



Harsco Track Technologies

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SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 1-10-2002 **BULLETIN NO:** 02-002

TITLE: BOOM TIE GRIPPER PIVOT VALVE SERVICE GROUP

RATING:

<input type="checkbox"/>	DIRECTIVE (Action Is Required)	<input type="checkbox"/>	ALERT (Potential Problem)
<input type="checkbox"/>	INFORMATION (Action Is Optional)	<input checked="" type="checkbox"/>	PRODUCT IMPROVEMENT (Enhance Product)

PRODUCT SERIES / MODEL: 6000, 6100, RMC305A / B / C TKO[®] Tie Remover / Inserter

SERIAL NO: All Models

SUMMARY: The pilot operated check valves part # 501 695 018 used in the boom tie gripper pivot valve part # 502 428 000 have failed on numerous occasions causing machine delay. Repeated vendor changes addressing the failures have proven to be insignificant. It has been determined that the tie gripper pivot circuit does not need pilot operated check valves to operate satisfactorily and they can be removed from the circuit. The existing pilot operated valve part # 502 428 000 can be directly replaced with a closed circuit valve part # 501 648 000.

OPERATIONAL IMPACT: Eliminating the pilot operated check valves will improve machine reliability.

ACTION: The installation of this Service Group requires:

- Disconnecting the electrical cables and hydraulic lines from the existing valve.
- Removing the existing valve from the machine.
- Installing the new valve on the machine.
- Reconnecting the hydraulic lines and electrical cables to the new valve.

CONTACT: If you have any questions or if we can be of any service, please contact the Service Department at the Fairmont, MN. facility, (507) 235-3361.

SAFETY INFORMATION

- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE ALL ENERGY SOURCES FROM MACHINE. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.**

SERVICE GROUP INSTALLATION - See Figure 1, Figure 2 and Figure 3

1. Locate the existing boom tie gripper pivot valve (A) on the machine.

All Models: See Figure 1. The valve is located on the right side of the machine on the inside of the frame.

2. Disconnect the electrical cable connectors from the solenoids of the existing boom tie gripper pivot valve (A).

Note: Be sure to note which electrical connectors are connected to the solenoids for proper re-assembly.

3. Disconnect the hydraulic lines from the existing boom tie gripper pivot valve.

Note: Be sure to note which hydraulic lines are connected to the valve ports for proper re-assembly.

4. Remove four cap screws to remove the existing tie gripper pivot valve (A) from the machine.

5. Remove the hydraulic fittings from the existing tie gripper pivot valve (A).

Note: Be sure to note which hydraulic fittings are installed in the valve ports and their orientation for proper re-assembly.

6. Install the hydraulic fittings in the new tie gripper pivot valve ports (1) and orientate in the proper direction. Tighten all fittings securely.

7. Install the new tie gripper pivot valve (1) to the machine reusing the four cap screws. Tighten the four cap screws securely.

8. Reconnect the hydraulic lines to the hydraulic fittings in the new tie gripper pivot valve (1) ports. Tighten all hydraulic connections securely.

9. Reconnect the electrical cable connectors to the proper solenoids of the new boom tie gripper pivot valve (1).

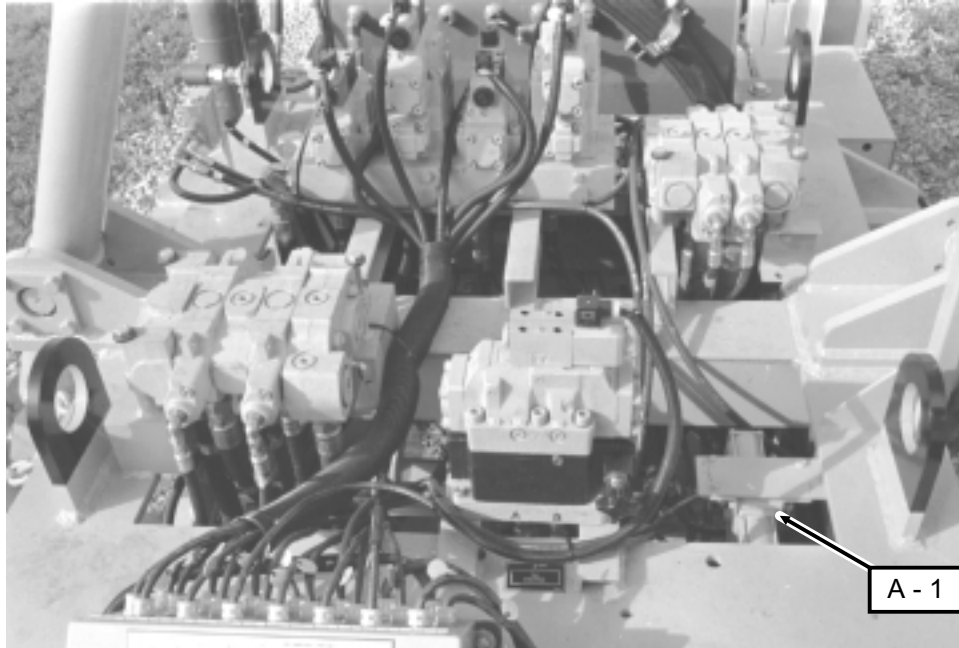
10. Start the engine and pressurize the boom tie gripper pivot circuit.

SERVICE GROUP INSTALLATION - See Figure 1, Figure 2 and Figure 3

11. Check the new tie gripper pivot valve (1) for hydraulic leaks.
12. Operate the tie gripper pivot control to verify proper operation of the pivot direction.

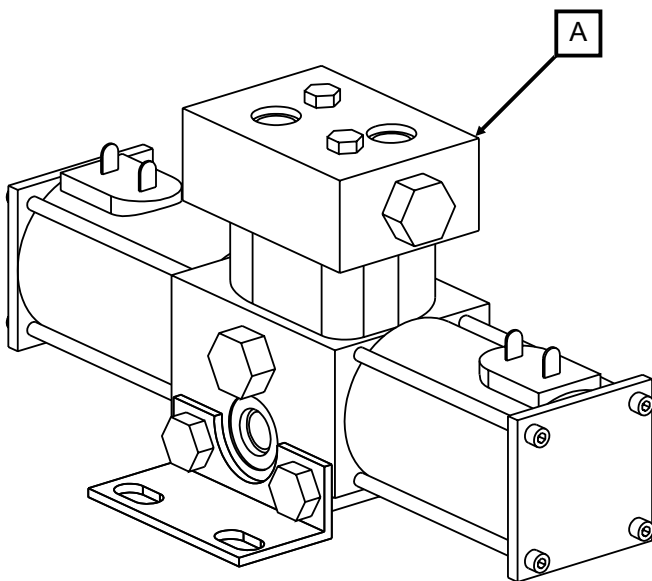
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FIGURE 1
TIE GRIPPER PIVOT VALVE LOCATION



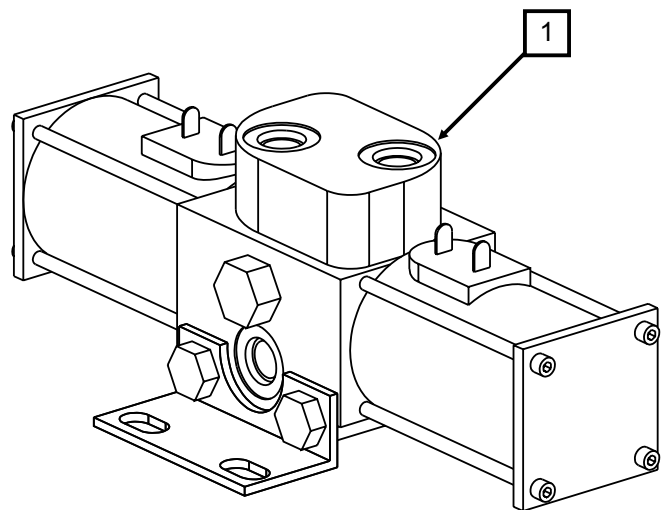
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FIGURE 2
EXISTING BOOM TIE GRIPPER
PIVOT VALVE 502 428 000



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FIGURE 3
NEW BOOM TIE GRIPPER
PIVOT VALVE 501 648 000



SERVICE GROUP PARTS LIST

ITEM	PART NO	DESCRIPTION	QTY
1	501 648 000	Solenoid Valve	1

REPLACEMENT PARTS INFORMATION

Note: Replacement parts information for 501 648 000 solenoid valve for future reference.

ITEM	PART NO	DESCRIPTION	QTY
	500 690 056	Replacement Coil	2
	F025525	Replacement Seal Kit	1

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