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8455/8465 Round Baler with Tractor Hydraulics

Operators Manual

9-22858

Reprinted

CASE IH

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SAFETY PRECAUTIONS

Safety Information

Understand that your safety and the safety of other persons is measured by how you service and operate this machine. Know the positions and operations of all controls before you try to operate this machine. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this machine and your power unit before you start to operate the machine.

The safety information given in this manual does not replace safety codes, insurance needs, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.



THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

Read and understand all operating instructions and precautions before attempting to operate the machine.

Before doing any maintenance or service work on the machine, you must:

- Park the machine on a solid level surface.
- Close the tailgate.
- Disengage the PTO.
- Put the tractor transmission in PARK or apply the tractor parking brake.
- Turn off the baler control console.
- Stop the tractor engine and take the key with you.
- Put the tractor remote valve in the NEUTRAL position.
- Push the tailgate lockout valve in to the LOCK position.
- Look and Listen! Make sure all moving parts have stopped.

Always disengage PTO, have baler control power switch in OFF position, and shut off engine before:

1. leaving tractor seat
2. lubricating
3. cleaning the machine
4. adjusting the machine.

All shields and guards must be in position before operating the machine.

When moving bales, never use a tractor front-end loader that is not equipped with a grapple to prevent the bale from rolling down the loader frame onto the operator. If a front-end loader is used, always keep the load close to the ground to avoid off-balancing the tractor.

Never unload or store bales where bales can roll downhill.

Always operate the baler with the baler control power switch in the ON position.

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SPECIFICATIONS

(Specifications and design are subject to change without notice and without liability therefore.)

WEIGHTS AND DIMENSIONS

Weight (approximate), without optional mesh wrap
- 8455 ..... 4800 LB (2177 kg)
- 8465 ..... 5250 LB (2381 kg)

Weight (approximate), with optional mesh wrap
- 8455 ..... 5300 LB (2406 kg)
- 8465 ..... 5800 LB (2633 kg)

Tongue weight (empty), without optional mesh wrap
- 8455 ..... 750 LB (340 kg)
- 8465 ..... 800 LB (363 kg)

Tongue weight (empty), with optional mesh wrap
- 8455 ..... 690 LB (312 kg)
- 8465 ..... 750 LB (341 kg)

Length (overall)
- without optional mesh wrap .. 159.2 IN (4044 mm)
- with optional mesh wrap ..... 174.3 IN (4427 mm)

Height (overall) ..... 112.5 IN (2857 mm)

Width (overall)
- 8455 ..... 95.87 IN (2435 mm)
- 8465 ..... 110.87 IN (2816 mm)

BALE SIZE

Bale diameter (minimum)
- 8455 ..... 50 IN (1219 mm)
- 8465 ..... 50 IN (1372 mm)

Bale diameter (maximum) ..... 75 IN (1905 mm)

Bale width
- 8455 ..... 46.5 IN (1181 mm)
- 8465 ..... 61.5 IN (1562 mm)

Bale weight (approximate*)
- 8455 ..... up to 1650 LB (748 kg)
- 8465 ..... up to 2200 LB (998 kg)

Bale density (average*) ..... 11 LB·FT^3 (176 kg/m^3)

Capacity (approximate*)
- 8455 ..... up to 22 ton/hr
- 8465 ..... up to 26 ton/hr

**Depends on crop and moisture conditions*

BALE CHAMBER

Width of chamber
- 8455 ..... 46.5 IN (1181 mm)
- 8465 ..... 61.5 IN (1562 mm)

Number of belts
- 8455 6
- 8465 8

Belt width ..... 7 IN (178 mm)

Belt length ..... 562.5 IN (14 287 mm)

Number of bale forming rolls 14

Type of rolls ..... steel

Bale overfill protection ..... yes

Bale size indicator ..... yes

Full bale alarm ..... yes

Powered rienks
- 8455 7
- 8465 9

TIRES

Tire size ..... 31x13.5x8 ply Terra Rib
- tire pressure ..... 35 psi (2.4 bar)

Wheel bolt size 9/16-18
- torque ..... 120 LB·FT (165 N·m)

DRIVES

PTO speed ..... 540 rpm (r/min)
- optional conversion ..... 1000 rpm (r/min)

Gearbox output shaft ..... 730 rpm (r/min)

Forming belts ..... 2 drives, chain

Pickup ..... belt and chain

PICKUP

Width, gathering
- 8455 ..... 58.27 IN (1480 mm)
- 8465 ..... 73.23 IN (1860 mm)

Width, tine to tine
- 8455 ..... 44.2 IN (1122 mm)
- 8465 ..... 59.8 IN (1518 mm)

Number of bars 4

Number and type of tines
- 8455 ..... 36, double
- 8465 ..... 48, double

Tine control ..... cam track

Windguard ..... standard

BALE WRAPPING MECHANISM

Type ..... twine
- optional system ..... mesh

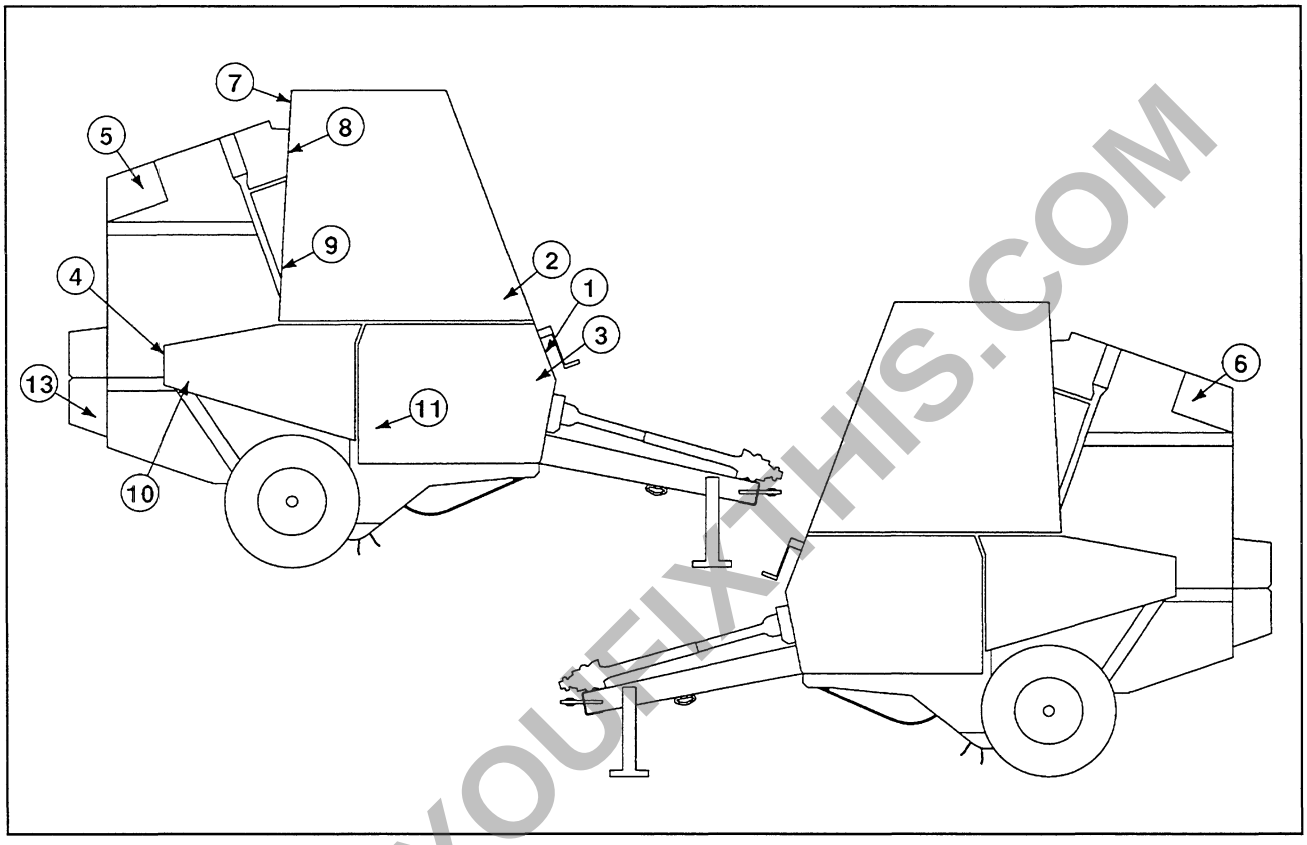
Number of twine balls 4

Type of twine ..... plastic or sisal

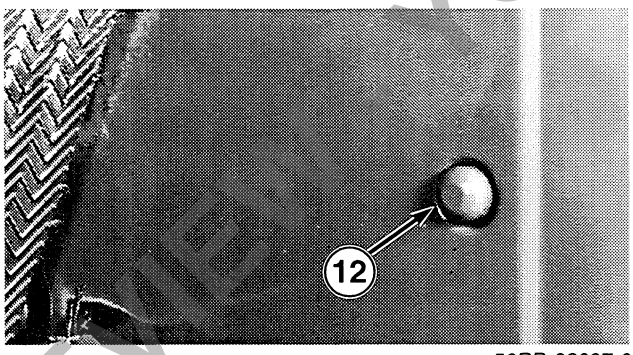
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LOCATION AND IDENTIFICATION OF SWITCHES



L92A-0192



56RB-92097-6

1. Twine Arm Switch
2. Bale Size Switch
3. Twine Indicator Switches (2)
4. Ejector Out Switch
5. Right Bale Shape Sensor
6. Left Bale Shape Sensor
7. Gate Up Switch
8. Ejector In Switch
9. Gate Down Switch
10. Ejector Home Switch
11. Bale Out Switch
12. Bale In Plunger for Bale Out Switch
13. Mesh Running Switch for Optional Mesh Wrap

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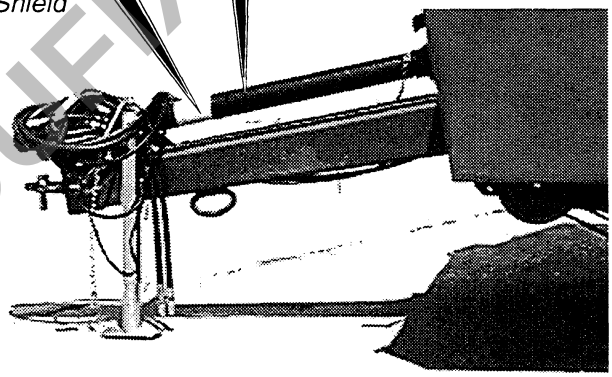
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Installed on Outer Shield

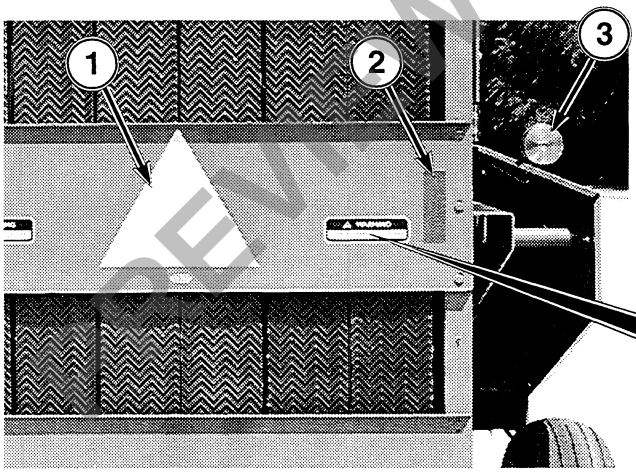


Installed on Inner Shield



55RB-87112-6

BALER IMPLEMENT DRIVE LINE (IDL)



55RB-87108-8



REAR OF BALER

1. Slow Moving Vehicle Emblem
2. Red Reflectors (2)
3. Warning Lights (available as Extra Equipment)

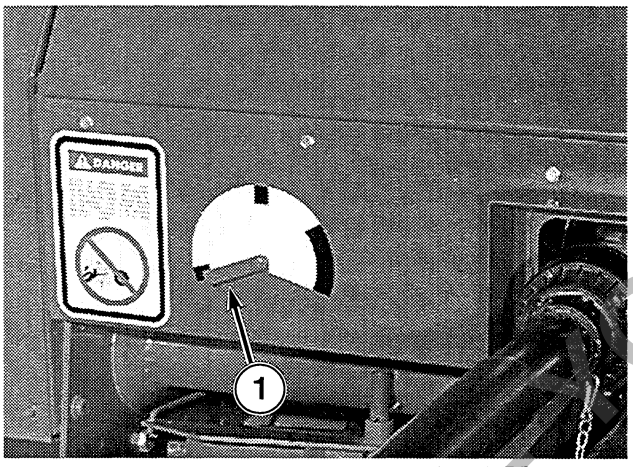
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BALING PROCEDURE IN THE MANUAL MODE

Making the Bale

1. To operate the baler manually, when the Full Bale light flashes and alarm sounds, make any necessary corrections to the bale shape. Then put the MANUAL switch in the ON position, and stop forward motion. With the MANUAL switch ON, the operator has full control of the ejector and twine solenoids.

2. Put the manual TWINE switch in the OUT (upward) position, then move and hold the tractor hydraulic lever in the direction which will send the twine arm out to the left. The twine arm indicator needle will move clockwise as the twine arm moves out to the left.



56RB-95004-3a

1. Twine Arm Indicator Needle (5-FT baler shown)

Wrapping the Bale with Twine

When the twine arm indicator needle stops, put the manual TWINE switch in the HOME (downward) position.

NOTE: DO NOT move the tractor hydraulic lever to change direction of the twine arm. Moving the tractor hydraulic lever at this point will raise the tailgate, and the bale will be unloaded without twine.

The twine arm will move from left to right, and the full bale alarm will stop sounding. When the twine arm indicator needle stops moving counterclockwise, the twine arm is home, and the twines are cut.

NOTE: If using hemp twine, disengage the PTO before raising the tailgate. If baling in damp hay conditions, disengage the PTO regardless of the type of twine used.

Wrapping the Bale with Mesh Wrap

See the Operator's Manual for the mesh wrap attachment.

Ejecting the Bale

1. Move and hold the tractor hydraulic lever in the opposite direction to raise the tailgate. When the tailgate has raised to the full up position, the bale will roll out of the bale chamber. Put the manual EJECTOR switch in the OUT (upward) position to extend the ejector, pushing the bale away from the tailgate.

NOTE: When using hemp twine, disengage the PTO after tying the bale and before raising the tailgate. If the PTO is not disengaged, hemp twine can be burned when contacting the rotating starting roller.

Under most conditions, it is not necessary to disengage the PTO when using plastic twine.

When baling damp hay, disengage the PTO before raising the tailgate regardless of the type of twine being used. In damp hay conditions the bale drags when moving out of the bale chamber. When the bale moves slowly, the twine can contact the rotating starting roller longer than normal and be damaged.

2. Move and hold the tractor hydraulic lever in the opposite direction to lower the tailgate. Put the manual EJECTOR switch in the IN (downward) position to retract the ejector.

3. When the ejector is in home position and the tailgate is completely closed, resume baling.

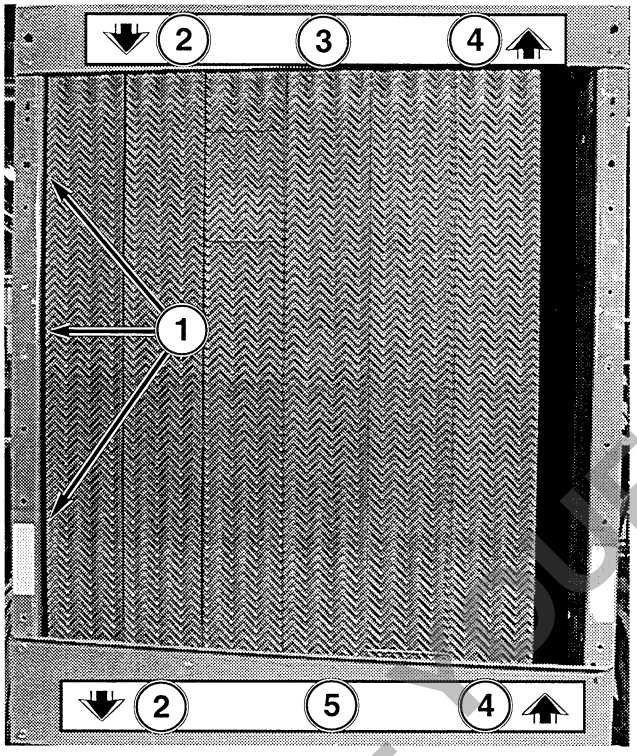
4. If the PTO was disengaged to raise the tailgate and unload the bale, engage the PTO.

IMPORTANT: There is no Error Checking while operating in the Manual mode.

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Rear of Baler - Forming Belts Tracking to One Side

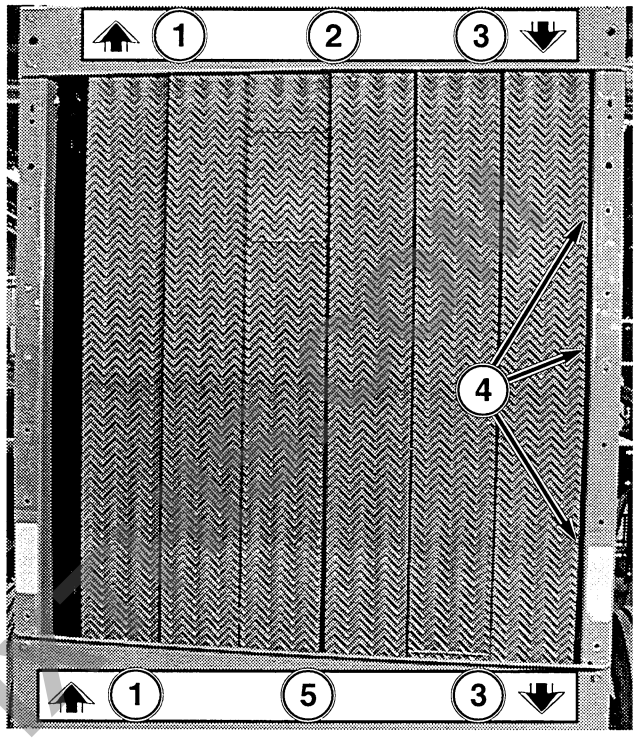
If all of the forming belts are tracking to one side, adjust both the top roller and bottom roller in the rear of the tailgate. Look at the photos to determine which direction to adjust the rollers.



146RB-95059-6

FORMING BELTS ALL TRACKING TO LEFT SIDE OF BALER

1. Gap too small
2. Lower
3. Top Roller
4. Raise
5. Bottom Roller



146RB-95059-9

FORMING BELTS ALL TRACKING TO RIGHT SIDE OF BALER

1. Raise
2. Top Roller
3. Lower
4. Gap too small
5. Bottom Roller

Before adjusting the rollers, release the tension on the drive belts. Open the belt tension release valve on the baler control valve to release the tension. Close the belt tension release valve.

Loosen the bolt in the end of the roller being adjusted. Loosen the bolt only 1/2 to 3/4 turn. Use a hammer to move the bolt in the adjusting slot. Tighten the bolt.

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DESCRIPTION

GENERAL INFORMATION

This section contains descriptive information concerning the machine and its components. This information supplements the instructions and information found in the "Operation" section and is presented to give a better understanding of the machine and its successful operation.

The round baler is a one-man haying system. It picks up a windrow and rolls the hay into a compressed round bale which can be unloaded where the bale is finished or transported to the storage area. The 4 FT baler will make a bale 46.5 IN (1181 mm) wide and up to 75 IN (1905 mm) in diameter. The 5 FT baler will make a bale 61.5 IN (1562 mm) wide and up to 75 IN (1905 mm) in diameter.

The baler is operated from a tractor with a 540 rpm PTO, but can be adapted to a 1000 rpm tractor. See Extra Equipment. A group of 7 IN wide belts rotate, form and compress the bale during bale forming by using a tractor hydraulic circuit to tension the bale compression system initially, together with the adjustable pressure relief of a tension valve on the baler. The tractor remote is also used to operate the twine arm together with an adjustable flow control valve on the baler. A four-bar folding tine pickup assembly picks up the windrow and feeds the crop into the baling chamber.

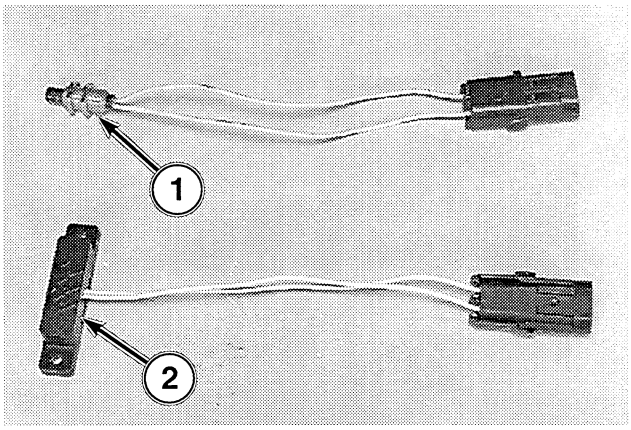
In the baling chamber, the windrowed crop contacts the chevron top forming belts which are moving upwards and carries the crop to the top of the chamber where the chamber sizing rollers force the hay to turn. The downward moving belts turn the crop downward against the starting roller which folds the crop rearward into the incoming crop. The core is started and begins to roll. As the core enlarges, the chamber sizing rollers place an increasing downward force against the bale. This force compresses the incoming crop as well as forms the bale. The increasing size of the bale forces the tension arms and sizing rollers upward as the bale enlarges. The chamber sizing rollers and the belt tightener rollers move upward, enlarging the bale chamber and furnishing more belt to encircle the growing bale.

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SWITCH TESTS

On the baler are 10 hermetically sealed reed switches and two rotary switches.



56RB-91035-12

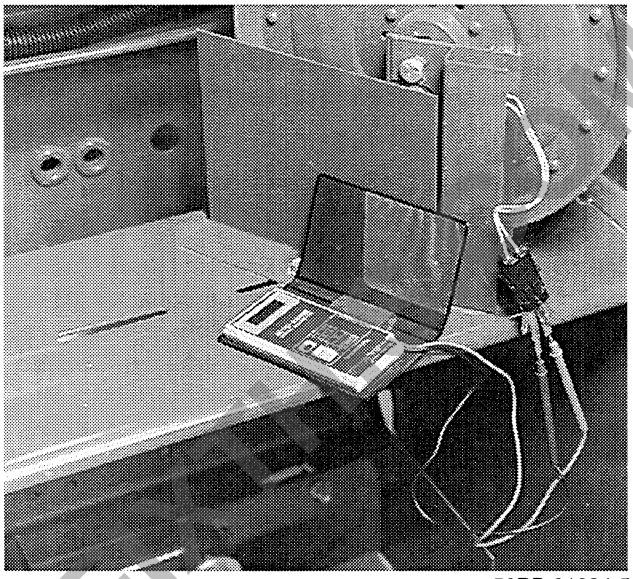
1. Round Style Switches (5) -- Bale Size, Twine, Twine Sensors (2), Bale Out
2. Bar Style Switches (5) -- Gate Up, Ejector In, Gate Down, Ejector Out, Ejector Home

Reed Switch

Disconnect the connector on the back of the baler control console. Connect the leads of the multimeter to the pin for the switch being tested and pin for the ground wire. See the Electrical System Chart for pin number identification. Set the multimeter to Continuity. With the switch closed, the multimeter must show continuity. With the switch open, the multimeter must show no continuity. Both conditions must be seen to determine that the switch and wiring are good.

To test the switch at the switch connector, disconnect the wire at the switch. Connect the leads of the multimeter to the connectors of the switch. Set the multimeter to Continuity, and activate the switch by placing a magnet in line with the switch. The multimeter must show continuity. Deactivate the switch by removing the magnet, or by placing a metal plate between the switch and the switch actuator. The multimeter must show no continuity. The switch must see both an open and closed state.

The ten reed switches on the baler are Contact Form "A" or "Normally Open" switches. Of these switches, five are round style, and five are bar style.



56RB-91034-5

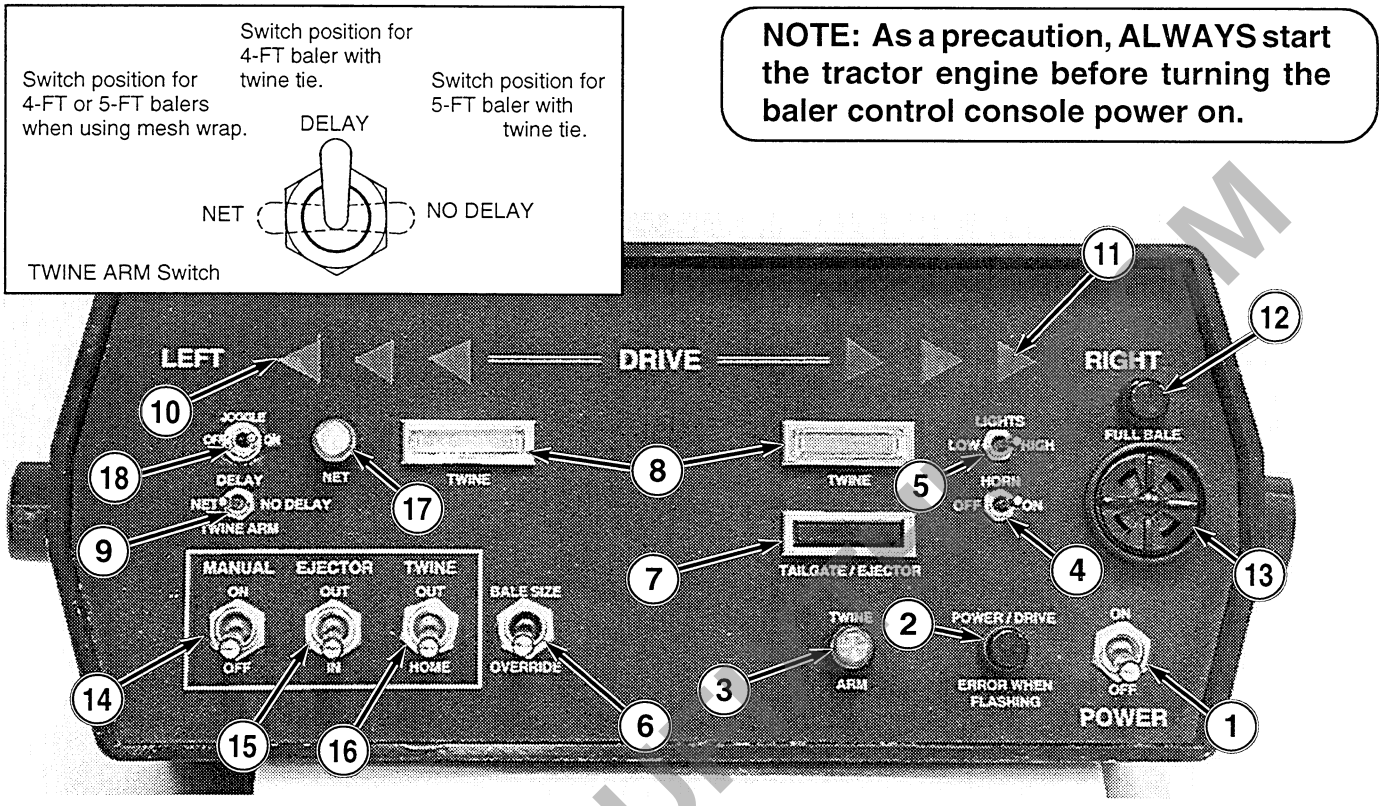
Switch Test with Multimeter Connected to Switch Connector

Rotary Switch

The bale shape switches are a rotary type switch. The bale shape switches are used to control the DRIVE lamps on the baler control console. The bale shape switches send a variable signal depending on the position of the arm of the bale shape switch. The bale shape switches monitor the tension of the two outside forming belts. When one side of the bale becomes larger than the other, the tension increases on the forming belt at that side of the baler. The DRIVE lamps illuminate to tell the operator which direction to move the baler over the windrow to make the bale even.

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56RB-93077-12b

1. POWER Switch
2. POWER / DRIVE Lamp (green): indicates power is on and system is ready for baling
3. TWINE ARM Lamp (amber): indicates twine arm is moving
4. HORN ON·OFF Switch
5. LIGHTS LOW·HIGH Switch: controls intensity of panel lamps
6. BALE SIZE OVERRIDE Switch: for finishing a bale less than full size
7. TAILGATE / EJECTOR Lamp (green): solid when tailgate is raising and ejector is going out, flashing when bale is dumped to tell the operator to lower the tailgate, and solid again when tailgate is lowering; lamp is off when tailgate is closed.
8. TWINE Lamps (amber): activated by left and right twine switches located on twine pulleys, indicate twine is flowing
9. TWINE ARM Switch: has two positions for twine application and one for Net application; DELAY position holds twine arm in out position for 4 seconds to add additional twine to left end of bale (used with 4 foot baler only); in NO DELAY position twine arm is not held in out position (used with 5 foot baler only); NET position is used for applying mesh when Mesh Wrap Attachment is installed
10. DRIVE LEFT Arrow Lamps (red, arrow shaped): instructs the operator to drive left to fill the right side of the baler
11. DRIVE RIGHT Arrow Lamps (red, arrow shaped): instructs the operator to drive right to fill the left side of the baler
12. FULL BALE Lamp (red): bale size indicator
13. Audible Alarm: with adjustable sound control, alerts the operator to the various functions of the baler control console
14. MANUAL Switch: in ON position baler control console operates in manual mode; in OFF position baler control console operates in automatic mode
15. EJECTOR Switch: controls the ejector solenoid valve when MANUAL switch is in ON position
16. TWINE Switch: controls the threader solenoid valve when MANUAL switch is in ON position
17. MESH Lamp (clear): activated by mesh running switch located on right end of mesh wrap attachment (if installed), indicates mesh is flowing
18. JOGGLE OFF·ON Switch: (Late Production Only) To add more twine wraps on the right-hand end of the bale when joggle is turned on; The joggle switch has no function when applying mesh

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