



TEMPER AXLE PRODUCTS CORPORATION

PO Box 1127, Fonda, New York 12068 USA (518) 853-3467

Leading the world in bearing adjustment technology

Instructions for Temper[®] EMT

The Temper EMT (Endplay Measuring Tool) is a precision measuring device for quick and accurate determination of wheel-end bearing endplay of heavy duty truck wheel-ends.

The delicate indicator that is the heart of this device is substantially protected in a steel frame. However, this is a precision instrument and should be handled with care.



1- Mount the Spindle Adapter

Choose the correct spindle adapter for the wheel being tested.

Thread the spindle adapter onto the end threads of the spindle and tighten firmly to hand tight.



2- Mount the EMT Frame

While holding the EMT frame, loosen the two locking knobs on the back of the indicator and slide the indicator all the way towards the handle. Lock the indicator with the locking knobs.

Position the EMT frame leg mounts on the wheel/hub so that it engages four of the lugs. Secure all four lug nuts at least hand tight.



Adjust the sliding indicator mount towards the spindle adapter until the indicator tip makes contact with the spindle adapter and is depressed a small amount. Lock the indicator position with the locking knobs.

Visit Us at www.Best-Wheel-Life.com

Doctor Preload and Temper are registered trademarks of Temper Corporation
©2010 Temper Companies

3- Measure the Endplay

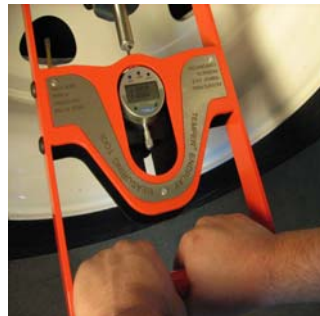
Push the frame handle firmly towards the wheel.

Press the zero button on the indicator to zero the indicator.



With both hands on the EMT frame handle, pull it firmly towards you and read the indicator. This is the endplay value.

NOTE: Whenever a reading of zero is measured, the wheel-end may be over tightened. The Temper EMT cannot be used to measure a zero endplay or preload condition.



How to Adjust Endplay with Temper-Loc Spindle Nuts and Temper EMT

When a Temper-Loc single nut spindle nut is used, the endplay setting can be adjusted using special wrenches made by Temper Axle Products Corporation.

Wheel adjustment must be started by tightening the Temper-Loc nut with at least 200 ft-lb of torque while spinning the wheel in order to align the bearing rollers. Turn-back the nut just one half turn.

Apply the Temper EMT and measure endplay using the procedure described above.

Apply the correct size Temper open wrench to the nut, and insert a 3/4 inch drive handle in the square opening. Tighten or loosen the nut, and re-measure endplay. Repeat this process until the desired endplay setting is achieved. **NOTE:** The special wrench for the R size Drive Axle must be positioned over the Temper-Loc nut **BEFORE** the Temper EMT frame is attached to the wheel.

Remove the wrench and EMT. Follow the Temper-Loc nut procedures to insert the retainer. Inspect the assembly.

Adjusting Bearing Setting With Jam Nuts

Wheel adjustment must be started with the inner nut only with at least 200 ft-lb torque while spinning the wheel in order to align the bearing rollers. Back off the nut just one-half turn.

Apply the Temper EMT and measure endplay using the procedure described above.

Use an open wrench to set to an endplay target value of ten thousandths of an inch (0.010"). This high value is needed to allow for the change of setting that will result from tightening the outer (jam) nut.

Remove the Temper EMT. Apply the locking washer and the outer (jam) nut and hand tighten the jam nut. Tighten the jam nut to the torque value specified by TMC procedure or the jam nut manufacturer.

Be sure that enough axle thread remains exposed to re-assemble the EMT spindle adapter and re-mount the EMT frame. Re-measure the endplay, and repeat the entire process until the desired endplay setting is achieved.

INSPECT THE INSTALLATION:

Failure to inspect installation could result in component failure and bodily injury.