	Technica	l Bulletin		Tesco Corporation 5616 – 80th Avenue SE
No: TB110	Rev: 0	Date: June 28, 2016		Calgary, Alberta, Canada T2C 4N5 Tel: 1-877-TESCO-77 (North America)
	_	tem Upgrade with irm Switch	TESCO	Tel: 1 (713) 359-7195 (AMSS 24-hour support) Tel: 1 (713) 359-7295 (International) Email: bulletins@tescocorp.com www.tescocorp.com www.tescoparts.com
☐ Internal Us	e Only	✓ External Use	✓ Mandator	y Recommended

NOTE: All numbers in parentheses are Tesco part / document numbers unless otherwise noted.

BACKGROUND INFORMATION

A number of years ago an interlock system was introduced for the Tesco Casing Drive System (CDS). The interlock system was designed to protect the operator from inadvertently releasing either the CDS or slips and accidently dropping the casing string. The interlock system included a hydraulic switch that was fixed to the hanger plate. It operated on a cam located on the anti-rotation bracket to determine the position of the actuator. Unfortunately the anti-rotation brackets were not stable enough and this caused the switch to malfunction and rendered the CDS interlock system unreliable. This hydraulic switch has now been replaced with a "close-confirm" switch. The close-confirm switch is also mounted on the CDS hanger plate but it operates on a cam bushing that is mounted to the CDS actuator sub. The cam/close-confirm switch set-up can now reliably determine the close position of the CDS actuator. In other words, if the CDS was closed on a casing coupling instead of the intended position on the casing, the close-confirm switch would reliably determine that and initiate the interlock. The illustrations below shows the existing hydraulic switch (Figure 1) and the close-confirm switch upgrade (Figure 2).

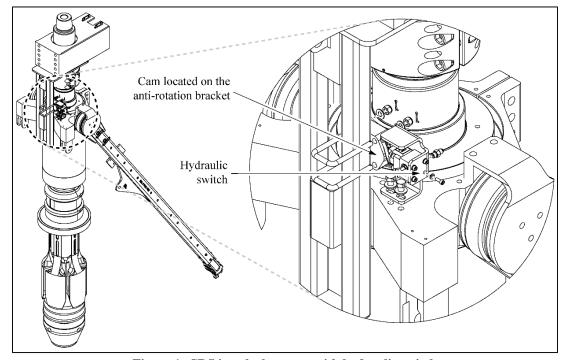


Figure 1: CDS interlock system with hydraulic switch

Version	Date (D/M/Y)	ECN	Description of changes
Rev 0	06/28/2016	157-0086	Initial release of document

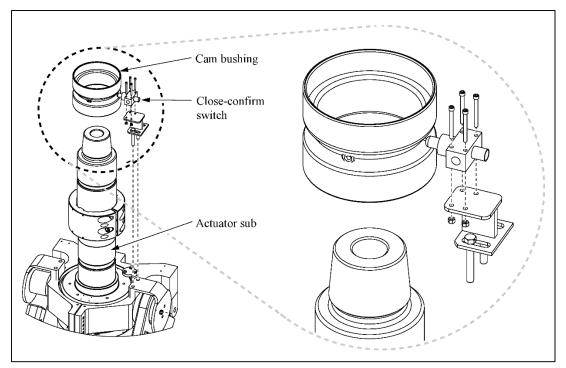


Figure 2: CDS interlock system with close-confirm switch

AFFECTED PRODUCTS

All sizes of the Internal and External CDS with integrated interlock systems.

ACTION REQUIRED

All applicable customers and all Tesco business units:

- 1. Confirm that the CDS has been fitted with the hydraulic switch (as shown in Figure 1) or with the close-confirm switch (as shown in figure 2). If the CDS has been fitted with the hydraulic switch, then proceed to step 2. If the CDS has been fitted with the close-confirm switch, nothing needs to be done apart from taking note of the proper installation and set-up as per the instructions in Chapter 3 of the CDS Installation and Operations Guide (883003).
- 2. Order the Tesco close-confirm kit 5036566 from a local Tesco Aftermarket Sales & Service (AMSS) representative. A definition of this kit is provided in Appendix A of this bulletin.
- 3. Refer to the instructions in Chapter 3 of the CDS Installation and Operations Guide to install and set up the close-confirm kit on the CDS.
- 4. Install the CDS in the rig as per the CDS Installation and Operations Guide. Follow the detailed description in the guide to install the CDS actuator hose connections, slips and close-confirm to the CDS control panel. This procedure must be followed precisely to ensure proper operation.

APPENDIX A: KIT, LOCK, CLOSE-CONFIRM, CDS

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DESCRIPTION	M,CDS :x2-1/2"	5036563 DECELERATION VALVE, LOCK, CLOSE-CONFIRM, CDS (PARKER, PN# BK06)	IM,CDS	JCx3-1/2",GR8,PLD,DR HD	;3/8"-16UNCx1/2"	PT, 5000PSI, 5PSI CRACK	SERIES,3/8"x3/8"FNPT	72SERIES, 3/8"x3/8"FNPT	IIC-SWVL	ICx#6MJIC	PT	JIC-Bikhd	OVEJIC	OXFUIC	THOO CAS SHARE WOOD IN SECOND THE	TILE Kit, Lock, Close-Confirm, CDS	CONTRACT	DATE: DATE: NA DAID DATE: 3C	OATE: DATE:	DATE	5036566 1	_
PART NO.	5036560 PROFILE, LOCK, CLOSE-CONFIRM, CDS 14436 SCREW, CAP, SKT HD, 1/4"-20UNCx2-1/2	6563 DECELERATION VALVE, LOCK, C	5036561 BRACKET, LOCK, CLOSE-CONFIRM, CDS	16327 SCREW, CAP HEX HD, 1/2"-13UNCx3-1/2",		\Box			0211 FITTING, HYD, STR, #6MNPTx#6FJIC-SWVL		0292 FITTING, HYD, STR, #6MJICx #6MNPT	4047 FITTING, HYD, STR, #4MNPTx#6MJIC-BIKhd		3718 HOSE,HYD,100R2-AT,#6x38",FJICxFJIC		MATERIAL SPECIFICATIONS: SEE BOM	HEAT TREATMENT/SPECIAL PROCESS: N/A		TOLERANCES UNLESS (MACHINING: X = + 030	XX = ± 010	BREAK EDGES 015 X 45 FABRICATION:	PLTO 24" - +1/16 > 24" - +1/8
NO. PAR			4 503	5 16	\dashv	+	8 4	9	10 02		12 02		+	15 37			TESCO	PYRIGHT TESCS CORPORATION, ALL INFORMATION	IN THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL, AND SHALL REVAIN THE SOLE PROPERTY OF TESCO CORPOSATION THIS DOCUMENT SHALL NOT BE USED COBED OB DEDBEDON UPEN IN	HOLE OR IN PART, NOR SHALL BE REVEALED IN ANY INNER TO OUTSIDE PARTIES WITHOUT PRIOR	ATTEN PERMISSION FROM TESCO CORPORATION. THIRD ANGLE PROJECTION	
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