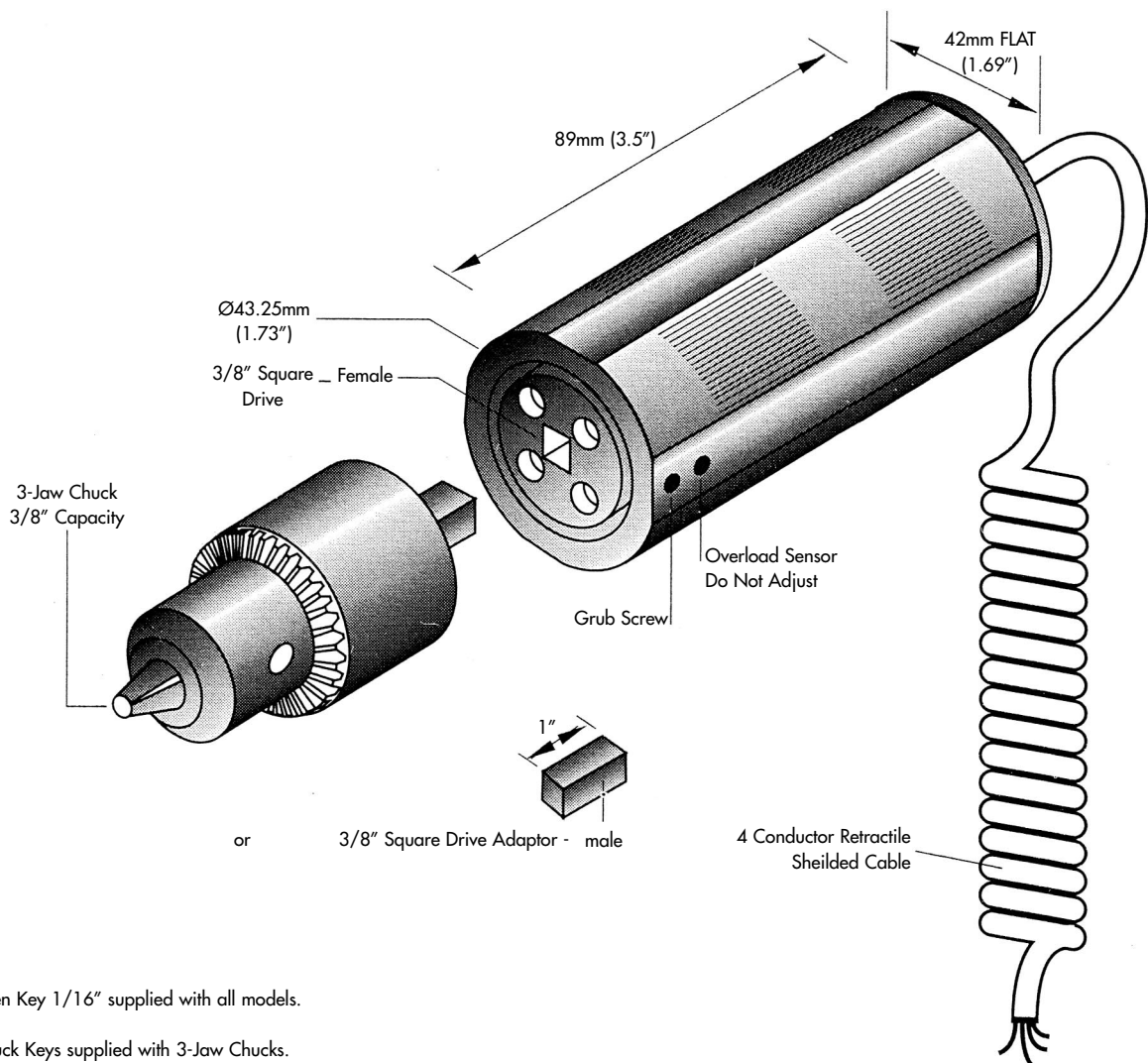


# TORQUE SCREWDRIVER

## OPERATING INSTRUCTIONS



Allen Key 1/16" supplied with all models.

Chuck Keys supplied with 3-Jaw Chucks.

**SUPPLIED WITH EITHER 3-JAW CHUCK OR SQUARE DRIVE ADAPTOR**

The Mecmesin Torque Screwdriver consists of a torque sensor with either a 3-jaw chuck or a square drive adaptor.

This unit can be used as part of the Advanced Torque Gauge (digital display unit, hard wired to the torque sensor) or, when connected to an intelligent module, it can be used with a variety of Mecmesin advanced hand held displays.

The Torque Screwdriver may superficially resemble part of a power drill, but this assembly is in fact much less robust - it is a delicate piece of equipment. The metal case provides significant protection against side impact, but it cannot protect the sensor against accidentally applied torque.

## On Receipt

On receipt of your Torque Screwdriver, attach the 3-jaw chuck/square drive adaptor to the sensor using the grub screw and 1/16" Allen key (see diagram).

## Adjusting the 3-jaw chuck

The sensor may be subjected to excessive torque when the 3-jaw chuck is being adjusted with a chuck key. A small sideways movement of the chuck key can be introduced when the key is being-twisted. This is equivalent to an axial load on the torque cell, which could overload, or even irreparably damage the unit.

**You should ideally remove the chuck from the loadcell before making any adjustment to the chuck.** This is accomplished by slackening the grub screw using the Allen key supplied.

If you have an older model where the chuck does not disconnect, or if adjusting the chuck while attached to the loadcell is unavoidable, then the chances of accidentally damaging your sensor can be reduced by following these guidelines:

- **Never overtighten the chuck key**
- **When using the chuck key, try to avoid introducing sideways movements**
- **Never make any adjustment to the chuck, unless the display unit (ATG) is switched on**

When the display unit is switched on, the audio alarm will indicate if an overload has been introduced. Should this occur, release the load immediately and press the 'MORE' key to clear the display (see AFG/AFTI Instruction Manual).

## Transit

Whenever the Screwdriver is in transit the 3-jaw chuck/square drive adaptor **MUST** first be removed in order to protect the transducer from accidental torque application.

## Storage

During storage chucks should be treated to a smearing of light grade machine oil and must be kept in a dry environment when not in use.

## Warning

Torque sensors may be damaged if dropped.

SPECIFICATIONS	
<b>Weight:</b>	460g
<b>Accuracy:</b>	±0.5% F.S.D.
<b>Capacities:</b>	
50oz-in	300mN-m
<small>special care needs to be taken with this low capacity unit</small>	
12lb-in	1.5N-m
50lb-in	6N-m
100lb-in	10N-m
<b>Overload Sensor:</b>	Set under normal conditions at 500% overload protection

Mecmesin reserves the right to alter equipment specifications without prior notice.