COMPONENT CODE D1

PARTS & SERVICE NEWS

REF NO. | AA03033

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SUBJECT:	PARK BRAKE SOLENOID WIRING KIT
PURPOSE:	To announce to the field a kit for increased park brake reliability.
APPLICATION:	All Komatsu Electric Drive Dump Trucks with STATEX III: 445E: AFE39 - 31223 & UP; AFE41 - 31202 & UP 510E: AFE40 - 31222 & UP; AFE44 - 31682 & UP 170D: AFE36 - 30683 & UP 170E: AFE37 - 30880 & UP 630E: AFE38 - 30929 & UP; AFE42 - 31678 & UP; AFE45 - 1670 & UP 685E: AFE43 - 31402 & UP 730E: AFE47 - 32530 & UP; A30079 through A30224 830E: AFE32 - 31320 & UP; A30544 through A30265
FAILURE CODE:	

DESCRIPTION: Kits for all Statex III equipped trucks.

Some trucks in the field may benefit from adding a Park Brack Solenoid Kit. Kit AK4936 is for trucks equipped with relay boards, Kit AK4937 is for trucks the do not have relay boards. The Statex III system controls the application of the park brake based on input from the park brake switch and wheel speed sensors. The Statex III system provides a path to ground for the park brake relay (7, Figure 1) when the park brake switch (6) is in the "OFF" position and ground speed is zero. By adding this relay (1 or 8) to the truck, there is now a second path to ground where the park brake switch is in the "OFF" position.

These kits add reliability to the State CII system to ensure that the parking brake will not inadvertently "apply" while the park brake switch is in the "OFF" position. These kits can be installed on any Komatsu truck that is equipped with STATEX III, or any truck that has been converted over to STATEX III. Early 830E trucks with Statex III and all trucks that have been converted to Statex III require kit (AK4937).

Installation Instructions

NOTE: Each truck will require approximately 12 feet of # 14 AWG wire that is not included in the kit.

- 1. Place be bettery disconnect switch in the "OFF" position.
- 2. Install relay (3, Figure 2) into an empty socket on Relay Board 6 or 7. If truck is not equipped with a relay board, drill a hole in a convenient location on the left side, inside wall of the control cabinet (the side near the cab) to mount the new relay (8, Figure 1).
- 3. Connect the relay to the truck with wire and the terminals supplied in the kit as shown in the schematic in Figure 1. If truck is not equipped with relay boards, use the terminals supplied in kit AK4937 to connect the wires to the relay socket (9).
 - a. Connect circuit 52C to the + (85) relay coil terminal.
 - b. Connect circuit 52CS to the com (30) relay terminal.
 - c. Connect the (86) terminal to ground.
 - d. Connect the N.O. (87) terminal to ground.



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	CONT	ENTS OF K	IT AK4936 (WITH RELAY BOARD)
Item	Part Number	Quantity	Description
	EH7160	1	Drawing, Park Brake Solenoid Installation
1	SM3189	1	Relay
3	VH2583	4	Ring Terminal (14-16) (# 8)
4	VH2584	4	Ring Terminal (14-16) (# 10)
	CONTEN	TS OF KIT	AK4937 (WITHOUT) TELAY BOARD)

CONTENTS OF KIT AK4937 (WITHOU				
Item Par Num		Description		
EH7	160 1	Drawing Park Brake Solenoid Installation		
4 VH2:	584 4	Tern.ir.al Ring (14-16) (# 10)		
8 PB47	767 1	R-lav		
9 PB60	068 1	Pelay Socket		
10 VL09	964	Terminal (for relay socket)		
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