Failure tree

IVECO



1328 754 105

Subject to technical changes

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1328 754 105

Abbreviations - Contents



Abbreviation	Meaning
ABS	Anti-locking system
ADVP	Digital output power supply (+)
alpha_fp	Accelerator pedal position (value in %)
AL	Insufficient air (air deficiency)
ASR	Anti-slip control
aux_stat_zbr	CAN message
BN	Vehicle power supply
Buka	Terminal tester
CAN	Controller Area Network (CAN)
ECU	Electronic control unit (Transmission control)
EDC	Electronic-diesel-control (EDC) (engine electronics)
Eol_Parameter	End of line (entry of vehicle parameter e.g. rear axle ratio)
ERC1_DR	CAN message
EST	Electronic control (e.g. Intarder control EST 48)
FFR	Vehicle controller
Fzg	Vehicle
GA	Gate
GB	Transmission brake
GV	Splitter group
GVL	Splitter group, low
GVS	Splitter group, high
GP	Range change group (planetary group)
GPL	Range change group, low
GPS	Range change group, high
GS	Transmission actuator
HG	Main transmission
i_HA	Rear axle ratio
 i.O	ОК
Ink	Incremental (step)
Kitas	Active output speed sensor for speedo
K1	Constant 1
K2	Constant 2
KM	Short circuit to earth/ground
KP	Short circuit to positive
KS	Clutch actuator
m_dd_edc	Calculated EDC injection rate (driver's request)
m_mbr	Current engine brake torque
m_mot_akt	Current injection quantity for EDC engine
m_sekret	Secondary retarder brake torque from CAN message ERC1 taken from
	Intarder (Driveline Retarder)
n_mot	Engine speed (rpm)
n_sek	Transmission output shaft speed
OEM	Original equipment manufacturer
PTO	Power-take-off
TC1_FT	CAN message
UFB	Faultfinding, rectification
v_cc_set	Cruise control set requested speed
Valeo	Clutch manufacturer
VM	Supply ground
WSI	Wheel speed information (CAN message)
z_Fbr	Foot brake signal
z_kd	Kickdown signal
z_low_idle	Idling switch signal
z_ret_rück	Intarder down-shifting request



Error number		
ZF	IVECO	
2	2 - A	
3		
4	2 - A	
5		
6	2 - A	
7	2 - A	
8	2 - A	
9	2 - A	
10	2 - A	
11		
12		
13		
14		
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18	12	
19 20		
20 21	15	
21	16	
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29		
	1E	
31		
	20	
	21	
	22 - 2A	
	22 - 2A	
36		
	22 - 2A	
38		
39		
40		
41	22 - 2A	
42	22 - 2A 2B	
43		
	20 2D	
	2D 2E	
	31	
	32	
	33	
	34	
53		
54	36	
59	3B	
60	3C	
61	3D	
62		
63	3F	



Error number		
ZF	IVECO	
64	40	
65		
	42 - 4A	
67		
	42 - 4A	
	42 - 4A	
	42 - 4A 42 - 4A	
	42 - 4A 42 - 4A	
	42 - 4A	
	42 - 4A	
	4B	
	4C	
77	4D	
	4E	
81		
	52	
	53	
	54	
	55	
	56	
	59 59	
	59 5B	
	5C	
	5D	
	5E	
95	5F	
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	62	
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102 103		
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117		
118		
119		
120		
121	79	
122 123	7A 7B	
123		
124	7C 7E	
126	12	



Error number		
ZF	IVECO	
107		
127		
128		
129		
130		
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135 136		
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163	A3	
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166		
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169		
170		
171	AB	
174		
175		
177		
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179		
180		
181	B5	
182		
183		
184	B8	



Error number		
ZF	IVECO	
188		
190	BE	
191	BF	
192	C0	
193	C1	
194	C2	
197	C5	
199	C7	
226	E2	
227	E3	



Error nu	umber
IVECO	ZF
11	<u></u> 17
12	18
12 13 14 15 16 19	10
13	20
14	20
10	21
10	22 25
19	25
20	32
21 31	33
31	49
32 33 34 35	50
33	51
34	52
35	53
36	54
40	64
51 52 53 54 55	50 51 52 53 54 64 81 82 83
52	82
53	83
54	84
55	85
56	86
59	89
59	90
60	96
61	97
62	98
	98
63 64 65 66	
65	100
00	101 102
66	102
67	103
68	104
69	105
71	113
72	114
75 76	117
76	118
77	119
78	120
77 78 79	120 121 128 129 130 131
80 81 82 83	128
81	129
82	130
83	131
84	132
84 85	132 133
86	134
87	135
88	136
89	135 136 137 144
90	1/1
90 91	144
91	145 146
92	140



Error nu	umber
IVECO	ZF
	147
94	147 148 149 150 151 152 153 170 26 27 28 29
95	149
96	140
90	150
97	151
90	152
99	153
AA 4.0	170
1A	26
1B	27
10	28
1D	29
1E	30
1F	31
2 - A	2
2 - A	3
2 - A	4
2 - A	5
93 94 95 96 97 98 99 AA 1A 1B 1C 1D 1E 1C 1D 1E 2 - A 2 - 2A 2 - 2	30 31 2 3 3 4 4 5 6 6 7 7 8 9
2 - A	7
2 - A	8
2 - A	9
2 - A	10
22 - 2A	34
22 - 2A	35
22 - 2A	36
22 - 2A 22 - 2A	10 34 35 36 37 38 39 40 41 41 42 43
22 - 2A	38
22 - 24	39
22 - 24	40
22 20	40
22 - 2A 22 - 2A	41
22 - 2A 2B	42
-	
2C 2D	44 45
20	40
2E	46 59
3B	59
3C	60
3D	61 62
3E	62
3F	63
42 - 4A	66
42 - 4A	67
42 - 4A	68
42 - 4A 42 - 4A 42 - 4A 42 - 4A 42 - 4A 42 - 4A 42 - 4A	69 70
42 - 4A	70
42 - 4A	71
42 - 4A	72 73
42 - 4A	73
42 - 4A	74
4B	75
42 - 4A 4B 4C	75 76
4D	70
4 <u>0</u> 4E	78
	70



Error ni	umber
IVECO	ZF
5B	91
5C	92
5D	93
5E	94
5F	95
6B	107
6C	107
	108
6E	
7A 7D	122
7B	123
7C	124
7E	126
7F	127 138
8A	138
8B	139
8C	140
8D	141
8E	142
8F	143
9A	154
9B	155
9C	156
9D	157
9E	158
9F	159
A0	160
A3	163
A4	164
A5	165
A6	166
A0 A8	168
A0 A9	169
	171
AB	
AE	174
AF	175
B	11
B1	177
B2	178
B3	179
B4	180
B5	181
B6	182
B7	183
B8 BC	184
BC	188
BE	190
BF	191
C	12
C0	192
C1	192
C2	193
C2 C5	194
	197
C7	199
-	13

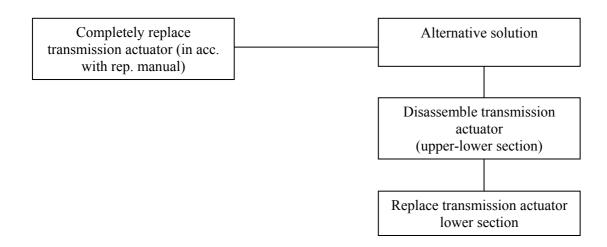


Error number	
IVECO	ZF
E	14
E2	226
E3	227



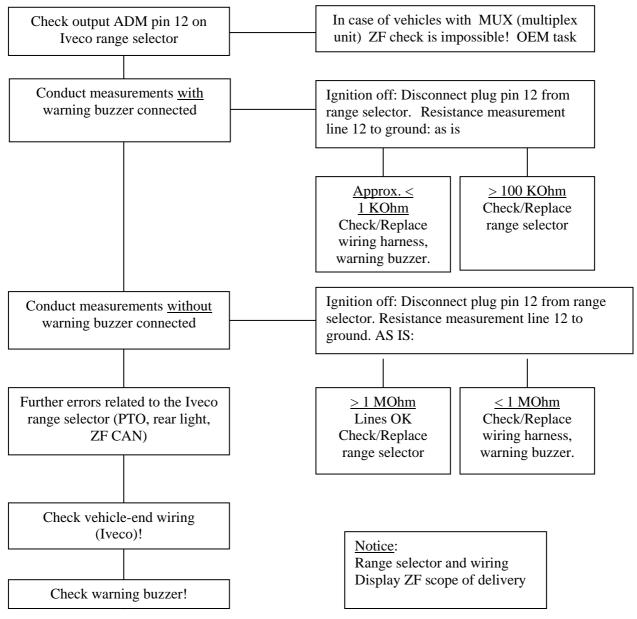
Iveco error number:	2 - A, 22 - 2A, 42 - 4A
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Error display:	In vehicle display:	Error 2 – A Error 22 – 2A Error 42 – 4A
	MobiDig/ Testman:	Error 02 – 10 Error 34 – 42 Error 66 – 74
Error description:	Error 34 - 42: Interruption at	o ground at output to valve Y2 – Y10. output to valve Y2 – Y10. plus (+) at output to valve Y2 – Y10
Error detection:	By ECU hardware, if output	is activated.
System response:	The automatic shift unit is deactivated. If the error occurs during shifting, the selected gear remains engaged, depending on the driving condition, or the ECU tries to shift to an equivalent gear. If both options are not possible, the main transmission (HG) shifts into neutral. Engagement of selected substitute gears during standstill and driving is possible. Short-circuited shift valve outputs are deactivated. Error present during ignition on, engine start impossible. Follow-up error possible, ZF error number: 155 (9B), 152 (98) , 150 (96) 148 (94), 144 (90), 136 (88). If 2 errors do occur, then, the system is not available!	



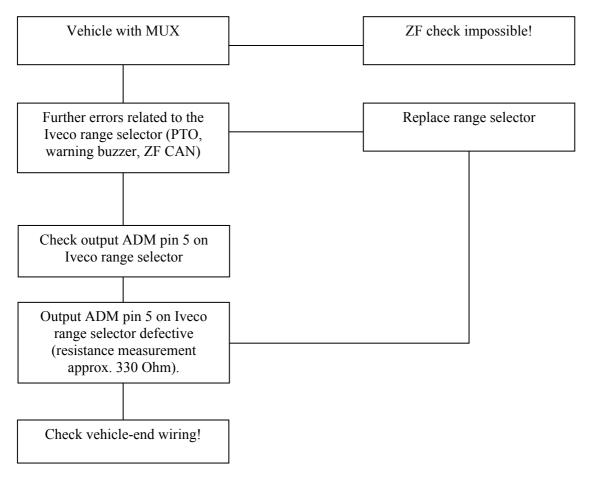


Iveco error number:	B, 2B, 4B	
Error display:	In vehicle display: MobiDig/ Testman:	B, 2B, 4B 11, 43, 75
Error description:	Error 11: Short circuit to plus (+) at output to warning buzzer. Error 43: Interruption at output to warning buzzer. Error 74: Short circuit to ground at output to warning buzzer.	
Error detection:	By ECU hardware, by error 11 if output is activated and by error 43/75, if output is not activated.	
System response:	In case of error 11, the warni 43/75 the warning buzzer car	ng buzzer is permanently active, and by error mot be controlled.



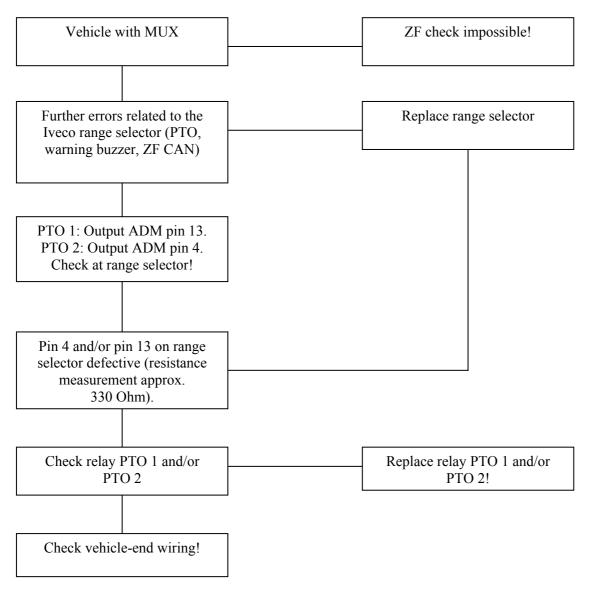


Iveco error number:	C, 2C, 4C	
Error display:	In vehicle display: MobiDig/ Testman:	C, 2C, 4C 12, 44, 76
Error description:	Error 12: Short circuit to ground at output to rear light relay Error 44: Interruption at output to rear light relay Error 76: Short circuit to plus (+) at output to rear light relay	
Error detection:	By ECU hardware, if output	is activated.
System response:	ECU output is deactivating. No further system restriction	Rear light does not function anymore.



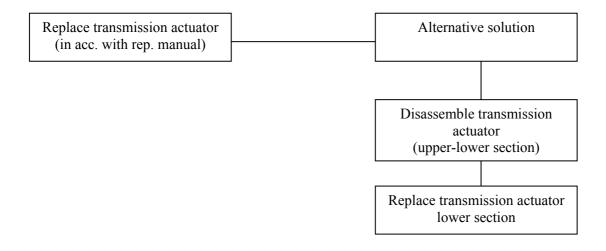


Iveco error number:	D, E	
Error display:	In vehicle display: MobiDig/ Testman:	D, E 13, 14
Error description:	Error 13: Short circuit to ground at output to PTO 1. Error 14: Short circuit to ground at output to PTO 2.	
Error detection:	By ECU hardware, if output is activated.	
System response:	During travel, gear shifts are blocked. If the vehicle is at a standstill, the clutch opens and a shift is automatically made to neutral. Other gear shifts not possible.	



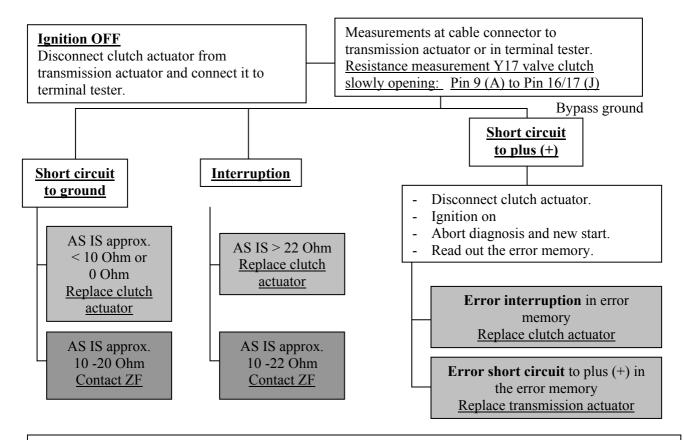


Iveco error number:	11, 31, 51	
Error display:	In vehicle display: MobiDig/ Testman:	11, 31, 51 17, 49, 81
Error description:	 Error 17 Short circuit to ground at output to valve Y1 (GB). Error 49 Interruption at output to valve Y1 (GB). Error 81 Short circuit to plus (+) at output to valve Y1 (GB). 	
Error detection:	By ECU hardware, if output is activated.	
System response:	 By ECU hardware, if output is activated. During travel, upshifts are handled just as downshifts. Input speed is synchronized by engine speed. Upshifts are inhibited if target speed is smaller than engine idling speed. Prolonged shift time. Stationary: Prolonged teach-in time. Prolonged shift time when shifting out of neutral. Prolonged shift time out of PTO mode. The automatic shift unit is deactivated. Driving in manual mode possible. In case of ZF error 81 (51), gear shifts are inhibited. Shifting into starting gears and driving off is possible. Follow-up error possible: ZF error number 155 (9B). 	





Iveco error number:	12, 32, 52	
Error display:	In vehicle display: MobiDig/ Testman:	12, 32, 52 18, 50, 82
Error description:	Error 18: Short circuit to grou Error 50: Interruption. Error 82: Short circuit to plus	Y17 valve clutch slowly opening.
Error detection:	By ECU hardware, if output is activated.	
System response:	 By ECU hardware, if output is activated. ECU output is deactivating. Two valves are responsible for opening and two valves are responsible for closing (fast, slow). If one Close/Open valve fails, this function is adopted by the other Close/Open valve. Reduced comfort when maneuvering and starting. If both closing and opening valve fail, the system is not available. The automatic shift unit is deactivated. Driving in manual mode possible. In case of error 82 gear shifting is completely inhibited. The system is not available. If the error occurs during travel, attempts are made to keep the clutch engaged. As soon as the vehicle comes to a standstill and the clutch opens, the system automatically shifts to neutral. 	



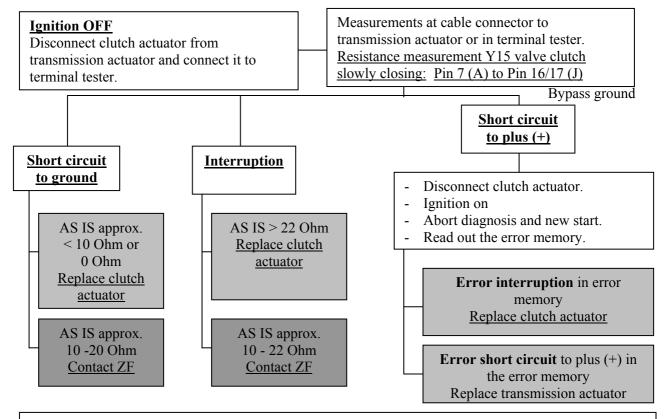
Note



Iveco error number:	13, 33, 53	
Error display:	In vehicle display: MobiDig/ Testman:	13, 33, 53 19, 51, 83
Error description:	Error 19: Short circuit to ground Y15 valve clutch slowly closing. Error 51: Interruption Y15 valve clutch slowly closing. Error 83: Short circuit to plus (+) Y15 valve clutch slowly closing.	
Error detection:	By ECU hardware, if output is activated.	
System response:	ECU output is deactivating. Two valves are responsible for opening and two valves are responsible for closing (fast, slow). If one Close/Open valve fails, this function is adopted by the other Close/Open valve. Reduced comfort when maneuvering and starting. If both closing and opening valve fail, the system is not available. The automatic shift unit is deactivated. Driving in manual mode possible. In case of error 83 gear shifting is completely inhibited. The system is not available. If the error occurs during travel, attempts are made to keep the clutch engaged. As soon as the vehicle comes to a standstill and the clutch opens, the system automatically shifts to neutral.	

Terra a annon mermikan

12 22 52



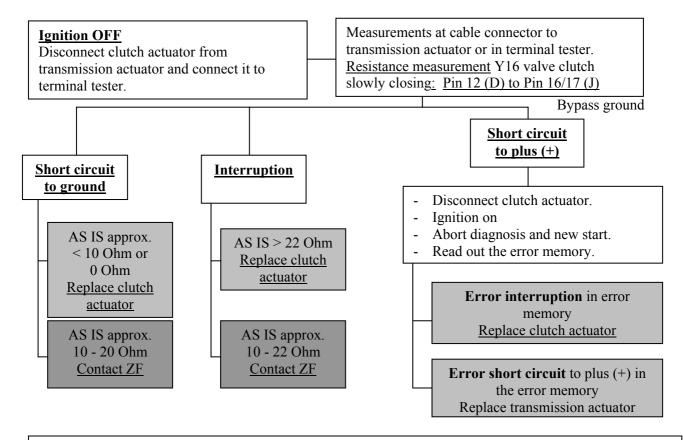
Note



lveco error number:	14, 34, 54	
Error display:	In vehicle display: MobiDig/ Testman:	14, 34, 54 20, 52, 84
Error description:	Error 20: Short circuit to gro Error 52: Interruption. Error 84: Short circuit to plus	und Y16 valve, fast opening clutch.
Error detection:	By ECU hardware, if output is activated.	
System response:	ECU output is deactivating. Two valves are responsible for opening and two valves are responsible for closing (fast, slow). If one Close/Open valve fails, this function is adopted by the other Close/Open valve. Reduced comfort when maneuvering and starting. If both closing and opening valve fail, the system is not available. The automatic shift unit is deactivated. Driving in manual mode possible. In case of error 84 gear shifting is completely inhibited. The system is not available. If the error occurs during travel, attempts are made to keep the clutch engaged. As soon as the vehicle comes to a standstill and the clutch opens, the system automatically shifts to neutral.	

Terra a annon mermikan

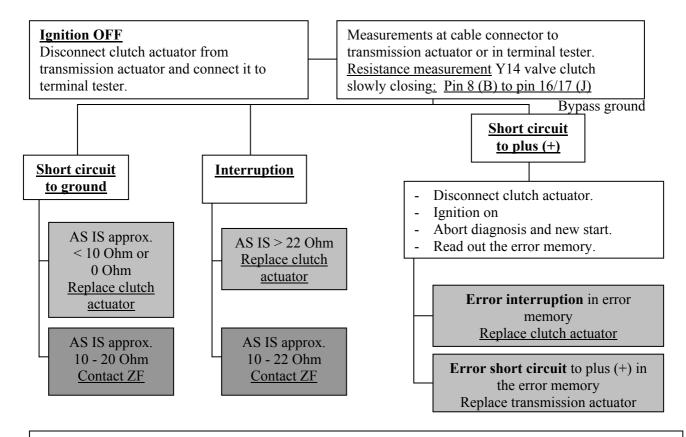
14 24 54



Note



Iveco error number:	15, 35, 55	
Error display:	In vehicle display: MobiDig/ Testman:	15, 35, 55 21, 53, 85
Error description:	Error 53: Interruption Y14 va	und Y14 valve clutch fast closing. alve clutch fast closing. s (+) Y14 valve clutch fast closing.
Error detection:	By ECU hardware, if output is activated.	
System response:	valves are responsible for clo this function is adopted by th when maneuvering and starti system is not available. The a manual mode possible. In case of error 85 gear shift available. If the error occurs	Two valves are responsible for opening and two osing (fast, slow). If one Close/Open valve fails, he other Close/Open valve. Reduced comfort ng. If both closing and opening valve fail, the automatic shift unit is deactivated. Driving in ting is completely inhibited. The system is not during travel, attempts are made to keep the he vehicle comes to a standstill and the clutch ally shifts to neutral.



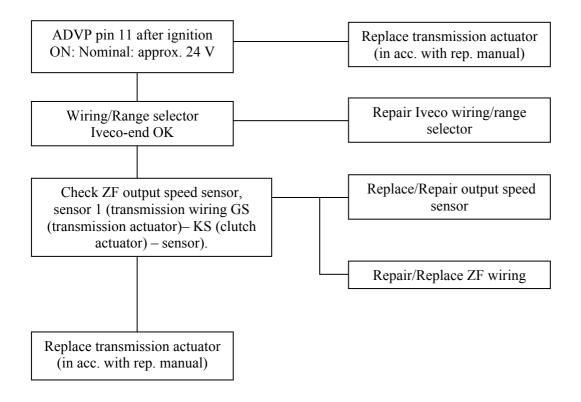
Note



Iveco error number:	16, 36, 56	
Error display:	In vehicle display: MobiDig/ Testman	16, 36, 56 22, 54, 86
Error description:	Error 22: Short circuit to ground at ADVP output. Error 54: Interruption at ADVP output. Error 86: Short circuit to plus (+) at ADVP output.	
Error detection:	By ECU hardware.	
System response:	stops, neutral position is automa System not available. Notice: Regardless of the loc (whether at the n_ab1 sensor actuator) or at a location at th	g, gear shifts are inhibited. the vehicle comes to a standstill. When vehicle attically engaged. Other gear shifts not possible. eation where the short circuit is produced , range selector, on the GS (transmission ne wiring harness), with the current system till result in the vehicle being stranded.

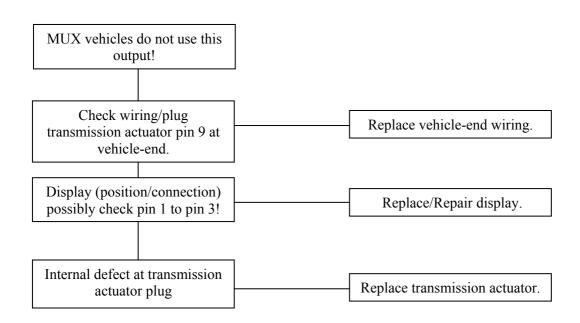
Error 86: System still available.

Error rectification:





Iveco error number:	19	
Error display:	In vehicle display: MobiDig/ Testman	19 25
Error description:	Short circuit to ground at SD output to display.	
Error detection:	Repeated reading of the signal to be transferred.	
System response:	"EE" message flashing on display. No further system responses.	

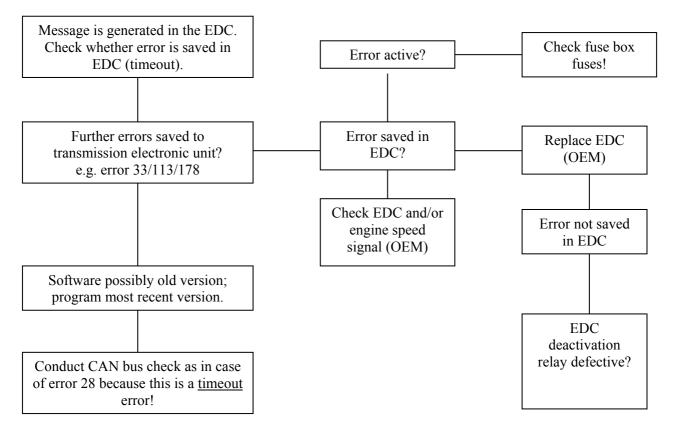




Error display:	In vehicle display:	1A
	MobiDig/ Testman:	26
Error description:	CAN engine configuration tir	neout.
Error detection:	An error is set after the message timeout.	
System response:	The substitute signals saved in the control unit are used since there are no CAN message signals. Reduced function possible during automatic operations and starting gear calculation. Connecting speed for downshifts may be too low. Poor clutch opening possible when stopping.	

Iveco error number:

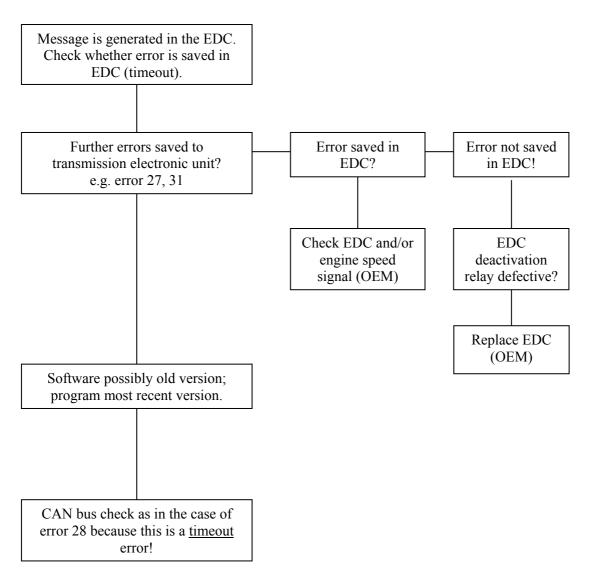
1A





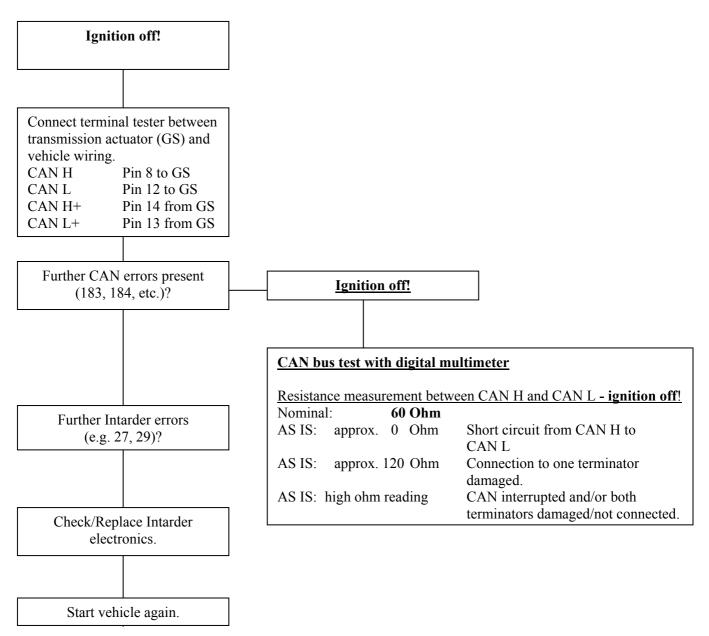
Iveco error number: 1B

Error display:	In vehicle display: MobiDig/ Testman:	1B 27
Error description:	Signal error engine configura	tion message.
Error detection:	No signal or signal defective.	
System response:	The substitute signals saved in the control unit are used since there are no CAN message signals. Reduced function possible during automatic operations and starting gear calculation. Connecting speed for downshifts may be too low. Poor clutch opening possible when stopping.	



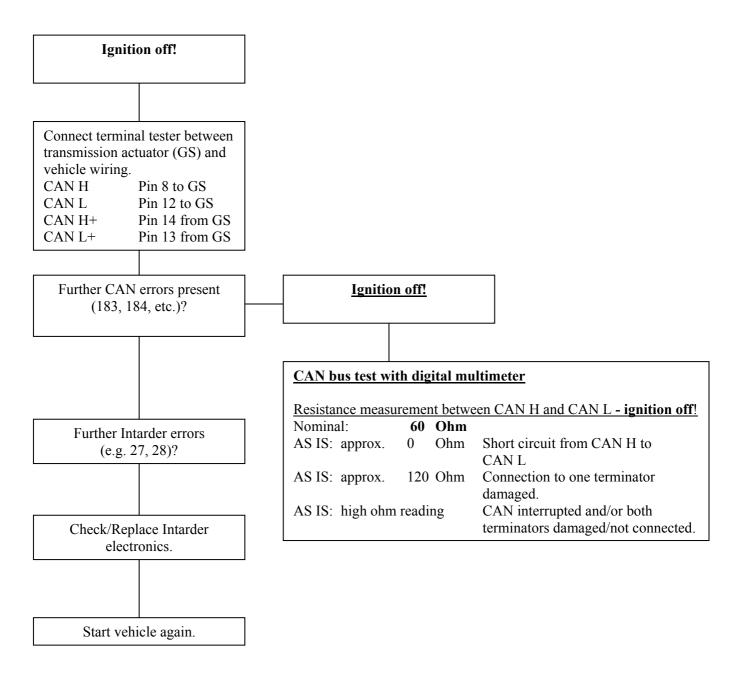
17	\Box
	/

Iveco error number:	1C	
Error display:	In vehicle display:1CMobiDig/ Testman28	
Error description:	Signal error "current driveline retarder torque percentage"	
Error detection:	No signal or signal defective.	
System response:	The automatic unit fails. Therefore, the drive resistance of the starting gear cannot be calculated. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	



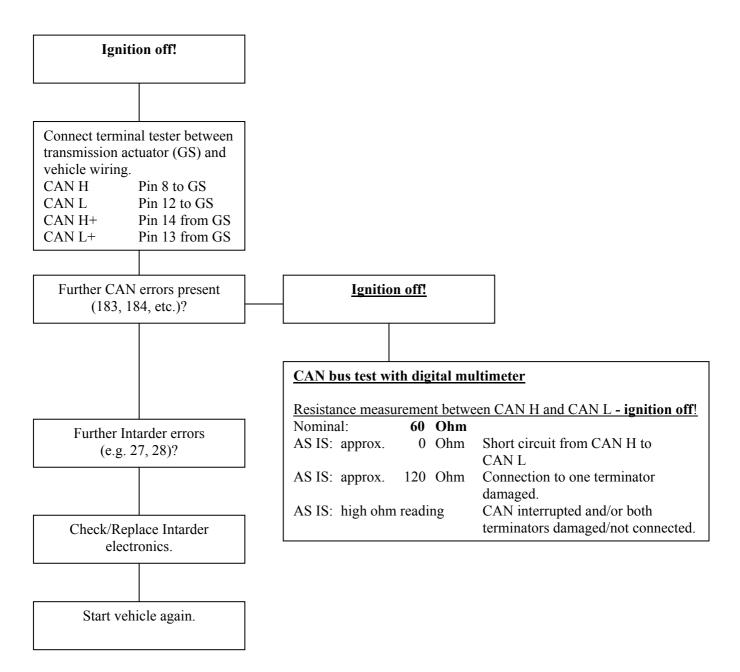


Iveco error number:	1D	
Error display:	In vehicle display: MobiDig/ Testman	1D 29
Error description:	Signal error: "Engine cooling	g performance increase".
Error detection:	No signal or signal defective	
System response:	No downshift requests are iss speed for improving cooling	sued by the Intarder so to increase the engine performance!



17	\Box
	/

Iveco error number:	1E	
Error display:	In vehicle display: MobiDig/ Testman	1E 30
Error description:	Signal error: "Driveline retarder configuration".	
Error detection:	No signal or signal defective	
System response:	The automatic shift unit is de starting gear is selected. No e	eactivated. If vehicle comes to a standstill, mid- other functional restrictions.

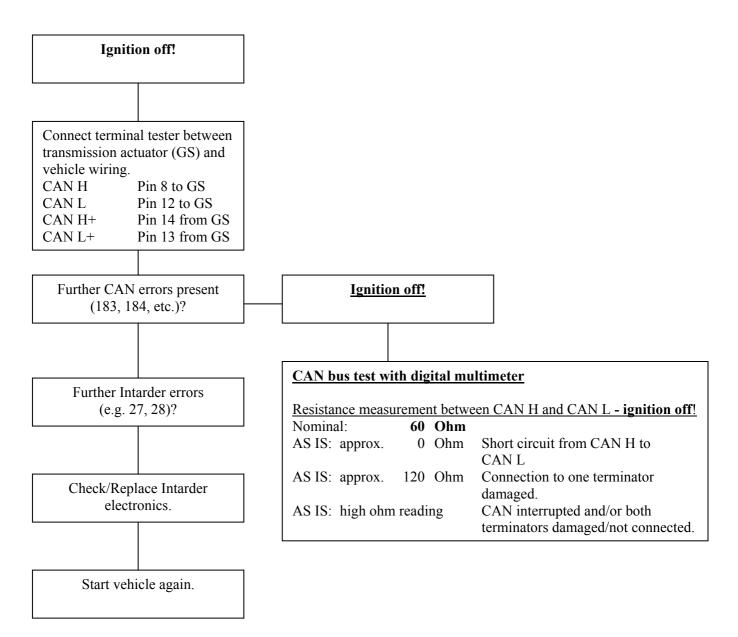


7	E

Error display:	In vehicle display: MobiDig/ Testman	1F 31
Error description:	Signal error: "Present engine	retarder torque percentage".
Error detection:	No signal or signal defective.	
System response:	The automatic shift unit is deactivated. If vehicle comes to a standstill, mid- starting gear is selected. No other functional restrictions. No information about the engine braking torque. If the engine brake is active, the shift quality may be reduced. It is assumed that the engine brake is not active.	

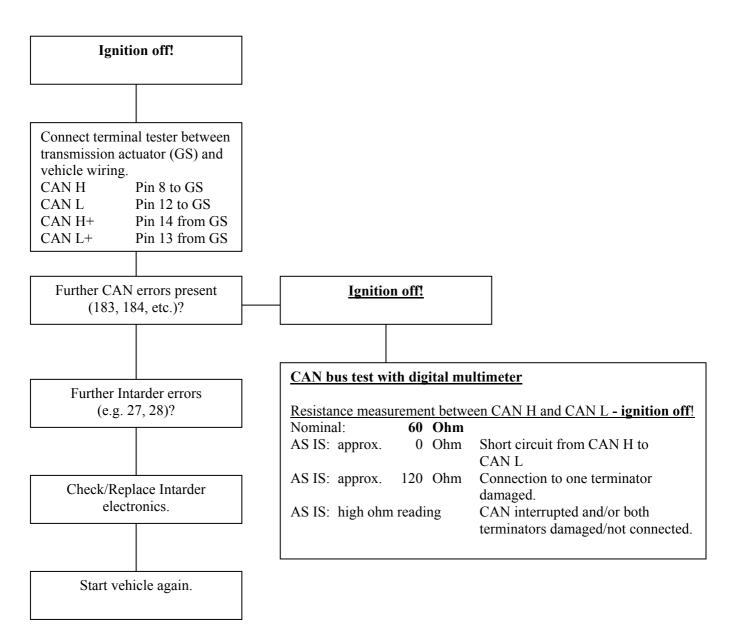
Iveco error number:

1F



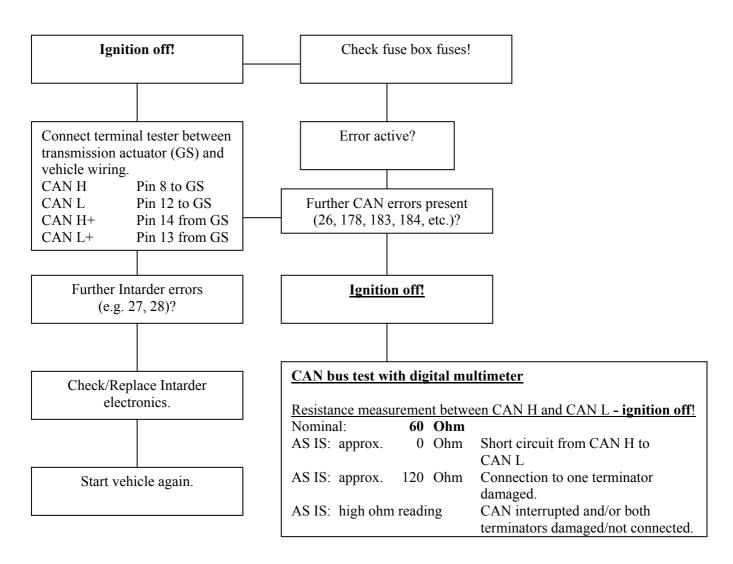


Iveco error number:	20	
Error display:	In vehicle display: MobiDig/ Testman	20 32
Error description:	Signal error: "Engine retarder configuration".	
Error detection:	No signal or signal defective.	
System response:	The automatic shift unit is d starting gear is selected. No	eactivated. If vehicle comes to a standstill, mid- other functional restrictions.



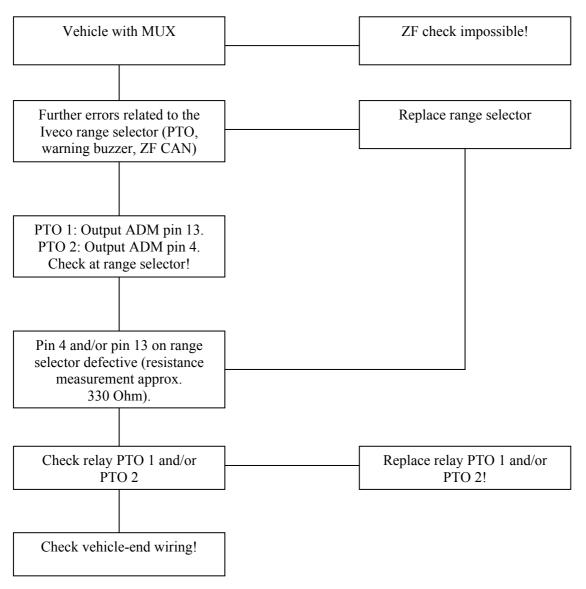


Iveco error number:	21	
Error display:	In vehicle display: MobiDig/ Testman	21 33
Error description:	CAN timeout "Motor Retarder configuration".	
Error detection:	An error is set after the message timeout.	
System response:	The automatic shift unit is de starting gear is selected. No e	eactivated. If vehicle comes to a standstill, mid- other functional restrictions.





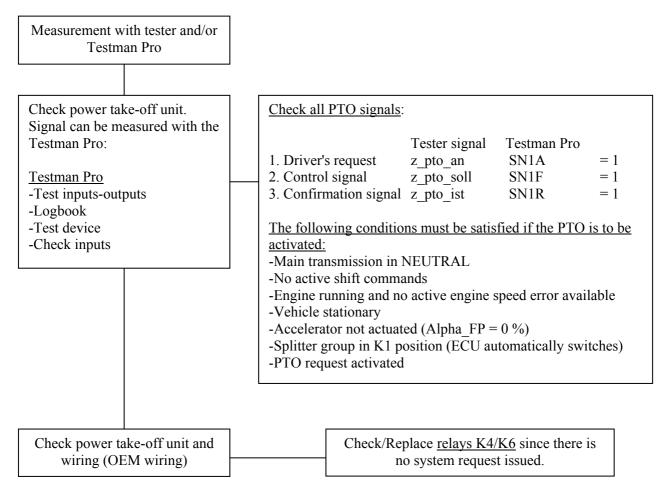
Iveco error number:	2D, 2E	
Error display:	In vehicle display: MobiDig/ Testman:	2D, 2E 45, 46
Error description:	Error 45: Short circuit to ground at output to PTO 1. Error 46: Short circuit to ground at output to PTO 2.	
Error detection:	By ECU hardware, if output is not activated.	
System response:	PTO1 and/or PTO2 not avail No further system restriction	





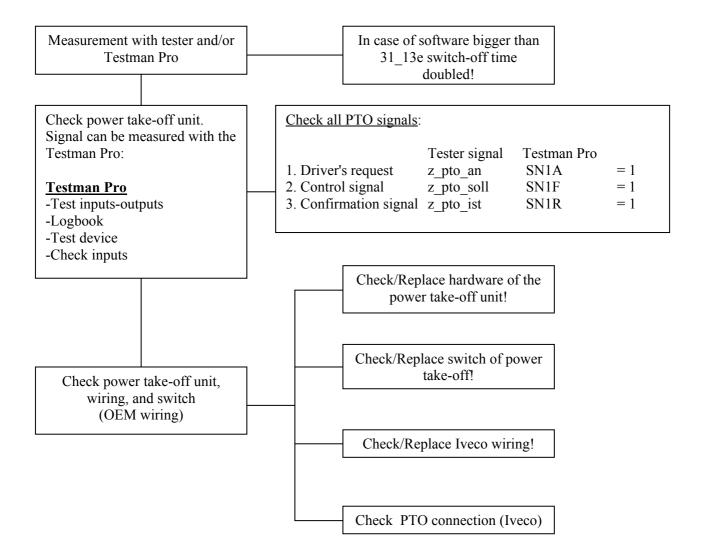
Iveco error number: 3B, 3C

Error display:	In vehicle display: MobiDig/ Testman	3B, 3C 59, 60
Error description:	Error 59: Feedback signa Error 60: Feedback signa	
Error detection:		s active $(z_pto_ist = 1)$ and PTO request TO output $(z_pto_soll = 0)$ are not active.
System response:	If the PTO issues a signal that the PTO is activated although the electronics has not sent a release signal and the PTO has not been activated by the driver, then the response signal (PTO activated) is considered to be incorrect. No further system restrictions!	



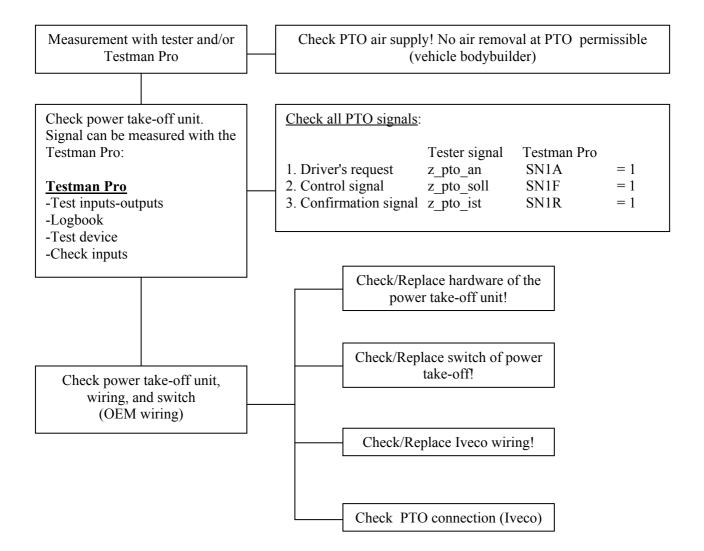


Iveco error number:	3D, 3E	
Error display:	1 5	3D, 3E 61, 62
Error description:	Error 61: Deactivation error Error 62: Deactivation error	
Error detection:	No PTO 1/2 response after dea	activation request.
System response:	6 6,6	inhibited. As soon as the vehicle comes to a l shifting to neutral is automatically effected. System not available.



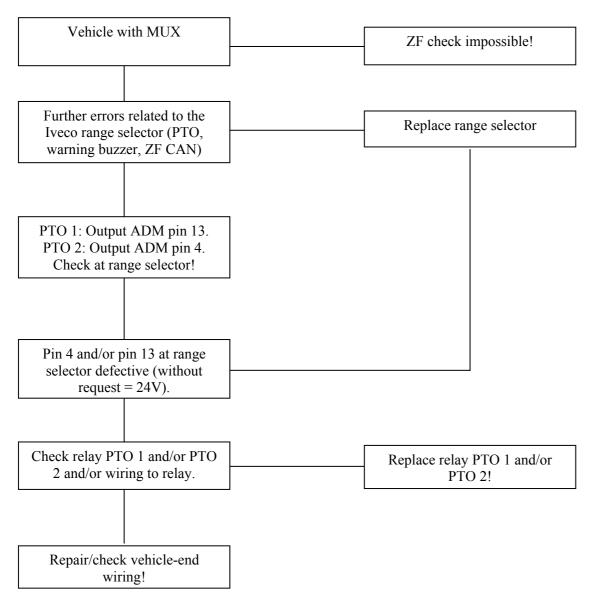


Iveco error number:	3F, 40
Error display:	In vehicle display: 3F, 40 MobiDig/ Testman 63, 64
Error description:	Error 63:Activation error PTO 1Error 64:Activation error PTO 2
Error detection:	No PTO 1/2 response after deactivation request.
System response:	During driving, gear shifts are inhibited. As soon as the vehicle comes to a standstill, the clutch opens and shifting to neutral is automatically effected. Other gear shifts not possible. System not available.



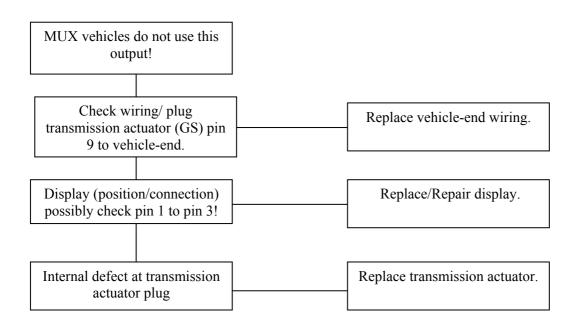


Iveco error number:	4D, 4E	
Error display:	In vehicle display: MobiDig/ Testman:	4D, 4E 77, 78
Error description:	Error 77: Short circuit to plus (+) at output to PTO 1. Error 78: Short circuit to plus (+) at output to PTO 2.	
Error detection:	By ECU hardware, if output is not activated.	
System response:	During travel, gear shifts are blocked. If the vehicle is at a standstill, the clutch opens and a shift is automatically made to neutral. System not available!	



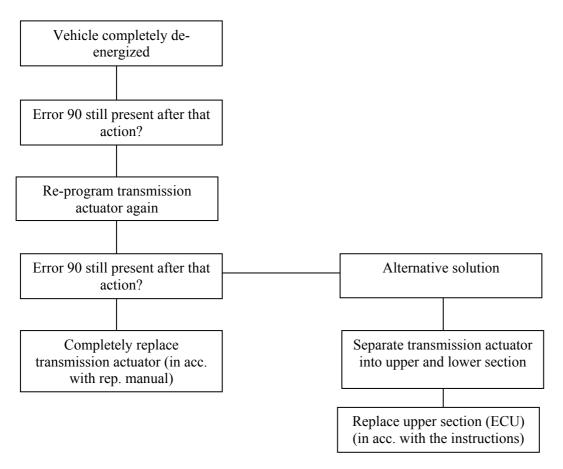


Iveco error number:	59	
Error display:	In vehicle display: MobiDig/ Testman	59 89
Error description:	Short circuit to plus (+) at SD (digital signal) output to display.	
Error detection:	Repeated reading of the signal to be transferred.	
System response:	"EE" message flashing on display. No further system responses.	



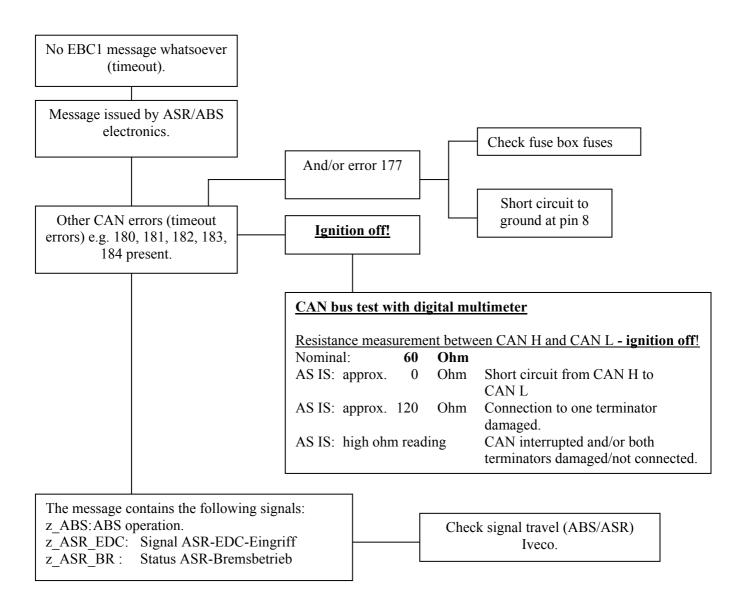


Iveco error number:	5A	
Error display:	In vehicle display:59MobiDig/ Testman90	
Error description:	Communication error between processor 1 and processor 2 (ECU error).	
Error detection:	If there is no data sent by the other processor, check sum error of data between processors 1 and 2, and incomplete transfer of initialization data.	
System response:	During travel, gear shifts are blocked. As soon as the vehicle comes to a standstill, the clutch opens and shifting to neutral is automatically effected. Other gear shifts not possible. System not available.	



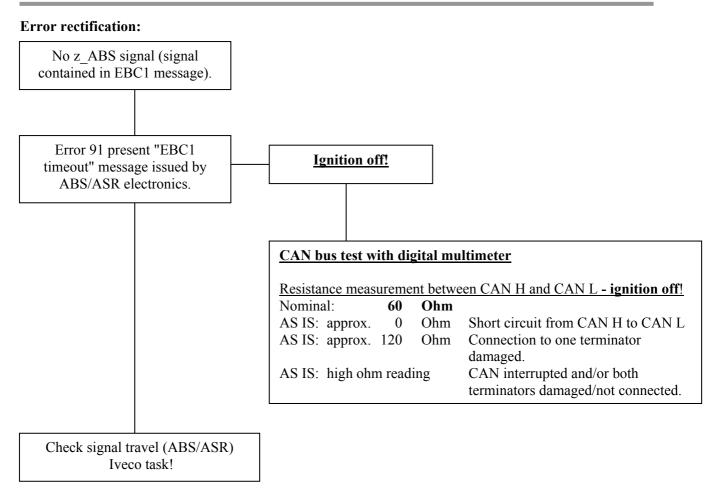


Iveco error number:	5B	
Error display:	In vehicle display: MobiDig/ Testman	5B 91
Error description:	CAN EBC1 Timeout	
Error detection:	An error is set after the message timeout.	
System response:	The automatic unit fails; therefore the drive resistance and the starting gear cannot be calculated. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	



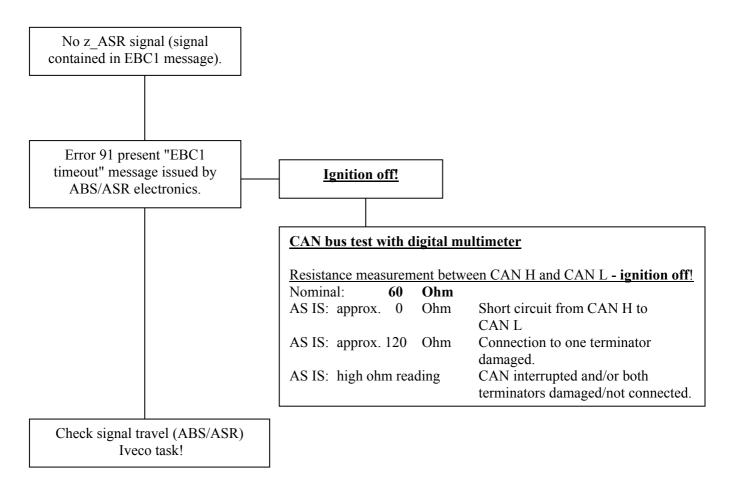
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Iveco error number:	5C	
Error display:	In vehicle display: MobiDig/ Testman	5C 92
Error description:	Signal error: "ABS active"	
Error detection:	No signal or signal incorrect.	
System response:	The automatic unit fails; therefore the drive resistance and the starting gear cannot be calculated. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	



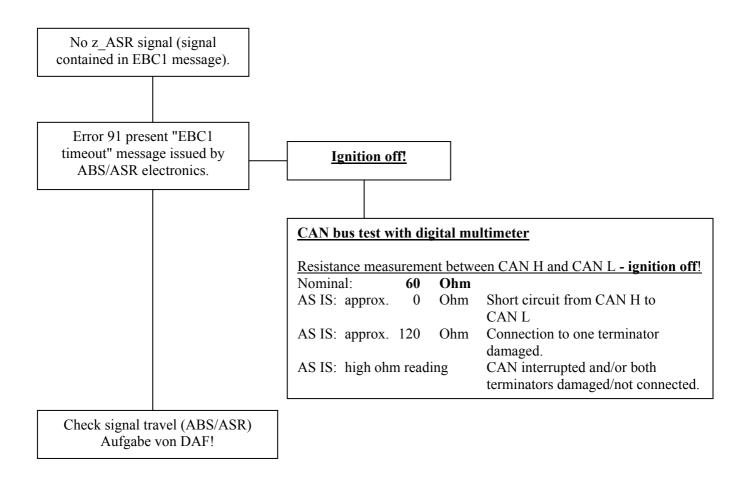


Iveco error number:	5D	
Error display:	In vehicle display: MobiDig/ Testman	5D 93
Error description:	Signal error: "ASR engine control unit active".	
Error detection:	No signal or signal incorrect.	
System response:	The automatic unit fails; therefore the drive resistance and the starting gear cannot be calculated. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	



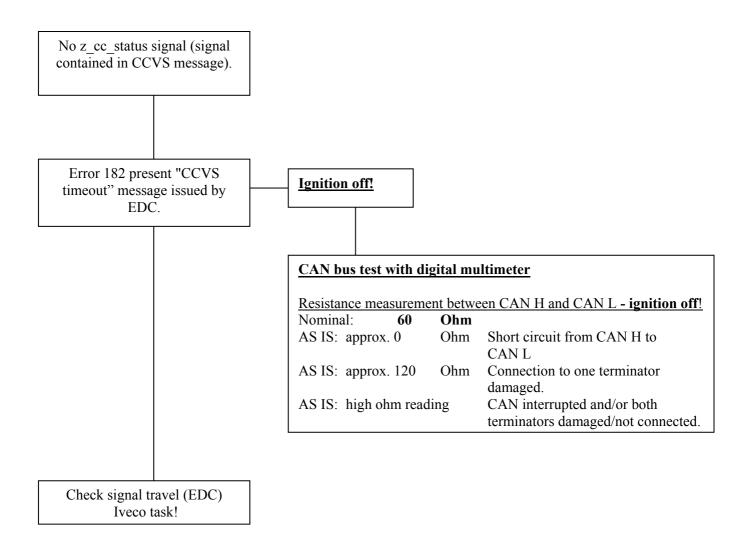


Iveco error number:	5E	
Error display:	In vehicle display: MobiDig/ Testman	5E 94
Error description:	Signal error: "ASR engine control unit active".	
Error detection:	No signal or signal incorrect.	
System response:	The automatic unit fails; therefore the drive resistance and the starting gear cannot be calculated. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	



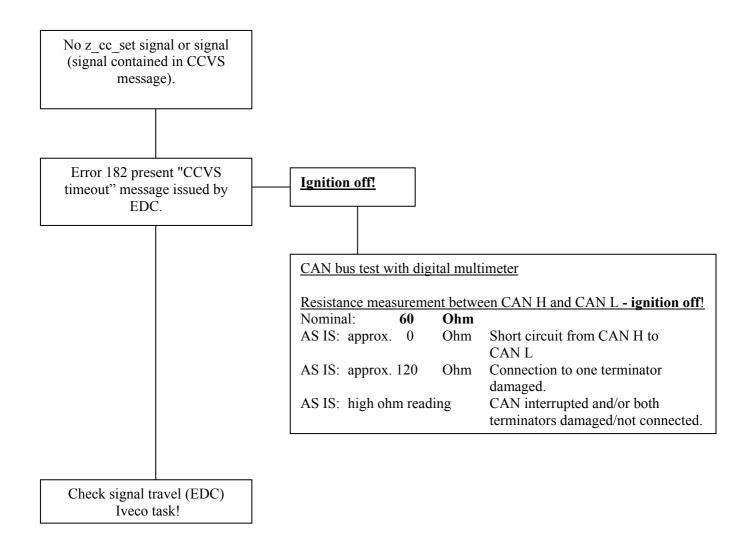


Iveco error number:	5F	
Error display:	In vehicle display: MobiDig/ Testman	5F 95
Error description:	Signal error: "Cruise control a	active".
Error detection:	No signal or signal incorrect.	
System response:	The automatic shift unit is deactivated. No other functional restrictions.	



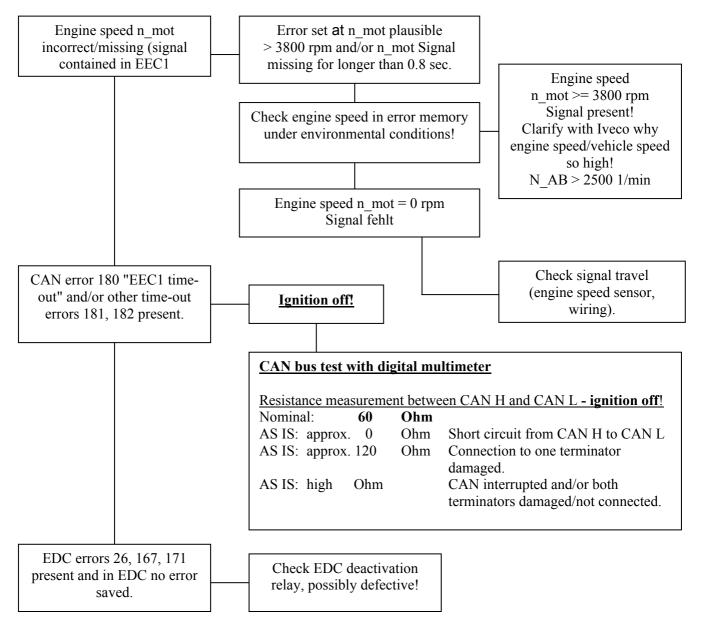


Iveco error number:	60	
Error display:	In vehicle display: MobiDig/ Testman	60 96
Error description:	Signal error: "Set cruise control speed".	
Error detection:	active and no signal or signal defective.	
System response:	No further functional restrictions. Gear-hunting possible in cruise control mode.	



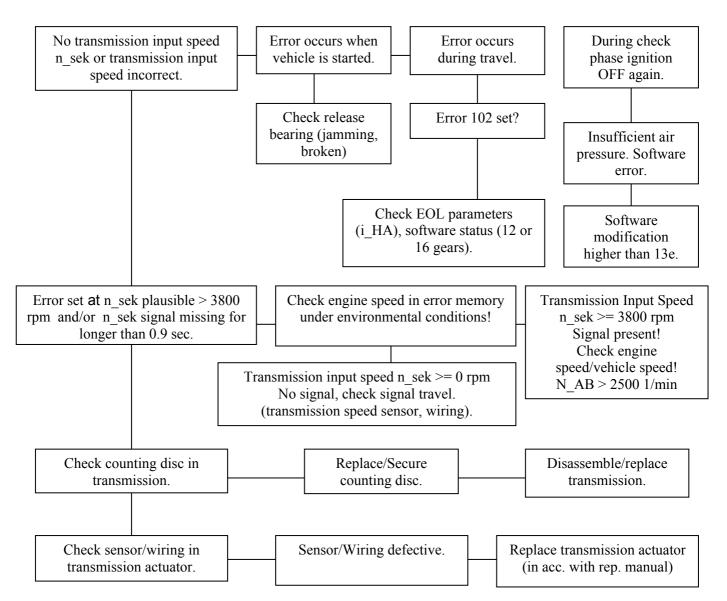


Iveco error number: 61 **Error display:** In vehicle display: 61 MobiDig/ Testman 97 **Error description:** Signal error: "Engine speed". **Error detection:** No signal / signal defective or engine speed > plausible value While vehicle is in motion clutch is time-controlled during gearshifts. **System response:** Reduced closing comfort after the shift. During upshifts, the engine speed cannot be controlled. Maneuvering mode not available. When moving off, clutch is time-controlled. Reduced closing comfort when maneuvering and setting off.



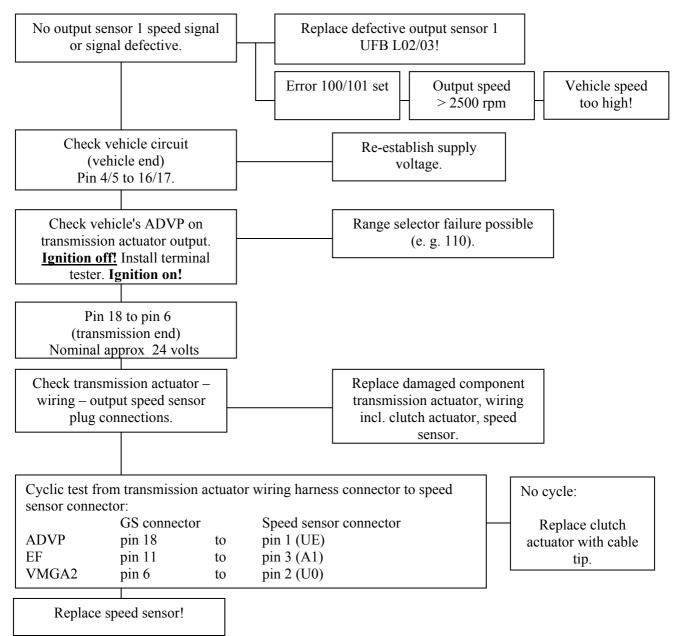


Iveco error number:	62	
Error display:	In vehicle display: 62 MobiDig/ Testman 98	
Error description:	Signal error: "Transmission input speed".	
Error detection:	Plausibility check.	
System response:	Plausibility check. During travel, shift times are longer. When upshifting and downshifting, the clutch is sometimes closed when the transmission is in neutral, to substitute the input speed of the engine. If a gear is selected, input speed is substituted by output speed. If the vehicle is at a standstill, longer N-gear engagement time. Reduced closing comfort when manoeuvring and setting off. Notice: Possible as follow-up error of error 97!	



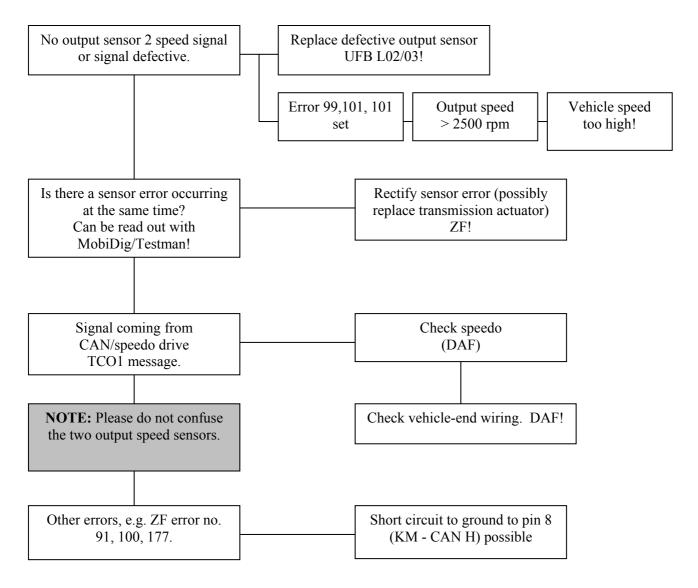


Iveco error number:	63	
Error display:	In vehicle display:63MobiDig/ Testman:99	
Error description:	Signal error: "Output speed signal 1".	
Error detection:	Verification check	
System response:	Depending on the system version, the output speed signal is calculated from the redundant output speed information. Redundant speed information is adopted, depending on vehicle speed signal by CAN or by speedometer CAN output speed signal.	



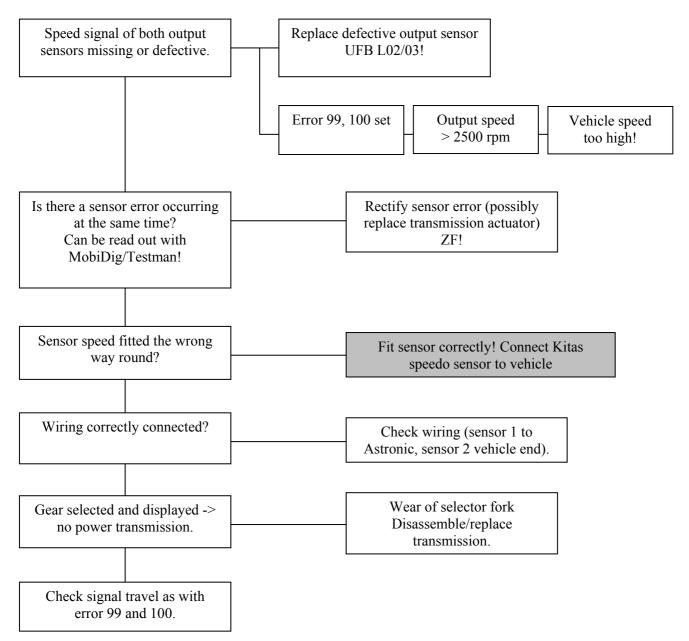


Iveco error number:	64	
Error display:	In vehicle display: MobiDig/ Testman	64 100
Error description:	Signal error: "Output speed signal 2".	
Error detection:	No signal or signal defective.	
System response:	If output speed 1 (transmission end) is available, no system functional restrictions.	



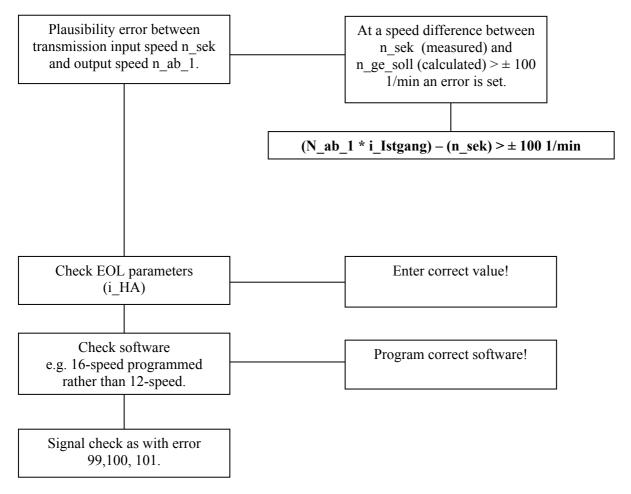


Iveco error number:	65	
Error display:	In vehicle display: MobiDig/ Testman	65 101
Error description:	Both "output speed signals" defective.	
Error detection:	Verification check	
System response:	During travel, gear shifts are inhibited. If the vehicle comes to a standstill, the clutch opens and shifting to neutral is automatically effected. Other gear shifts not possible. System not available.	



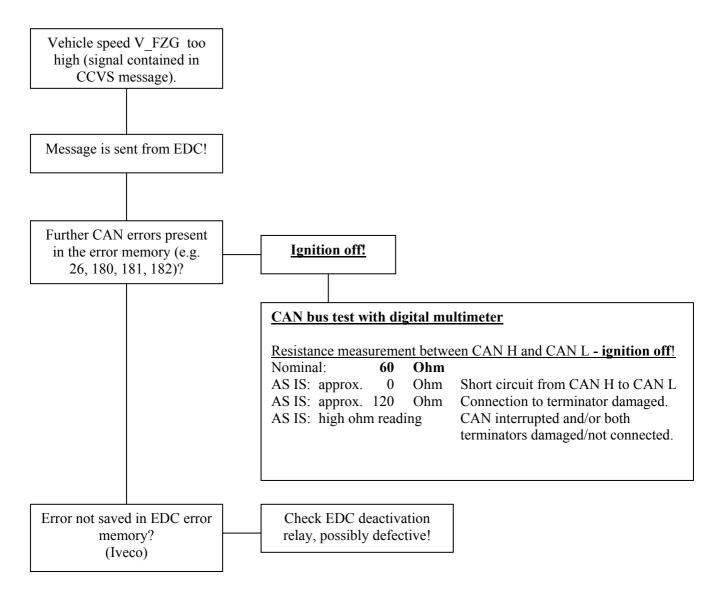


Iveco error number:	66	
Error display:	In vehicle display:66MOBIDIG/Testman102	
Error description:	Plausibility error between "transmission input speed" and "output speed 1".	
Error detection:	Relationship between input speed and output speed does not correspond to the ratio of the selected gear.	
System response:	During travel, gear shifts are inhibited, including attempts to shift to neutral. Starting gears can be selected and setting off with the starting gear is possible.	



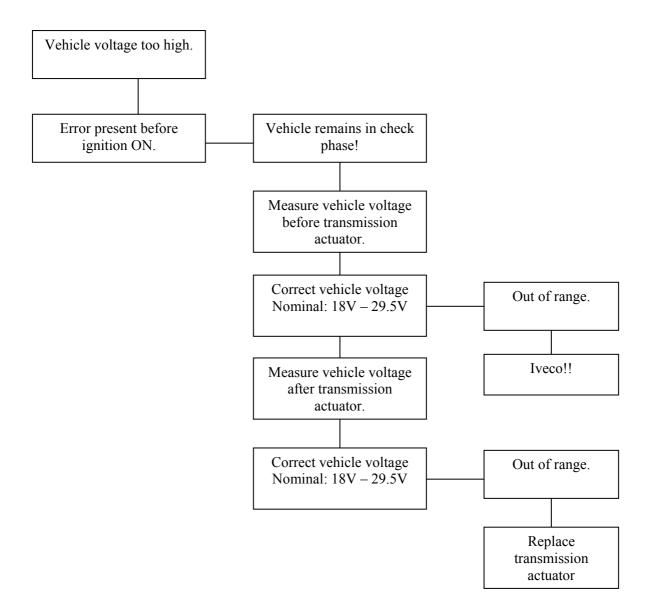


Iveco error number:	67	_
Error display:	In vehicle display: MobiDig/ Testman	67 103
Error description:	CAN signal error "vehicle speed" (CCVS Wheel-based vehicle speed)	
Error detection:	If vehicle speed exceeds the defined threshold value.	
System response:	Early or late downshifts may arise in automatic mode. No further restrictions.	



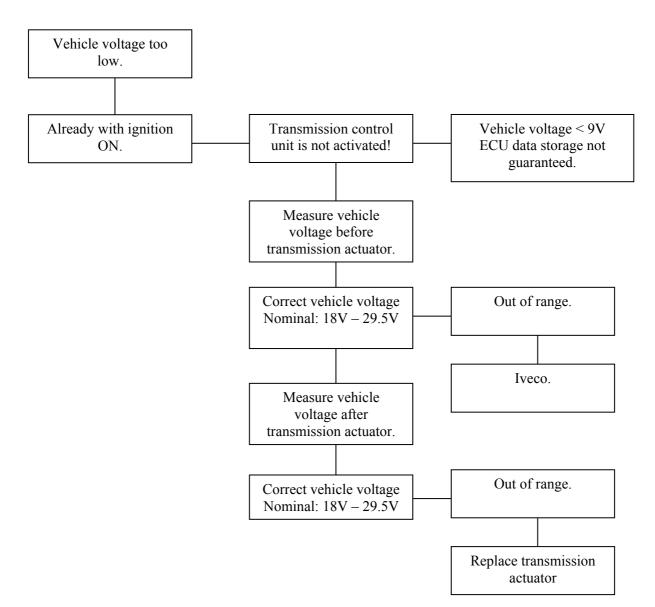


Iveco error number:	68	
Error display:	In vehicle display: MobiDig/ Testman	68 104
Error description:	Overvoltage of vehicle main power system	
Error detection:	Voltage higher "U_Bordnetz_max"	
System response:	No system restrictions during driving. If error present before ignition ON, the transmission remains in the check phase, system not available.	



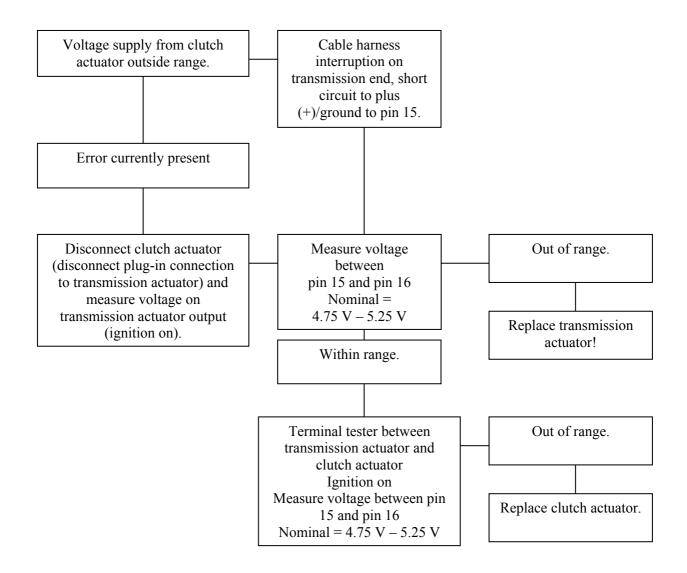


Iveco error number:	69	
Error display:	In vehicle display: MobiDig/ Testman	69 105
Error description:	Undervoltage of vehicle main power system	
Error detection:	Voltage lower "U_bordnetz_min_grenzw"	
System response:	During travel and if the vehicle is at a standstill, gear shifts are inhibited. If a gear is engaged and the driver switches off the ignition, the control unit tries to shift to neutral. The automatic unit is deactivated after a certain period of time. If a PTO is activated and the corresponding relay cannot be connected, the PTO is deactivated. Follow-up errors, due to undervoltage are not displayed.	





Iveco error number:	6B	
Error display:	In vehicle display:6BMobiDig/ Testman107	
Error description:	Faulty voltage supply of the clutch travel sensor (AU output).	
Error detection:	Voltage outside range.	
System response:	The automatic shift unit is deactivated. During travel, the clutch is opened and closed in a time-controlled manner. Maneuvering not possible. If the vehicle does not set off within a certain amount of time, the transmission automatically shifts to neutral. The new starting gear must be selected using the range selector. Vehicle setting off is difficult and jerky!	

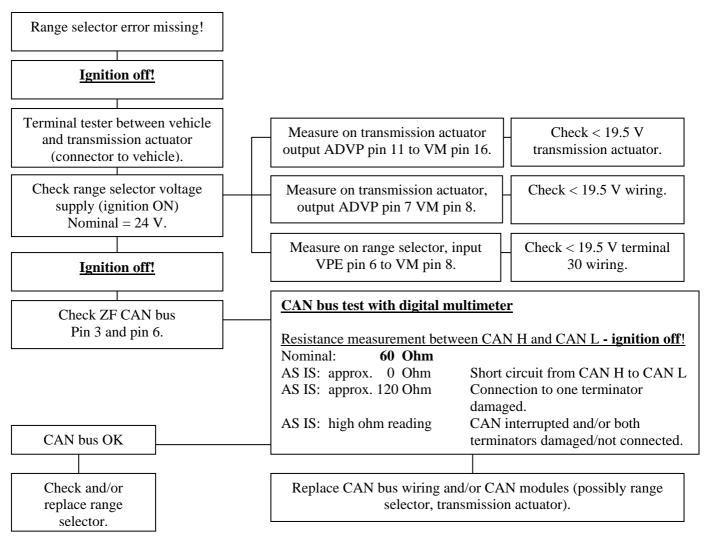


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Error display:	In vehicle display: MobiDig/ Testman	6C 108
Error description:	Range selector error	
Error detection:	Through switch plausibility c	heck in range selector.
System response:	 <u>Control lever</u>: No shifting possible during travel. At standstill the "last starting gear" is selected in the manual mode (half-automatic mode), the automatic starting gear in automatic mode. If neutral is activated or existing at standstill, the starting gear is not engaged. <u>Neutral switch</u>: No shifting possible during travel. At standstill a starting gear can be selected and the vehicle can be driven with a starting gear selected. <u>R gear selector signals</u>: If there is a fault (no signal) in one of the two Reverse gear switches at a standstill and if the tip-action speed range selector is pulled backwards (-/), the low-ratio Reverse gear (RL) is engaged. 	

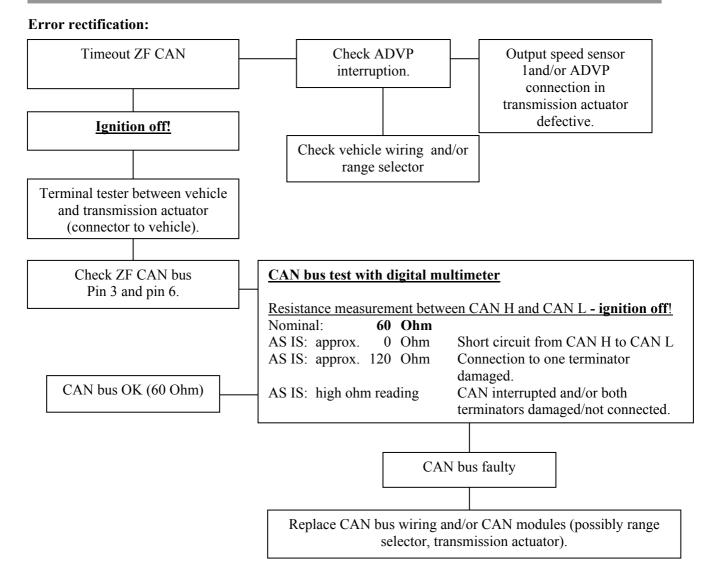
Iveco error number:

6C



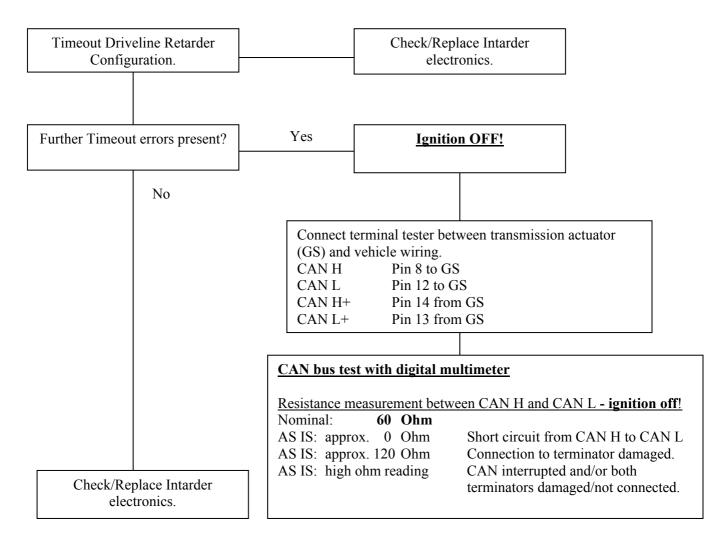
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Iveco error number:	6E	
Error display:	In vehicle display: MobiDig/ Testman	6E 110
Error description:	ZF CAN Timeout	
Error detection:	ZF-CAN information can neither be sent nor received.	
System response:	If the error is detected with ignition ON, the system is not available. While driving, gear shifting is not possible. If vehicle comes to a standstill, the last starting gear selected (with the rotary switch) is engaged. Further driving possible only with starting gear. If reverse gear is selected, the transmission automatically shifts to neutral. No range selector message. System not available!	



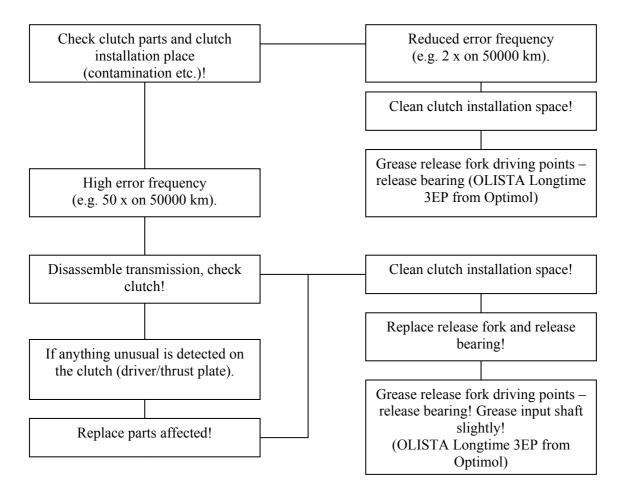


Iveco error number:	71	
Error display:	In vehicle display: MobiDig/ Testman	71 113
Error description:	CAN "Driveline Retarder configuration" timeout.	
Error detection:	An error is set after the message timeout.	
System response:	The automatic unit is no longer available. Manual shifting still possible. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	



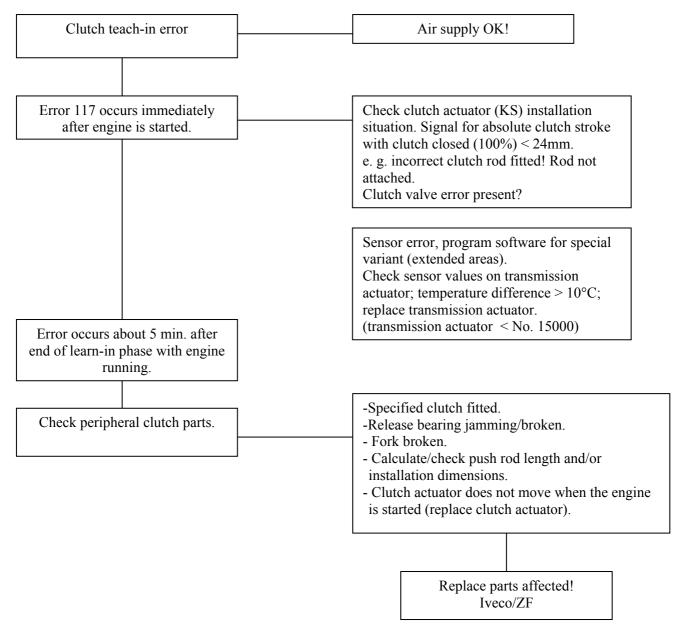


Iveco error number:	72	
Error display:	In vehicle display:72MobiDig/ Testman114	
Error description:	Clutch closes accidentally when vehicle is stationary with gear engaged.	
Error detection:	At standstill and gear engaged, clutch closing!	
System response:	When vehicle stops, shifting is effected to neutral. No further system restrictions.	



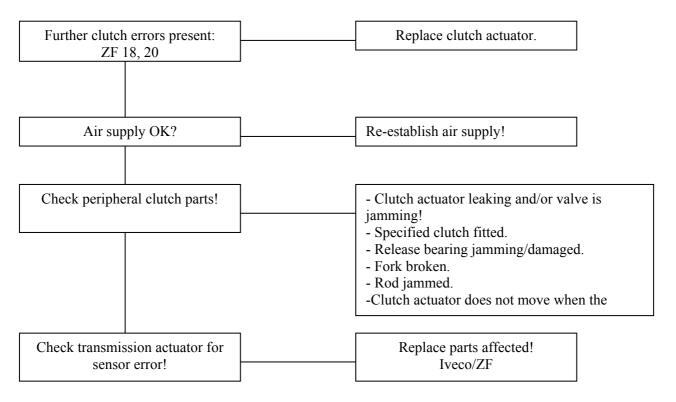


Iveco error number:	75	
Error display:	In vehicle display: MobiDig/ Testman:	75 117
Error description:	Error in clutch teach-in process.	
Error detection:	Clutch does not move even though the clutch valves have been activated. Condition: No clutch travel sensor error (ZF 124), no engine speed error (ZF 97), no input speed error (ZF 98).	
System response:	System not available.	



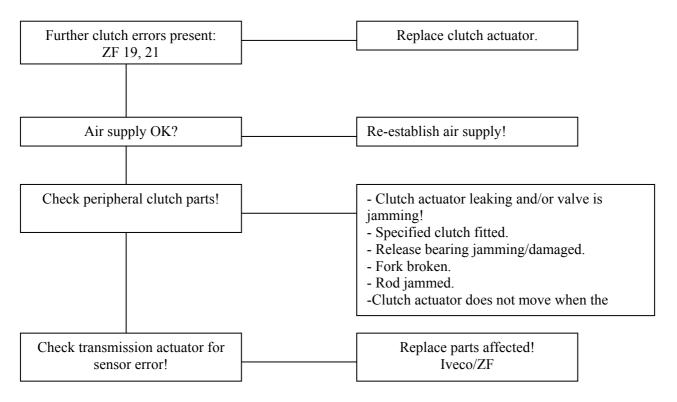
17	\Box

Iveco error number:	76	
Error display:	In vehicle display:76MobiDig/ Testman:118	
Error description:	Clutch not opening.	
Error detection:	No clutch travel modification although opening valves were activated. Condition: No clutch travel sensor error (ZF 124), no engine speed error (ZF 97), no input speed error (ZF 98).	
System response:	During driving, gear shifts are inhibited. If the vehicle comes to a standstill, attempts are made to open the clutch. When vehicle stops, neutral position is automatically engaged. Other gear shifts not possible. System not available.	



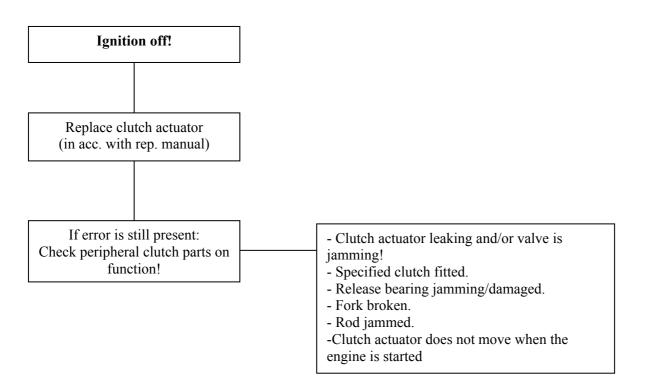


Iveco error number:	77	
Error display:	In vehicle display:77MobiDig/ Testman:119	
Error description:	Clutch not closing/not transferring engine torque.	
Error detection:	Clutch sensor does not detect closing. Engine speed is unlike input speed. Condition: No clutch travel sensor error (ZF 124), no engine speed error (ZF 97), no input speed error (ZF 98).	
System response:	During driving, gear shifts are inhibited. If the vehicle comes to a standstill, attempts are made to open the clutch. When vehicle stops, neutral position is automatically engaged. Other gear shifts not possible. System not available.	





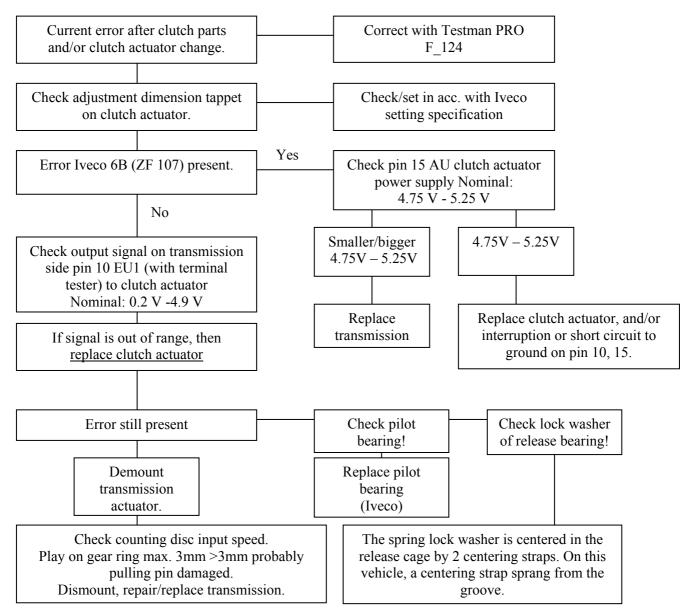
Iveco error number:	78, 79, 7A, 7B	
Error display:	In vehicle display: MobiDig/ Testman	78, 79, 7A, 7B 120, 121, 122, 123
Error description:	Mechanical error on clutch Y17 valve, clutch slowly op Y15 valve, clutch slowly cl Y16 valve, clutch quickly o Y14 valve, clutch quickly c	bening (error 120), osing (error 122), ppening (error 121),
Error detection:	Clutch does not open/close although valves have been activated.	
System response:	The automatic unit is not available. Manual shifting possible. If one valve fails, this function is adopted by the other Close/Open valve. Reduced comfort when maneuvering and starting. If both closing and opening valves fail, the system is not available.	





Iveco error number: 7C

Error display:	In vehicle display: MobiDig/ Testman	7C 124
Error description:	Signal error clutch travel.	
Error detection:	Clutch travel sensor signal (plausibility check).	outside the range
System response:	While vehicle is in motion, clutch is opened and closed in a time-controlled manner. Maneuvering impossible. If the vehicle does not set off after a gear has engaged, the transmission is automatically shifted to neutral. The new starting gear must be selected using the range selector. Reduced closing comfort while starting.	



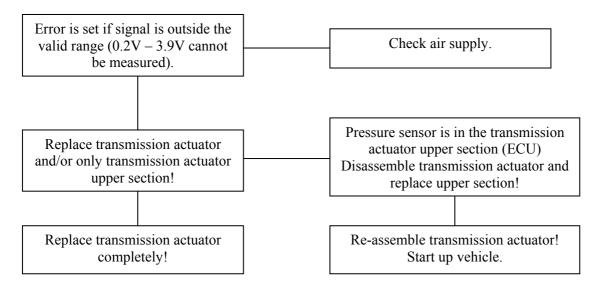
7	F

Error display: 7E In vehicle display: MobiDig/ Testman 126 **Error description:** Signal error pressure sensor Voltage on analogue input outside range! **Error detection:** System response: The system function is not restricted if the external air supply is sufficient. In the case that there is too less atmospheric pressure, "AL" compressed air indicator is not shown on the display. The teach-in process after ignition ON of transmission and clutch is conducted in a time-dependent manner. The teach-in time could last some more time. The automatic unit is not available!

Error rectification:

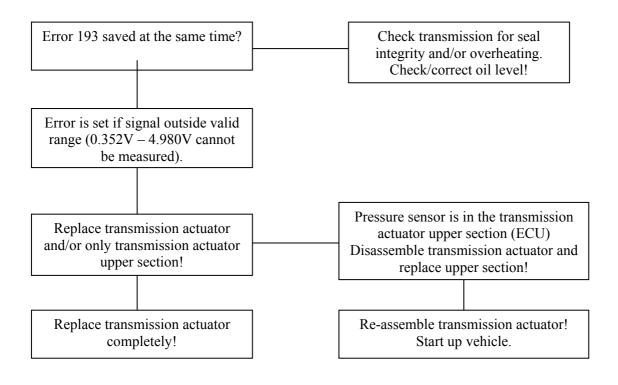
Iveco error number:

7E



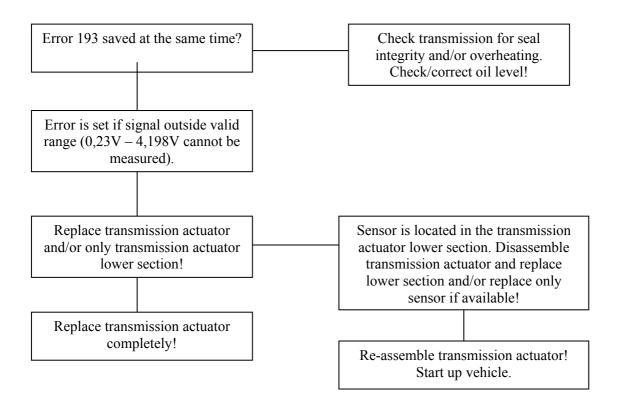


Iveco error number:	7F	
Error display:	In vehicle display: MobiDig/ Testman	7F 127
Error description:	Signal error ECU temperature.	
Error detection:	Voltage level outside range.	
System response:	The automatic unit is not available. Manual shifting possible. No further system impairments.	



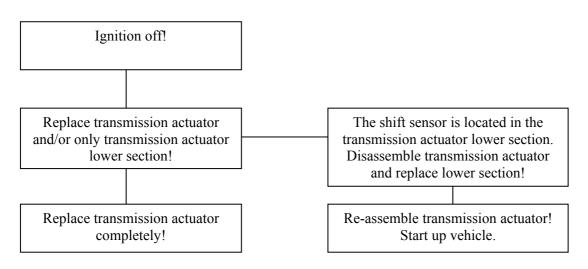


Iveco error number:	80	
Error display:	In vehicle display: MobiDig/ Testman	80 128
Error description:	Signal error oil temperature sensor.	
Error detection:	Voltage level outside range. (ADC_Öl_Temp_Ausfall between 0.23V and 4.198V).	
System response:	No further system impairments.	





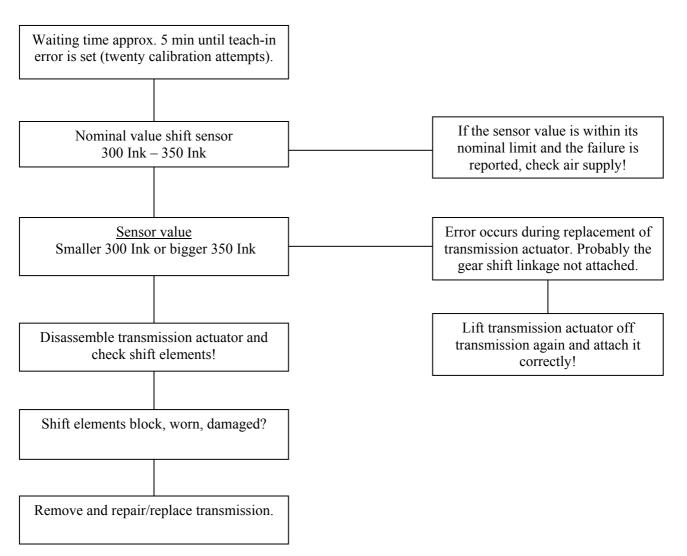
Iveco error number:	81, 82, 83	
Error display:	In vehicle display: MobiDig/ Testman	81, 82, 83 129, 130, 131
Error description:	No shift sensor signal present. Error 129 Short circuit to plus (+). Error 130 Short circuit to ground/earth. Error 131 Interruption.	
Error detection:	By ECU hardware.	
System response:	If the error occurs during travel when shifting, gear shifts are inhibited. Shifts can only be made out of neutral. If the vehicle is at a standstill, starting gears can be selected.	





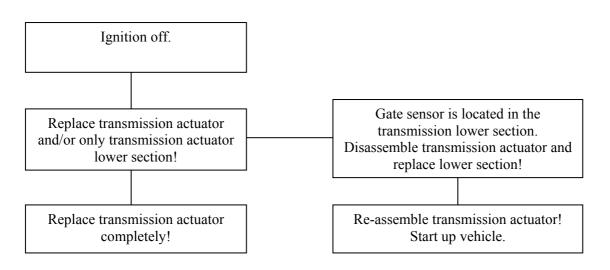
Iveco error number: 84

Error display:	In vehicle display: MobiDig/ Testman	84 132
Error description:	Shift sensor teach-in error.	
Error detection:	Sensor value outside teach-in range and teach-in process failed with sufficient air pressure and after three attempts. Sensor value outside of the teach-in range and teach-in process failed with insufficient air pressure after a certain waiting time and after a max. number of attempts.	
System response:	With ignition ON, attempts a	1





Iveco error number:	85, 86, 87	
Error display:	In vehicle display: MobiDig/ Testman	85, 86, 87 133, 134, 135
Error description:	No gate selection sensor signal presentError 133Short circuit to plus (+).Error 134Short circuit to ground/earth.Error 135Interruption.	
Error detection:	By ECU hardware.	
System response:	During travel only forwards gears which are opposite to the shift direction for the reverse gear can be selected. If an error occurs during the shift, the target gate is engaged in a time-controlled manner. When the vehicle is at a standstill all permitted starting gears which shift direction is opposite to the reverse gear can be selected. Reverse gear cannot be selected.	

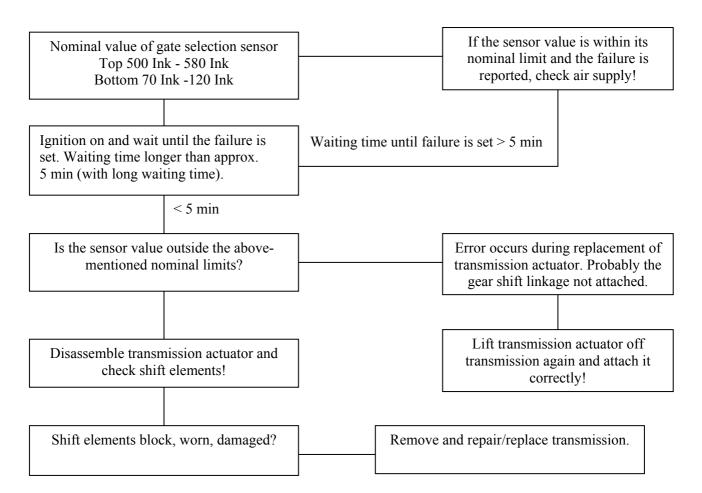


Iveco error number:

88

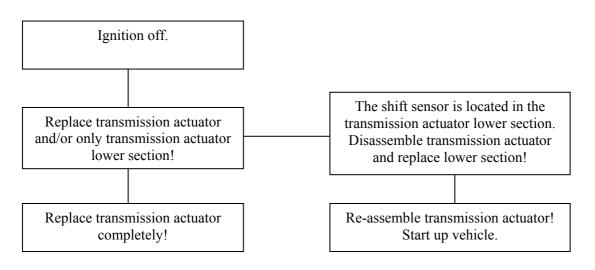


Error display:	In vehicle display: MobiDig/ Testman	88 136
Error description:	Gate selection sensor teach-in	n error.
Error detection:	Sensor value outside teach-in range and teach-in process failed with sufficient air pressure and after three attempts. Sensor value outside of the teach-in range and teach-in process failed with insufficient air pressure after a certain waiting time and after a max. number of attempts.	
System response:	In the case of an electrical error on the selection valve only the possible gate is taught in. Upper forward gears: 10/12 gear => gate 2/3, 16 gear => gate 3/4 Lower forward gears: 10/12 gear => gate R/1, 16 gear => gate 1/2 ECU tries to teach-in the gate of the upper forward gears of the main transmission. In the case of no success, attempts are made to teach-in the gate of the lower forward gears. In the case that both cannot be taught in, a teach-in error of the gate is set. If there is insufficient air and/or a pressure sensor signal error (ZF error 126), this teach-in attempt is repeated now and again.	





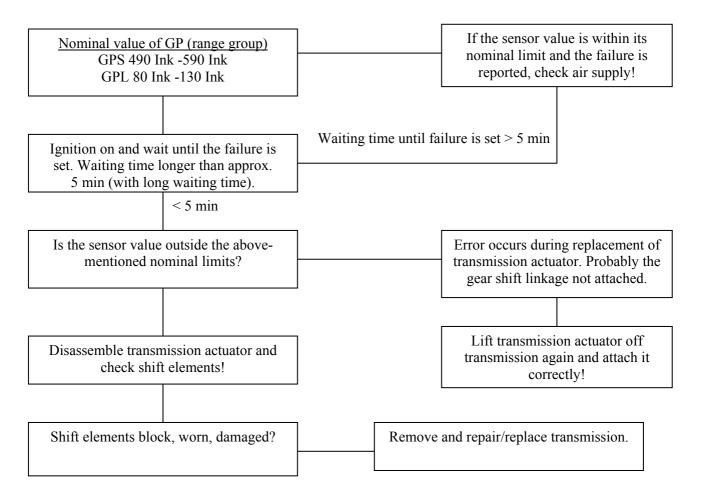
Iveco error number:	89, 8A, 8B	
Error display:	In vehicle display: MobiDig/ Testman	89, 8A, 8B 137, 138, 139
Error description:	No GP (planetary range) sensor signal present.Error 137Short circuit to plus (+).Error 138Short circuit to ground/earth.Error 139Interruption.	
Error detection:	By ECU hardware.	
System response:	If the error occurs during travel when shifting, GP shifts are inhibited. Only shifts in the corresponding GP range can be replaced. If the vehicle is at a standstill, starting gears can be selected.	





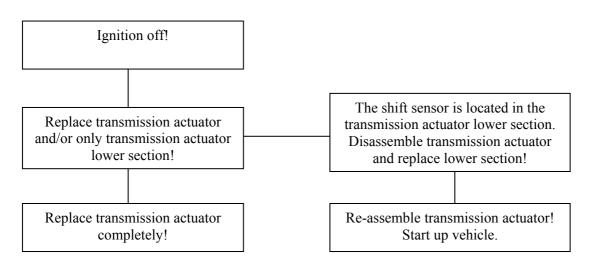
Iveco error number: 8C

Error display:	In vehicle display: MobiDig/ Testman	8C 140	
Error description:	GP sensor teach-in error.		
Error detection:	Sensor value outside teach-in range.		
System response:	With ignition OFF the GP remains in the last setting selected. When the ignition is switched ON, attempts are made to teach-in GP-high. If this cannot be done after several attempts, attempts are made to teach-in GP- low. If neither GP-high nor low can be taught in, a teach-in error is set. The system is not available! If there is insufficient air and/or a pressure sensor signal error (ZF error 126), this teach-in attempt is repeated now and again.		





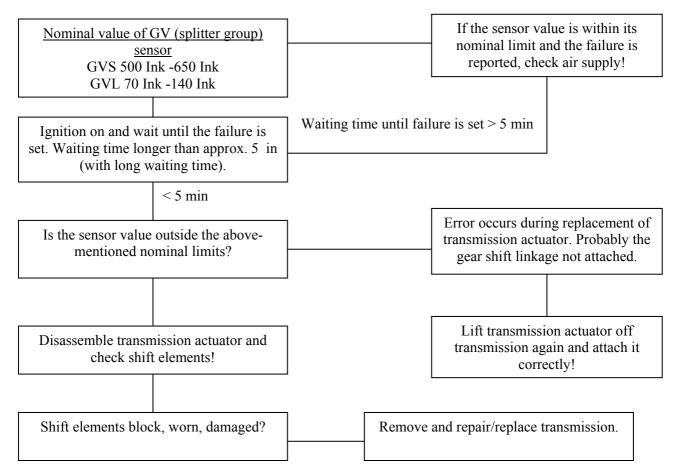
Iveco error number:	8D, 8E, 8F	
Error display:	In vehicle display: MobiDig/ Testman	8D, 8E, 8F 141, 142, 143
Error description:	No GP (planetary range) sensor signal present.Error 141Short circuit to plus (+).Error 142Short circuit to ground/earth.Error 143Interruption.	
Error detection:	By ECU hardware.	
System response:	If the error occurs during travel when shifting, GV shifts are inhibited. Further driving only possible with the last selected GV (splitter group) position. The automatic shift unit is deactivated.	





Iveco error number: 90

Error display:	In vehicle display: MobiDig/ Testman	90 144
Error description:	GV sensor teach-in error.	
Error detection:	Sensor value outside teach-in range.	
System response:	With ignition OFF the GV remains in the last setting selected. When the ignition is switched ON, attempts are made to teach-in GVS. If this cannot be done after several attempts, attempts are made to teach-in GVL. If neither GV-S nor L can be taught in, a teach-in error is set. The system is not available! If there is insufficient air and/or a pressure sensor signal error (ZF error 126), this teach-in attempt is repeated now and again.	

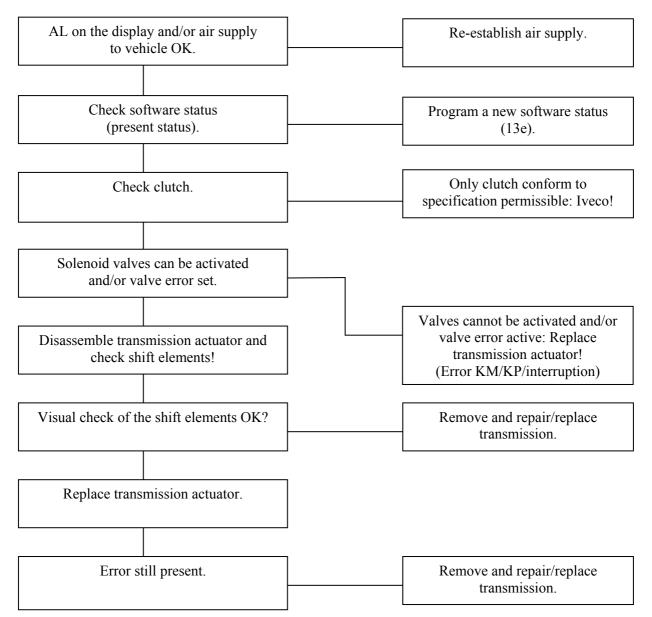




Error display:	In vehicle display: MobiDig/ Testman	91 145
Error description:	GP disengagement error.	
Error detection:	GP does not leave the previous position within a defined time.	
System response:	When shifting from GPL to GPS during a shift, the highest gear in GPL is selected and when shifting from GPS to GPL, the lowest gear in GPS is selected. If the vehicle is at a standstill and GPL cannot be selected, the lowest gear in GPS is selected as starting gear. Reverse gear not available in GPS. The automatic unit is deactivated!	

Iveco error number:

91

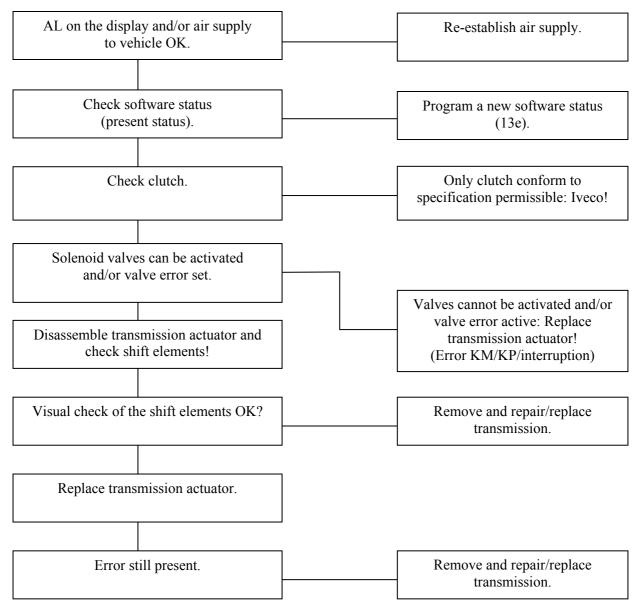


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Error display:	In vehicle display: MobiDig/ Testman	92 146
Error description:	Changeover error during GP	shift.
Error detection:	GP does not change into the new position within a defined time.	
System response:	The automatic shift unit is deactivated. If the GP position requested cannot be selected, the GP cylinder tries to shift three times. If the GP position requested cannot be selected, the following gear is selected: When shifting from GPL to GPS, the highest gear in GPL is selected. When shifting from GPS to GPL, the lowest gear in GPS is selected. If the vehicle is at a standstill and GPL cannot be selected, the lowest gear in GPS is selected as starting gear.	

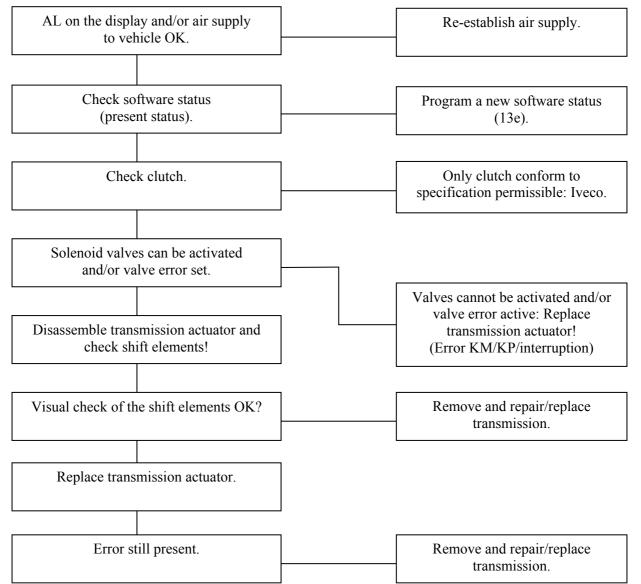
Iveco error number:

92





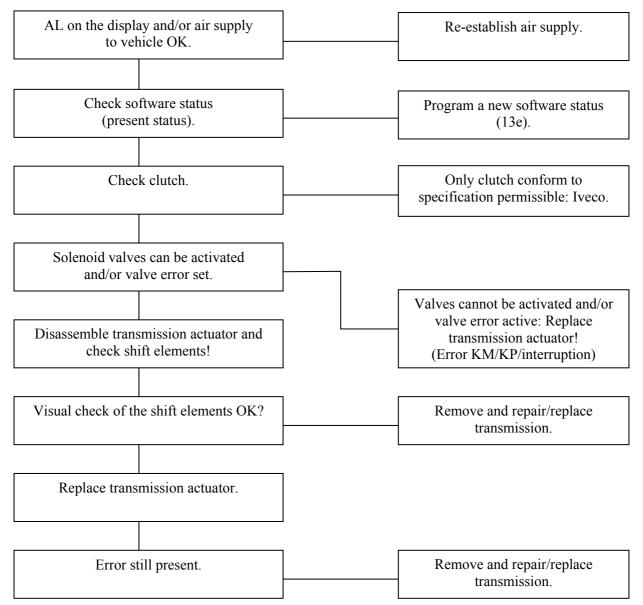
Iveco error number:	93	
Error display:	In vehicle display: 93 MobiDig/ Testman 147	
Error description:	GP not engaging.	
Error detection:	Within a defined time, GP reaches neither old position.	er the limit position nor the new or
System response:	The automatic shift unit is deactivated. If the GP position requested cannot be selected, the GP cylinder tries to shift three times. If the gear requested cannot be selected, the previous GP position is selected. If the previous GP position cannot be selected, an error is set. The transmission shifts to neutral. In all operating modes GP shift attempts can be made again.	





Iveco error number: 94

Error display:	In vehicle display: MobiDig/ Testman	94 148
Error description:	GV (splitter group) does not	lisengage.
Error detection:	GV (splitter group) does not leave the previous position within a defined time.	
System response:	The automatic shift unit is deactivated. The transmission performs an upshift into the next gear (e.g. if a shift from 2^{nd} to 3^{rd} gear is not possible, the transmission shifts up into 4^{th}). The highest or lowest gear which can be selected (when changing gear and for the starting gear) is the one engaged in the most recently selected GV (splitter group) position.	



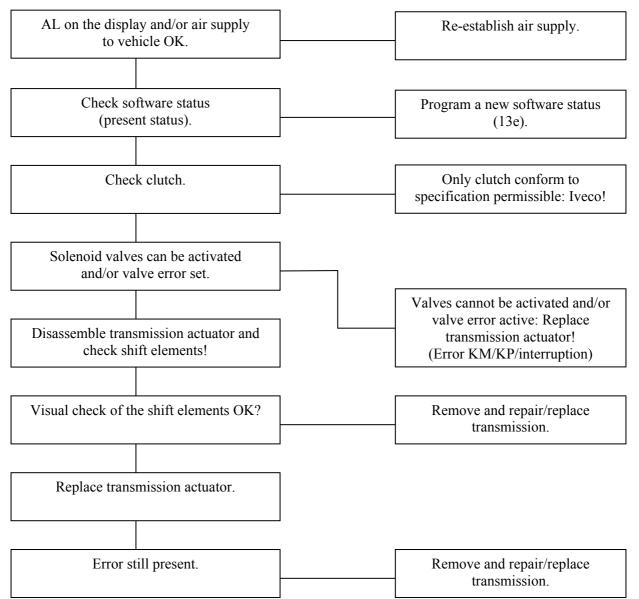
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Error display:	In vehicle display: MobiDig/ Testman	95 149
Error description:	Shifting error during GV shif	t.
Error detection:	GV does not change into new position within a defined time.	
System response:	The automatic shift unit is deactivated. The transmission performs an upshift into the next gear (e.g. if a shift from 2 nd to 3 rd gear is not possible, the transmission shifts up into 4 th). The highest or lowest gear which can be selected (when changing gear and for the starting gear) is the one engaged in the most recently selected GV (splitter group) position.	

Error rectification:

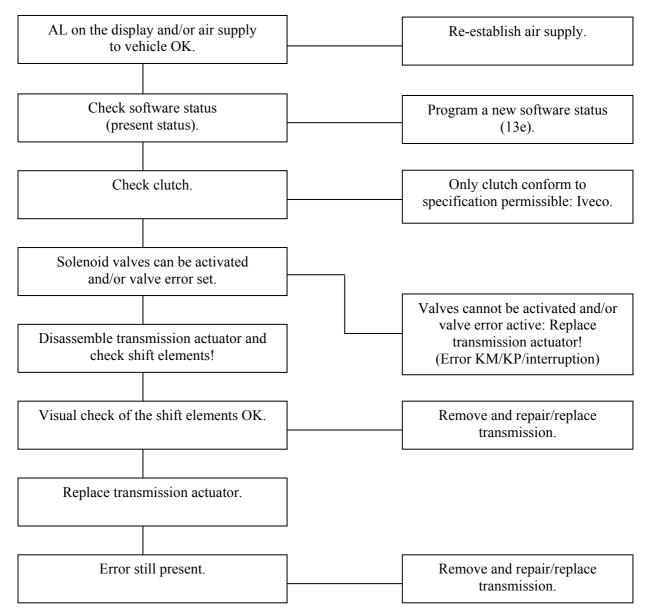
Iveco error number:

95





Iveco error number:	96	
Error display:	In vehicle display: MobiDig/ Testman	96 150
Error description:	GV not engaging.	
Error detection:	Within a defined time, GV reaches neither the old nor the new position. Error is set only at standstill!	
System response:	System not available. GV shift attempts can be made again.	



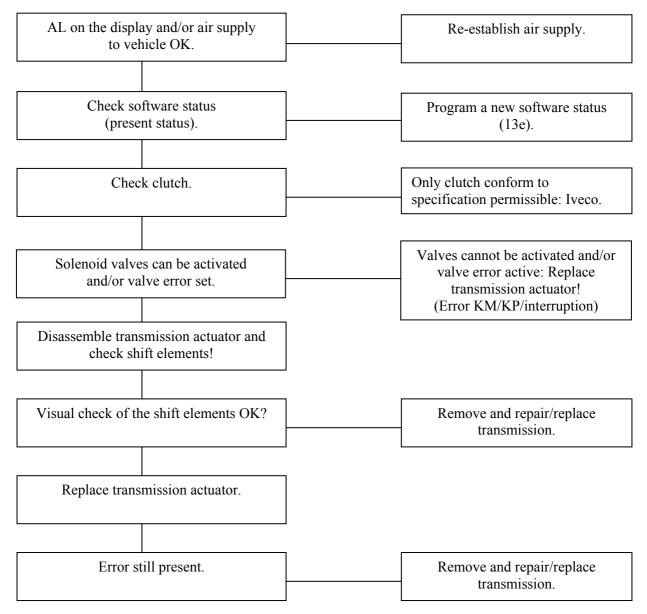
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Error display: 97 In vehicle display: MobiDig/ Testman 151 **Error description:** Selector cylinder not disengaging. **Error detection:** Selector cylinder does not leave previous position. The automatic shift unit is deactivated. If the error occurs during the shift, System response: the transmission shifts back into the previous gear. If the previous gear cannot be selected because of too high speed, the next possible gear is selected. If the highest possible gear cannot be selected, the transmission shifts to neutral. If the vehicle is at a standstill and the gear requested cannot be selected, the transmission shifts to neutral. Repeated shifting must be triggered again using the range selector.

97

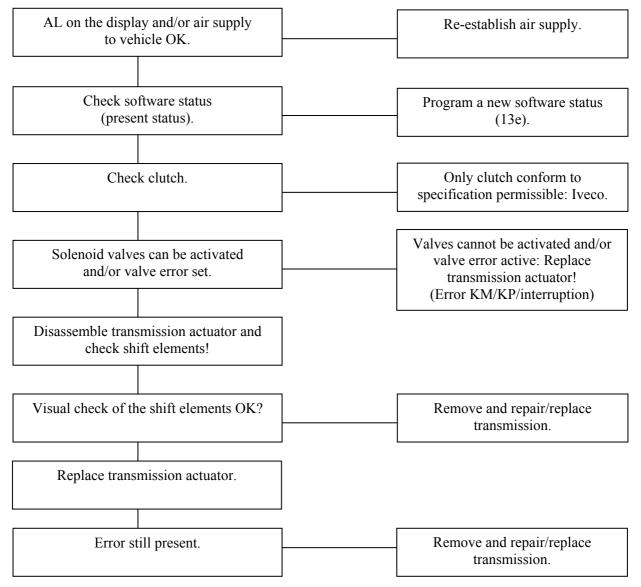
Error rectification:

Iveco error number:





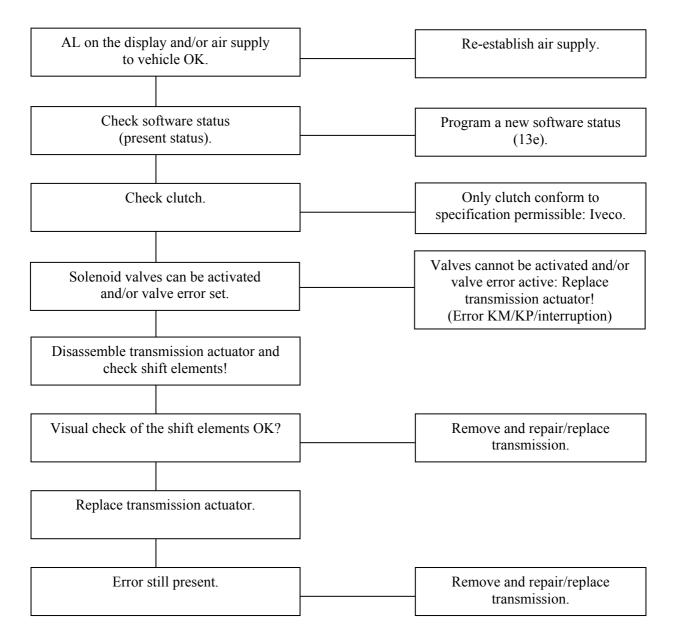
98 **Iveco error number: Error display:** In vehicle display: 98 MobiDig/ Testman 152 **Error description:** Changeover error during gate selection process (selector cylinder). **Error detection:** Selector cylinder does not change into the new gate. The automatic shift unit is deactivated. If the error occurs during the shift, System response: the transmission shifts back into the previous gear. If the previous gear cannot be selected because of too high speed, the next possible gear is selected. If the highest possible gear cannot be selected, the transmission shifts to neutral. If the vehicle is at a standstill and the gear requested cannot be selected, the transmission shifts to neutral. Repeated shifting must be triggered again using the range selector.





Iveco error number: 99

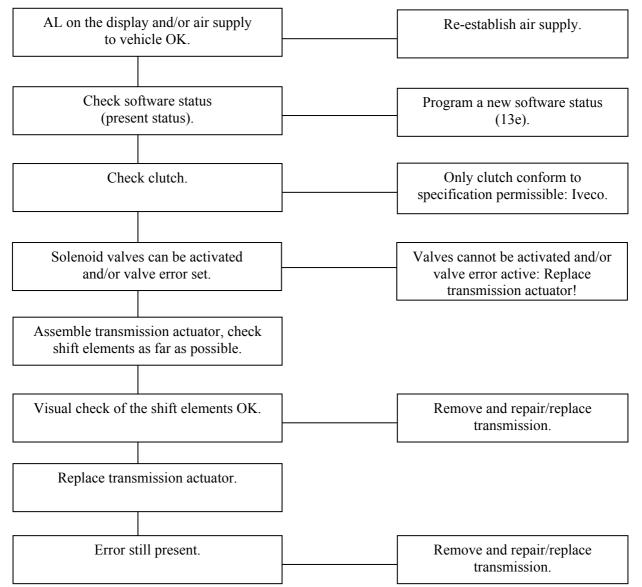
Error display:	In vehicle display: MobiDig/ Testman	99 153
Error description:	Selector cylinder not engagin	g.
Error detection:	Selector cylinder is neither shifting into the new gate limit position nor into the old gate limit position.	
System response:	The automatic shift unit is deactivated. The transmission shifts to neutral. Repeated gear shifting must be triggered using range selector. If no gate can be selected, the system is not available.	





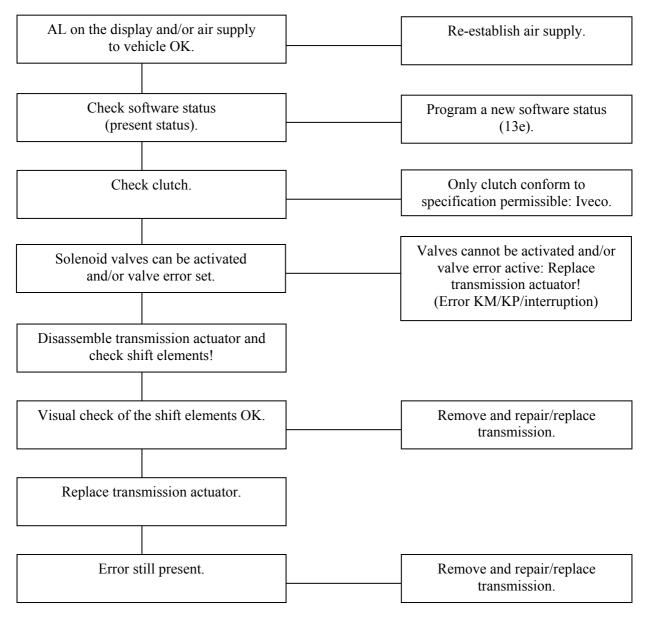
Iveco error number: 9A

Error display:	In vehicle display: MobiDig/ Testman	9A 154
Error description:	Main transmission not diseng	aging.
Error detection:	Gear selected signal does not disappear once clutch has been opened and neutral has been requested.	
System response:	The automatic shift unit is deactivated. During travel, the clutch closes in the previous gear. The next shift attempt must be triggered using the range selector. If the vehicle is at a standstill, gear shifting is only permitted once the neutral signal has been reached. Setting off and driving can be attempted with the gear selected if the gear is equal to or less than the lowest gear in GPS.	



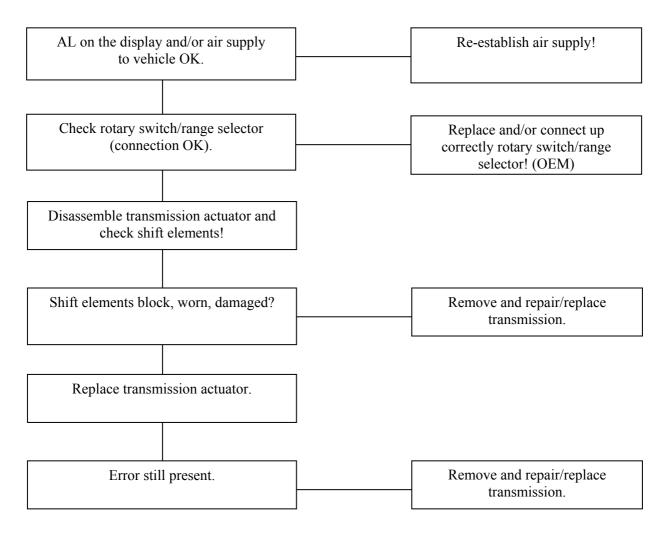


Iveco error number:	9B	
Error display:	In vehicle display: MobiDig/ Testman	9B 155
Error description:	Main transmission not engaging.	
Error detection:	Shift cylinder does not leave neutral position. Clutch exceeds defined closing value during out-of-mesh position and gear is not activated.	
System response:	The automatic shift unit is deactivated. During travel and if the vehicle is at a standstill, transmission shifts to neutral. Repeated shift attempt must be triggered using the range selector.	



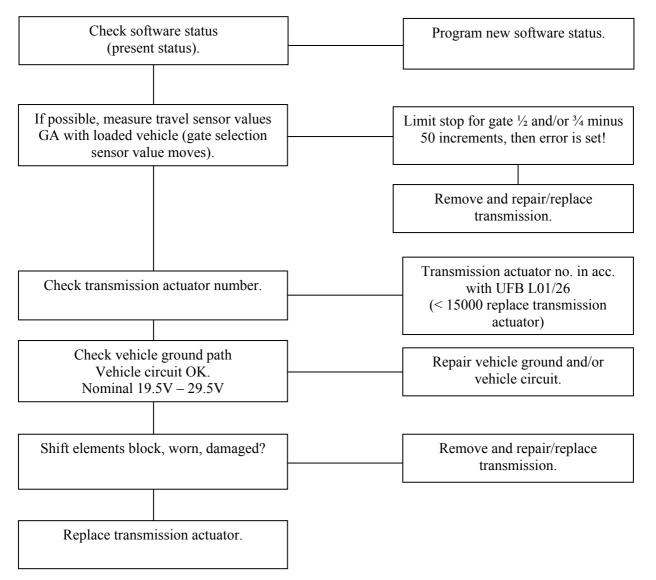
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Iveco error number:	9C	
Error display:		DC 156
Error description:	Incorrect gear shift.	
Error detection:	Shift sensor detects shifting in the wrong direction.	
System response:	The automatic shift unit is deactivated. Automatic shift to neutral. Clutch remains opened if shifting to neutral is not possible. Repeated gear shifting must be triggered using range selector.	



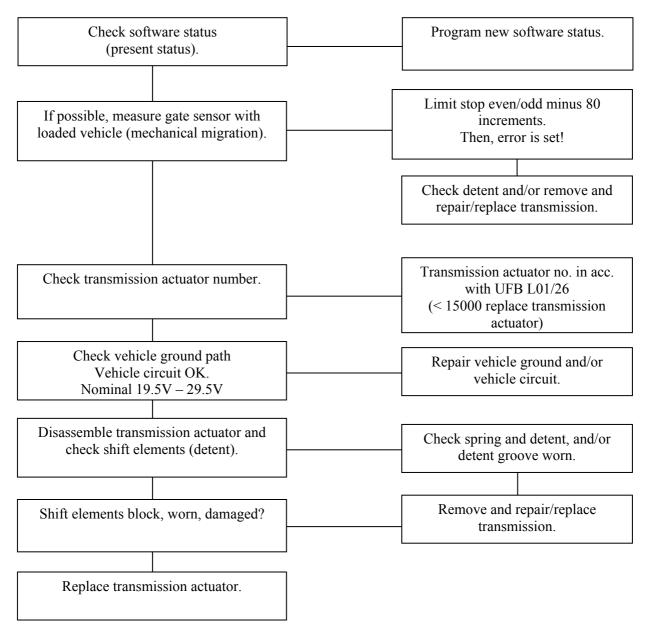


Iveco error number:	9D	
Error display:	In vehicle display:9DMobiDig/ Testman157	
Error description:	Gate selection sensor (main transmission) leaves selected position.	
Error detection:	Gate selection sensor exceeds maximum permissible travel during driving without a shift having been triggered.	
System response:	The transmission attempts to shift the gear back into its limit position. If the gear has been completely deactivated, a suitable speed dependent gear is engaged automatically.	



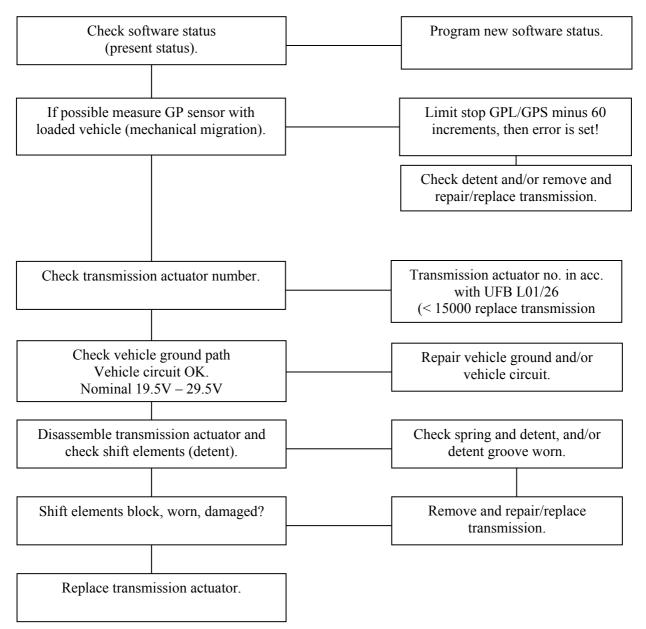


Iveco error number:	9E	
Error display:	In vehicle display:9EMobiDig/ Testman158	
Error description:	Signal shift sensor (main transmission) leaves selected position.	
Error detection:	Shift sensor signal exceeds maximum permissible travel during driving without a shift having been triggered.	
System response:	The transmission attempts to shift the gear back into its limit position. If the gear has been completely deactivated, a suitable speed dependent gear is engaged automatically.	



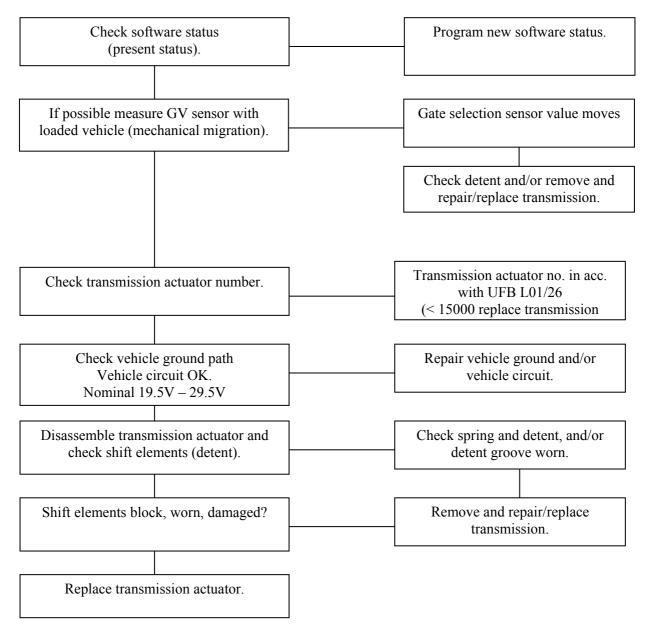


9F **Iveco error number: Error display:** In vehicle display: 9F MobiDig/ Testman 159 **Error description:** GP sensor signal leaves position selected. GP signal exceeds maximum permissible travel during driving without a **Error detection:** shift having been triggered. System response: The transmission attempts to shift the gear back into its limit position. If the gear has been completely deactivated, a suitable speed dependent gear is engaged automatically.



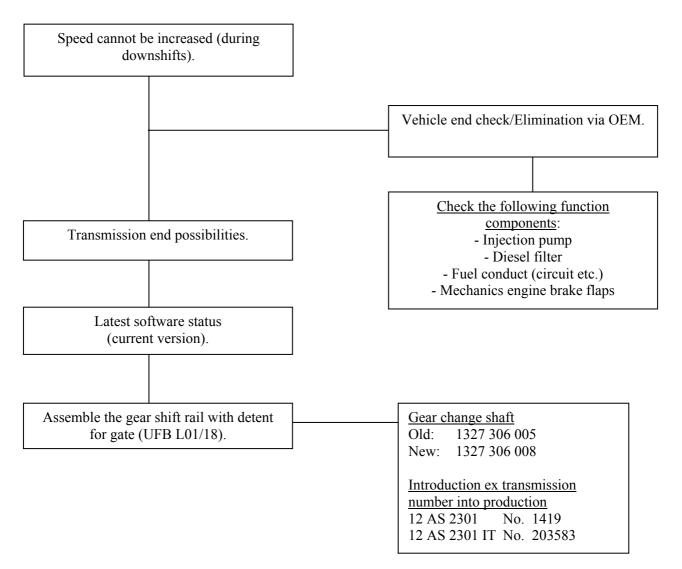


Iveco error number:	A0	
Error display:	In vehicle display:A0MobiDig/ Testman160	
Error description:	GV sensor signal (splitter) leaves position selected.	
Error detection:	GV signal exceeds maximum permissible travel during driving without a shift having been triggered.	
System response:	The transmission attempts to shift the gear back into its limit position. If the gear has been completely deactivated, a suitable speed dependent gear is engaged automatically.	



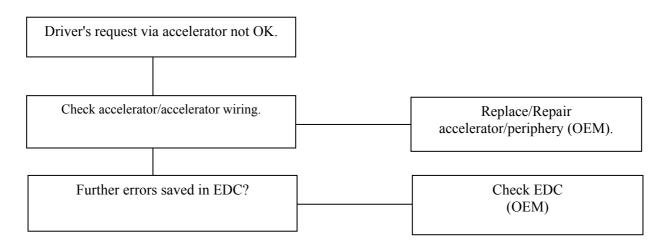


Iveco error number:	A3	
Error display:	In vehicle display:A3MobiDig/ Testman163	
Error description:	Engine does not respond to torque action.	
Error detection:	No engine intervention (increase in engine speed) possible via CAN interface.	
System response:	During travel, gear shifts are blocked. Setting off permissible. Clutch function and comfort are reduced.	



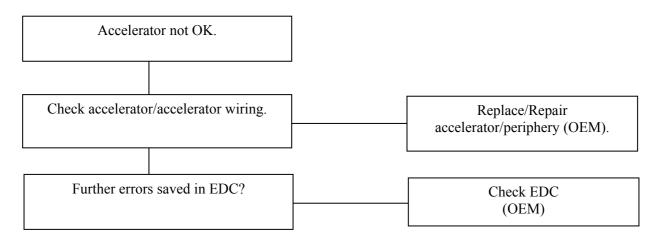


Iveco error number:	A4	
Error display:	In vehicle display: MobiDig/ Testman	A4 164
Error description:	Signal error engine torque (calculated injection volume in % by EDC) driver's request (Drivers demand engine percent torque signal).	
Error detection:	No signal or signal incorrect.	
System response:	The automatic unit is deactivated and cruise control operation not possible. Manual shifting is possible. The closing quality of the clutch may be reduced. Once the clutch has been closed, the injection volume is approved by the EDC. This results in poor shift quality after shifting. If vehicle comes to a standstill, mid-starting gear is selected. Setting off possible. No other functional restrictions.	



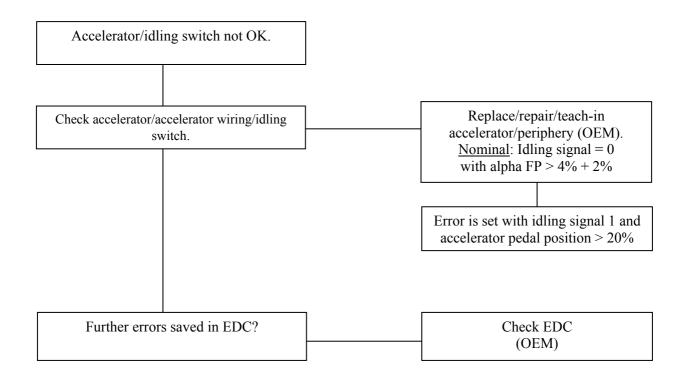


Iveco error number:	A5	
Error display:	In vehicle display: A5 MobiDig/ Testman 165	
Error description:	Signal error "Accelerator position" (Accelerator pedal position signal)	
Error detection:	No signal or signal incorrect.	
System response:	The automatic shift unit is deactivated. Manual shifting possible. The shift quality may be reduced. If vehicle comes to a standstill, mid-starting gear is selected. Setting off possible. Maneuvering and setting of quality may be reduced.	



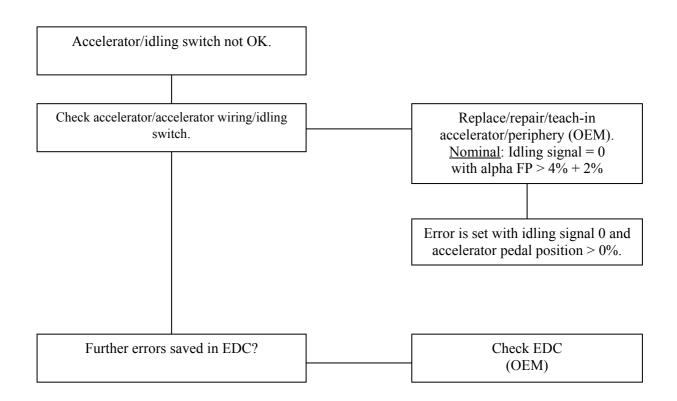
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Iveco error number:	A6	
Error display:	In vehicle display: MobiDig/ Testman	A6 166
Error description:	Permanent idling signal.	
Error detection:	Accelerator position greater than coasting position and idling signal active.	
System response:	During travel automatic mode not available. Manual shifting permitted. If the vehicle comes to a standstill, maneuvering and setting off no longer possible. System not available.	



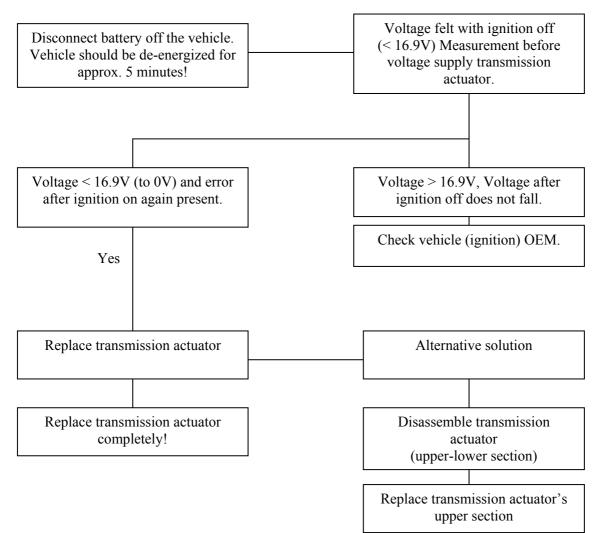


Iveco error number:	A8	
Error display:	In vehicle display: MobiDig/ Testman	A8 168
Error description:	Signal error "Accelerator idling switch" (AP low idle switch)	
Error detection:	No idling signal or idling signal incorrect.	
System response:	During travel, the automatic unit is deactivated, manual shifting is possible. After ignition OFF – ON (approx. 5 sec.), as long as the accelerator pedal value is in coasting mode (pedal not activated alpfa_fp = 0%) and the idling signal is off, AP or FP appear on the display. If the idling signal does not appear within a determined time, an error is set and AP or FP disappears from the display. ECU checks the lower idling speed. Setting off is permitted once the verification check has been satisfied.	



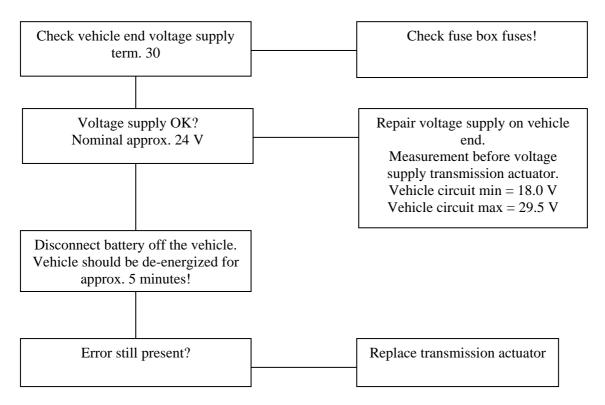


A9 **Iveco error number: Error display:** In vehicle display: A9 MobiDig/ Testman 169 **Error description:** Deactivation relay in ECU (transmission actuator) does not disengage. **Error detection:** During system test: If the deactivation relay is disengaged, the digital outputs can be activated. System response: During driving, gear shifts are inhibited. The clutch opens as soon as the vehicle comes to a standstill. When vehicle stops, neutral position is automatically engaged. Other gear shifts not possible. System not available.



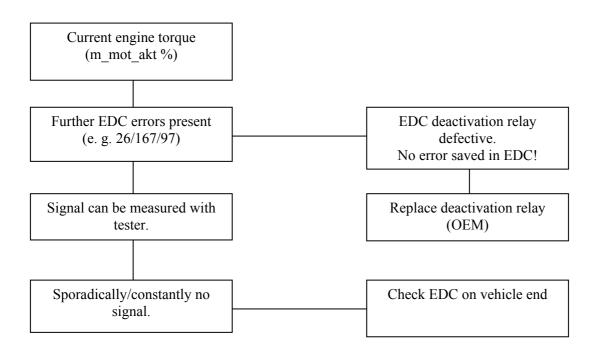


Iveco error number:	AA	
Error display:	In vehicle display: MobiDig/ Testman	AA 170
Error description:	No voltage supply of term. 30 or deactivation relay in ECU does not engage.	
Error detection:	During check phase, ignition ON, no voltage on the power supply pins.	
System response:	System not available. Clutch and transmission status are maintained.	



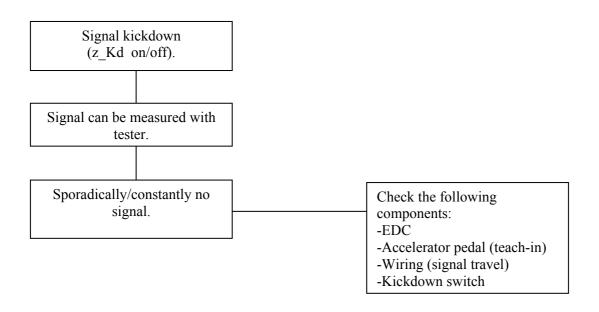


Iveco error number:	AB	
Error display:	In vehicle display:ABMobiDig/ Testman171	
Error description:	Signal error "Current percent engine torque" (Actual engine percent torque signal)	
Error detection:	No signal or signal incorrect.	
System response:	may be reduced. If vehicle comes to	al shifting is possible. The shift quality a standstill, mid-starting gear is clutch overload detection could appear





Iveco error number:	AE	
Error display:	In vehicle display: MOBIDIG/Testman	AE 174
Error description:	Signal error "Kickdown switch" (Kickdown switch signal)	
Error detection:	No signal or signal incorrect.	
System response:	Kickdown operating mode impossible. No other functional restrictions.	

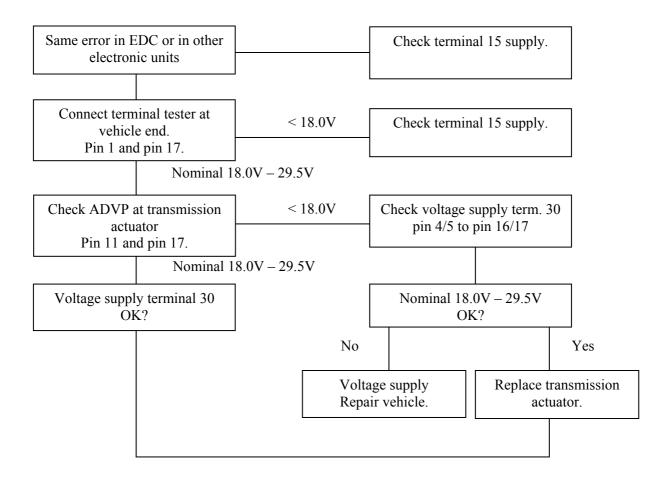




Error display:	In vehicle display: MobiDig/ Testman	AF 175
Error description:	Signal error "Ignition lock" (term.15)	
Error detection:	No ignition signal and engine is running.	
System response:	the engine is running, ECU is	inhibited. If the vehicle is at a standstill and not deactivated. Setting off gears can be e). The vehicle can be driven with a starting ne system is not available.

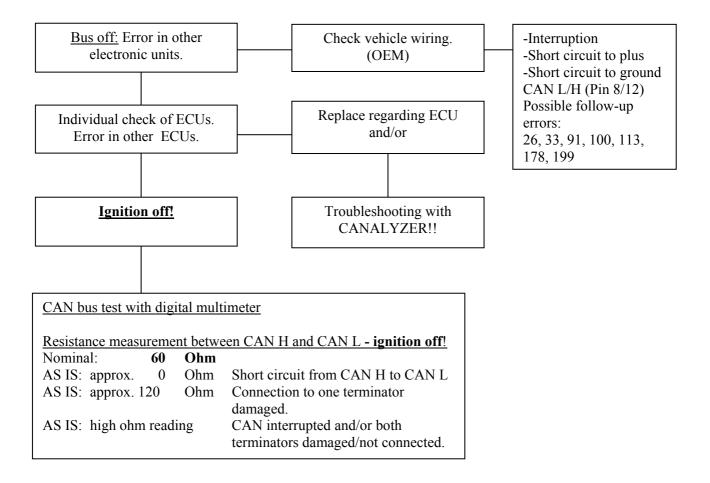
Iveco error number:

AF



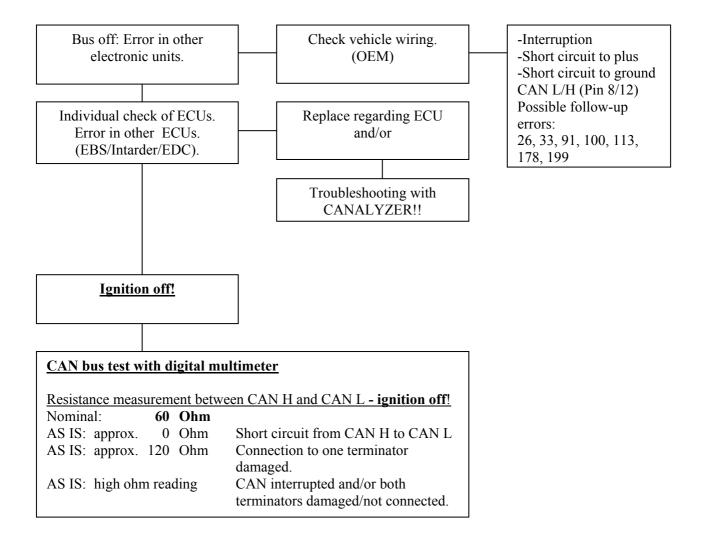
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Iveco error number:	B1	
Error display:	In vehicle display: MobiDig/ Testman	B1 177
Error description:	System error CAN bus off.	
Error detection:	CAN system messages cannot be sent or received. Failure after timeout.	
System response:	During travel, gear shifts are inhibited. Clutch opens when vehicle comes to a standstill and neutral position is automatically engaged. Other gear shifts not possible. System not available.	



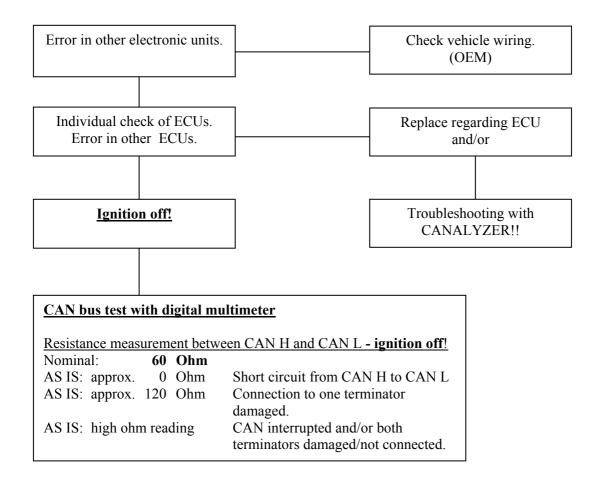


Iveco error number:	B2	
Error display:	In vehicle display: MobiDig/ Testman	B2 178
Error description:	CAN Errorwarning	
Error detection:	ERRWARN from bus off hand	dler CAN-Controller.
System response:	During travel, gear shifts are inhibited. Clutch opens when vehicle comes to a standstill and neutral position is automatically engaged. Other gear shifts not possible. System not available.	





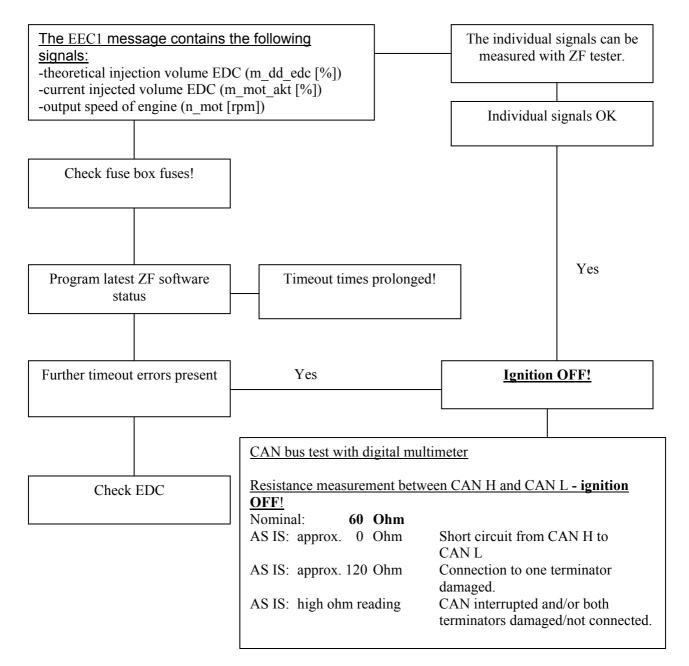
Iveco error number:	B3	
Error display:	In vehicle display: MobiDig/ Testman	B3 179
Error description:	CAN waiting loop overrun (CAN queue overrun).	
Error detection:	Not all relevant CAN messages can be sent within one ECU cycle.	
System response:	During travel, gear shifts are inhibited. Clutch opens when vehicle comes to a standstill and neutral position is automatically engaged. Other gear shifts not possible. System not available.	





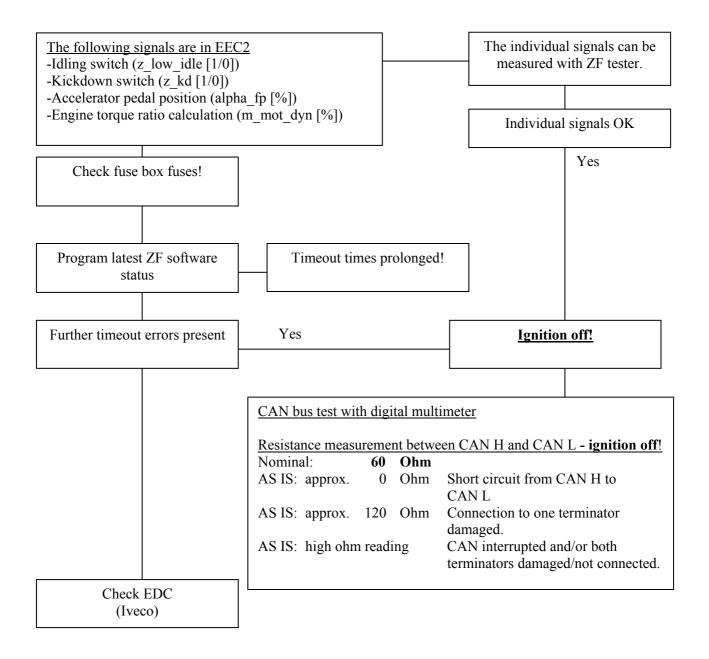
Iveco error number: B4

Error display:	In vehicle display: MobiDig/ Testman	B4 180
Error description:	CAN EEC1 timeout	
Error detection:	If the ERC1_DR CAN message is not received within a defined time, an error is set (timeout).	
System response:	During travel, gear shifts are blocked. If the vehicle is at a standstill, the clutch opens and a shift is automatically made to neutral. Other gear shifts not possible. System not available.	



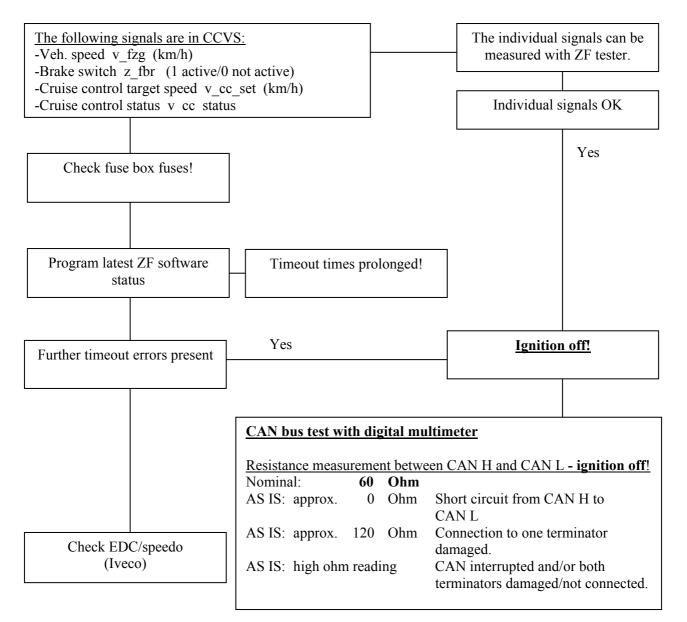


Iveco error number:	B5	
Error display:	In vehicle display: MobiDig/ Testman	B5 181
Error description:	CAN EEC2 timeout	
Error detection:	If the EEC2 CAN message is not received within a defined time, an error is set (timeout).	
System response:	During travel, gear shifts are blocked. If the vehicle is at a standstill, the clutch opens and a shift is automatically made to neutral. Other gear shifts not possible. System not available.	





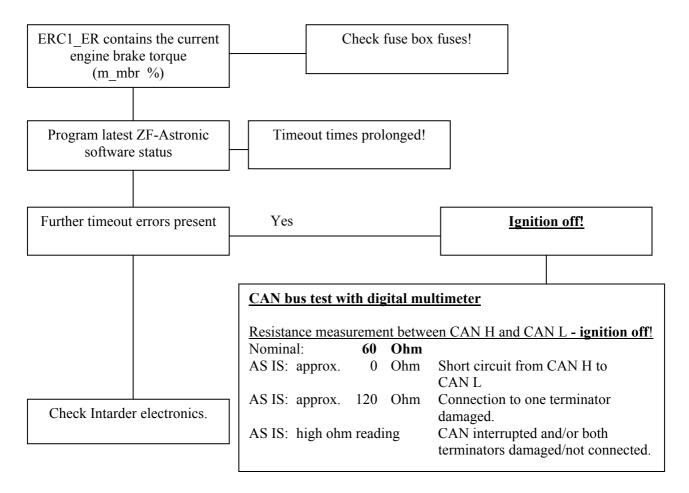
Iveco error number:	B6	
Error display:	In vehicle display: MobiDig/ Testman	B6 182
Error description:	CAN CCVS timeout	
Error detection:	If the CCVS CAN message is not received within a defined time, an error is set (timeout).	
System response:	The automatic shift unit is deactivated. Wheel speed, service brake signal and cruise control status/target speed missing. In coasting mode, it is assumed that the service brake signal is active. The clutch opens a little earlier.	





Iveco error number: B7

Error display:	In vehicle display: MobiDig/ Testman	B7 183
Error description:	CAN ERC1_ER timeout (eng	ine retarder)
Error detection:	If the ERC1_ER CAN messa, error is set (timeout).	ge is not received within a defined time, an
System response:	The automatic shift unit is deactivated. No information about the engine braking torque. If the engine brake is active, the shift quality may be reduced. It is assumed that the engine brake is not active. No other functional restrictions.	

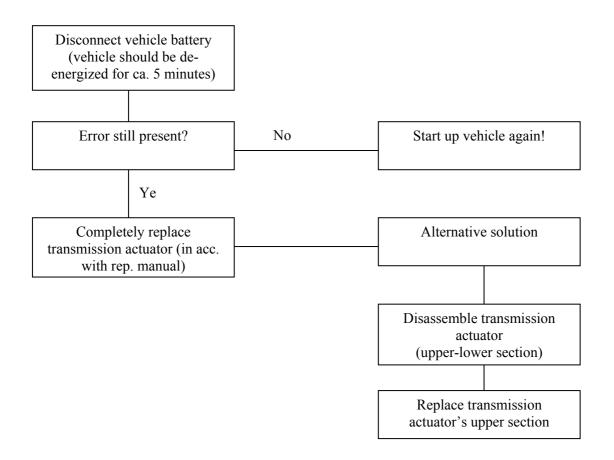




B8 Iveco error number: Error display: In vehicle display: **B8** MobiDig/ Testman: 184 CAN ERC1 DR timeout (driveline retarder) **Error description:** If the ERC1 DR CAN message is not received within a defined time, an **Error detection:** error is set (timeout). System response: The automatic shift unit is deactivated. Manual shifting possible. If the vehicle comes to standstill, the mid-starting gear is selected. No other functional restrictions. **Error rectification:** Message ERC1 DR contains: Check fuse box fuses! -Secondary retarder brake torque (m sekret %) -Request, increase in engine speed (z ret rück) Program latest ZF-Astronic Timeout times prolonged! software status Further timeout errors present Yes **Ignition off!** CAN bus test with digital multimeter Resistance measurement between CAN H and CAN L - ignition off! Nominal: 60 Ohm AS IS: approx. 0 Ohm Short circuit from CAN H to CAN L AS IS: approx. 120 Ohm Connection to one terminator Check Intarder electronics. damaged. AS IS: high ohm reading CAN interrupted and/or both terminators damaged/not connected.

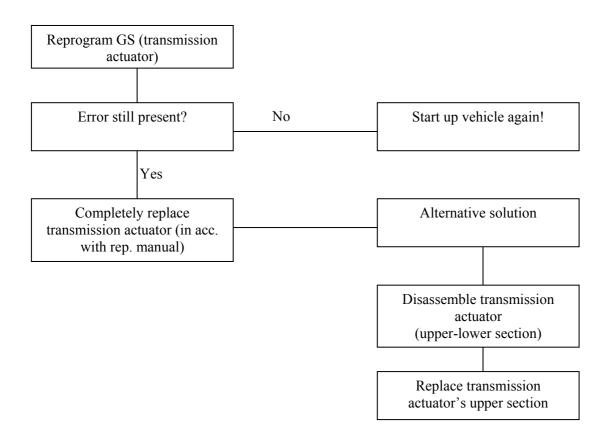


Iveco error number:	BC	
Error display:	In vehicle display: MobiDig/ Testman	BC 188
Error description:	ECU error, incorrect interruption.	
Error detection:	By software.	
System response:	During travel, gear shifts are inhibited. The clutch opens as soon as the vehicle comes to a standstill. When the vehicle stops Neutral position is automatically engaged. Other gear shifts not possible. System not available.	



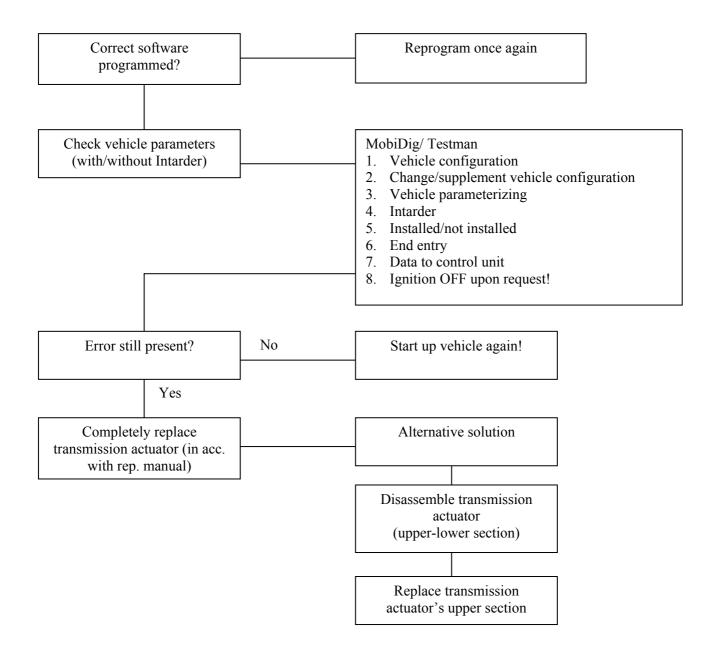


Iveco error number:	BD	
Error display:	In vehicle display: MobiDig/ Testman	BD 189
Error description:	ECU error, stack watch.	
Error detection:	By software.	
System response:	During travel, gear shifts are inhibited. The clutch opens as soon as the vehicle comes to a standstill. When vehicle stops, neutral position is automatically engaged. Other gear shifts not possible. System not available.	



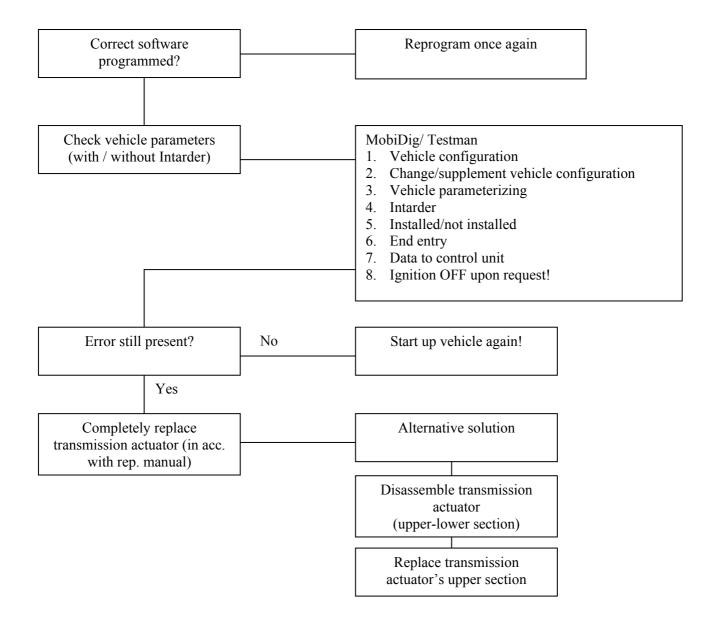


Iveco error number:	BE	
Error display:	In vehicle display: MobiDig/ Testman	BE 190
Error description:	EOL EEPROM parameter(s) outside of valid range.	
Error detection:	By software, EOL parameters outside range, detection with ignition on.	
System response:	Gear shifts are blocked. The clutch opens as soon as the vehicle comes to a standstill. When vehicle stops, neutral position is automatically engaged. Other gear shifts not possible. System not available.	



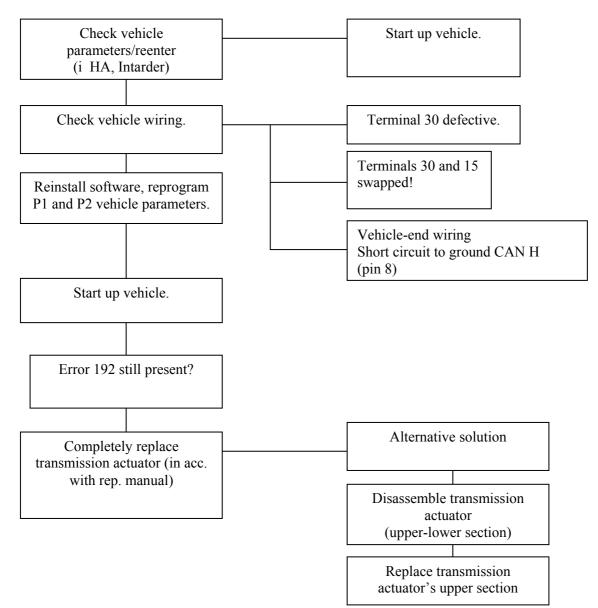


BF **Iveco error number: Error display:** In vehicle display: BF MobiDig/ Testman 191 **Error description:** EOL EEPROM parameter checksum error. **Error detection:** By software, check sum of EOL parameters not correct, detection when ignition on. System response: Gear shifts are blocked. The clutch opens as soon as the vehicle comes to a standstill. When vehicle stops, neutral position is automatically engaged. Other gear shifts not possible. System not available.





Iveco error number:	CO	
Error display:	In vehicle display: MobiDig/ Testman	C0 192
Error description:	ECU fault, EEPROM access incorrect.	
Error detection:	Value cannot be read by serial EEPROM.	
System response:	Gear shifts are blocked. The clutch opens as soon as the vehicle comes to a standstill. When vehicle stops, neutral position is automatically engaged. Other gear shifts not possible. System not available.	

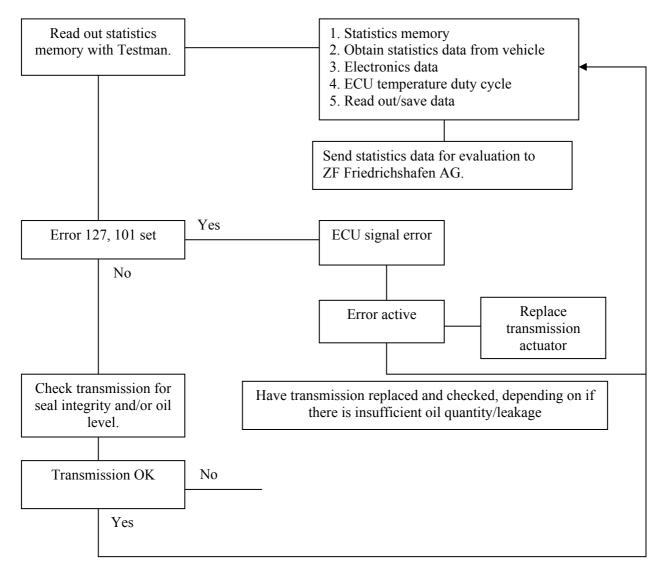


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Error display:	In vehicle display: MobiDig/ Testman	C1 193
Error description:	ECU temperature too high.	
Error detection:	ECU temperature on electronics circuit board greater than 125 °C and oil temperature greater than 130 °C.	
System response:	Gear shifts are blocked. The clutch opens as soon as the vehicle comes to a standstill. When vehicle stops, neutral position is automatically engaged. The gear display and temperature error message are shown in turn on the display. Other gear shifts not possible. System not available.	

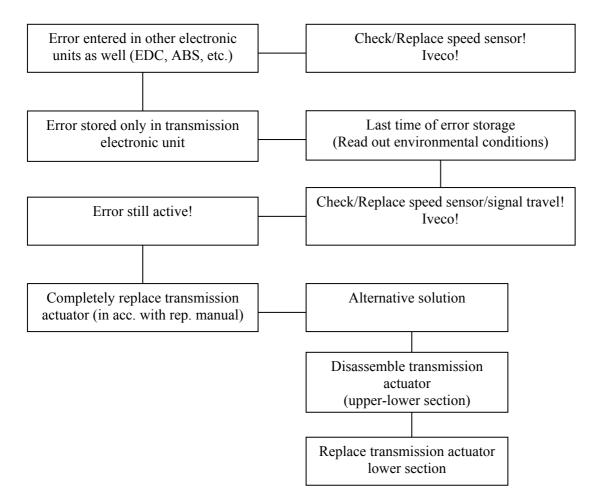
Iveco error number:

C1



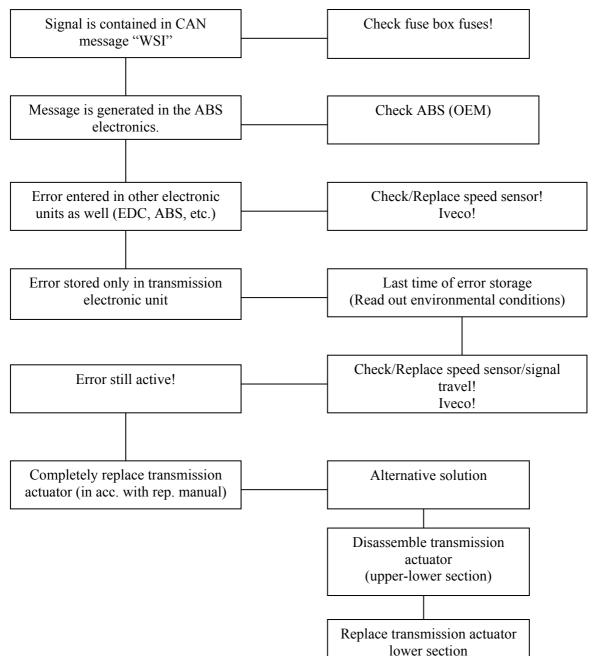


Iveco error number:	C2	
Error display:	In vehicle display: MobiDig/ Testman	C2 194
Error description:	Failure of both signal sources for the front axle speed.	
Error detection:	Both signal sources for the front axle speed are not available.	
System response:	The automatic shift unit is deactivated. No further system restrictions.	



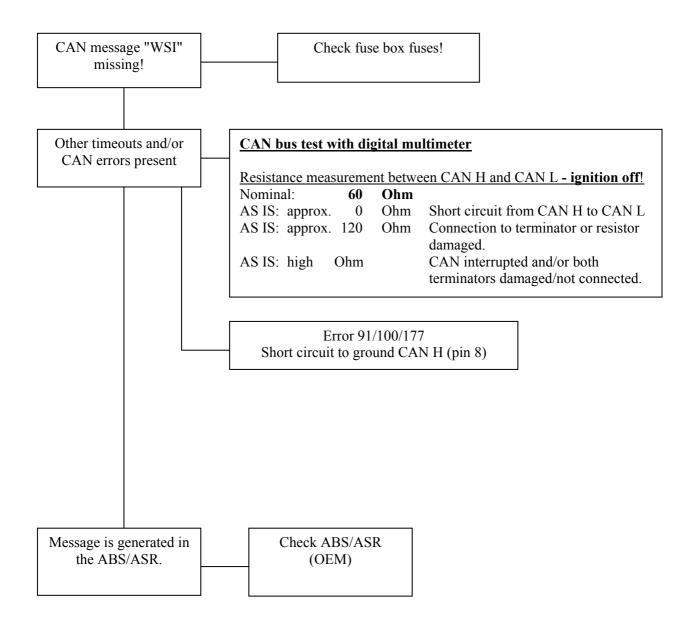


Iveco error number:	C5	
Error display:	In vehicle display: MobiDig/ Testman	C5 197
Error description:	Front axle speed signal error.	
Error detection:	No signal or signal incorrect.	
System response:	The automatic shift unit is deactivated. Manual shifting possible. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	



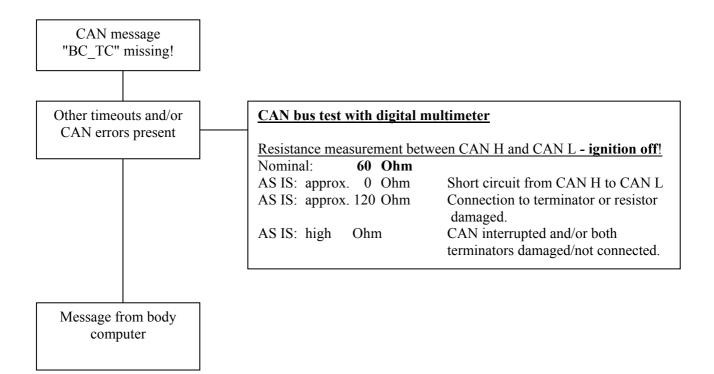


Iveco error number:	C7	
Error display:	In vehicle display: MobiDig/ Testman	C7 199
Error description:	CAN message "WSI timeout".	
Error detection:	An error is set after the CAN message timeout.	
System response:	The automatic shift unit is deactivated. Manual shifting possible. If vehicle comes to a standstill, mid-starting gear is selected. No other functional restrictions.	





Iveco error number:	E2	
Error display:	In vehicle display:E2MobiDig/ Testman226	
Error description:	CAN message "BC_TC timeout".	
Error detection:	An error is set after the CAN message timeout.	
System response:	The automatic shift unit is deactivated. During travel, gear shifts are blocked. When vehicle stops, Neutral position is automatically engaged. System not available.	





Iveco error number:	E3	
Error display:	In vehicle display: MobiDig/ Testman	E3 227
Error description:	Application error data field for CAN communication.	
Error detection:	Through software during system test after Ignition on.	
System response:	Gearshifts locked. When vehicle stops, Neutral position is automatically engaged. System not available.	

