

B6 Starter Draw Test For 570

Test battery before performing this test.

Disconnect and ground ignition coil wire.

Engage park brake.

Travel levers must be in neutral.



M47027 -UN-08JAN90

IMPORTANT: Turn load knob (A) fully counterclockwise before connecting to battery.

Connect JTO5685 Battery Tester to battery.

Crank engine and read voltage on meter.

Check engine rpm with JTO28201 or JTO1638 Photo Tachometer.

Turn key switch OFF. Adjust load knob on tester to get same voltage as when cranking.

Read amperage on meter.

350 AMPS OR LESS, RPM LESS THAN 340: GO TO B6

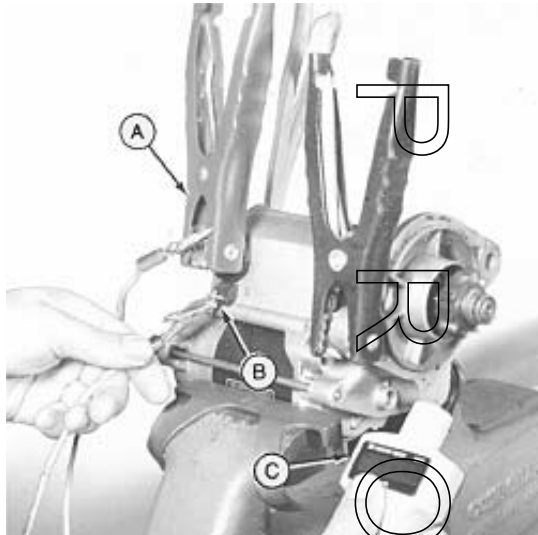
350 AMPS OR LESS AT 230 RPM: Starter OK.

MORE THAN 350 AMPS: Hydraulic pump lever must be disengaged, then... GO TO B7

M21,24010U,24 -19-16DEC86

240
10
8

B7 Starter No-Load RPM Test For 570



M47028 -UN-08JAN90

Mount starter in a vise. Use jumper cables to connect starter to machine battery or one of similar capacity.

Connect positive clamp to common terminal (A) and negative clamp to starter body.

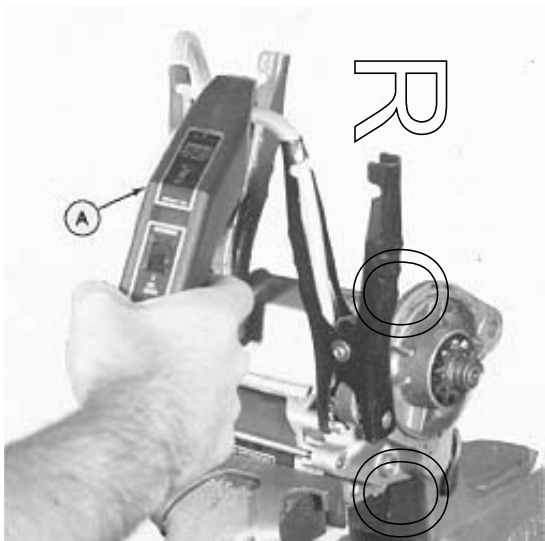
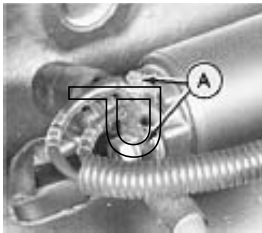

Connect jumper wire (B) from positive clamp to solenoid terminal.

Measure No-load rpm with D-05011ST Tachometer or photo tachometer (C).

RPM ABOUT 5500: GO TO B8

RPM LESS THAN 5500: Battery must be of proper capacity and fully charged. Repeat test as needed with fully charged battery. Repair or replace starter. See Section 40 or CTM-3.

M21,24010U,25 -19-16DEC86

<div>B8</div> <div>Starter No-Load Amperage Test For 570</div>	<div></div> <div>M47029 -UN-08JAN90</div>	<div>Mount starter in a vise and connect jumper cables as instructed in Step B6.</div> <div>With starter running, check amperage with JTO5712 Current Gun (A).</div> <div>Starter should draw 100 amps or less at 5500 rpm.</div>	<div>100 AMPS OR LESS: Starter OK. Malfunction is in wiring on machine. Check ground connections. Binding internal engine components could also be causing drag. Disassemble and inspect engine as needed. See Section 20.</div> <div>MORE THAN 100 AMPS: Repair or replace starter.</div> <div>M21,24010U,26 -19-20NOV86</div>
<div>C</div> <div>STARTING CIRCUIT TEST FOR 575</div>	<div>The 575 starting circuit consists of battery, starter with solenoid, 15-amp circuit breaker, starter relay and key switch. Turning the key to start sends current to switch the relay. Switching the relay sends current to the solenoid which allows battery current to run the starter.</div> <div>If any electrical components operate, the key switch is probably OK, check it last.</div>	<div>PERFORM APPROPRIATE TESTS, THEN REPEAT CHECKOUT PROCEDURE IN GROUP 05.</div> <div>M21,24010U,27 -19-31OCT86</div>	
<div>C1</div> <div>Starting Motor Test</div> <div>If starter motor runs, but does not crank engine, remove and repair starter. See CTM-3.</div>	<div>Engage park brake.</div> <div>Put control levers in neutral.</div> <div>Disconnect fuel shutoff solenoid wiring.</div>	<div></div> <div>M47030 -UN-08JAN90</div> <div>Use jumper wire to briefly jump across the solenoid terminals (A).</div>	<div>STARTER RUNS: Problem is in circuit wiring. Reconnect starter, then.... GO TO C3</div> <div>STARTER DOES NOT RUN: GO TO C2</div> <div>M21,24010U,28 -19-16DEC86</div>
<div>C2</div> <div>Starter Solenoid Test</div>	<div>Park brake ON.</div> <div>Control levers in neutral.</div> <div>Fuel shutoff solenoid disconnected.</div>	<div></div> <div>M47031 -UN-08JAN90</div> <div>Briefly jump across the two large starter terminals (A).</div>	<div>STARTER RUNS: Replace solenoid.</div> <div>STARTER DOES NOT RUN: Disassemble, inspect and repair starter. See CTM-3.</div> <div>M21,24010U,29 -19-16DEC86</div>