

DODGE TORQUE-ARM II TEMPLATES 3.0

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DISCLAIMER:

The information provided in this package is current and accurate as of the release date above. Any engineering changes on equipment represented by the information in this package made after the above revision date will not be reflected in this release. Engineering changes are made at the discretion of Rockwell Automation/Dodge and may occur without notice to the user of this information.

INTRODUCTION:

These templates were created in AutoCAD release 14. Dxf files have been created that can be imported into and are compatible with release 12 or higher.

The reducer housing and all accessories exist on different layers, which may be turned on or off to display the desired arrangement.

Templates will be displayed in three views:

- A. Right profile
- B. Frontal
- C. Plan

HOW TO USE .DXF FILES IN AutoCAD:

1. Drag and drop file from file manager into a blank AutoCAD drawing. The template will generate on the screen.
2. Click the layers icon or type "layer" or "ddlmodes" at the command line. The "Layer and Linetype Properties" dialog box should display.
3. Turn layers on that you wish to display. See step 3 in the section below for layer content details.
4. Once you have the desired arrangement of reducer and components, you may save the drawing and insert it into your layout drawing. If you do not desire to carry undisplayed layers into your layout drawing, use the "wblock" command to save your reducer composite drawing.

HOW TO USE .DWG FILES IN AutoCAD:

1. Drag and drop file from file manager or use the insert command in AutoCAD to place template in drawing. Do not explode and move views at this time. Note that only the reducer housing (without provision for a backstop) and input shaft are displayed initially.
2. Click the layers icon or type "layer" or "ddlmodes" at the command line. The "Layer and Linetype Properties" dialog box should display.

3. Turn layers on that you wish to display:

00 thru 12 (xx)

The first two digits in the layer name describe the reducer case size. For example, 01 is a TA1107H reducer. The second set of characters keep the reducer and components in a logical order for display purposes in the layer and linetype properties dialog box. See the explanation of each below:

xx01_reducer

Reducer Housing And Input Shaft. This is displayed initially whenever a template is opened or inserted into a drawing. For TA2115H and TA3203H reducers, the housing and input shaft is initially displayed for a 5:1, 9:1, 15:1 and 25:1 ratios. If a 33:1 ratio is desired for a TA2115H or a 32:1 ratio is desired for a TA3203H reducer, layer 0201a or 0301a must be turned off and layer 0201b or 0301b must be turned on.

xx02_tapered_bushing_kit

Tapered Bushing Kit. Unless you are using the reducer as a screw conveyor drive, turn this layer on.

xx03_rod_assembly

Torque-Arm Rod Assembly. This is an optional accessory. You will not need it if you are flange mounting the reducer or if you are using the reducer as a screw conveyor drive. The rod assembly is inserted at the lower left side of the reducer, but can be moved to any of the positions shown in the product catalog.

xx04_cooling_fan

Cooling Fan Assembly. This is an optional accessory. Turn this layer on if a cooling fan is desired.

xx05a_backstop_no

The backstop_no layer is initially displayed. This is the default arrangement for your speed reducer, unless an optional backstop is specified. Leave this layer on unless a backstop is required or the reducer is being used as a screw conveyor drive. In either case, turn this layer off.

xx05a_backstop_yes

Backstop Assembly. This is an optional accessory. If a backstop assembly is desired, you should turn off the backstop_no layer and turn on the backstop_yes layer. If the reducer is being used as a screw conveyor drive, neither should be turned on.

xx06a_motor_mount_pos_b_m1

xx06b_motor_mount_pos_b_m2

xx06c_motor_mount_pos_b_m3

Motor Mount Assembly, Position "B" (top motor mount assembly). If this accessory is desired, turn on only the layer with the desired mounting position: M1, M2 or M3. This option is only for a reducer mounted in position "B". See product catalog for more information. The motor top and bottom plates are not grouped with the motor mount support structure and can be moved together to better align the motor and reducer shafts. The motor mount top plate can be moved independently to accommodate motor shaft to reducer shaft center distance. See the note on the drawing that is displayed with this layer.

xx07a_belt_guard_pos_b_m1

xx07b_belt_guard_pos_b_m2

xx07c_belt_guard_pos_b_m3

Belt Guard Assembly, Position "B", with Motor Mount in Mx Position. This optional accessory is for use only in conjunction with the standard motor mount in position "B". Belt guard selection must match the corresponding motor mounting position (M1=M1, M2=M2 & M3=M3). Position of belt guard may be adjusted in the top and side views. See the note on the drawing that is displayed with this layer.

xx08_scd_adapter_kit

Screw Conveyor Drive Adapter Kit. This optional accessory is required if the reducer is to be used as a screw conveyor drive, unless you have made other provisions for mounting the reducer.

xx09_adjustable_packing_kit

Adjustable Packing Kit. This is an optional accessory for use only with the screw conveyor drive adapter kit.

xx10a_1_50_drive_shaft**xx10b_2_00_drive_shaft****xx10c_2_44_drive_shaft****xx10d_3_00_drive_shaft****xx10e_3_44_drive_shaft**

Screw Conveyor Drive Shaft. These are reducer output shafts to be used only with the screw conveyor drive. The third set of characters in the layer name describe the drive shaft diameter. For example, 2_44 is a 2 7/16 diameter drive shaft.

xx11a_motor_mount_pos_c_m1**xx11b_motor_mount_pos_c_m2****xx11c_motor_mount_pos_c_m3****xx11d_motor_mount_pos_c_m4**

Motor Mount Assembly, Position "C" (side motor mount assembly). If this accessory is desired, turn on only the layer with the desired mounting position: M1, M2, M3 or M4. This option is only for a reducer mounted in position "C". See product catalog for more information. The motor top and bottom plates are not grouped with the motor mount support structure and can be moved together to better align the motor and reducer shafts. The motor mount top plate can be moved independently to accommodate motor shaft to reducer shaft center distance. See the note on the drawing that is displayed with this layer.

xx12a_belt_guard_pos_c_m1**xx12b_belt_guard_pos_c_m2****xx12c_belt_guard_pos_c_m3****xx12d_belt_guard_pos_c_m4**

Belt Guard Assembly, Position "C", with Motor Mount in Mx Position. This optional accessory is for use only in conjunction with the standard motor mount in position "C". Belt guard selection must match the corresponding motor mounting position (M1=M1, M2=M2, M3=M3 & M4=M4). Position of belt guard may be adjusted in the top and side views. See the note on the drawing that is displayed with this layer.

4. Once you have the desired arrangement of reducer and components, you may explode the block and move the views where needed on your drawing. Be advised that the undisplayed layers still have blocks in them and will have to be turned on in order to delete them. Once your finished reducer composite drawing is exploded and moved, undisplayed layers will not move with it.

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