

# ENGINEER TO ORDER

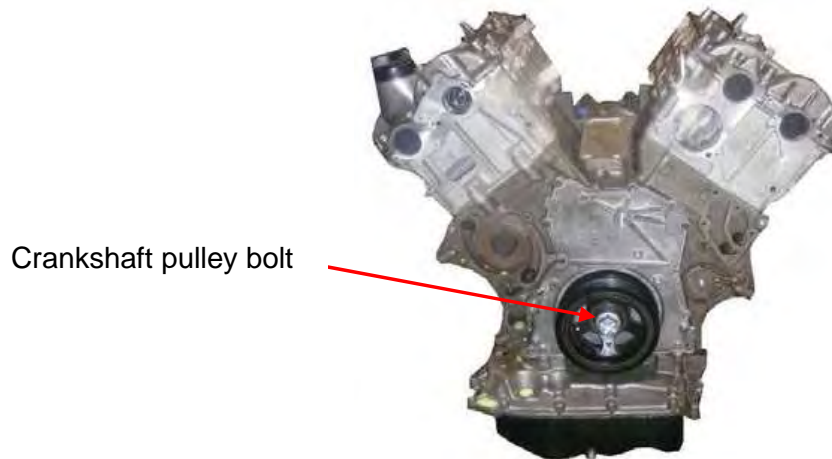
SPECIAL PROJECT INFORMATION SHEET



<b>Project Description</b>	Special Reaction for HT-52/4.5 – Crankshaft Pulley Bolt		
<b>Date created</b>	29 April 2010	<b>Project Number</b>	Q1898 Application # 1

## INTRODUCTION & APPLICATION

Automotive industry requirement to tighten engine crankshaft pulley bolt to torque and then to a further angle.



## SOLUTION

Handtorque multiplier HT-52/4.5 # 18087 fitted with torque bar adaptor # 18558, special torque reaction arm and angle gauge assembly.  
The special torque reaction arm bar is designed to locate customer's test rig.  
Angle gauge assembly includes protractor for angle measurement.



## TECHNICAL SPECIFICATION / DATA HIGHLIGHTS

Hexagon bolt 27mm A/F, tighten to 210 N.m and then through a further 180° angle. All for use with Norbar wrench TT200, 40 – 200 N.m, with ½" square drive # 13257.