TECHNICAL BULLETIN

Ref Document No.	TB25001	lssue No.	1
Subject	JUG-A-0 Park Brake Valve Change		
Release Date	16.05.2025		

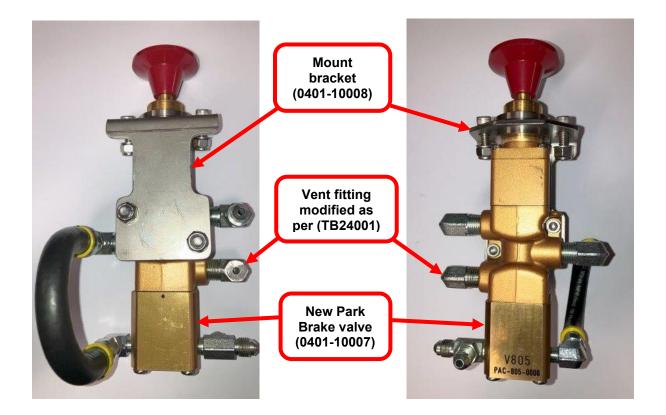
Purpose – To advise owners of PPKME JUG-A-0 vehicles of a change to the park brake actuation valve design.

Applicability – PPKME JUG-A-0 vehicles fitted with **0401-10007** park brake actuation valve. As installed in MDR 089245 TBS and MDR 108880 TBS pneumatic circuits.

Background

The current 0401-10007 park brake valve design is no longer available. A new valve design has been sourced and validated for use in the JUG-A-0 Transport Braking System.

The new design value is from the same value range as installed in the registered Transport Braking System (TBS) of the COALTRAM and Driftrunner/Brumby vehicles.





Recommendations

- 1. Owners and operators should be aware that the 0401-10007 Park brake valve will now be of the new design.
- 2. Installation kit P/N 0401-10007KIT is available for initial retrofit, and contains required fittings, hosing and mount bracket.
- 3. No new control measures are required for use of the new valve design.
- 4. The new design value is installed in the original location, although requires a different mounting arrangement using mount bracket (0401-10008). Installers should refer to the Work Procedure provided for installation.
 - N.B. The instruction document SWP Diesel 172 supplied is applicable to a generic installation.
 Vehicle-specific circuit hose routing may vary, this must be taken into consideration during valve installation.
 - b. On completion of the park brake valve installation the operation of the valve is required to be validated with all safety functions.
- 5. Existing Park brake valve design is still fit for purpose. Existing units in service should be maintained as per OEM maintenance recommendations.
- 6. Owners/ operators are encouraged to contact PPK Mining Equipment if any further information is required.

Engineering Department

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SWP Diesel 172 JUG-A-0 Alternate Park Brake Valve Installation.

Scope:

The objective of this SWP is to provide recommended method for INSTALLING AN ALTERNATE PARK BRAKE VALVE INTO JUG-A-0 VEHICLES

PPE requirements:

Protective Clothing	Protective Footwear	Hard Hat (if required)
Safety Glasses	Hearing protection	

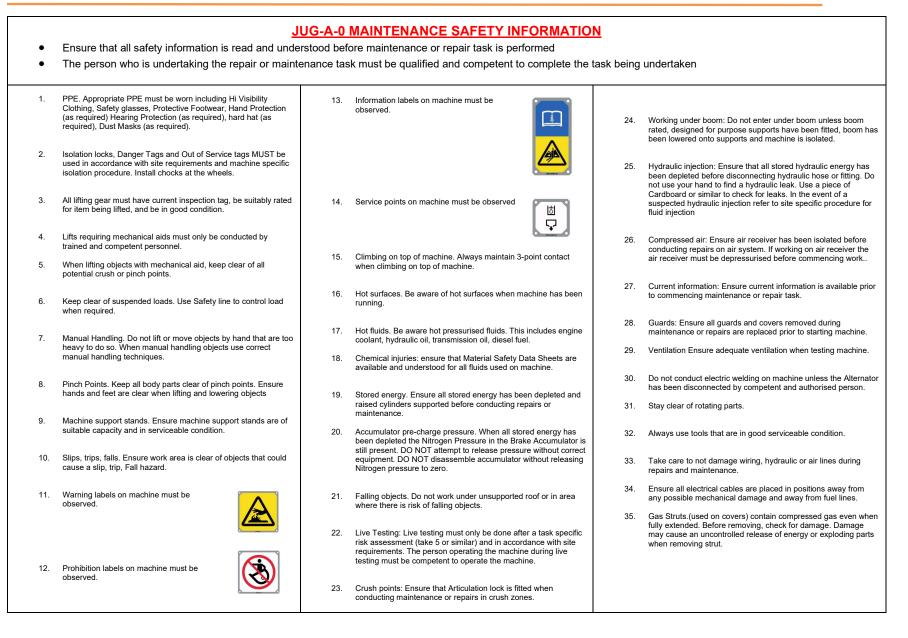
Plant / equipment / materials:

Hand tools: - as listed	9/16" AF Open End Spanner	Vehicle wheel chocks
7/16" AF Open End Spanner	8" Adjustable (shifting) Spanner	Phillips Head Screwdriver
1/2" AF Open End Spanner	3/16" Allen (Hex) Key	5/32" Allen (Hex) Key
		3mm Allen (Hex) Key

Safety and Legislative requirements:

Lock out lock	Personal Danger LOCK	Out of Service Tag
SAFETY INFORMATION PAGE 2 OF THIS DOCUMENT		







	Steps	Hazards	Controls
1.	Lower the boom until it rests on the load frame stops and crowd forward the MIS plate until the bucket attachment is resting level on the ground.	Pinch/crush	Keep clear of pinch points/ Crush zones. Barricade work area off
2.	Isolate vehicle, as per previous detailed, on page 2 of this document. Refer to Item 2.	Unplanned movement	Wheel chocks

Rem	Removal of Existing Park Brake Valve		
3.	Unlatch and raise the transmission covers up on the gas strut, then install the mechanical support struts and pin lock in position.	Manual handling	Use correct manual handling techniques.
4.	Remove mount bolts from rear cover over dash to allow access to park brake valve plumbing.	Manual handling	Use correct manual handling techniques.
5.	Disconnect hose from park brake valve to brake pressure indicator (Rotowink) and remove hose. <i>Figure 2: Showing original hosing arrangement.</i>	Manual handling	Use correct manual handling techniques.
6.	Identify mark delivery hose to brake circuit and fitting at park brake valve, then disconnect delivery hose from valve. <i>Figure 2 & 3: Showing original hosing arrangement.</i>	Manual handling	Use correct manual handling techniques.
7.	Identify mark park brake valve air supply hose to the park brake on/off pilot valve (0601-10061), then disconnect supply hose from this valve. <i>Figure 2: Showing original hosing arrangement</i> .	Manual handling	Use correct manual handling techniques.
8.	Identify mark engine oil supply hose and fitting at the park brake on/off pilot valve (0601-10061), then disconnect supply hose from valve, plug and cap disconnected ends. <i>Figure 2 & 3: Showing original hosing arrangement.</i>	Manual handling	Use correct manual handling techniques.
9.	Remove the Phillips head screw from the centre of external actuation knob and remove the knob off the valve shaft. Figure 1: Showing valve knob and screw assembly.	Manual handling	Use correct manual handling techniques.



Rem	Removal of Existing Park Brake Valve		
10.	Remove the 2 x button head screws thru the dash facia into the valve body whilst supporting the park brake valve. <i>Figure 1: Showing button head mount screws.</i>	Manual handling	Use correct manual handling techniques.
11.	Remove Park brake valve from dash and set aside on work bench.	Manual handling	Use correct manual handling techniques.
12.	Remove Park brake on/off pilot valve (0601-10061) arrangement from park brake valve and remove the fitting that connects both valves together.	Manual handling	Use correct manual handling techniques.

Insta	nstallation of New Style Park Brake Valve		
13.	Install the new fitting into supply port of the park brake on/off pilot valve (0601-10061). Fitting reqd. 1 x CB27-0207 (1/8" BSP x 7/16" JIC Union M/F)	Manual handling	Use correct manual handling techniques.
14.	Install elbow fittings in the park brake valve with all the JIC ends pointing vertically down towards mount base. Fittings Reqd. 2 x CB56-0407F (1/4" BSP x 7/16" JIC 90° Elbow M/M) 1 x CB56-0407F MOD Vent Fitting (1/4" BSP Elbow) 1 x CB56-0207F (1/8" BSP x 7/16" JIC 90° Elbow M/M) <i>Figures 4 & 5: Showing fittings installation and orientation.</i>	Manual handling	Use correct manual handling techniques.
15.	Install the Tee fitting in the pilot exit port of the park brake valve with the JIC branch pointing vertically up away from mount base. Fitting Reqd. 1 x CB67-070207 (7/16" JIC x 1/8" BSP x 7/16"JIC Tee). <i>Figures 4 & 7: Showing fitting installation and orientation.</i>	Manual handling	Use correct manual handling techniques.
16.	Remove knob and panel mount nut from the front of the park brake valve. The other panel mount nut needs to be screwed on the mount spigot until rests against thread land.	Manual handling	Use correct manual handling techniques.



Insta	Installation of New Style Park Brake Valve				
17.	Install Valve Mount Bracket onto park brake valve spigot and install 2 x valve mount bolts thru valve body and mount bracket. Tighten the mount bolts and screw the inner panel mount nut until rests against bracket inner surface. Bracket Reqd. 0401-10008 Valve Mount Bracket Bolts Reqd. 2 x SS 3/4" x 1/4" UNC Soc. HD cap screws. 2 x SS 1/4" UNC Nyloc nuts + flat washers.	Manual handling	Use correct manual handling techniques.		
18.	Install the park brake valve and bracket assembly thru dash panel mount hole and fit the outer panel mount nut up to the dash panel; hand tighten only at this stage.	Manual handling	Use correct manual handling techniques.		
19.	Align the mount holes thru the dash with the bracket and install the 2 x panel mount bolts thru the dash panel. Centralise the valve spigot to the dash mount then tighten panel mount nut and the 2 x mount bolts. Bolts Reqd. 2 x SS 3/4" x 1/4" UNC Soc. HD cap screws. 2 x SS 1/4" UNC Nyloc nuts + flat washers. Figure 6: Showing panel mount nut and mount bolts.	Manual handling	Use correct manual handling techniques.		
20.	Reconnect hosing to park brake as detailed in previous steps 5 to 8. Reconnection step points in brief: - 5. Park brake valve rear port to Rotowink. 6. Brake circuit delivery hose to brake valve rear port. 7. Air supply hose to the park brake on/off pilot valve. 8. Engine oil supply hose and fitting at the park brake on/off pilot valve.	Manual handling	Use correct manual handling techniques.		
21.	Ensure brake function is validated following valve installation. If vehicle passes all the criteria place back into service and remove barricaded area signs and equipment. If it fails, vehicle is to be tagged "Out of Service" until the vehicle has satisfied the requirements.	Death or crush injury Collision with other vehicles or buildings	Test area to be clear of all personnel other than the trained authorised operator. Respect barriers!		



Reference Images

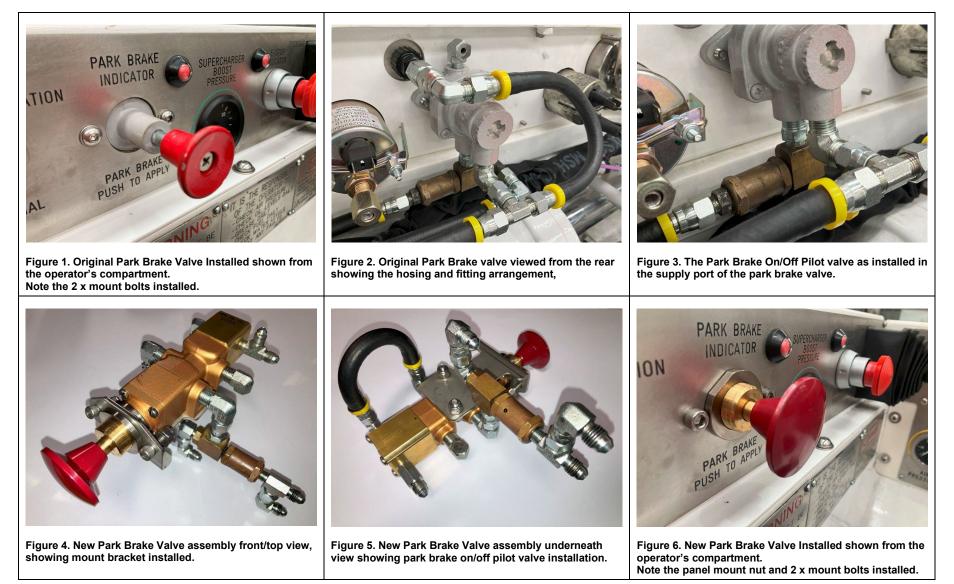






Figure 7. Park Brake Valve installation viewed from the pilot entry side, also showing mount bracket.

Figure 8. Park Brake valve viewed from the rear showing the hosing and fitting arrangement.

Figure 9. Park Brake valve viewed from the system delivery side showing the hosing arrangement.

NOTE: All personnel must read and understand this procedure before signing the document and commencing any task or associated task.

Non-Consensus Items

Participant	Item/Concern	Comments

Recommendations to change any instructions are to be listed and communicated to your supervisor.

SWG Sign Off Signoff should not take place unless this procedure has been read, understood, and all personnel associated with this task must follow this standard work procedure.

Employee Name	Signature	Date Undertaken