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SERVICE BULLETIN

Rev. No.	Date	Author	Description
	13-05-2016	G. Cheetham	Original Issue

MACHINE OR VEHICLE AFFECTED: TF Model MEWPs

SERIAL NOS: 1428 onwards (EN280 compliant units)

RISK IDENTIFIED: CETOP Valve Failures

DESCRIPTION: Proximity switch failures on both Wandfluh and Atos brand CETOP 5 and CETOP 3 valves

REPAIR PROCEDURE:

Units fitted with Atos Brand CETOP Valves

Fit new valve switch adaptor assemblies to replace the existing proximity switches, if one or both switches have failed in service.

Parts Required:

Part Number:	Description	Quantity per MEWP
13A317	CETOP 3 Switch Adaptor Assembly	3
13A314	CETOP 5 Switch Adaptor Assembly (With 4 Pin Plug)	1
13A315	CETOP 5 Switch Adaptor Assembly	1

Refer to Appendix A for Fitment procedure

Units fitted with Wandfluh Brand CETOP Valves

Fit new Atos brand CETOP valves, complete with switch adaptor assemblies, if one or both proximity switches have failed in service.

Parts Required:

Part Number:	Description	Quantity per MEWP
77-C-TOP-3KIT	EWP CETOP 3 Upgrade Kit	3
77-C-TOP-5KIT	EWP CETOP 5 Upgrade Kit	1

Refer to Appendix B for Wiring Procedure

CUSTOMER ACTION REQUIRED:

MEWP owners must circulate this bulletin to all their maintenance personnel.

RG ACTION REQUIRED:

Sufficient parts will be kept in stock to meet expected demand.

Please contact Grant Cheetham, our Service & Spare Parts Manager, on (07) 5594 9844 or Mobile 0438 748 363, if further information is required.

...*G. Cheetham*.....

Grant Cheetham
Service & Spare Parts Manager

APPENDIX A

CETOP 5 & 3 Switching Adaptor Fitting Procedure

Doc. No.: 243831-03

Date: 11-05-2016

Rev No.:	Date:	Author:	Description:
	25-11-2015	W. Ward	Original Issue
1	18-03-2016	W. Ward	Update procedure for fitting switching adaptor. Picture of CETOP 3 & 5 with adaptors added.
2	11-05-2016	W. Ward	Figure 5 updated for more detailed connectors

Parts Required:

Part Number:	Description	QTY
	CETOP 5 switching adaptor kit	1
	CETOP 3 switching adaptor kit	1

1. CETOP 5 Switching Adaptor Fitting Procedure

Image of CETOP 5 shown in Figure 1. CETOP 5 fitted with adaptors shown in Figure 6.

- 1) Ensure there is no power to the truck and the battery isolation switch is turned OFF.
- 2) Locate the base manifold at the rear of the EWP – see Figure 3.
- 3) Unscrew the two black caps at each end of the valve.
- 4) With both ends exposed, press the override pin in to ensure they are free.
- 5) Ensure the plunger pin and spring are seated correctly inside the switching adaptor. One adaptor will have a connector on its end (A port side – see Figure 5).
- 6) Power up the coil on the opposite side of fitted switch adaptor. Check continuity across terminals 1 & 2 on plug side and terminals 2 & 3 on the other side. Screw on adaptor until continuity breaks, then hand tighten no more than ½ turn.
Please note over tightening may reduce switch life.
- 7) Connect the male and female cable connectors together to join the adaptors together.
- 8) Unplug the feedback connector located on the top centre of the CETOP 5 valve.
- 9) Connect the feedback connector and rubber seal to the switching adaptor connector. Neaten wiring as appropriate.
- 10) Test functionality of jackleg stabilisers and boom operations.

2. CETOP 3 Switching Adaptor Fitting Procedure

Image of CETOP 3 shown in Figure 2. CETOP 5 fitted with adaptors shown in Figure 7.

- 1) Ensure there is no power to the truck and the battery isolation switch is turned OFF.
- 2) The CETOP 3 valves are located on the base manifold at the rear of the EWP – see Figure 3, as well as on the slew motor manifold in the turret of the EWP – see Figure 4.
- 3) For each valves perform the following steps:
 - a. Unscrew the black cap on the coil side of the valve.
 - b. With the end exposed, press the override pin in to ensure it is free.

- c. Ensure the plunger pin and spring are seated correctly inside the switching adaptor.
- d. Screw on adaptor while checking continuity between terminals 1 & 2, when continuity breaks, hand tighten no more than ½ turn.
Please note over tightening may reduce switch life.
- e. Unplug the feedback connector located on the top centre of the CETOP 3 valve.
- f. Connect the feedback connector and rubber seal to the switching adaptor connector.
Neaten wiring as appropriate.

4) Test functionality of jackleg stabilisers and boom operations.

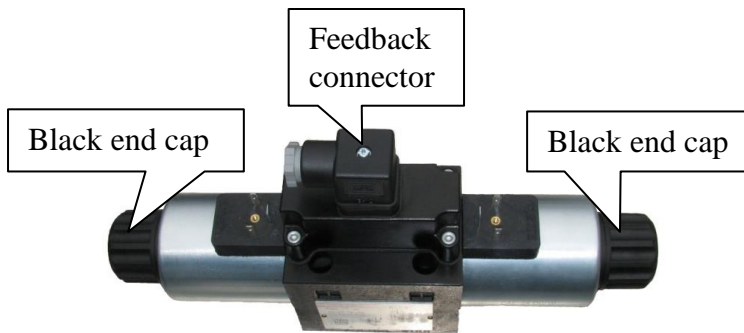


Figure 1: Atos CETOP 5

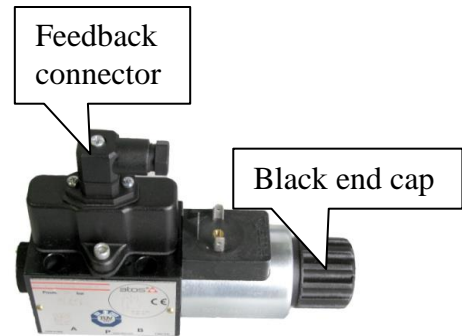


Figure 2: Atos CETOP 3

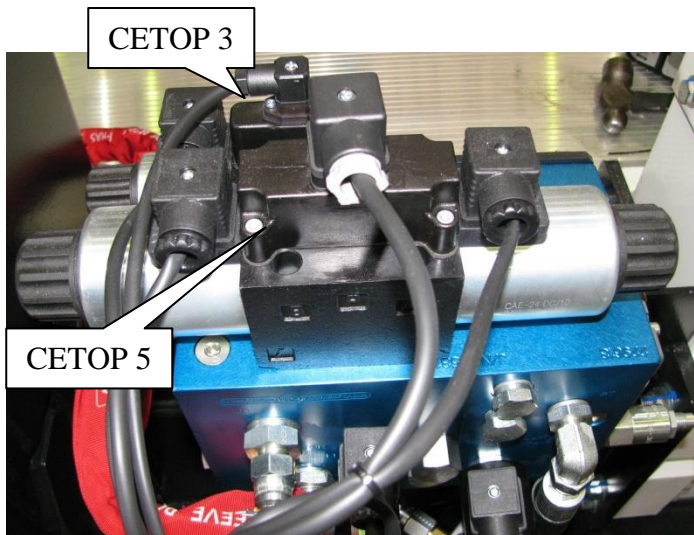


Figure 3: Base Manifold

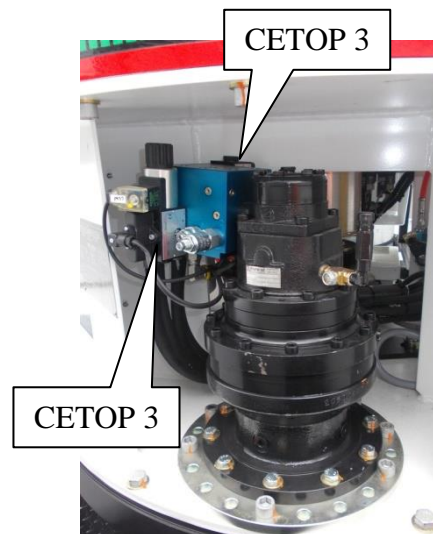


Figure 4: Slew Motor Manifold

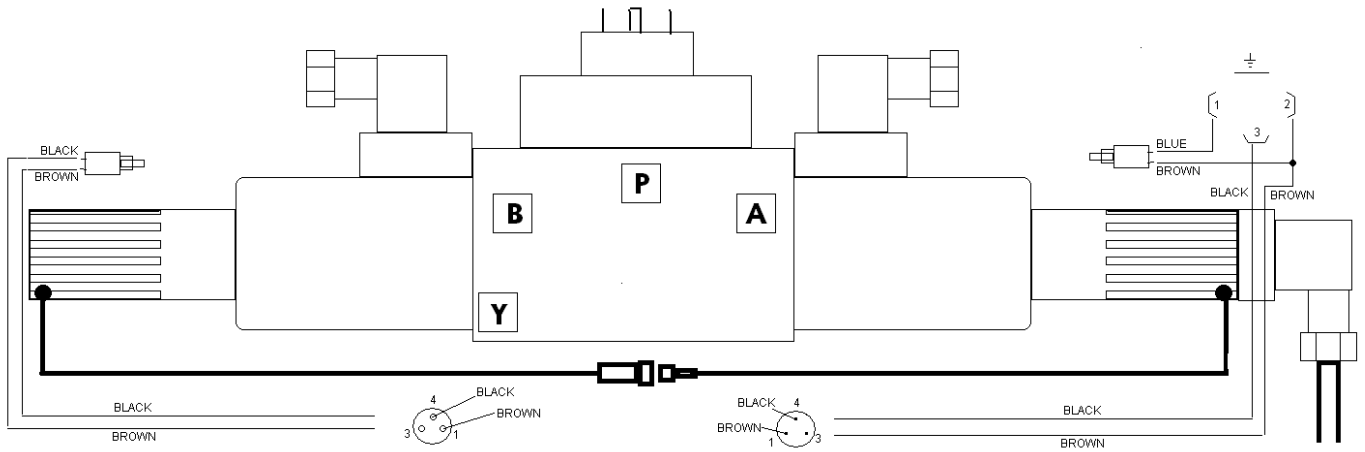


Figure 5: CETOP 5 Switching adaptor fitting diagram

Term 1 = I16
 Signal
 Term 2 = +24V
 DC
 Term 3 = I17
 Signal
 Term 4 = GND
 (No longer used.)

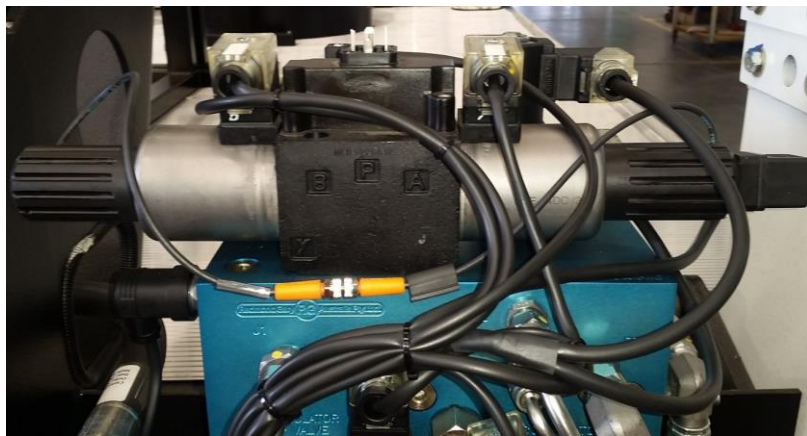


Figure 6: Switch adaptors fitted to CETOP 5

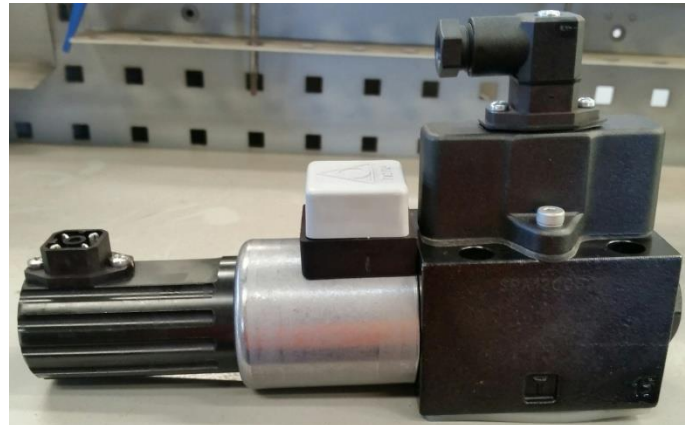
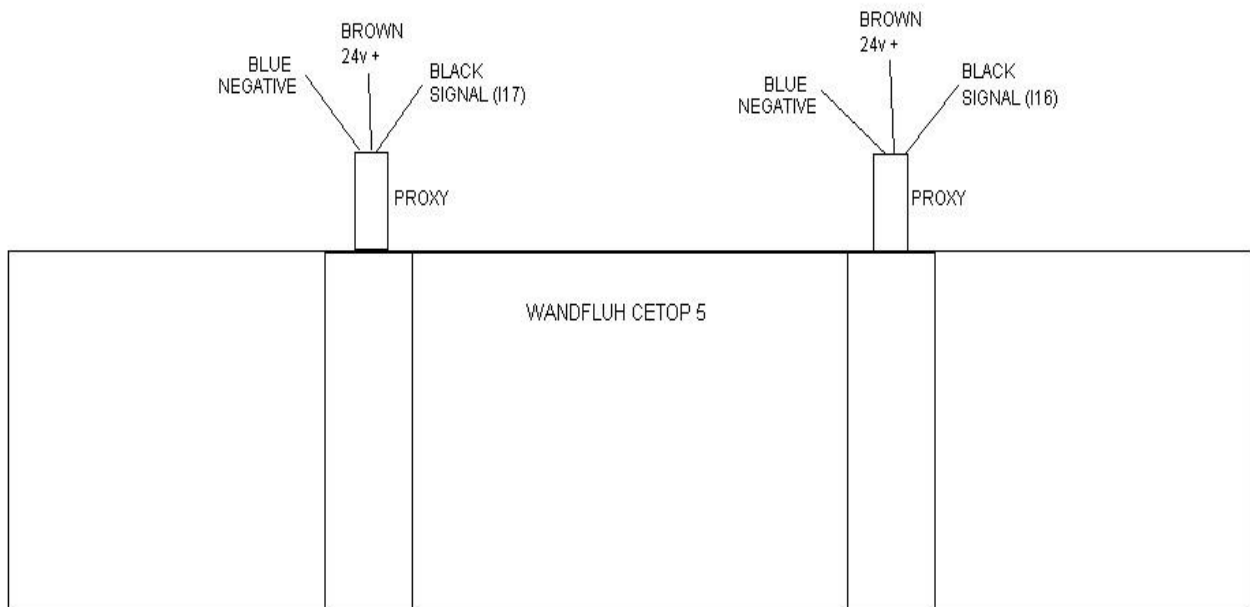


Figure 7: Switch adaptor fitted to CETOP 3

APPENDIX B

WANDFLUH TO ATOS WIRING



CETOP 5

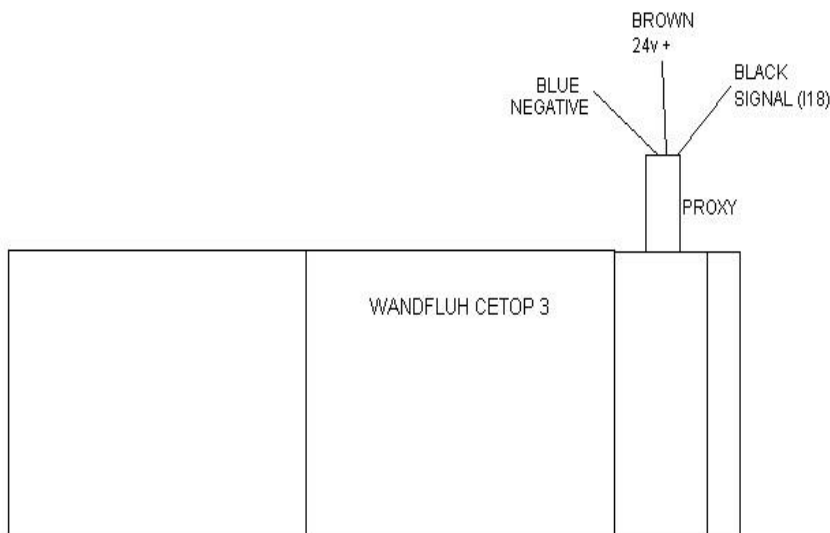
Follow wiring from proxies down to harness.

The wire that goes to the brown wire on the proxies is 24v+. This will go to terminal 2 on Hirschmann plug.

The wire that goes to the blue wires on the proxies is negative. This will go to terminal 4 on Hirschman plug.

The wire that goes to the black wire on the left proxy (signal I17) will go to terminal 3 on Hirschman plug.

The wire that goes to the black wire on the right proxy (signal I16) will go to terminal 1 on Hirschman plug.



CETOP 3

Follow wiring from proxy down to harness.

The wire that goes to the brown wire on the proxy is 24v+. This will go to terminal 2 on small Hirschman plug.

The wire that goes to the blue wire on the proxy is negative. This will go to terminal 4 on small Hirschman plug.

The wire that goes to the black wire on the proxy is signal I18. This will go to terminal 1 on small Hirschman plug.

Terminal 3 on small Hirschman is not used.