

8 Failures, cause and remedy

Failure	Probable cause	Remedy
Engine	<p>-</p> <p>Electric switch next to the shut-off valve on the hydraulic oil tank is jammed (Fig. 17/34).</p>	<p>See special operating instructions for engine.</p> <p>Repair or replace electric switch.</p>
Shovel arm cannot be lifted or lowered.	<p>Ball valve at swivel chair not open.</p> <p>Pressure relief valve in the control valve is open.</p> <p>Pilot pressure not available or too low.</p> <p>Failure of diesel engine.</p>	<p>Open ball valve.</p> <p>Screw out complete pressure relief valve, clean and readjust (2000 bars).</p> <p>Pressure relief valve in the control line is open; clean and readjust (25-30 bars).</p> <p>It is possible to set the shovel arm in its lowest position by storage pressure. Not applicable to installed pipe-break safety device.</p>
Slewing gear does not slew.	<p>Blocking wedge locks slewing operation.</p> <p>Pressure relief valve in the control valve is open.</p>	<p>Remove blocking wedge and keep it in the holder.</p> <p>Screw out and clean complete pressure relief valve and readjust it (180 bars).</p>

Failure of support.	Connection of the support valve below swivel chair is jammed.	Bring shovel arm in direction of travel, repair the rods.
Support fails when shovel arm is lowered in swivelled condition.	Non-return valve in the discharge line is open.	Bring shovel arm in direction of travel, dismount and clean non-return valve.
Failure of driving and working hydraulics.	Shut-off valve at hydraulic tank is closed after repair. Filter clogging. Lack of oil in the hydraulic oil tank. Electric connections at the axial piston pump loose, totally disconnected or oxidized. Failure of fuses.	Open shut-off valve. Replace filter elements. Refill oil. Join the connections acc. to the electric diagram or clean them. Replace fuse, fuse for travelling gear is located in the dashboard.
Failures of brake system.	Parking brake does not hold. Service brake operated irregularly. Air in the system.	Check or reset adjustment, replace brake linings, if necessary. Check storage tank for brake fluid and refill, if necessary. Bleed the brake system.
Generator does not charge.	Electric connections are loose. V-belt torn. Generator speed too low.	Tighten connections. Replace V-belt. Check tension of V-belt and re-adjust, if necessary.

Failure of heating system.	Fuse in fuse box or heating unit is defective. Control device switches off.	Replace fuse. Set rotary switch to position "0" and repeat starting process.
Hose couplings of attachments cannot be connected.	Increased pressure due to heat effect on the attachment. Increased pressure in the basic unit.	Carefully loosen screwed connection at the rapid-action coupling, oil sprays off, the increased pressure breaks down. Tighten screwed connection. Depressurize lines by moving the pilot valve back and forth.

9 General instructions

The following is supplied together with the unit:

- Operating instructions for the engine. Please take all details regarding the engine from these operating instructions.
- Industrial leaflet "earth-moving machinery" of the employer's liability insurance association for civil engineering.
- Spare parts list - basic unit.