

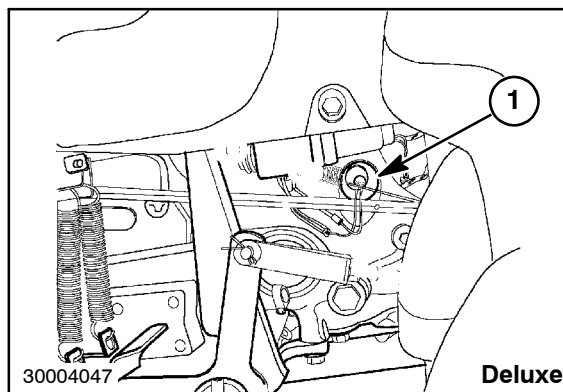
## Op. 55 408

## TRANSMISSION RANGE SAFETY SWITCH

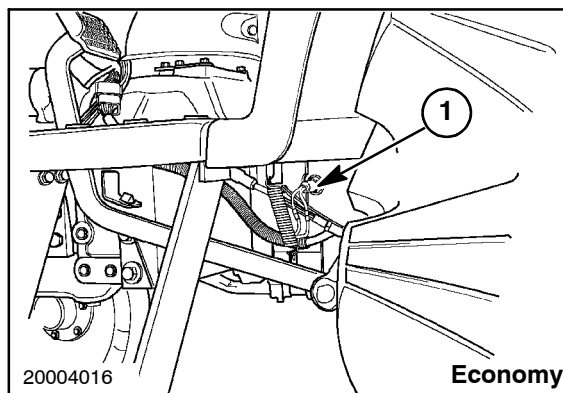
**Description (Deluxe & Economy)**

The transmission range safety switch, 1, is a single-pole, push-button type switch located underneath the left side operator's platform. When the transmission is in high or low range, the contacts in the switch are open, not allowing the tractor to start. When the transmission is in the neutral range position, the contacts in the switch are closed completing the circuit. This allows the tractor to start.

**NOTE:** The transmission range safety switch may be tested for continuity without removing the switch from the tractor, but it is recommended that the switch be removed for testing. Follow the same test procedure outline when the switch is removed from the tractor.



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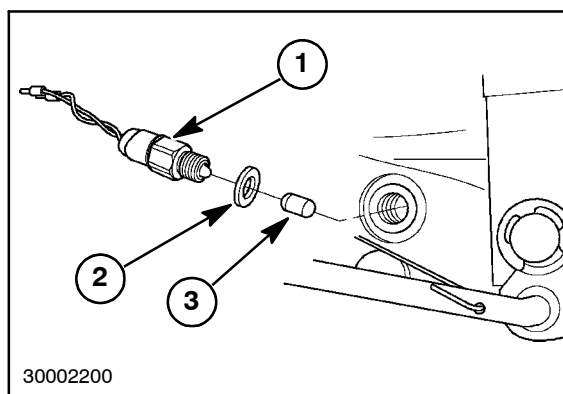


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**Removal (Deluxe & Economy)**

1. Raise the tractor engine cover.
2. Disconnect the negative (-) battery cable from the negative (-) battery terminal.
3. Disconnect the transmission range safety switch leads from the wiring harness.
4. Remove the transmission range safety switch, 1, with the rubber washer, 2, from the transmission case.

**NOTE:** The HST range shift rail, (Deluxe) and the 12 x 12 shuttle shift rail, (Economy), operate the transmission range safety switch. Grooves in the shift rails accept the balk pin, extending the plunger in the safety switch, when the range or shuttle control levers are in neutral. This completes the circuit, allowing the tractor to start.



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5. Use a pencil magnet to remove the balk pin, 3, from the transmission range safety switch hole in the transmission case. Inspect the balk pin, 3, for damage.

**TRANSMISSION RANGE SAFETY SWITCH****TESTING (Deluxe & Economy)**

Use an ohmmeter to test both of the positions of the transmission range safety switch for electrical continuity.

**Extended Position**

1. With the transmission range safety switch in the "extended" position, touch one of the test probes to the one switch lead. Touch the other test probe to the other switch lead.
2. Observe the ohmmeter. The ohmmeter should show little or no resistance indicating that continuity exists between the two leads. If continuity does not exist, the switch is defective and needs replaced.

**Retracted Position (Not Shown)**

3. Using an ohmmeter, continuity should not exist between the two leads. If continuity exists between the two leads while the switch is in the "retracted" position, the switch is defective and needs replaced.

**Installation (Deluxe & Economy)**

1. Insert the balk pin, 3, into the transmission range safety switch hole in the transmission case.
2. Install the transmission range safety switch, 1, with the rubber washer, 2, into the transmission case.
3. Connect the wiring harness to the transmission range safety switch leads.
4. Connect the negative (-) batter cable to the negative (-) battery terminal.
5. Lower the tractor engine cover.

