



Harsco Track Technologies

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SERVICE BULLETIN MAINTENANCE OF WAY EQUIPMENT

DATE: 3-5-2003 **BULLETIN NO:** 03-002

TITLE: 200600 TURNTABLE NOT STORED INDICATOR / ALARM GROUP

RATING:

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

PRODUCT SERIES / MODEL: W96 Series E2 Spike Drivers

SERIAL NO: All W96E2 Models with Turntables

SUMMARY: HTT received a report from a railroad that due to the failure of the forced retract relay, the turntable on the machine drifted down. The machine operator was not aware of this drifting condition. Therefore we recommended that the Turntable Not Stored Indicator / Alarm Group be installed on the machine to warn the operator both visually and audibly if the forced retract relay should fail.

Potential consequences of this type of failure are:

- Machine damage or derailment.
- Damage to crossings or switches.
- Personal injury due to sudden stops.

OPERATIONAL IMPACT: To warn the operator of the machine both visually and audibly if the forced retract relay should fail.

ACTION: The installation of this Group involves installing an indicator light, relay and wiring modifications in the Main Control Box of the machine. Order one part # 200600 Group per machine.

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

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

GROUP INSTALLATION

Note: The Wire Chart and Electrical Schematic provided in this Service Bulletin are for a W96 Model E2-27. The Group can be installed on other models, but refer to the Electrical Schematic of the machine for any wiring differences that may be encountered.

1. See Figure 1. In the Main Control Box, install the red indicator light (10) in the location shown. The mounting hole should already be pre-drilled in the panel. Punch a hole or cut an "X" in the decal over the mounting hole. Install the T-Turntable Not Stored decal (11) next to the indicator light (10).
2. See Figure 2. In the Main Control Box, remove the existing end cap (A) from the mounting rail of Terminal Block TB10. Install the relay socket (4) on the mounting rail and secure with the existing end cap (A). Then install the relay (9) in the relay socket (4) and secure with the bail (3).
3. See Figure 3 and Figure 4. In the Main Control Box, wire the indicator light (10), relay (9) and diode (5) per the Wire Chart and Electrical Schematic. Be sure to use the labels (6) to mark the component numbers and wire numbers.

TURNTABLE NOT STORED THEORY OF OPERATION

Note: Refer to Figure 4 and Electrical Schematics applicable to your model of machine.

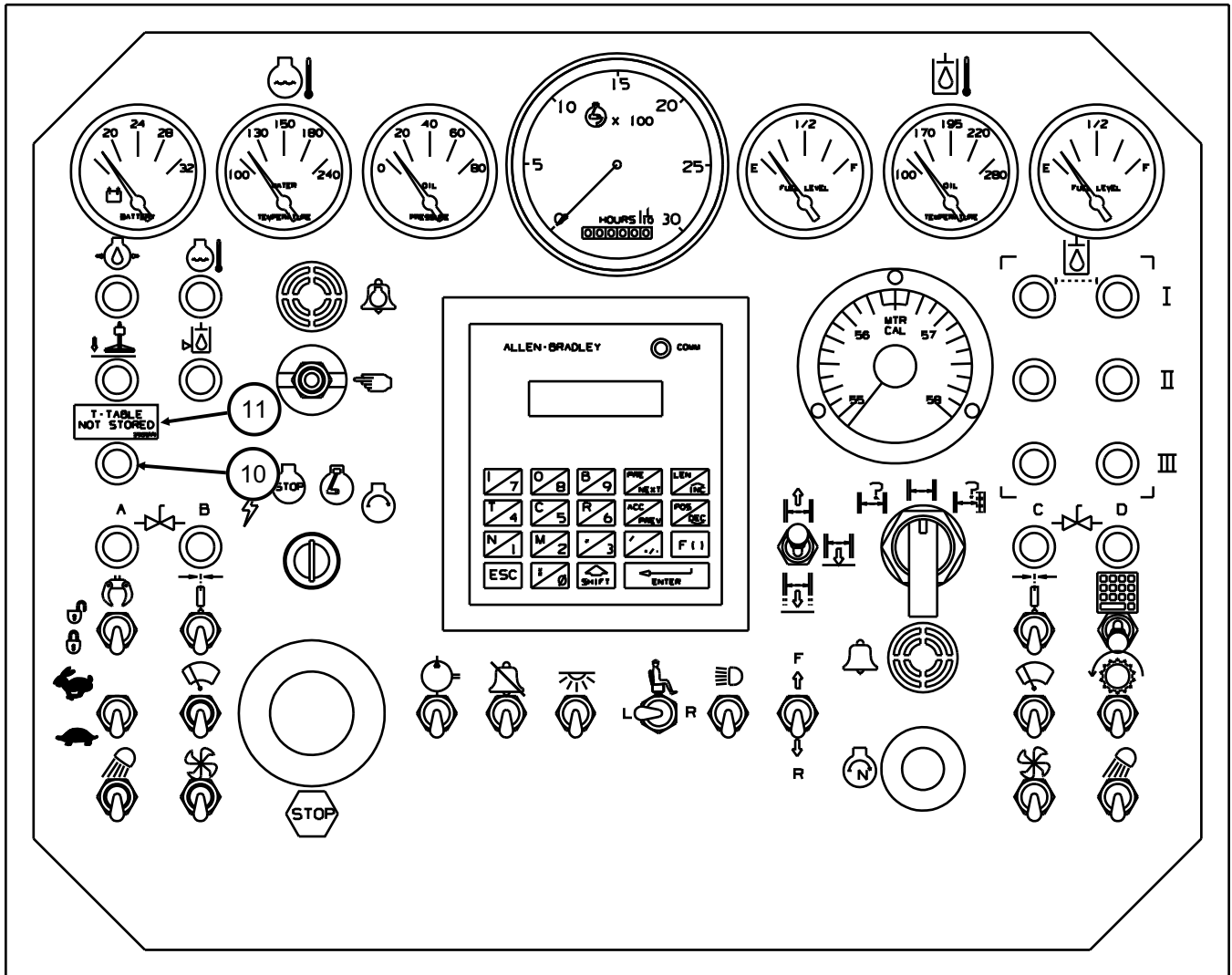
When the turntable base is stored, the turntable base limit switch S80 is actuated and its normally open contacts 3 - 4 are closed. When the machine is not in the Turntable Mode, the turntable retract relay K700 is energized and energizes the turntable retract solenoid valve SOL730 to force the turntable cylinder to remain retracted in the stored position. The indicator / alarm relay K701 is also energized and its normally open contacts 9 - 5 close and energize the propel unload solenoid valve SOL130 to allow the machine to be propelled. Its normally closed contacts 9 - 1 open to keep the turntable not stored red indicator DS130 from illuminating and the alarm B3120 from sounding.

If the turntable cylinder retract relay K700 should happen to be non-functional, indicator / alarm relay K701 is de-energized. Its normally open contacts 9 - 5 de-energize the propel unload solenoid valve SOL130 to stop the machine from propelling. Its normally closed contacts 9 - 1 energize and the turntable not stored red indicator DS130 illuminates and the alarm B3120 sounds. To propel the machine in an emergency situation, push in and hold the propel interlock valve in the Main Air Panel (B - Figure 5) and then depress the appropriate propel pedal for the desired direction of travel.

GROUP INSTALLATION

SE200600A-1

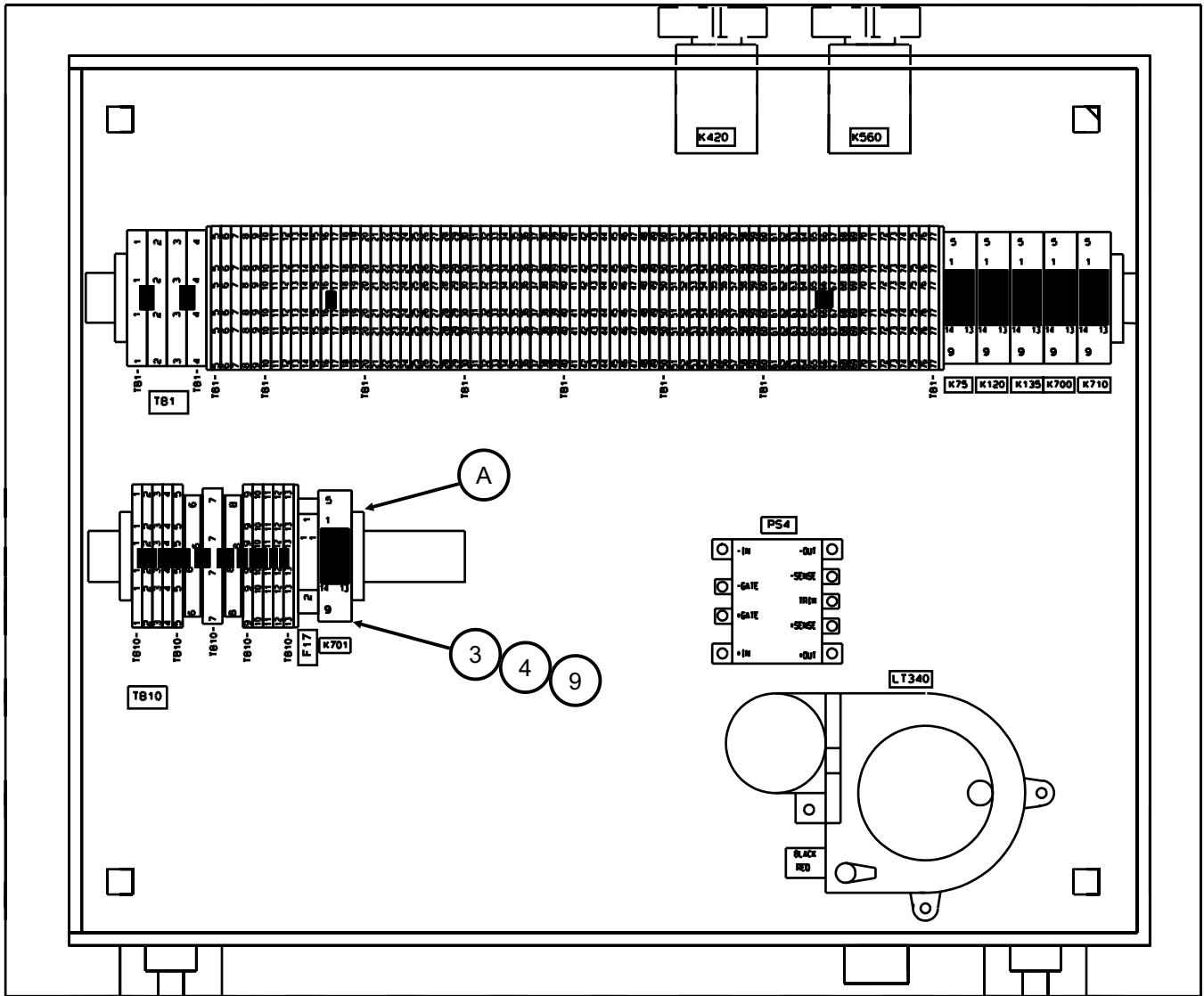
FIGURE 1
MAIN CONTROL BOX - OUTSIDE



GROUP INSTALLATION

SE200600A-2

FIGURE 2
MAIN CONTROL BOX - INSIDE



GROUP INSTALLATION

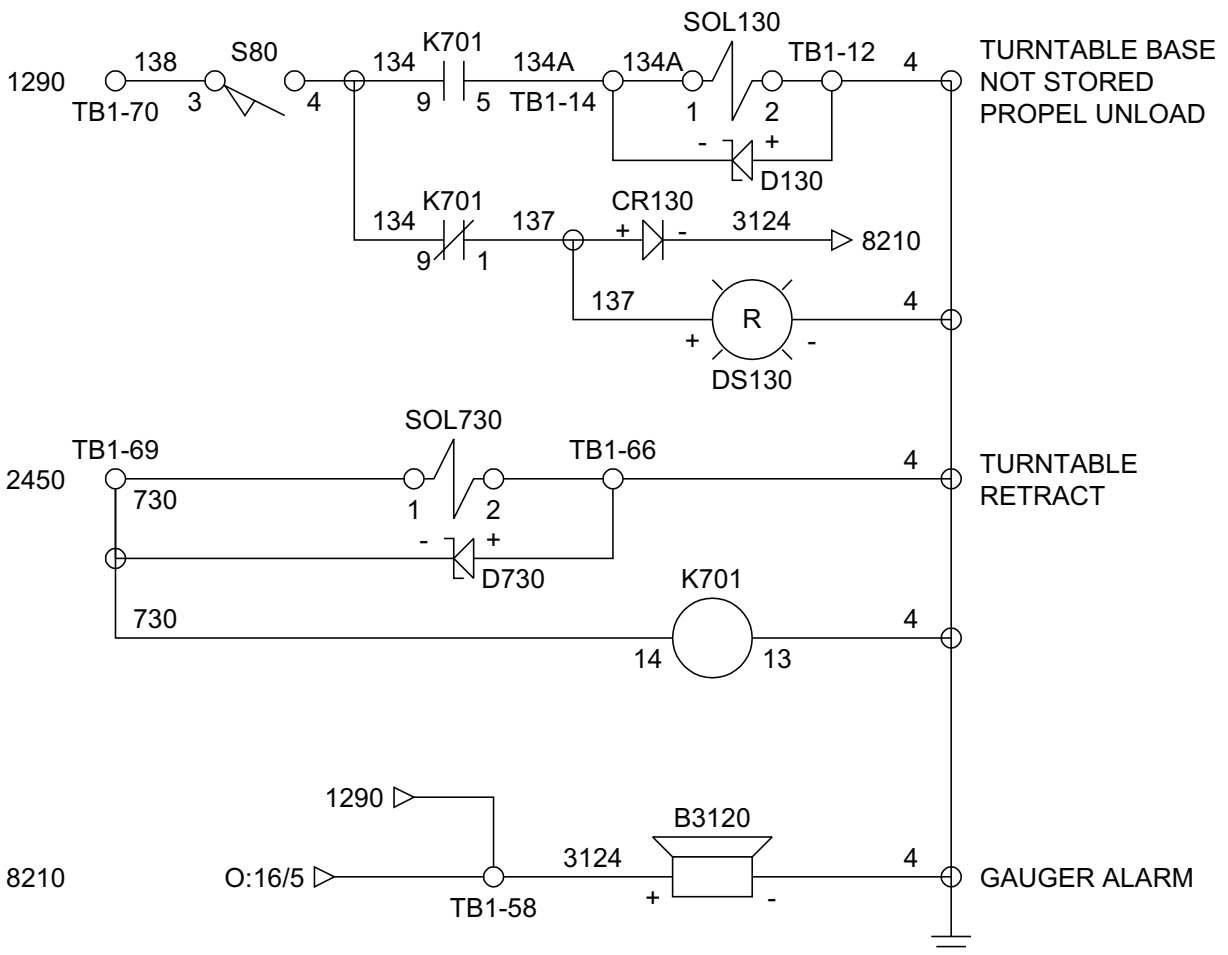
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FIGURE 3
WIRE CHART

WIRE RUN	WIRE PART NO.	WIRE DESIGNATION	FROM	TERMINAL PART NO.	TO	TERMINAL PART NO.
DISCONNECT	EXISTING	134	S80-4	EXISTING	TB1-14	EXISTING
CONNECT	EXISTING	134	S80-4	EXISTING	K701-9	NONE
NEW	F040161	134A	K701-5	NONE	TB1-14	NONE
NEW	F040161	137	K701-1	NONE	DS130 (+)	F023080
NEW	F040161	137	K701-1	NONE	CR130 (+)	F009863
NEW	F040160	4	DS130 (-)	F023080	TB10-6	NONE
NEW	F040161	3124	CR130 (-)	F009863	TB1-58	NONE
NEW	F040161	730	K701-14	NONE	TB1-69	NONE
NEW	F040160	4	K701-13	NONE	TB1-67	NONE

SE200600A-3

FIGURE 4
ELECTRICAL SCHEMATIC



GROUP PARTS LIST

ITEM	PART NO	DESCRIPTION	QTY
	200600	TT NOT STORED INDICATOR / ALARM GROUP	1
1	F009863	Butt Connector	2
2	F023080	Terminal	2
3	F023443	Bail, Relay	1
4	F023445	Socket, Relay	1
5	F023778	Diode	1
6	F040133	Wire Labels.	20
7	F040160	Wire, 16 ga Black	36"
8	F040161	Wire, 16 ga White	120"
9	171956	Relay	1
10	171957	Light, Red Indicator	1
11	200599	Decal - T-Table Not Stored.	1

96-214

**FIGURE 5
PROPEL INTERLOCK VALVE**



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