

ENGINEER TO ORDER

SPECIAL PROJECT INFORMATION SHEET



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| Project Description | Torque & Angle Controller Kits | | |
| Date created | 6 September 2010 | Project Number | Q2032 |

INTRODUCTION & APPLICATION

Railway industry application where vibration can result in the loosening of torque tightened gear housing to axle bolts on diesel electric locomotives.

SOLUTION

Bolts tightened to torque and then through a specified angle to put the bolts into yield. Norbar supplied (14) kits, each comprising the following: -

- Special tool controller # Q2032.01.
- Special umbilical lead for transducer and encoder # Q2032.02.
- PT72-2000 with angle encoder, special handle guard and cabling # Q2032.03.
- Transducer 2,000 N.m to fit the above tool # Q2032.04.
- Special torque reaction, external solenoid valve, solenoid cable, hose, air regulator & lubrication unit, installation & training.



TECHNICAL SPECIFICATION / DATA HIGHLIGHTS

TTT based tool controller with pass / fail lamps, manual override reset and angle display. Enhanced cable protection to suit the tool's operating environment.