mountz
the torque tool specialists®

DM

Calibration & Repair

Instructions

Mountz, Inc
ISO 9001 (2000) company

Single & Double
Square Drive models

Corporate Headquarters: 1080 North 11th Street, San Jose, CA 95112 Phone: (408) 292-2214 Fax: (408) 292-2733
www.etorque.com

Dismantling of DM Wrench

1. Make sure that the scale is turned down to the minimum setting.
2. Fix the DM into a vice with one side area upside.
3. Pull the hexagon key (26) out. Knock slightly with a plastic hammer onto the fixing of the hexagon key.
4. Move the tube to set the holes of the thrust washer (22) in correspondence to the holes in the handle. Remove the elastic pins (16) by means of a pin punch or something similar. Push the complete tube (18) with help of a screwdriver or something similar into the wrench to remove the remaining pressure of the compression spring (17). Now you are able to remove the safety ring (23) and the thrust washer (22) with help of a needle-nose pliers. When you now tilt the wrench the tube (18) as well as the spindle screw (20) and compression spring (17) will come out of the handle.
5. To work on the levers, remove the elastic pins (14) on the lid (1) by means of a pin punch. There are always two elastic pins in one hole. To lift the lid (1) please knock slightly with a plastic hammer several times onto the point marked in the drawing on page 3.

Note:
If it is not possible to remove the hexagon key as mentioned above, please proceed as follows:

Remove the pin in the hexagon key by means of a pin puncher and store this pin and the loose part of the hexagon key. Push the second part of the hexagon key into the handle by means of a screwdriver or something similar. Now the dismantling can be done as mentioned above. Before starting the re-assembly of the wrench, you have to remove the complete spindle screw (20) out of the tube (18) to get the second part of the hexagon key (it lays in the spindle screw!). The hexagon key has to be re-assembled by means of the pin.

Adjustment of DM Wrench

Should you find out that the readings are higher than +/-4% in the minimum setting of the wrench (20%) remove washers (if existing) and grind the bottom of the compressions spring (17).

Should the readings be lower than +/- 4% in the minimum setting of the wrench, Should the readings be lower than +/- 4% in the minimum setting of the wrench, please add washers.

Should you find out that the readings are higher than +/- 4 % in the maximum setting of the wrench (100%), please grind the intermediary lever or/and final lever (the tip of the lever should be light shifted anti-clockwise). If there is a great shift of tolerance please grind the bottom of the compression spring (17) a little bit smaller.

Should the readings be lower than +/-4 % in the maximum setting of the wrench, please grind the intermediary lever or/and final lever (the tip of the lever should be light shifted clockwise). If there is a great shift of tolerance please shorten the compression spring (17) and give in a blind plug (same length as the shortened piece of the spring).

Re-Calibration of DM Wrench

The wrenches should be tested at minimum (20%), medium (60%) and maximum (100%) setting by means of a torque tester. The maximum permissible deviation of reading is +/-4 % (see ISO 6789).

If the readings are out of tolerance the wrench first has to be adjusted as mentioned above.

Reassembly of DM Wrench

Please insert the spindle screw (20) into the tube (18) and fit them as mentioned above with help of the thrust washer (22) and safety ring (23). Make sure that the holes in the thrust washer are in the same position as the holes in the handle. Drive in the elastic pins (16) in order to avoid rotation of the thrust washer.

The hexagon key (26) is fixed into the hexagon female of the spindle screw (20) with the compression spring and cylindrical pin by means of a needle-nose pliers.

Here with the reassembly is finished and the wrench is ready for use.

Should an adjustment not be possible for the reason of a great shift of tolerance or a great w ear and tear of the mechanical parts w e recommend you to send the wrench back to the manufacturer.

Storing Wrench

After being used, click wrenches should be turned back to minimum scale value. This helps to preserve the springs and ensures a longer product life cycle with high precision.

Testing & Servicing

For testing the torque wrench either use a torque analyzer or torque transducer within the range of the torque wrench. Make sure you apply the torque slowly and smoothly.

In order to maintain accuracy, it is crucial that torque control measuring equipment be calibrated regularly.

We recommend a general once a year calibration interval. However, it is the user's organization that must determine suitable intervals based upon equipment performance, application, degree of usage and management objectives.

For calibration, re-adjustment or repairs, please send the tool to one of our 3 service locations.

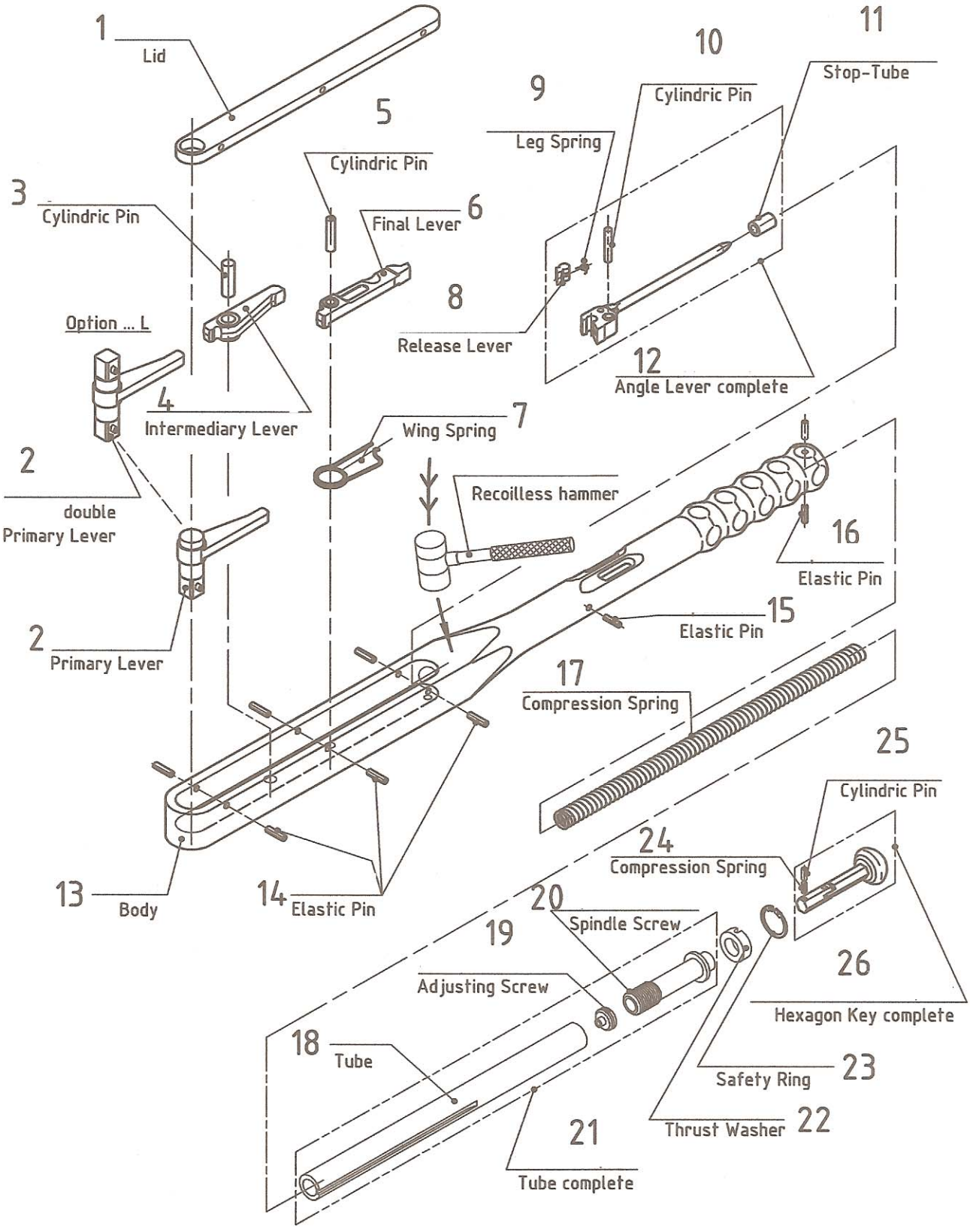
Mountz Service Locations

Eastern Service Center
19051 Underwood Rd.
Foley, AL 36535
Phone: (251) 943-4125
Fax: (251) 943-4979

Western Service Center
1080 N.11th Street
San Jose, CA 95112
Phone: (408) 292-2214
Fax: (408) 292-2733

Mexico Service Center
Mountz Mexico SA de CV Chihuahua
Av. Cristobal Colon #15343
Col. Paseos de Chihuahua
Chihuahua, Chih. Mexico CP 31125
Phone: (614) 481-0023
Fax: (614) 481-0053

www.etorque.com
Download a "Service Form" and include a copy when you send the tools in to be serviced.


1
Lid
5
Cylindric Pin
3
Cylindric Pin
6
Final Lever
Option ... L
8
Release Lever
9
Leg Spring
10
Cylindric Pin
11
Stop-Tube
12
Angle Lever complete
4
Intermediary Lever
7
Wing Spring
2
double
Primary Lever
Recoilless hammer
16
Elastic Pin
15
Elastic Pin
2
Primary Lever
17
Compression Spring
25
Cylindric Pin
24
Compression Spring
20
Spindle Screw
19
Adjusting Screw
26
Hexagon Key complete
13
Body
14
Elastic Pin
18
Tube
Safety Ring
23
Thrust Washer
22
21
Tube complete