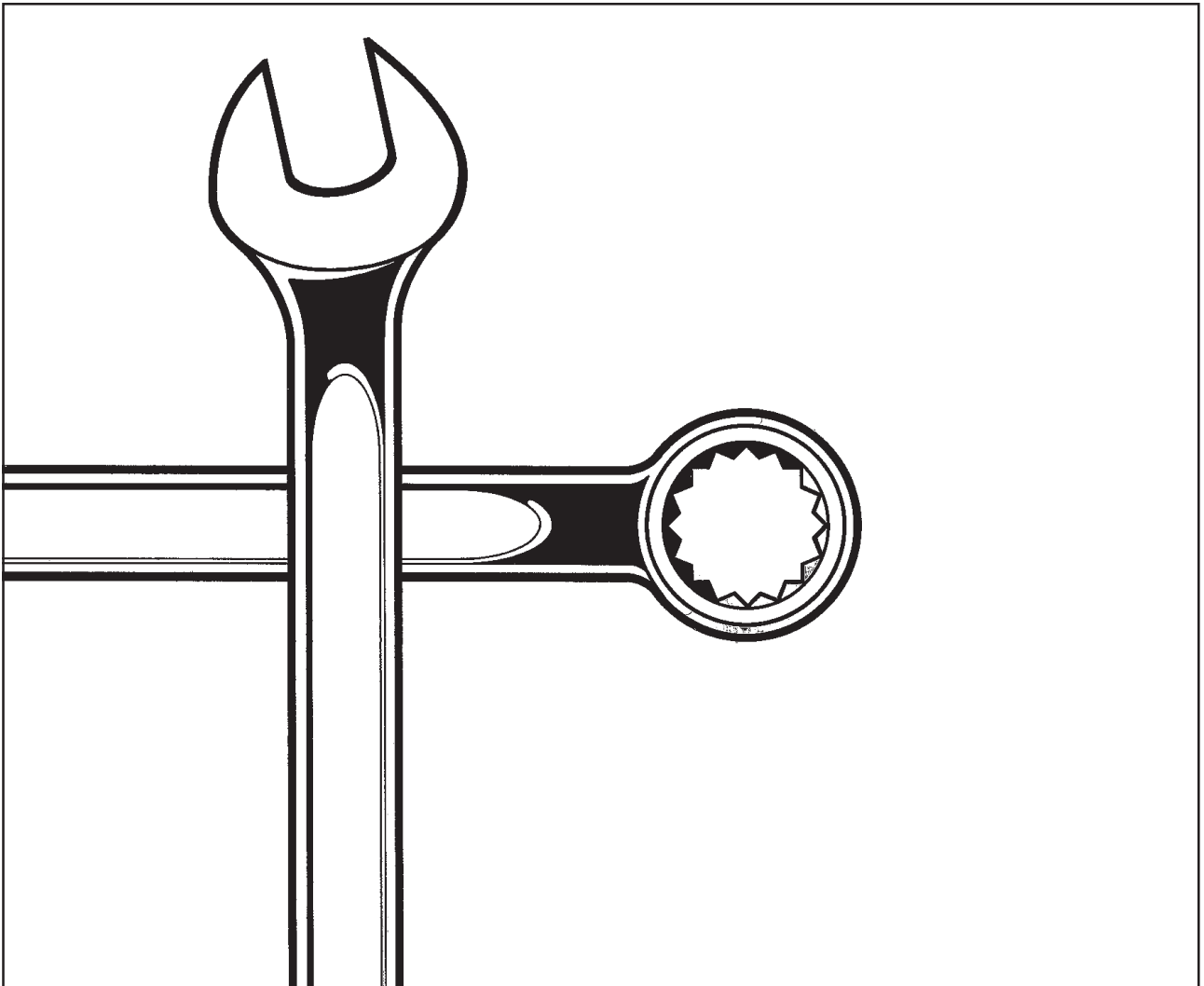


DYNAPAC
CC 222/C, 232/C
CC 422/C, CC 522
WORKSHOP MANUAL
TROUBLE SHOOTING
W1036EN4



SVEDALA

DYNAPAC
Svedala Compaction Equipment AB

Box 504, SE-371 23 Karlskrona, Sweden
Phone: +46 455 30 60 00, Fax: +46 455 30 60 30



**Vibratory and Combination Rollers
CC 222, 222C and 232, 232C
CC422/422C/522**

**Work Shop Manual, Trouble Shooting
W1036EN4**





General information/ Trouble Shooting

GENERAL INFORMATION

We refer to the valid workshop instruction, Electric Circuit Diagrams, for the roller concerned and to the instruction W-1029, Electrical Principles, with reference to:

- X** Safety Regulations.
- X** General electrical fault finding.
- X** Battery testing and charging.
- X** Charging system and testing.
- X** Starting system and testing.

TROUBLE SHOOTING

1. Ignition warning light remains illuminated with engine running

- Alternator drivebelt broken, worn, or incorrectly adjusted.
- Alternator brushes worn, sticking, or dirty.
- Alternator brush springs weak or broken.
- Internal fault in alternator or voltage regulator.
- Broken, disconnected, or loose wiring in charging circuit.

Ignition warning light fails to come on

- Warning light bulb blown.
- Broken, disconnected, or loose wiring in warning light circuit.
- Alternator faulty.

2. Lights inoperative

- Bulb blown.
- Corrosion of bulb or bulbholder contacts.
- Blown fuse.
- Faulty relay.
- Broken, loose, or disconnected wiring.
- Faulty switch.

Trouble Shooting

3. Instrument readings inaccurate or erratic

Instrument readings increase with engine speed

- Faulty voltage regulator.

Gauges, water tank level, fuel, engine temperature, hydraulic oil temperature and voltmeter, speedometer and tachometer/ frequencymeter give no reading

- Faulty sender unit.
- Wiring open-circuit .
- Faulty gauge or meter.

Gauges, water tank level, fuel level, engine temperature, hydraulic oil temperature and voltmeter, speedometer and tachometer/ frequencymeter give continuous maximum reading

- Faulty sender unit.
- Wiring open-circuit.
- Faulty gauge or meter.

4. Display panel reading inaccurate or errative

- Bulb or LED (Light Emiting Diode) blown.
- Corrosion of bulb or bulb holder contacts.
- Blown fuse.
- Faulty relay.
- Broken, loose or disconnected wiring.
- Faulty switch, gauge, sender, starter, battery, alternator solenoid.
- Faulty printed circuit card or faulty soldered joint.

5. Horn, buzzer and brake alarm inoperative or unsatisfactory in operation

Horn, buzzer and brake alarm operates all the time

- Horn push either earthed or stuck down.
- Micro switch earthed or wrong adjusted.
- Cable earthed or wrong adjusted.

Trouble Shooting

Horn, buzzer and brake alarm fails to operate

- Blown fuse.
- Cable or cable connections loose, broken or disconnected.
- Faulty horn, buzzer or brake alarm device.
- Micro switch faulty.

Horn, buzzer and brake alarm emits intermittent or unsatisfactory sound

- Cable connections loose.
- Horn buzzer or brake alarm device mountings loose.
- Faulty horn, buzzer or brake alarm device.

6. Windscreen wipers inoperative or unsatisfactory in operation

Wiper fails to operate or operates very slowly

- Wiper blades stuck to screen or linkage seized or binding.
- Blown fuse.
- Cable or cable connections loose, broken or disconnected.
- Faulty relay.
- Faulty wiper motor.

Wiper blades sweep over too large or too small an area of the glass

- Wiper arms incorrectly positioned on spindles.
- Excessive wear of wiper linkage.
- Wiper motor or linkage mountings loose or insecure.

Wiper blades fail to clean the glass effectively

- Wiper blade rubbers worn or perished.
- Wiper arm tension springs broken or arm pivots seized.
- Insufficient windscreen washer additive to adequately remove road film.

7. Windscreen washers inoperative or unsatisfactory in operation

One or more washer jets inoperative

- Blocked washer jet.
- Disconnected, kinked or restricted fluid hose.
- Insufficient fluid in washer reservoir.

Trouble Shooting

Washer pump fails to operate

- Broken or disconnected wiring or connections.
- Blown fuse.
- Faulty washer switch.
- Faulty washer pump.
- Contamination.

Washer pump runs for some time before fluid is emitted from jets

- Faulty one-way valve in fluid supply hose.

8. Brakes inoperative or fails to be released

- Faulty brake indikator.
- Faulty solenoid, brake valve.
- Faulty VBS-relay.
- Faulty emergency brake switch.
- Broken or disconnected wiring or connections.
- Blown fuse.
- Contamination in brake valve.
- Faulty brakes.

9. Offset drums joy stick, pivotal steering, inoperative or unsatisfactory in operation

- Blown fuse.
- Broken or disconnected wiring or connections.
- Faulty steering switch, articulated - pivot steering.
- Faulty pivot indication or micro switch.
- Faulty solenoid.
- Faulty steering manipulation.

10. Offset drums joy stick steering, articulated steering, inoperative or unsatisfactory in operation

- Blown fuse.
- Broken or disconnected wiring or connections.
- Faulty steering switch, articulated - pivot steering.
- Faulty solenoids.
- Faulty steering manipulation.

Trouble Shooting

11. Vibration, high amplitude low frequency or low amplitude high frequency, inoperative or unsatisfactory in operation.

- Blown fuse.
- Broken or disconnected wiring or connections.
- Faulty switch-vibration, manual-off-automatic.
- Faulty switch rear-both-front.
- Faulty micro switch AVC.
- Faulty vibration on-off.
- Faulty VBS-relay, see section 12.
- Faulty AVC-relay.
- Faulty amplitude selector switch low - high amplitude (high - low frequency).
- Faulty solenoid.

12. VBS-relay inoperative

- See workshop instructions, W-1033-EN.

13. Sprinkler circuit, manual or automatic for standard and combi version, inoperative or unsatisfactory

One or more nozzles inoperative

- Blocked nozzle.
- Blocked tank breathing.
- Disconnected, blocked or restricted fluid hose.
- Insufficient fluid in water tank.
- Contaminated strainer before pump or nozzle.

Water pump fails to operate

- Broken or disconnected wiring or connections.
- Blown fuse.
- Faulty switch, man-off-auto or sprinkler combi.
- Faulty neutral switch relay (at automatic mode).
- Faulty sprinkler relay or sprinkler timer relay.
- Faulty sprinkler timer switch when valid.
- Faulty water pump.
- Contamination.