



Model: See models affected	Jan. 3, 2018
Serial #: N/A	
Product Bulletin # PDC-016	

Top Drive Control Power Modification in Driller Cabin

Issue

Some PACE-X rigs may lose top drive control power as a result of circuit breaker 7 (CB7) tripping. This condition is caused by overcurrent on the circuit after installing the oil quality sensor.

Models Affected

PACE-X Series, PACE-R800, PACE-M800, and PACE-M1000 Rigs.

Recommendation

Canrig has created a kit to address this issue. Contact RIGLINE 24/7™ Support to order the kit, and follow the procedure described in this document to modify the control circuit. Only one kit is required per rig.

Canrig P/N	Description	Quantity
AY23627	KIT, TD CONTROL PWR, RIO CABINET, D CABIN	1

Procedure

Follow steps below to modify the control power circuit.



Warning!

Follow local lock-out/tag-out procedures to isolate any power sources before performing this procedure.

Driller Cabin RIO Cabinet (PLC Cabinet) Modification

- Note that the 4 A circuit breaker 8 (CB8) will be replaced by an 8 A breaker.
- All wires not related to top drive control power will be moved from TB35 and placed on TB34 terminal strip.
- All wires that are for top drive control power are moved and dedicated to CB8 and terminal strip TB35.
- See Figure 1 below and Figure 2 on page 3.
- See Table 1 on page 4 and Table 2 on page 5 for details.

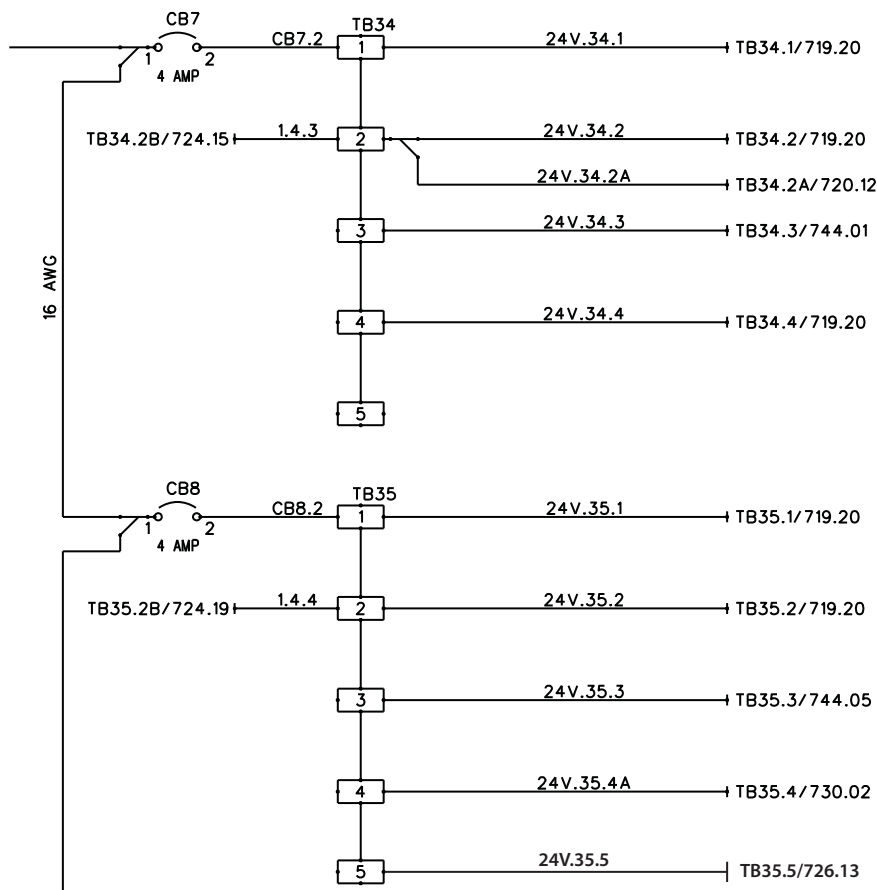


Figure 1: Wiring Before Changes on CB7 and TB34. Current Rig 1202.

1. Replace CB8, 4A circuit breaker with 8A circuit breaker supplied with the kit. See Figure 2.

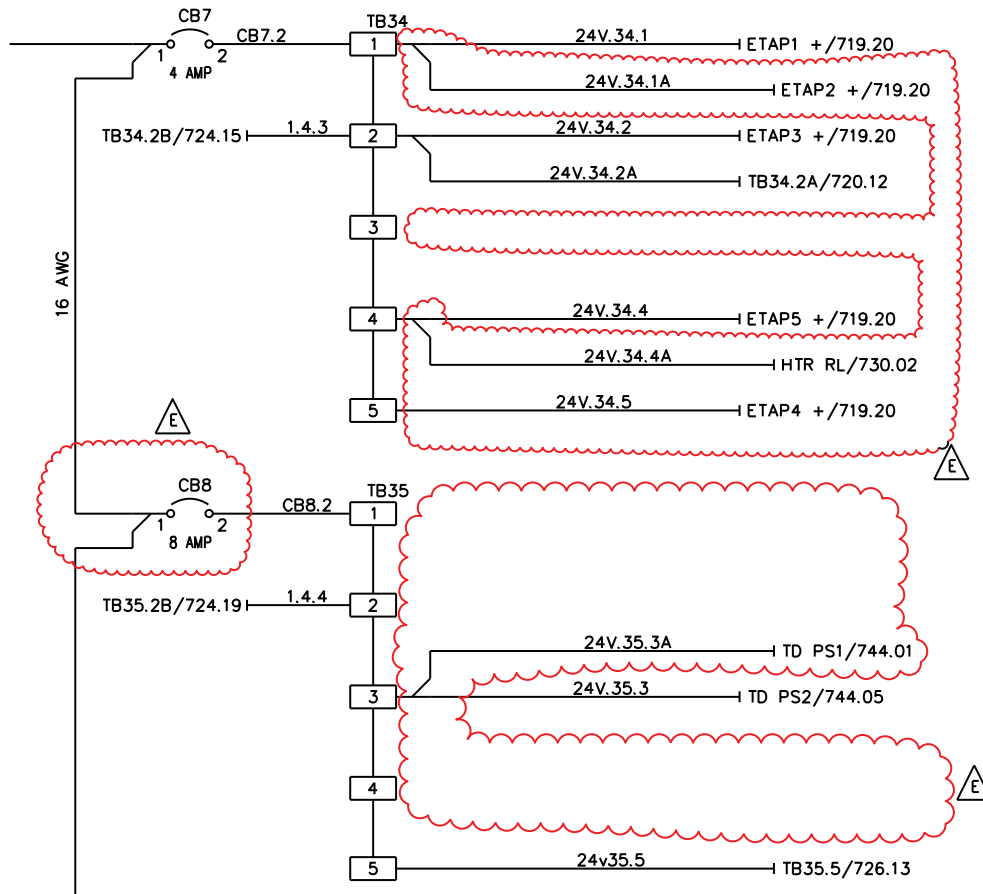


Figure 2: Wiring After Changes CB7 and TB34. Current Rig 1202.

2. Move wire number 24V.35.1 from TB35:1 to TB34:1. Relabel this wire to 24V.34.1A (ETAP 2 Power).
3. Move wire number 24V.35.2 from TB35:2 to TB34:5. Relabel this wire to 24V.34.5 (ETAP 4 Power).
4. Move wire number 24V.35.4A from TB35:4 to TB34:4. Relabel this wire to 24V.34.4A (HTR relay coil).
5. Move wire number 24V.34.3 from TB34:3 to TB35:3. Relabel this wire to 24V.35.3A (TD 24VDC).

Table 1: TB34 Changes

Before Wire Changes			After Wire Changes			
Terminal #	Current Wire #	Old Destination	Terminal #	Current Wire #	New Destination	Comment
TB34:1	CB7.2	(from CB7)	TB34:1	CB7.2	(from CB7)	No change
	24V.34.1	ETAP 1		24V.34.1	ETAP 1	No change
				24V.34.1A	ETAP 2	Moved from TB35:1
TB34:2	1.4.3	PLC 1.4.3 (DC DLR2-ETAP PWR OK)	TB34:2	1.4.3	PLC 1.4.3 (DC DLR2-ETAP PWR OK)	No change
	24V.34.2	ETAP 3		24V.34.2	ETAP 3	No change
	24V.34.2A	Stratix (PWR B)		24V.34.2A	Stratix (PWR B)	No change
TB34:3	24V.34.3	TDLO_PS1:11 (Relay)	TB34:3			Moved to TB35:3
TB34:4	24V.34.4	ETAP 5	TB34:4	24V.34.4	ETAP 5	No change
				24V.34.4A	HTR Relay	Moved from TB35:4
TB34:5			TB34:5	24V.34.5	ETAP 4	Moved from TB35:2



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Table 2: TB35 Changes

Before Wire Changes			After Wire Changes			
Terminal #	Current Wire #	Old Destination	Terminal #	Current Wire #	New Destination	Comment
TB35:1	CB8.2	(from CB8)	TB35:1	CB8.2	(from CB8)	CB8.2 changed to 8A
	24V.35.1	ETAP 2		---	---	Moved to TB34:1
TB35:2	1.4.4	TD 24VDC PWR OK	TB35:2	1.4.4	TD 24VDC PWR OK	No change
	24V.35.2	ETAP 4		---	---	Moved to TB34:5
TB35:3	24V.35.3	TDLO_PS2:11 (Relay)	TB35:3	24V.35.3A	TDLO_PS1:11 (Relay)	Moved from TB34:3
				24V.35.3	TDLO_PS2:11 (Relay)	No change
TB35:4	24V.35.4A	HTR Relay	TB35:4	---	---	Moved to TB34:4
TB35:5	24V.35.5	TD HTR/CRT SWITCH	TB35:5	24V.35.5	TD HTR/CRT SWITCH	No change

Top Drive PLC J-Box Wiring Modification

1. Add a jumper wire between TB30:1 and TB30:2 as shown on Figure 3.

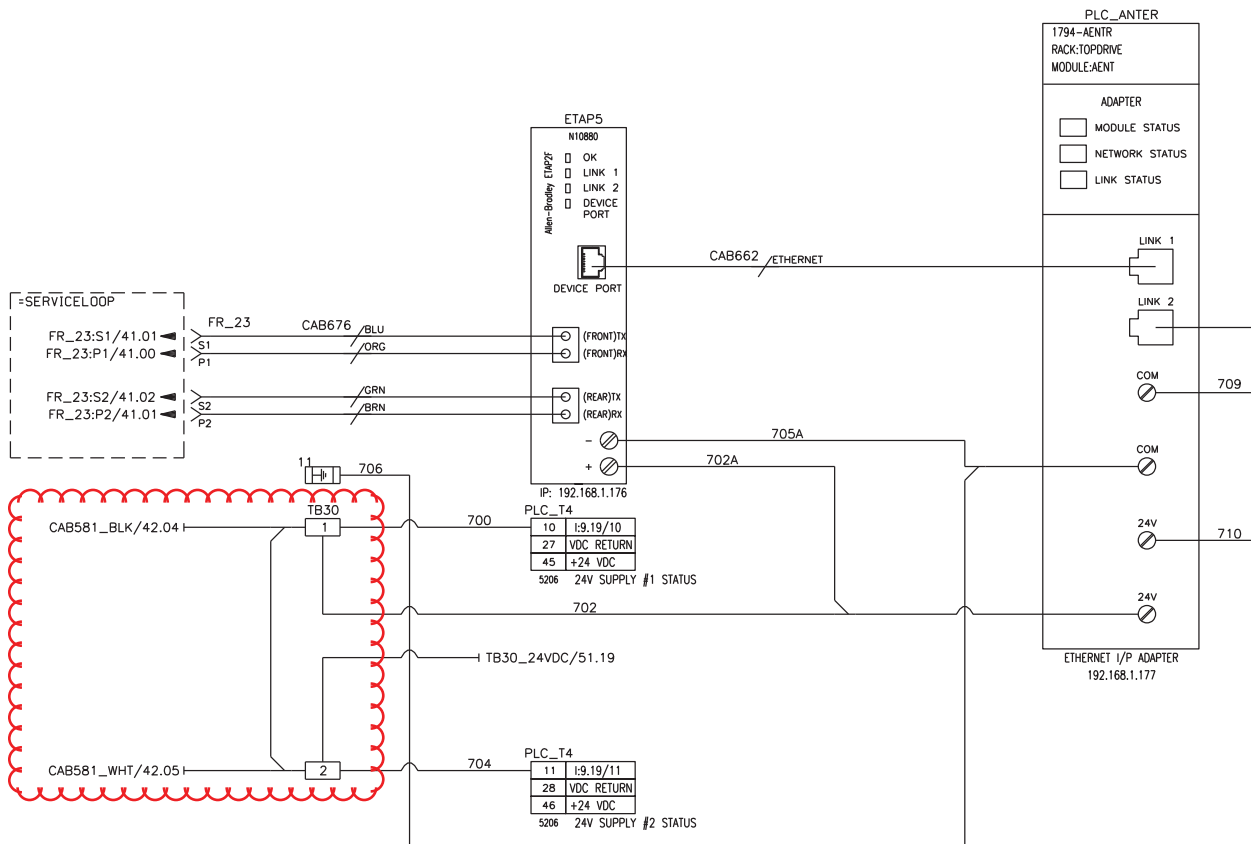


Figure 3: TD PLC J-Box