

HOW TO CORRECTLY INSTALL A SERVICE TRACKER

1. PURPOSE

To ensure correct installation of a Service Tracker (ST-50).

2. RESPONSIBILITIES

Installer

3. INSTRUCTIONS

1. Prior to Installation

1. Turn off motor.
2. Then turn off master, if so equipped.

2. Wire Color

RED – A positive 12V-24V DC source (e.g., battery, starter, alternator)

BLACK – A good battery side of master switch ground (e.g., battery, or battery side of master switch).

GREEN – A chassis ground (e.g., frame, body, engine or frame side of master switch).

YELLOW – A positive 12V-28V power source that **ONLY** has voltage while machine is running (e.g., alternator “R” terminal, machine’s hour meter).

7.0 volts is the minimum “motor run” (starts the Service Tracker counting hours).

3. Three check method (Operational Verification Test)

1. With the engine off, and the master switch OFF – it should have a slow pulse* for 30 minutes. Then turn off.
2. With the engine off, and the master switch ON – it should have a slow-pulse* for 30 minutes. Then turn off.
3. With the engine ON, and the master switch ON – it should have a fast-pulse** until the engine is turned off. Then goes to a slow-pulse** for 30 minutes before turning off.

* *SLOW PULSE - LED flashes once every four seconds*

** *FAST PULSE - LED flashes once every two seconds*

4. Diagnosis

1. If motor is OFF, master is ON and there is a fast-pulse** - check the yellow wire connection (wrong place).
2. If motor is ON, master is ON, and there is a slow-pulse* - there is a yellow or green wire connection problem.
3. If the Service Tracker will not turn on or wake, check the red wire or the fuse. Use multimeter and check the red and black wires at the Service Tracker. If there isn't 12V or 24V, it's a red or black wire problem.
4. If the motor is OFF, and the master switch is OFF, and there is fast-pulse** - separate the green and black wires and put the green to a chassis ground.
5. Make sure you don't split the batteries when they are jumped (e.g., two 12V batteries to get 24V).

5. Completion

1. Observe the Service Tracker

1. If the alert light flashes on a one second interval, then it is counting hours.
2. If the alert light flashes on a three second interval, then it is NOT counting hours.

4. CAUTION

1. Get machine frame voltage (e.g., positive ground or negative ground).
2. Always be aware of moving parts. Give adequate slack in wires. Zip-tie everything, never leave anything hanging.
3. Watch out for turbos and exhaust as they will burn or melt the wires.
4. When mounting Service Trackers, watch out for compartments that open, especially bob cats or other skid steers where the radiator assembly lifts up, so leave slack in wires to the Service Tracker.
5. Know what you are drilling into BEFORE drilling (e.g., radiator, hydraulic tank, and fuse box).
6. Always yell "CLEAR" and wait for a response before starting machine (e.g., dozer tracks, articulate steer vehicles)
7. Never sit on tires, tracks, or moving parts, when starting a machine.
8. Always lower all attachments to the ground BEFORE shutting down the motor (e.g., dozer blade, backhoe bucket, and scraper belly).

5. TOOLS & GAUGES

6. REFERENCES –

7. RECORDS –

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