



Harsco Track Technologies

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SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 8-1-2001 **BULLETIN NO:** 01-008

TITLE: TRAVEL CONTROLLER CALIBRATION

RATING:

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

PRODUCT SERIES / MODEL: 6700S TAMPERS

SERIAL NO: All Models With Electro-Hydraulic Travel Controller

SUMMARY: To provide a calibration procedure for the travel controller. This calibration procedure is to be used at the time of parts replacement and/or machine maintenance.

OPERATIONAL IMPACT: To establish the correct acceleration ramp for smooth travel control.

ACTION: This calibration procedure requires:

- Using a test meter to check and/or set the travel controller's high and low limit potentiometer voltages in both the forward and reverse directions.

CONTACT: If you have any questions or if we can be of any service, please contact Jim Merritt at the Ludington, MI. facility, (231) 843-3431.

SAFETY INFORMATION

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

CALIBRATION PROCEDURE - MODEL 6700S BUILT 1996 AND UP - See Figure 1

1. Set the travel mode switch in the right hand console to "Fast Travel".
2. Verify four wheel drive is disengaged.
3. With the engine shut down, turn the ignition switch to "Run" position (not "Start").
4. Set the test meter to DC volts.
5. Verify that the machine's battery voltage is 23.5 - 26.5 volts. Check voltage at wire #334A and wire #301D.
6. Connect positive (+) lead to wire #1123C at TB1:71 and negative (-) lead to wire #301D.
7. Move travel controller forward, just off "Neutral". Check and/or set low limit potentiometer to 5 volts.
8. Move travel controller fully forward. Check and/or set high limit potentiometer to 15 volts.
9. Repeat Step 7 to recheck low limit potentiometer forward setting. Adjust if necessary.
10. Repeat Step 8 to recheck high limit potentiometer forward setting. Adjust if necessary.
11. Connect positive (+) lead to wire #1137B at TB1:61 and negative (-) lead to wire #301D.
12. Move travel controller in reverse, just off "Neutral". Check and/or set low limit potentiometer to 5 volts.
13. Move travel controller fully in reverse. Check and/or set high limit potentiometer to 15 volts.
14. Repeat Step 12 to recheck low limit potentiometer reverse setting. Adjust if necessary.
15. Repeat Step 13 to recheck high limit potentiometer reverse setting. Adjust if necessary.
16. Repeat Steps 6 - 8 to recheck both high and low limit potentiometers forward settings.
17. Reseal both high and low limit potentiometers.

SAFETY INFORMATION

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

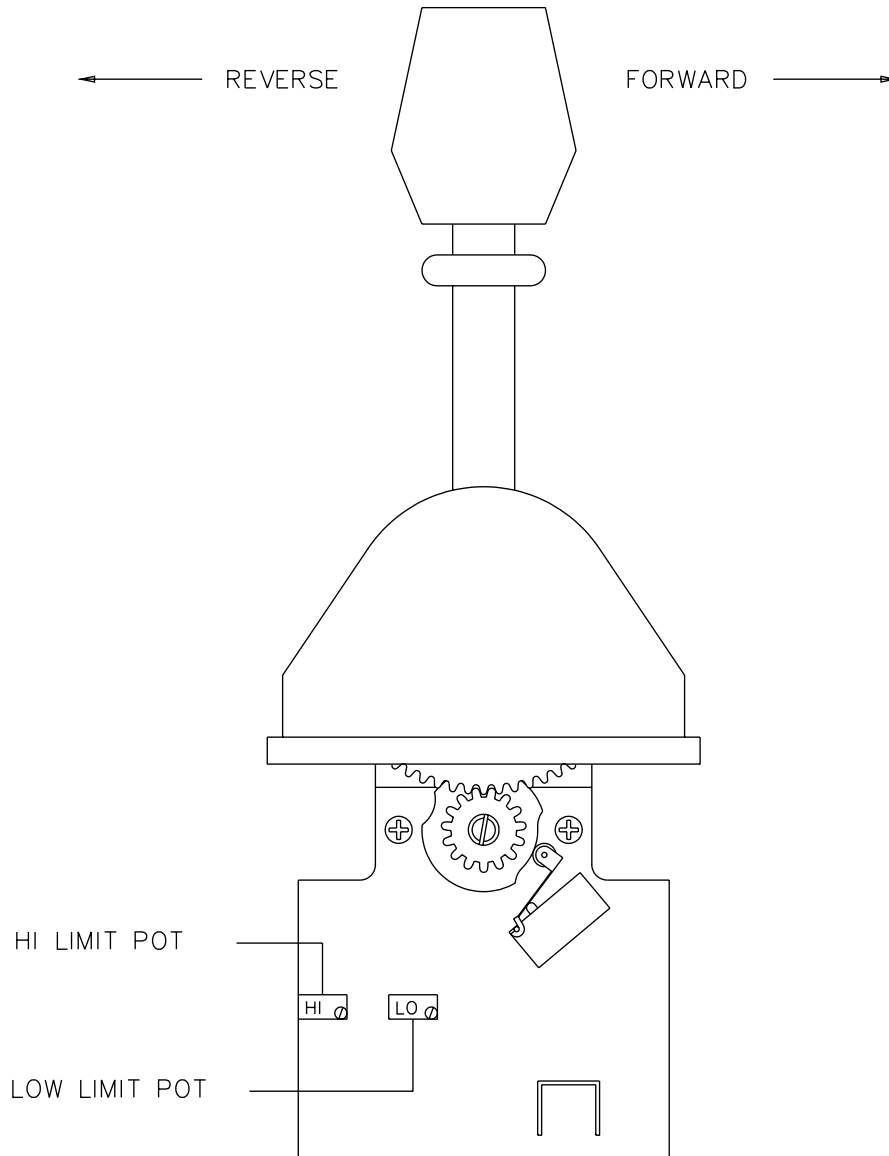
CALIBRATION PROCEDURE - MODEL 6700S BUILT PRIOR TO 1996 - See Figure 1

1. Set the travel mode switch in the right hand console to "Fast Travel".
2. Verify four wheel drive is disengaged.
3. With the engine shut down, turn the ignition switch to "Run" position (not "Start").
4. Set the test meter to DC volts.
5. Verify that the machine's battery voltage is 23.5 - 26.5 volts. Check voltage at wire #71 and wire #200.
6. Connect positive (+) lead to wire #275A at Relay Panel Terminal Board and negative (-) lead to wire #200.
7. Move travel controller forward, just off "Neutral". Check and/or set low limit potentiometer to 5 volts.
8. Move travel controller fully forward. Check and/or set high limit potentiometer to 15 volts.
9. Repeat Step 7 to recheck low limit potentiometer forward setting. Adjust if necessary.
10. Repeat Step 8 to recheck high limit potentiometer forward setting. Adjust if necessary.
11. Connect positive (+) lead to wire #277A at Relay Panel Terminal Board and negative (-) lead to wire #200.
12. Move travel controller in reverse, just off "Neutral". Check and/or set low limit potentiometer to 5 volts.
13. Move travel controller fully in reverse. Check and/or set high limit potentiometer to 15 volts.
14. Repeat Step 12 to recheck low limit potentiometer reverse setting. Adjust if necessary.
15. Repeat Step 13 to recheck high limit potentiometer reverse setting. Adjust if necessary.
16. Repeat Steps 6 - 8 to recheck both high and low limit potentiometers forward settings.
17. Reseal both high and low limit potentiometers.

CALIBRATION PROCEDURE

CONTROL

**FIGURE 1
TRAVEL CONTROLLER**



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415 North Main Street
Fairmont, MN
56031-1837
Tel: (507) 235-3361
Fax: (507) 235-7370

2401 Edmund Road, Box 20
Cayce-West Columbia, SC
29171-0020
Tel: (803) 822-9160
Fax: (803) 822-7471

200 South Jackson Road
Ludington, MI
49431
Tel: (231) 843-3431
Fax: (231) 843-4830