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<b>Safety/Technical Bulletin</b>			 <p>Tesco Corporation 3993 W. Sam Houston Pkwy N., Suite 100 Houston, Texas 77043 Tel: 1-877-TESCO-77 (North America) Tel: (713) 359-7295 (International) Email: <a href="mailto:bulletins@tescocorp.com">bulletins@tescocorp.com</a> <a href="http://www.tescocorp.com">www.tescocorp.com</a> <a href="http://www.tescoparts.com">www.tescoparts.com</a></p>
<b>No: SB053</b>	<b>Rev: 0</b>	<b>Date: 09 February 2011</b>	
<b>Internal Casing Drive System (ICDS) 4-1/2" and 5-1/2"</b>			

**ATTENTION ALL CUSTOMERS / RENTERS / USERS OF**  
**TESCO Internal Casing Drive Systems (ICDS)**

**THIS BULLETIN CONTAINS IMPORTANT SAFETY AND TECHNICAL INFORMATION CONCERNING  
THE POTENTIAL OF DROPPING A CASING STRING WHILE USING THE ICDS TOOLS**

## **INTRODUCTION**

During a design review of the ICDS a potential hazard was identified with the 4-1/2" and 5-1/2" ICDS tooling. The review found that under certain conditions the 4-1/2" and 5-1/2" ICDS tooling may not be able to fully engage with casing that is sized at the high end of its tolerance range at the tooling's rated load. This condition is further exacerbated by any wear on the gripping pattern on the ICDS grapples. Having identifying this potentially hazardous situation, the use of these tools should be stopped immediately.

Figure 1 and Figure 2 show some of the tell-tale signs of poor radial loading by the ICDS tool against the inside diameter of the casing pipe. Figure 3 is a layout of the tool and casing Inner Diameter (ID) and Outer Diameter (OD).

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Signs that the grapples have slipped inside casing.

Figure 1 - Close Up View Of ICDS Grapple Tips



Signs of multiple impacts of the grapples at the end of the tool stroke. End of stroke impacts are an indicator of poor radial loading by the tool.

Figure 2 - Close Up View Of Packing Cup Seat

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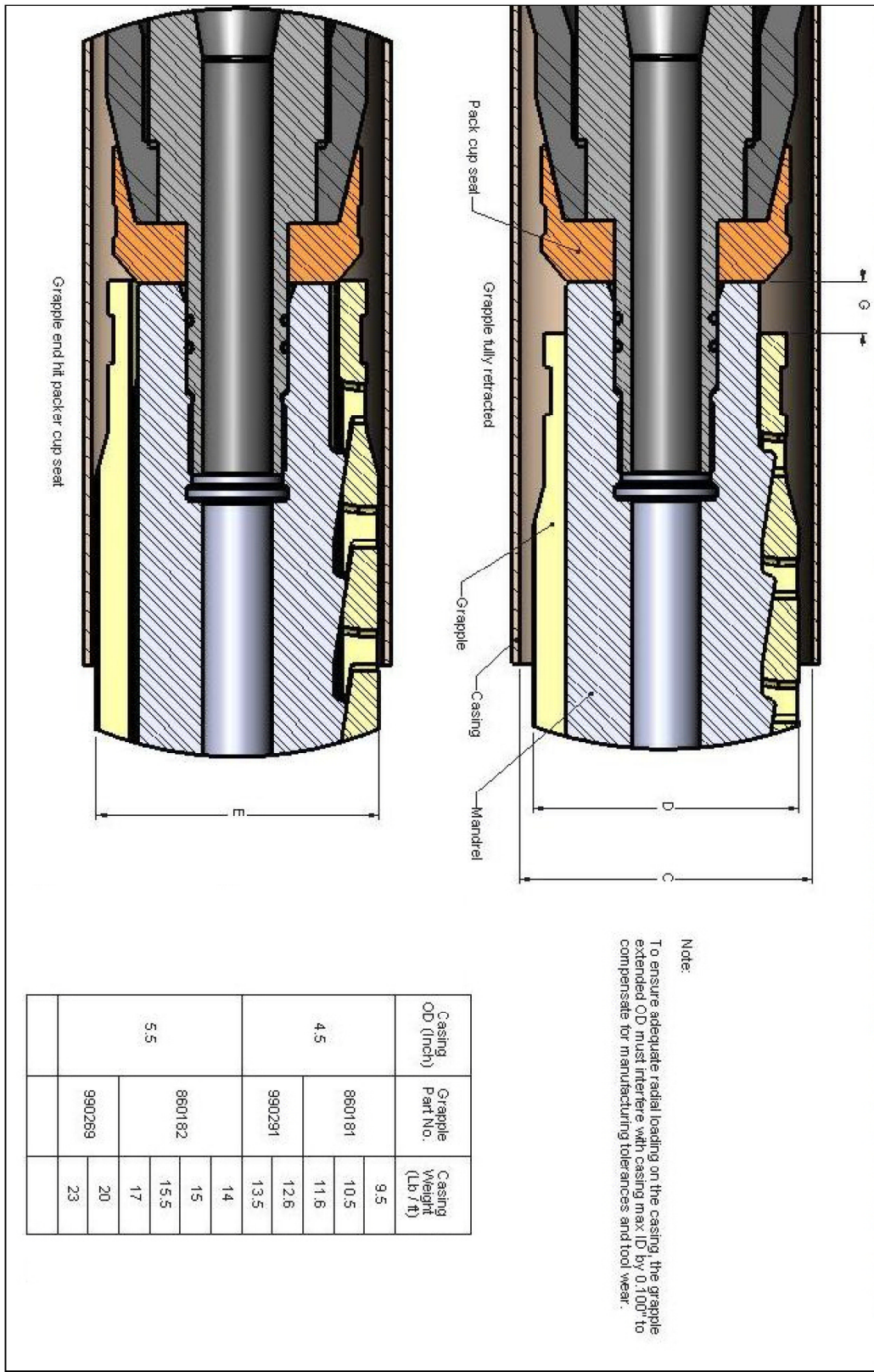


Figure 3 – Section View of ICDS Tooling

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## **MODELS AFFECTED**

<b>TESCO PART #</b>	<b>DESCRIPTION</b>
860142	Drive,Internal,4-1/2" Casing,ICDS
860147	Drive,Internal,5-1/2" Casing,ICDS

## **SAFETY CONCERNS**

Due to the tolerance range of the casing ID and the wear on the tooling, the ICDS tools may not fully engage the casing with enough radial force to hold the full load of the casing string. There is a moderate to high risk, with some tool and casing combinations, that casing strings will be dropped. In some extreme scenarios, even a single joint of casing runs the risk of being dropped.

It has been the belief that monitoring the pressure of the cylinder that actuates the ICDS tool would give the operators feedback of a positive hold on the casing. This method of monitoring the engagement of the casing by the tool is not to be trusted. A high jump in pressure merely indicates that the tool has hit the end of its stroke and that may give a false sense of security of the tool engagement.

## **ACTION REQUIRED**

1. Immediately stop usage of both 4-1/2" and 5-1/2" ICDS tooling.
2. Ensure that all ICDS tooling (TESCO Part # 860142 and Part # 860147) are segregated so they are not accidentally used.
3. As an alternative to using the 4-1/2" and 5-1/2" ICDS tooling, use the TESCO External Casing Drilling System (ECDS) tools.

Contact your local TESCO Parts and Service Center for further information regarding this bulletin and or supply of affected components noted above.

<b>Version</b>	<b>Date (D/M/Y)</b>	<b>Description of Bulletin Changes</b>
Rev 0	09/02/2011	Initial release of document

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