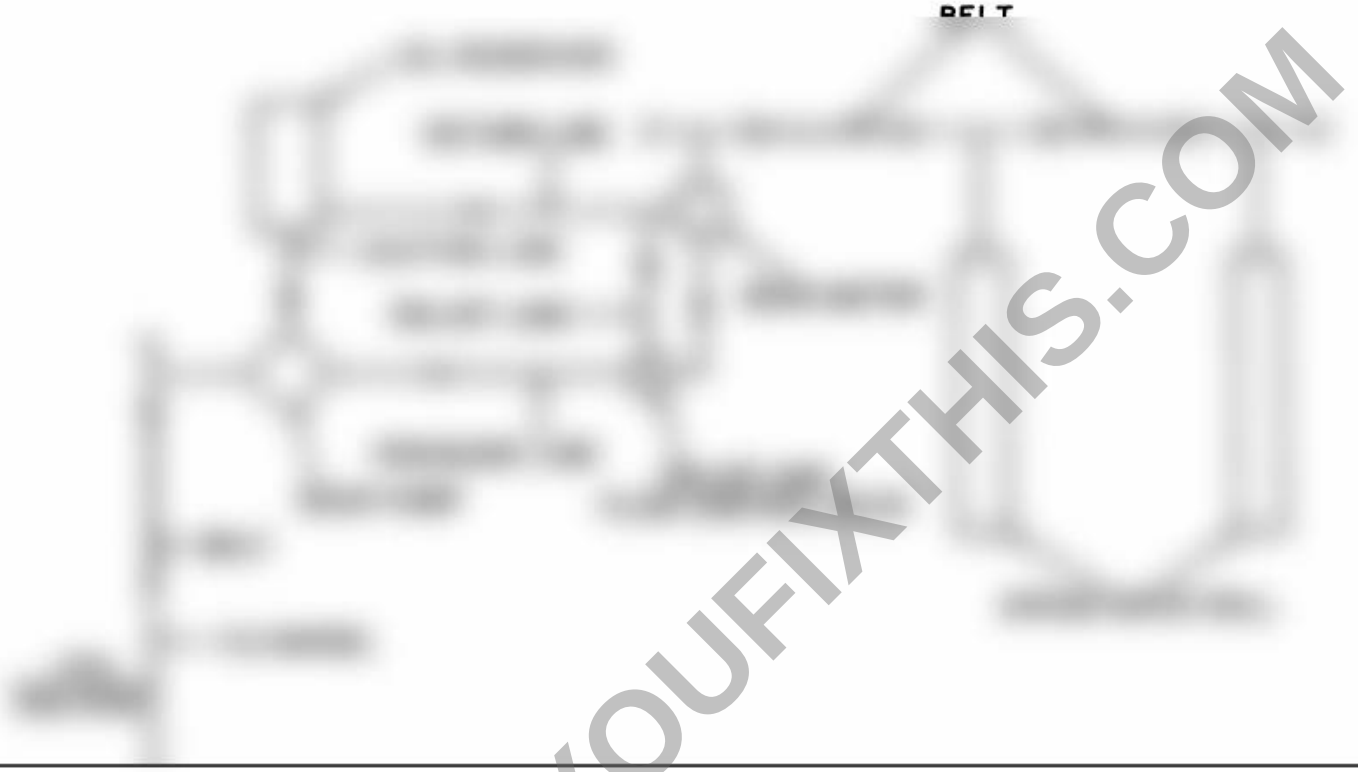
BELT-TYPE THROWERS

MODELS 70 AND 72



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TEST PROCEDURES

TESTING PRESSURE ONLY

1. Remove the 1/2″ NPT plug from the tee between the flow control valve and the motor.
2. Install a pressure gauge in the tee.
3. Lock the apron drive flywheel so it cannot rotate.
4. Operate the tractor PTO at 540 RPM. Check the pump speed and adjust the PTO to obtain a pump speed of 2193 RPM for the Model 72 or 1865 for the Model 70.
5. Relief valve bypass pressure should be 2900 PSI + 50 PSI. To adjust the pressure, remove the cap nut at the rear of the valve, use a 5/16″ allen wrench to turn the adjusting screw clockwise to increase the pressure or counterclockwise to lower the pressure. Recheck the pressure after reinstalling the cap nut.
6. Remove the pressure gauge and reinstall the 1/2″ NPT plug.

TESTING FLOW AND BYPASS PRESSURE

1. Remove the 1/2″ NPT plug from the tee, between the flow control valve and motor.
2. Install the flow rater inlet line in the tee, between the flow control valve and hydraulic motor. The return line from the flow rater should be inserted in the fill port of the reservoir.
3. Remove the quadrant-indicator low side stop bolt (1/4″).
4. Lock the thrower flywheel to keep it from rotating.
5. Set the flow control valve to full low position (beyond the stop bolt location).
6. Turn the flow rater bypass pressure valve fully counterclockwise.
7. Start the tractor, engage the PTO, and run at 540 RPM.
8. Check the pump speed and adjust the tractor throttle if necessary to obtain 2193 RPM for the Model 72 or 1865 RPM for the Model 70. The pump should be at this speed when under load. If unable to obtain these speeds, recheck the PTO slip clutch and pump drive belt tension.
9. Set the speed indicator at 6 (top speed) and read the flow meter for GPM and pressure. The flow should be approximately 11.4 GPM for the Model 72 and 9.5 GPM for the Model 70 when not under pressure. The flow may drop to 9 GPM on the Model 72 or 7.5 GPM on the Model 70 under load.
10. Turn the flow rater pressure valve clockwise, watching the pressure gauge until full bypass pressure is obtained (2,900 PSI + 50 PSI). Do not bypass more than 10 seconds.
11. If the bypass pressure is too high or too low, adjust the relief valve on the flow control valve.
12. Remove the large cap nut at the rear of the valve. Using a 5/16″ allen wrench, turn the adjusting screw clockwise to increase the pressure or counterclockwise to decrease the pressure.
13. Install the cap nut to lock the adjusting screw and recheck the pressure.
14. Remove the flow rater and reinstall the 1/2″ NPT plug.

If the relief pressure cannot be adjusted or if the flow is low, disassemble and clean the valve. Inspect for wear or contamination damage. Repair or replace as required. Reinstall the valve and retest.

If the pressure and/or flow is still not correct, the problem is most likely with the pump. Remove the pump. Disassemble and clean to inspect for wear or contamination damage. Repair or replace as required.

NOTE: Be sure the pump is tested at rated RPM under load.

If the flow and pressure are correct, the problem is most likely with the motor. Remove the motor. Disassemble and clean to inspect for wear or contamination damage. Repair or replace as required.

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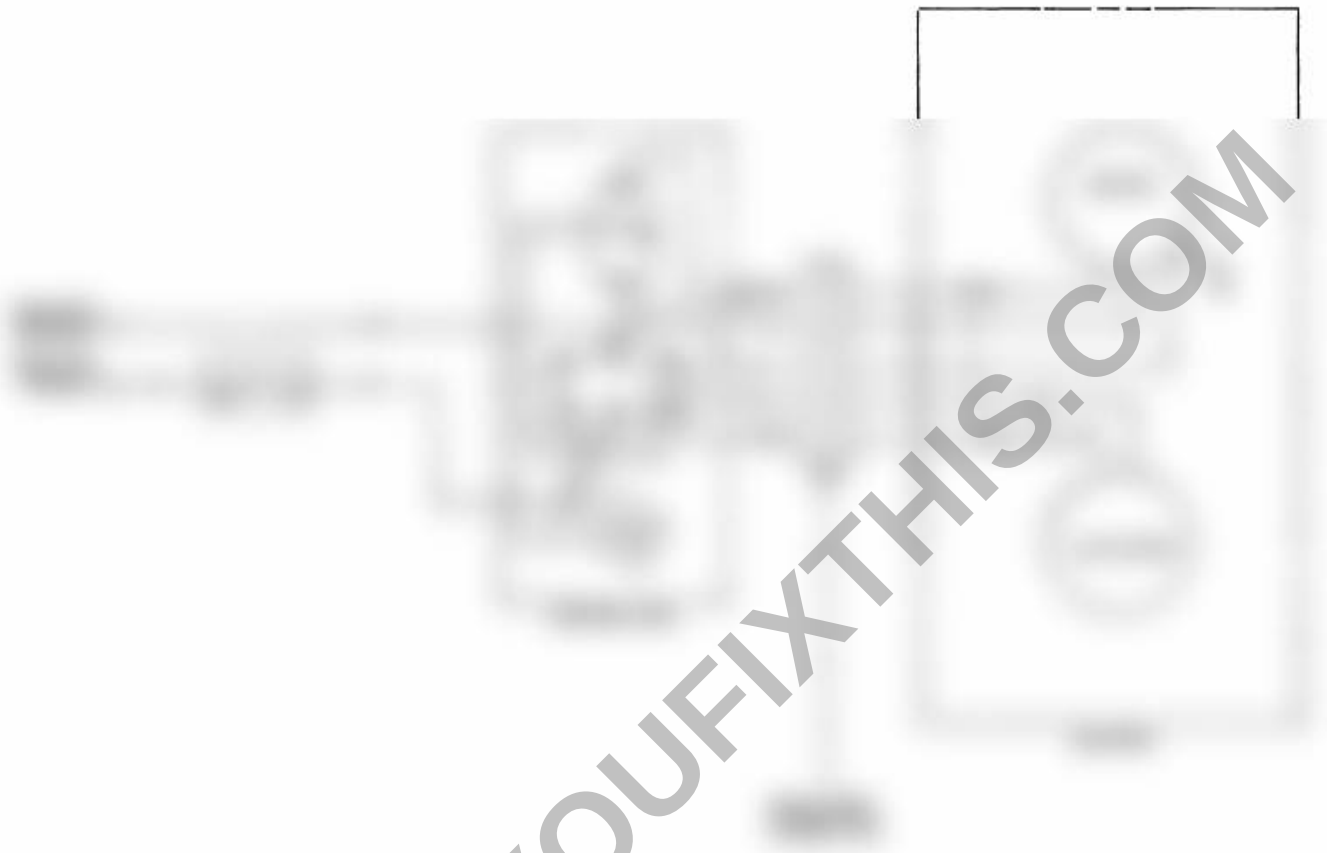
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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Cannot fill the rear of the wagon	Wagon is too long	Recommended wagon length is 18′ (5.5 m).
	Bales too soft	Increase bale density by installing more hay wedges.
		Lower the upper throwing belt assembly.
		Increase pressure required to lift upper apron by:
		Model 70 - Replace #42038 spring with #180021 spring.
		Model 72 - Relocate a spacer on each support rod.
	Top of bale not firm	Adjust feeder and/or feeder back to produce solid, square bales.
	Bales too long	Set metering wheel trip arm so maximum bale length is: 36″ (914 mm) for Model 70, 38″ (960 mm) for Model 72.
	Bales too heavy	Adjust tension device and/or bale length to obtain a maximum weight of 80 lbs. (36 kg).
	Hitch too high	Adjust so bale case is level or slightly low in front.
	PTO speed too slow	Operate the baler at 540 PTO RPM.
	Roll drive belt too loose	Model 70 - Adjust to obtain approximately 1/8″ (3 mm) gap between coils of the spring.
		Model 72 - The spring should measure 11″ (280 mm) between hooks).
	PTO slip clutch set too light	Adjust per the baler operator's manual.

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