoid valve 2 - Reverse lock	17, 20	6, 2	Short in wiring Defective valve winding
12	Solenoid valves	25	7	Short in wiring Defective valve winding
13	Solenoid valve - Converter lockup clutch	25	7	Break in wiring Short in wiring Defective valve winding
14	Solenoid valve 1 - Converter lockup clutch	16, 25	5, 7	Short in wiring Defective valve winding
15	Solenoid valve 2 - Converter lockup clutch	17, 25	6, 7	Short in wiring Defective valve winding
16	Solenoid valves - Converter lockup clutch	20	2	Short in wiring Defective valve winding
17	Reverse lock solenoid valve Converter lockup clutch	20, 25	2, 7	Short in wiring Defective valve winding

19	Solenoid valve - MV2	17	6	Short in wiring Defective valve winding
18	Solenoid valve - Mv1	16	5	Short in wiring Defective valve winding

### 4HP22/4HP24 (EARLY MODEL THROUGH 10/89) - EGS 1.XX

U1 CODE	DEFINITION OF FAULT	EGS PIN OUT	TRANS. CABLE (8 PIN)	POSSIBLE CAUSES
20	Power supply -MV's and Pressure regulators	1	8	Short in wiring Defective valve winding
21	Engine speed sensor signal	21		Engine speed too high > 6800 rpm
22	Pressure regulator	22	1	Break in wiring Short in wiring Defective valve winding
23	Ignition timing intervention	24		Break in wiring Short to ground
24	Speed sensor n-ab - Downshift prevention	8, 27	3, 4	Break or short in wiring from control unit pin 8 to speed sensor Engine speed sensor defective
25	Engine over-rev lock			Engine speed exceeds output speed
26	KVA signal (ti)	11		Fuel consumption indicator (KVA signal)
27	Speed sensor n-ab			Engine speed sensor or torque converter or stall speed exceeded
28	Breakdown display			Transmission failure detected
29	Incorrect checksum in EGS program memory			Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
30	Battery voltage			Battery voltage too low >9 volts Check battery Check charging system
31	Shift lever position	28		
200	Kickdown switch not working			
201	Kickdown switch fault			
202	Sport car transmission feature not selectable			
203	Manual shift program feature not selectable			
204	Program cannot be converted	6		
205	No engine deceleration detected	24		
206	False code set			
207	No EML detected			
300	Diagnostic circuit fault			
301	Voltage to control			No voltage to EGS control unit Check wiring harness
302	Shift lever position sensor			Break in wiring

Short in wiring  
Defective switch

303 Shift lever position sensor signal

Break in wiring  
Short in wiring  
Defective switch

### 4HP22, 4HP24 (LATE MODEL 11/89 AND NEWER)- EGS 1.XX

U1/U8 CODE	DEFINITION OF FAULT	EGS PIN OUT	TRANS. CABLE (8 PIN)	POSSIBLE CAUSES
01	Transmission relay			Relay in EGS not switching
02	EPROM checksum error			Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
03	Kickdown switch	2		Short to ground
04	Program switch E=pin 14, M=pin 15, S=pin 4			Break in wiring Short in wiring Defective switch
05	Throttle valve signal or accelerator pedal position - (EML pin 32)	7, 9		Break in wiring Short in wiring Defective switch
06	Solenoid valve 1	16	5	Break in wiring Short in wiring Defective valve winding
07	Solenoid valve 2	17	6	Break in wiring Short in wiring Defective valve winding
08	Solenoid valves 1 & 2	16, 17	5, 6	Short in wiring Defective valve winding
09	Solenoid valve -Park/neutral lock	20	2	Break in wiring Short in wiring Defective valve winding
10	Solenoid valve 1 - Park/neutral lock	16, 20	5, 2	Short in wiring Defective valve winding
11	Solenoid valve 2 - Park/neutral lock	17, 20	6, 2	Short in wiring Defective valve winding
12	Solenoid valves	25	7	Short in wiring Defective valve winding
13	Solenoid valve - Converter lockup clutch	25	7	Break in wiring Short in wiring Defective valve winding
14	Solenoid valve 1 - Converter lockup clutch	16, 25	5, 7	Short in wiring Defective valve winding
15	Solenoid valve 2 - Converter lockup clutch	17, 25	6, 7	Short in wiring Defective valve winding

16	Solenoid valves - Converter lockup clutch	20	2	Short in wiring Defective valve winding
17	Reverse lock solenoid valve Converter lockup clutch	20, 25	2, 7	Short in wiring Defective valve winding
19	Solenoid valve - Magnetic valve 2	17	6	Short in wiring Defective valve winding
18	Solenoid valve - Magnetic valve 1	16	5	Short in wiring Defective valve winding
20	Power supply - Solenoid valves (MV's) and Pressure regulators	1	8	Break in wiring Short in wiring Defective valve winding
21	Engine speed sensor signal	21		Engine speed too high > 6800 rpm
22	Pressure regulator	22	1	Break in wiring Short in wiring Defective valve winding

### 4HP22, 4HP24 (LATE MODEL 11/89 AND NEWER)- EGS 1.XX

U1/U8 CODE	DEFINITION OF FAULT	EGS PIN OUT	TRANS. CABLE (8 PIN)	POSSIBLE CAUSES
23	Ignition timing intervention	24		Break in wiring Short to ground
24	Speed sensor n-ab - Downshift prevention	8, 27	3, 4	Break or short in wiring from control unit pin 8 to speed sensor Engine speed sensor defective Engine speed too high for intended gearshift
25	Engine over-rev lock			Engine speed exceeds output speed
26	KVA signal (ti)	11		Fuel consumption indicator (KVA signal)
27	Speed sensor n-ab	8, 27	3, 4	Engine speed sensor Torque convertor Stall speed exceeded
28	Breakdown display			Transmission failure detected
29	Incorrect checksum in EGS program memory			Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
30	Battery voltage			Low battery voltage Check battery and charging system
31	Shift lever position	28		Break in wiring Short in wiring Short in sensor
200	Kickdown switch not working			
201	Kickdown switch fault			
202	Sport car transmission feature not selectable			
203	Manual shift program feature not selectable			

204	Program cannot be converted	6		
205	No engine deceleration detected	24		
206	False code set			
207	No EML detected			
300	Diagnostic circuit fault			
301	Voltage to control			No voltage to EGS control unit Check wiring harness
302	Shift lever position sensor			
303	Shift lever position sensor signal			Break in wiring Short in wiring Defective switch

#### 4HP24 - EGS 2.28

U2 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
01	Battery voltage +	1	Battery voltage too low >9 volts Check battery Check charging system
02	Output speed sensor (tr)	2, 28	Anomalous signal Not normal signal Signal not in allowable range
03	Engine speed signal	3	Break in wiring Short in wiring Engine speed too high >6800 rpm
05	Solenoid valve 1	5	Break in wiring Short in wiring Defective valve winding
06	Pressure actuator	6	Break in wiring Short in wiring
(11)	Wheel speed - rear left	11	Anomalous signal Not normal signal Signal not in allowable range
(12)	Wheel Speed - Rear Right	12	Anomalous signal Not normal signal Signal not in allowable range
13	Solenoid - Park/neutral Lock	13	Break in wiring Short in wiring Defective valve winding
14	Selector lever position L2	14	Vehicle accelerated while shift lever in park or neutral position Engine was started and the EGS control has not detected park or neutral position signal
19	Power Supply - Solenoid Valves and Eds's	19	Break in wiring Short in wiring

			Defective valve winding
21	Load signal (KVA signal)	21	Break in wiring Short in wiring
24	Solenoid valve 2	2	Break in wiring Short in wiring Defective valve winding
29	Shift Lever Position L3/4	33, 39	Break in wiring Short in wiring
(30)	Wheel Speed - Front Right	30	Anomalous signal Not normal signal Signal not in allowable range
32	Engine Intervention	32	Break in wiring Short in wiring
39	Continuous Voltage +	39	Anomalous signal Not normal signal Signal not in allowable range
41	KD switch	41	Short to ground
42	Solenoid Valve - Converter Lockup Clutch	42	Break in wiring Short in wiring Defective valve winding
43	Program Selector Switch	43	Anomalous signal Break in wiring Short in wiring
47	Accelerator Pedal Position	47	Break in wiring Short in wiring

4HP24 - EGS 2.28			
U2 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
(48)	Wheel Speed - Front Left	48	Anomalous signal Not normal signal Signal not in allowable range
50	Shift Lever Position I1	50	Break in wiring Short in wiring
100	EPROM checksum		Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
101	Incorrect Checksum in Program		Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
102	Relay - EGS Control Unit		Relay in EGS not switching in time
103	Wheel Speed Not Plausible		Anomalous signal Not normal signal Signal not in allowable range

104	Stall Speed Monitoring		Anomalous signal Not normal signal Signal not in allowable range
105	Wheel Speed - Lateral Slip		Lateral slip for longer than 2.5 minutes Wheels out of alignment Suspension not level You've been racing on a circular track

### A4S 310R (THM-R1), A4S 270R (THM-R1) - EGS 4.XX

U4 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
01	Solenoid Parking/neutral lock		Break in wiring Short in wiring Defective valve winding
02	Program SWITCH E=pin 2, M=pin 31, S=pin 34		Break in wiring Short in wiring Defective switch
04	Engine Intervention	4	Break in wiring Short in wiring
09	KVA Signal (ti)	9	Break in wiring Short in wiring
11	Engine Speed Signal (n-mot)	11	Break in wiring Short in wiring
20	Transmission rotation speed signal (n-ab) - Stall speed signal	14, 20	No signal Anomalous engine speed signal
22	Transmission fluid temperature sensor	17, 22	Transmission temperature too high (>165c)
23	Shift Lever Position	26	Break in wiring Short in wiring Short in sensor
28	Battery Voltage + (Terminal 30)	28	Break in wiring Check battery contacts and wiring integrity
30	Kickdown Switch	30	Short to ground
35	Stop Light Switch	35	Break in wiring
37	Battery voltage +	37	Voltage out of range
38	Solenoid valve - Converter lockup clutch	38	Break in wiring Short in wiring Defective valve winding
39	Stop light switch	39	Break in wiring
40	Pressure regulator	40, 41	Break in wiring Short in wiring Defective valve winding
43	Solenoid valve 2	43	Break in wiring Short in wiring Defective valve winding
45	Solenoid valve - Band	45	Break in wiring Short in wiring Defective valve winding

48	Solenoid valve 1	48	Break in wiring Short in wiring Defective valve winding
54	Ground - Solenoid valves	54	Break in wiring Short in wiring Defective valve winding
55	Throttle valve signal (DKT)	55	Anomalous throttle valve signal Break in wiring Short in wiring
100	Speed monitoring		Speed ratio n-ab/n-mot not correct for gear selected
101	Downshift lock		Speed too high for downshift intended
102	Engine over-rev lock in 1st and 2nd gear		Engine speed 300 rpm above output speed
103	EPROM error		Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit

### A4S 310R (THM-R1), A4S 270R (THM-R1) - EGS 4.XX

U4 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
104	DKT engine temperature signal	35	
105	DKT throttle valve signal	35	Break in wiring Short in wiring Anomalous signal
107	False code set		
110	EGS control unit not programmed		Have EGS control unit programmed
105	DKT throttle valve signal	35	Break in wiring short in wiring Anomalous throttle valve signal
106	MUX injection rate		DDE sending faulty injection rate signal
110	EGS control unit not programmed		Have EGS control unit programmed
(150)	Can timeout 1		Can signal not sent during engine start (ignition on)
(151)	Can timeout 2		Can signal not detected (engine running)
(152)	Can bus monitor		Values in can ram storage not updated
(153)	Can status fault		Control units with different can status' are installed on the same bus Replace with correct units
(154)	Can throttle valve signal		Anomalous throttle valve signal detected by DME
(155)	Can load signal		Anomalous load signal detected by DME
(156)	Can engine intervention		DME cannot alter engine torque to match EGS signal DME does not match other can control units
(157)	Can engine temperature		Anomalous engine temperature signal detected by DME
(158)	Can engine speed signal		Anomalous engine speed signal detected by DME
200	Kickdown not working		
201	Sport car transmission feature not		



	selectable		
202	Manual shift program feature not selectable		
203	Program cannot be converted	6	
204	No engine deceleration detected	24	
205	Brake light Brake light test switch		
206	False code set	25	
300	Diagnostic circuit fault		
301	EGS voltage supply		No voltage to EGS control unit Check wiring harness

### A5S 310Z (5HP-18) - EGS 7.XX

U7 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
02	Solenoid Parking/Neutral lock	2	Break in wiring Short in wiring Defective valve winding
03	Solenoid valve 5		Break in wiring Short in wiring Defective valve winding
04	Solenoid valve 6 - Convertor lockup clutch		Break in wiring Short in wiring Defective valve winding
05	Pressure regulator		Break in wiring Short in wiring Defective valve winding
08	Shift Lever Position L2	8	Vehicle accelerated while shift lever in park or neutral position Engine was started and the EGS control has not detected park or neutral position signal
09	Shift lever position L3/L4	37, 9	Break in wiring Short in wiring Short in sensor
12	Program selector switch	12, 13, 45	Short to ground
16	Turbo charger speed sensor	16, 44	No signal Anomalous engine speed signal
18	Kickdown switch	18	Short to ground Anomalous signal
19	ASC monitoring	19	Break in wiring Short in wiring EGS detected anomalous ASC signal ASC operation detected while shift lever in park or neutral
22	ATF sump temperature sensor	21, 22	Break in wiring Short in wiring
26	Battery voltage +	26	Break in wiring

			Check battery Check charging system
30	Solenoid valve 1	30	Break in wiring Short in wiring Defective valve winding
31	Solenoid valve 4	31	Break in wiring Short in wiring Defective valve winding
32	Solenoid valve 3	32	Break in wiring Short in wiring Defective valve winding
33	Solenoid valve 2	33	Break in wiring Short in wiring Defective valve winding
35	Throttle valve signal (DKT)	35	Break in wiring Short in wiring Anomalous throttle valve signal
36	Shift lever position I1	36	Break in wiring Short in wiring Short in sensor
40	Engine intervention	40	Break in wiring Short in wiring

### A5S 310Z (5HP-18) - EGS 7.XX

U7 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
41	KVA signal	41	Break in wiring Short in wiring
42	Transmission output rotation speed signal (n-ab) - Stall speed signal	14, 42	No signal Anomalous engine speed signal
43	Engine speed signal (n-mot)	43	No signal Anomalous engine speed signal
53	Power supply - Solenoid valves	53	Relay in EGS not switching
54	Batter voltage +	54	Battery voltage too low (>9 volts) Check battery Check charging system
100	Speed monitoring		Trans/engine speed ratio not correct for gear selected Speed sensor signal faulty Slip in transmission too high
101	EPROM checksum error		Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
102	Program checksum error		Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit

103	Relay - EGS control unit		Relay in EGS not switching in time
104	DKT- Temperature signal	35	Break in wiring short in wiring Anomalous engine temperature signal
105	DKT - Throttle valve signal	35	Break in wiring short in wiring Anomalous throttle valve signal
106	MUX injection rate		DDE sending faulty injection rate signal
110	EGS control unit not programmed		Have EGS control unit programmed
(150)	CAN timeout 1		CAN signal not sent during engine start (ignition on)
(151)	CAN timeout 2		CAN signal not detected (engine running)
(152)	CAN bus monitor		Values in CAN ram storage not updated
(153)	CAN status fault		Control units with different CAN status' are installed on the same bus Replace with correct units
(154)	CAN throttle valve signal		Anomalous throttle valve signal detected by DME
(155)	CAN load signal		Anomalous load signal detected by DME
(156)	CAN engine intervention		DME cannot alter engine torque to match EGS signal DME does not match other CAN control units
(157)	CAN engine temperature		Anomalous engine temperature signal detected by DME
(158)	CAN engine speed signal		Anomalous engine speed signal detected by DME
200	Kickdown not working		
201	Sport car transmission feature not selectable		
202	Manual shift program feature not selectable		
203	Program cannot be converted	6	
204	No engine deceleration detected	24	
205	Brake light Brake light test switch		
206	False code set		
300	Diagnostic circuit fault		
301	EGS voltage supply		No voltage to EGS control unit Check wiring harness

### A5S 560Z (5HP-30) - EGS 9.XX

U9 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
01	Pressure regulator - EDS 2	1	Anomalous signal Break in wiring Short in wiring
02	Solenoid Parking/neutral lock	2	Break in wiring Short in wiring Defective valve winding
04	Pressure regulator - EDS 4	4	Anomalous signal Break in wiring Short in wiring
05	Pressure regulator - EDS 1	5	Anomalous signal

			Break in wiring Short in wiring
08	Shift lever position L2	8	Vehicle accelerated while shift lever in park or neutral position Engine was started and the EGS control has not detected park or neutral position signal
09	Shift lever position L3/L4	37, 9	Break in wiring Short in wiring Short in sensor
			More than one program selector switch is applied to ground
12	Program selector switch	12, 13, 45	Short in wiring Short in sensor More than one program selector switch is applied to ground
16	Turbo charger speed sensor	16, 44	No signal Anomalous engine speed signal
18	Kickdown switch	18	Short to ground Anomalous signal
(19)	ASC monitoring	19	Break in wiring Short in wiring EGS detected anomalous ASC signal ASC operation detected while shift lever in park or neutral
22	ATF sump temperature sensor	21, 22	Break in wiring Short in wiring
26	Battery voltage +	26	Break in wiring Check battery Check charging system
29	Pressure regulator - EDS 3	29	Anomalous signal Break in wiring Short in wiring
30	Solenoid valve 1	30	Break in wiring Short in wiring Defective valve winding
31	Solenoid valve 4	31	Break in wiring Short in wiring Defective valve winding
32	Solenoid valve 3	32	Break in wiring Short in wiring Defective valve winding
33	Solenoid valve 2	33	Break in wiring Short in wiring Defective valve winding
35	Throttle valve signal (DKT)	35	Break in wiring Short in wiring Anomalous throttle valve signal

## A5S 560Z (5HP-30) - EGS 9.XX

U9 CODE	DEFINITION OF FAULT	EGS PIN OUT	POSSIBLE CAUSES
36	Shift lever position L1	36	Break in wiring Short in wiring Short in sensor
40	Engine intervention	40	Break in wiring Short in wiring
41	KVA signal	41	Break in wiring Short in wiring
42	Transmission rotation speed signal (n-ab) Stall speed signal	13, 42	No signal Anomalous engine speed signal
43	Engine speed signal (n-mot)	43	No signal Anomalous engine speed signal
(51)	Pressure regulator - EDS 3	51	Anomalous signal Break in wiring Short in wiring
(52)	Power supply - Solenoid valves or EDS'	52	Break in wiring Short in wiring
54	Batter voltage +	54	Battery voltage too low (>9 volts) Check battery Check charging system
100	Speed monitoring		Trans/engine speed ratio not correct for gear selected Speed sensor signal faulty Slip in transmission too high
101	EPROM checksum error		Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
102	Program checksum error		Damaged EPROM Program in memory faulty Reinitialize power to EGS control unit Replace control unit
103	Relay - EGS control unit	52	Relay in EGS not switching in time
104	Engine over-rev lock		Engine speed >6800 rpm detected
105	Speed monitoring		Trans/engine speed ratio not correct for gear selected Speed sensor signal faulty Slip in transmission too high
106	Speed monitoring		Trans/engine speed ratio not correct for gear selected Speed sensor signal faulty Slip in transmission too high
(150)	CAN timeout 1		CAN signal not sent during engine start (ignition on)
(151)	CAN timeout 2		CAN signal not detected (engine running)
(152)	CAN bus monitor		Values in CAN ram storage not updated
(153)	CAN status fault		Control units with different CAN status' are installed on the same bus Replace with correct units

(154)	CAN throttle valve signal	Anomalous throttle valve signal detected by DME
(155)	CAN load signal	Anomalous load signal detected by DME
(156)	CAN engine intervention	DME cannot alter engine torque to match EGS signal DME does not match other CAN control units (e.g. ASC)
(157)	CAN engine temperature	Anomalous engine temperature signal detected by DME