

Tractor no response with Ignition Key ON

DOCUMENT #
SOP20

AUTHOR
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REVISION
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APPLIES TO
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DATE
Jul 11, 2026

JOB CODES:

Safety switch replacement (seat/PTO/neutral)

ELC-008 —

Total: 2.25 hrs

▲ FAILURE MODE / WHEN TO USE THIS SOP

When turned the Ignition Key ON, Tractor does not respond. No Cranking

✂ TOOLS REQUIRED

- 10 mm wrench
- Multimeter
- Screw driver Flat
- Screw Driver Philips

EST. REPAIR TIME

1 hr
hours

Intermediate

⚙ PARTS REQUIRED

Part #	Description	Assembly	SKU	Price
10055128AA	MAINTENANCE FREE BATTERY 12V,	ELECTRICALS	10055128AA	\$431.82
10029943BC	STARTER SWITCH	ELECTRICALS	10029943BC	\$21.11
10017954AA	MAIN RELAY-CRDI-75	ELECTRICALS	10017954AA	\$11.11
Electrical tape	Electrical tape	Shop Stock	—	—
—	Copper wire (thin) for bridging	Shop Stock	—	—

☰ PROCEDURE

1 Step 1



Figure 1

After checking levers (High Low Lever in neutral, PTO in rear) and brake pedal is pressed, Check Battery condition and battery symbol on dash. If the symbol on dash is dim, it indicates weak battery. Check voltage on terminals. It should be over 11.2V. If less, please clean the terminals and charge the battery.

2 Step 2





Figure 2

If battery voltage is OK, Check if the main relay is getting activated. Try hearing the click noise when the key is turned on. Clean its terminal and place it back

3 Step 3



Figure 3

Remove the micro relays on side of coolant tank and clean them. Re-insert them back. Try strating the tractor

4 Step 4



Figure 4

Check the brake pedal switch functioning. Press the brake pedal with key ON and check if the rear tail light illuminates. If no, the brake switch may be faulty. It is located under the brake pedal under the floor.

5 Step 5



Figure 5

There are 3 safety switches - Seat switch, Neutral safety switch and PTO switch which may not be activating the starting circuit. Use a small copper wire to bridge the coupler. This should bypass the safety switch. Try starting the tractor.

6 Step 6

Repeat this process for PTO safety switch (Can be accessed from rear side of tractor. It is located below the ROPS base on top of transmission housing at base of PTO lever. Carry out same process of bridging each coupler for Seat switch and Neutral safety switch. The neutral safety switch need the plastic cover under driver seat taken off for access.

7 Step 7

After bridging seat safety switch (one at a time), PTO switch and Neutral safety switch Try starting the tractor. If Tractor starts, that specific switch may be faulty.

8 Step 8

Even after these procedure, tractor does not start, the starter switch may be faulty which needs replacement. Visit your nearest dealer for further fault diagnosis.



NEED ASSISTANCE?

Contact **Summit Tractor Service** at (770) 209-3390, Option 2 or email service@summittractors.com