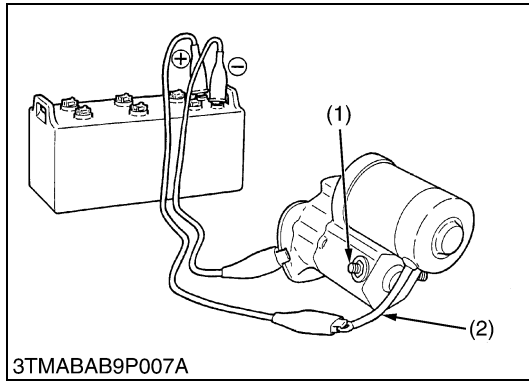


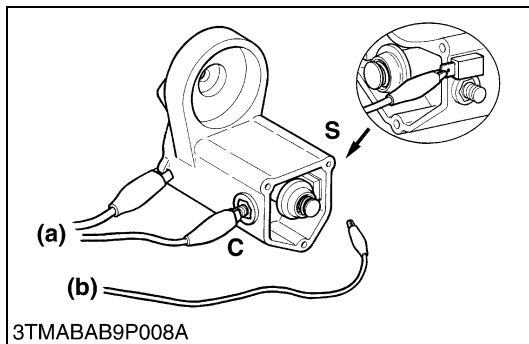
(B) Starter**Motor Test****CAUTION**

- **Secure the starter to prevent it from jumping up and down while testing the motor.**
1. Disconnect the battery negative cable from the battery.
 2. Disconnect the battery positive cable and the leads from the starter.
 3. Remove the starter from the engine.
 4. Disconnect the connecting lead (2) from the starter **C** terminal (1).
 5. Connect a jumper lead from the connecting lead (2) to the battery positive terminal post.
 6. Connect a jumper lead momentarily between the starter motor housing and the battery negative terminal post.
 7. If the motor does not run, check the motor.

(1) **C** Terminal

(2) Connecting Lead

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**Magnet Switch Test (Pull-in, Holding Coils)**

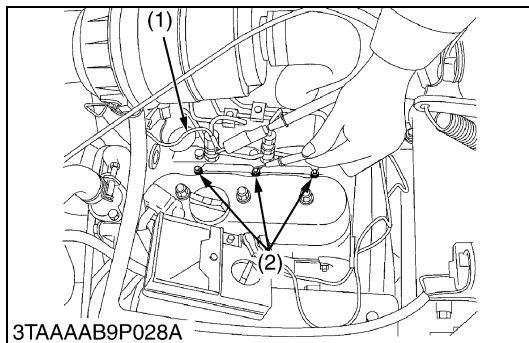
1. Remove the motor from the starter housing.
2. Prepare a 6 V battery for the test.
3. Connect jumper leads from the battery negative terminal to the housing and the starter **C** terminal.
4. The plunger should be attracted and the pinion gear should pop out when a jumper lead is connected from the battery positive terminal to the **S** terminal. It's a correct.
5. Disconnect the jumper lead to the starter **C** terminal. Then the pinion gear should remain popped out. It's a correct.

■ IMPORTANT

- **Testing time must be 3 to 5 sec..**

C : **C** Terminal**(a)** To Negative Terminal**S** : **S** Terminal**(b)** To Positive Terminal

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(C) Glow Plug**Lead Terminal Voltage**

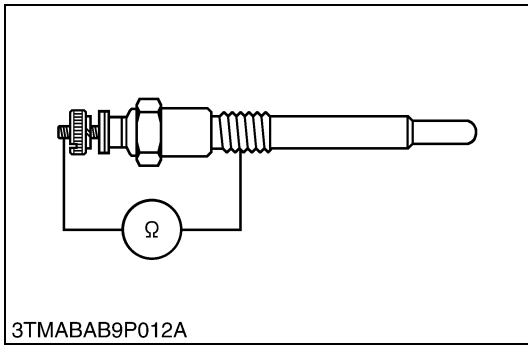
1. Disconnect the wiring lead (1) from the glow plug (2) after turning the main switch off.
2. Turn the main switch key to the "**PREHEAT**" position, and measure the voltage between the lead terminal and the chassis.
3. Turn the main switch key to the "**START**" position, and measure the voltage with a voltmeter between the lead terminal and the chassis.
4. If the voltage at either position differs from the battery voltage, the wiring harness or main switch is faulty.

Voltage (Lead terminal – Chassis)	Main switch key at " PREHEAT "	Approx. battery voltage
	Main switch key at " START "	Approx. battery voltage

(1) Wiring Lead (Positive)

(2) Glow Plug

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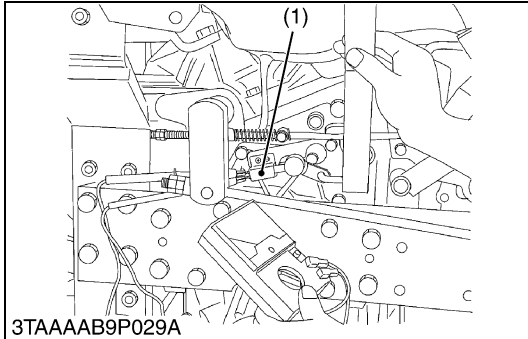
Glow Plug Continuity

1. Disconnect the lead from the glow plugs.
2. Measure the resistance with an ohmmeter between the glow plug terminal and the chassis.
3. If 0 ohm is indicated, the screw at the tip of the glow plug and the housing are short-circuited.
4. If the factory specification is not indicated, the glow plug is faulty.

Glow plug resistance	Factory spec.	Approx. 0.9 Ω
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(D) Safety Switch



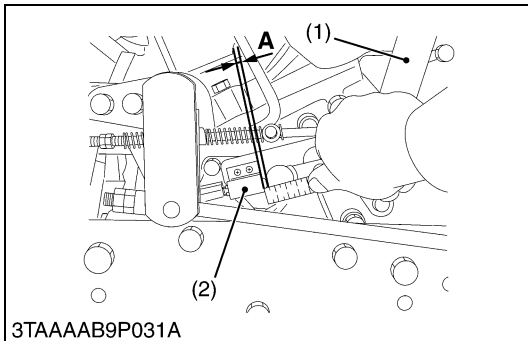
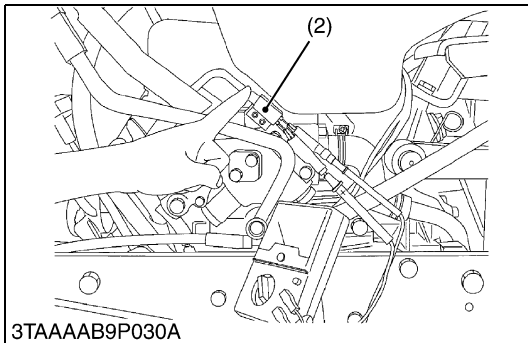
Safety Switch Continuity

1. Remove the rear wheels.
2. Remove the safety switch leads.
3. Connect the circuit tester to the safety switch leads.
4. Measure the resistance between leads.
5. If the safety switch is defective, replace it.

Resistance (Across switch terminal)	When switch push is pushed	0 Ω
	When switch push is released	Infinity

- (1) Safety Switch for Range Gear Shift Lever (2) Safety Switch for PTO Clutch Lever

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Safety Switch Distance

1. Remove the rear wheels.
2. Set the range gear shift lever to “Neutral” position and PTO clutch lever to “Disengaged” position.
3. Measure the distance **A**.
4. If the measurement is not within the factory specifications, adjust the distance **A** by moving the safety switch mounting location.

Safety switch distance “A”	Factory spec.	3 to 5 mm 0.118 to 0.197 in.
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- (1) Range Gear Shift Lever
(2) Safety Switch
(3) PTO Clutch Lever
(4) Safety Switch

A : Distance

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