



# Harsco Track Technologies

Harsco

www.harscotrack.com

---

## SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

---

**DATE:** 6-16-2005 **BULLETIN NO:** 05-008

**TITLE:** RAIL JACKS LIFT TIMER RELAYS / POTENTIOMETERS WIRING / COMPATIBILITY

**RATING:**

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

**PRODUCT SERIES / MODEL:** W141 Series A1 Rail Lifters

**SERIAL NO:** All W141A1-26 and Higher Models

**SUMMARY:** HTT changed the Rail Jacks Lift timer relays on Models A1-27 and higher for improved reliability which also required changing the potentiometers for compatibility with the new timer relays. Depending upon the manufacturer of the timer relays, the wiring is different between the timer relays and potentiometers. If the wiring between the timer relays and potentiometers is not correct, the timer relays and/or potentiometers will prematurely fail.

**OPERATIONAL IMPACT:** Prevent premature failure of the Rail Jacks Lift timer relays and/or potentiometers due to incorrect wiring or incompatibility between the timer relays and potentiometers.

**ACTION:** Inspect and verify the manufacturer of the Rail Jacks Lift timer relays and potentiometers, and the wiring between the timer relays and potentiometers installed on the machine per the instructions in this Service Bulletin. A Service Group HTT part #203268 is available to convert the timer relays and potentiometers used on the Model A1-26 to the new timer relays and potentiometers used on the Model A1-27 and Higher.

**CONTACT:** If you have any questions or if we can be of any service, please contact the Service Department at the Columbia, SC. facility, 803-822-9160.

**SAFETY INFORMATION**

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

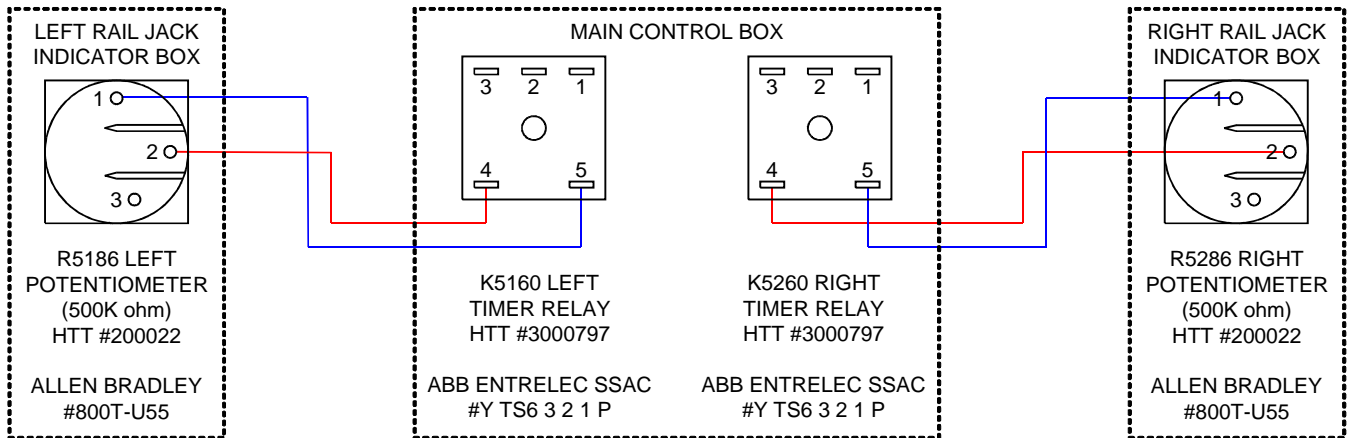
**CHECKING LIFT TIMER RELAYS / POTENTIOMETERS WIRING / COMPATIBILITY**

1. The Rail Jacks Lift timer relays are located inside of the Main Control Box ahead of the Travel Seat on the Travel Platform of the Machine. Loosen the two thumb screws on the front panel of the Main Control Box and swing open to gain access to the timer relays mounted on the right side panel of the Main Control Box. Inspect and verify the manufacturer of the timer relay as follows for the correct wiring:
  - 1.1 ABB ENTRELEC SSAC - part #Y TS6 3 2 1 P: See Figure 1 for the correct wiring of the timer relay pins #4 and #5 to the potentiometer.
  - 1.2 AMPERITE CO INC - part #24D.1-10SST2: See Figure 2 for the correct wiring of the timer relay pins #4 and #5 to the potentiometer.
2. The Rail Jacks Lift potentiometers are located inside of Rail Jack Indicator Boxes on the left and right sides of the machine. Remove the four screws in the cover of the enclosures to gain access to the potentiometers. Inspect and verify the manufacturer of the potentiometers as follows for the correct wiring:
  - 2.1 ALLEN BRADLEY - part #800T-U55: This a 500K ohm potentiometer and it must be used with the ABB ENTRELEC SSAC - part #Y TS6 3 2 1 P timer relay. See Figure 1 for the correct wiring of the timer relay pins #4 and #5 to the potentiometer.
  - 2.2 ALLEN BRADLEY - part #800T-U37: This a 25K ohm potentiometer and it must be used with the AMPERITE CO INC - part #24D.1-10SST2. See Figure 2 for the correct wiring of the timer relay pins #4 and #5 to the potentiometer.
3. If the wiring from the timer relays to the potentiometers is incorrect, reconnect the wiring as shown in the appropriate Figure per the manufacturers of the timer relays and potentiometers.
4. If the timer relays and potentiometers are incompatible with one another per the manufacturers part numbers, order the correct parts per the HTT part numbers shown in Figure 1 or Figure 2.
  - 4.1 The old timer relay part #197468 is no longer available as a repair item and is replaced by Timer Relay / Potentiometer Service Group part #203268. This Service Group includes one new timer relay part #3000797 and one new potentiometer part #200022.
5. Re-install the covers on the Rail Jacks Indicator Box enclosures and secure with the four screws.
6. Close the front panel of the Main Control Box and secure with the two thumb screws.

**CHECKING LIFT TIMER RELAYS / POTENTIOMETERS WIRING / COMPATIBILITY**

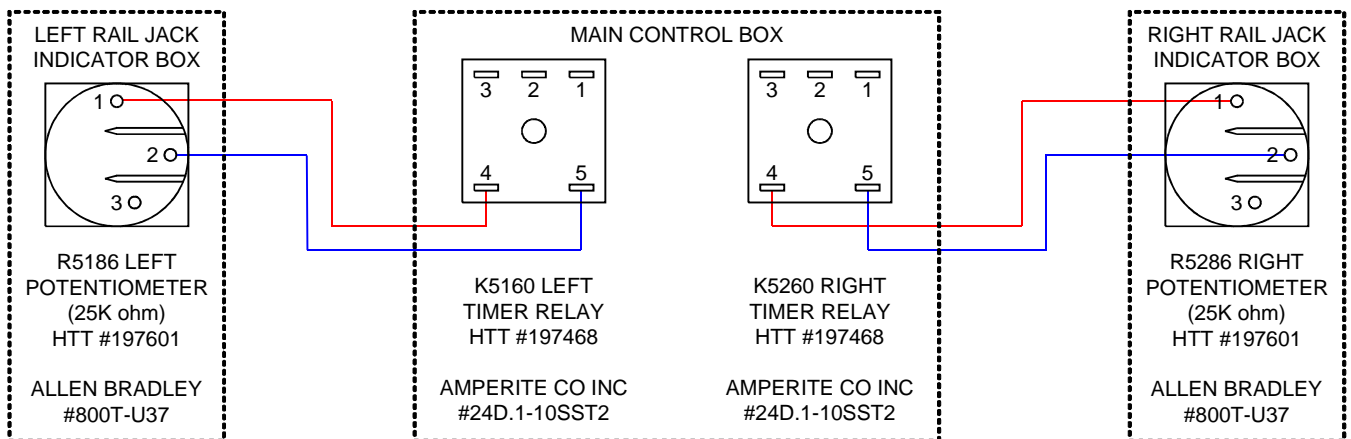
RELAY-POT-1

**FIGURE 1**  
**RAIL JACKS LIFT TIMER RELAYS / POTENTIOMETERS WIRING**  
 Models W141A1-27 and Higher  
 Red and Blue Color Wires Are For Illustrative Purposes Only



RELAY-POT-2

**FIGURE 2**  
**RAIL JACKS LIFT TIMER RELAYS / POTENTIOMETERS WIRING**  
 Model W141A1-26  
 Red and Blue Color Wires Are For Illustrative Purposes Only



**© 2005 HARSCO TRACK TECHNOLOGIES, HARSCO CORPORATION**

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) 843-1644