



AS-Tronic 2 Diagnostics

Here, we are dealing with a collection of well-known complaints as well as remedial action. This documentation is to be used as a supplement to the failure tree documentation.

In all cases, the following applies:

- All disturbing, impacting factors must be checked prior to replacing components.
- Prior to replacing the components, it is **mandatory** to work off the checklist.
- If replacing or exchanging the components does not solve the problem, then the new part must be replaced again by the original part.
- In the case of new, unknown complaints, the checklist must be worked off and **afterwards** (if possible) feedback must be requested from the technical expert department in Friedrichshafen / Germany.
- The “general clutch actuator replacement < 42000” campaign has been closed.



Table of Contents

Short circuit/Interruption TA* 3	2, 3, 4, 5, 6, 7, 8,9,10,17, 34, 35, 36, 37, 38, 39, 40, 41, 42, 49, 66, 67,68, 69, 70, 71, 72, 74, 81	Page 5
Short circuit ADVP*	22	Page 6
Driveline retarder torque (CAN)	28	Page 7
Measurement on diagnostic code 28	28	Page 8
Input shaft speed defective	98	Page 9
Speed error	99, 100, 101, 28	Page 10
ZF-CAN Timeout	110	Page 11
Harsh engagement	partially 114	Page 12
Measurement on diagnostic code 114	partially 114	Page 13
Clutch self learning error	117	Page 14
Measurement on diagnostic code 117	117	Page 15
Clutch self learning error	117 in connection with 155	Page 16
Air leakages	118, 145, 151, 154	Page 17
Clutch does not engage	119 in connection with 124	Page 18
Signal error clutch travel	124	Page 19
Measurement on diagnostic code 124	124	Page 21
Clutch travel error, noise	124 in connection with 102	Page 22
Oil temperature sensor	128	Page 23
Self adjustment error of shift sensor	132 in connection with 154	Page 24
GV (splitter group) does not disengage	148	Page 25

* TA = Transmission Actuator; *ADVP = Output Digital Power Supply to High Source (+)



Table of Contents

GV (splitter group) does not change	149	Page 26
Measurement on diagnostic code 149	149	Page 27
Wabco transmission actuator < 15000	145, 146, 147, 149, 154, 156, 158	Page 28
Selector cylinder jammed	151, 153	Page 29
Main transmission not engaging	155	Page 30
No starting gear N-D/R	155	Page 31
Leaving of engaged position (GE,GV,GP)	158, 159, 160	Page 32
Gear leaves engaged position	158	Page 33
Gear leaves engaged position	158 in connection with 101	Page 34
GV (splitter) leaves engaged position	160 in connection with 101	Page 35
Datalogger measurement to FC 160 / 101	160 in connection with 101	Page 36
Evo- Baureihe CC400	163	Page 37
Signal error ignition lock	175	Page 38
CAN Bus off	178	Page 39
EvoBus, after SW Pak 7 Update	188	Page 40
EEProm error while traveling	190, 191, 192	Page 41
EEProm error after programming	190, 191, 192	Page 42
EEProm error after engine start	192	Page 43
CAN Error	various	Page 44



Table of Contents

Complaints without diagnostics entry:

Engine start not possible	Page 45
Engine start not possible	Page 46
Transmission does not shift	Page 47
Clutch judder	Page 48
TC-Tronic; Juddering while starting movement	Page 49
Defective clutch actuator	Page 50
Limited positions outside of tolerance	Page 51
High level of clutch wear / burned clutch	Page 52
Too high tilt clearance at the DMF (dual mass flywheel)	Page 53
Strong noise during Intarder operation	Page 54
Over speeding of engine	Page 55
Gear-hunting	Page 56
Gear-hunting; no full throttle possible	Page 57
EvoBus model range 300	Page 58
Long Check Phase (CH)	Page 59



Short Circuit/Interruption Shift Valves

Diagnostic code: 2, 3, 4, 5, 6, 7, 8, 9, 10, 17, 34, 35, 36, 37, 38,
39, 40, 41, 42, 49, 66, 67, 68, 69, 70, 71, 72,
74, 81

Actions & Measures:

- ➔ Check the system's air with reference to dirt / oil / water
- ➔ Replace the transmission actuator!