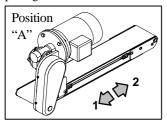
Re-assembly Instructions

2100 End Drive Top Mounting Package

The end drive top mounting package is ordered from the factory in either configuration shown by Position "A" or "D" of Figure 1 along with the conveyor belt travel direction shown by arrow 1 or 2 of Figure 2. Actual direction of conveyor belt travel is indicated by an arrow decal affixed to side of conveyor. The same mounting package is used for both flat belt and cleated belt conveyors.



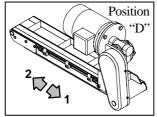
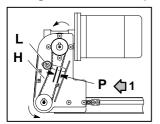


Figure 1: Flat Belt (left) & Cleated Belt (right)



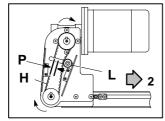


Figure 2: Timing Belt Tension Detail



WARNING



To prevent injury, make sure all electrical power sources have been disconnected before you perform any maintenance or adjustments or replace any components.

Attaching to Conveyor

- Remove and discard two original tail plate screws (B of Figure 4) from outboard shaft side of conveyor assembly.
- 2. The gearmotor and mounting plate (C) are shipped already sub-assembled, as shown. Attach this sub-assembly to the conveyor using the two 8 mm x 12 mm socket head shoulder screws (E) with 9 Nm torque.
- 3. If desired, re-orient motor to the alternate position shown by detaching the four (4) mounting screws, turning the gearmotor 90° and re-securing the 4 screws (Figure 3).

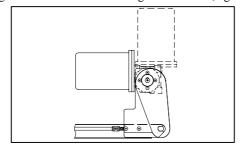


Figure 3: Gearmotor Re-orientation Detail

4. Place a square key (I) into the keyway of the conveyor output shaft and install the driven pulley (G). Similarly, place a square key (J) in the keyway of the gear reducer shaft and install the drive pulley (F). Bring the pulleys and the tensioning roller assembly (L) into alignment with each other and secure them onto their respective shafts by tightening the pulley set screws [or Taper Lock® bushing screws] (K).

NOTE:

Use the hex key wrench furnished with the Taper Lock[®] style pulley kit. Retain wrench for future service.

For this drive arrangement, a Taper Lock[®] pulley (F of Figure 4) and bushing (K) combination, when provided, should only be installed on the gear reducer output shaft and not on the conveyor shaft.

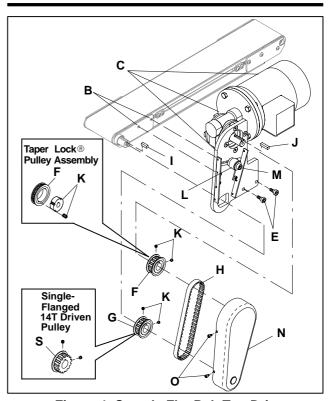


Figure 4: Sample Flat Belt Top Drive

NOTE:

For the combination 14T and 14T Pulley Kit only, be sure to install the single-flanged pulley (\$ of Figure 4) onto the conveyor shaft in the direction shown.

5. Install the timing belt (H) around the pulleys. Determine which direction the conveyor belt is traveling (as shown by arrow 1 or 2 of Figure 2) and position the tensioning roller assembly (L of Figure 2) on the appropriate slack side of the timing belt, as shown. Make sure timing belt is centered with respect to all three components before adjusting tension in the next step.

<continued on next page>

Re-assembly Instructions

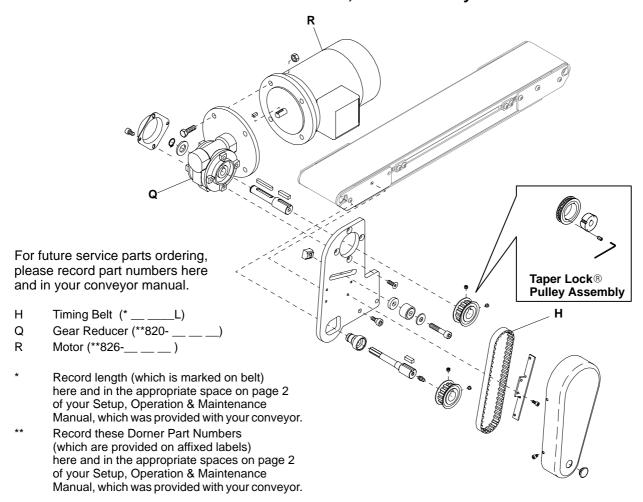
- 6. Adjust the timing belt tension by sliding the belt tensioning roller assembly (L of Figure 2) against the belt. Timing belt tension can be measured at the mid-point (P) on the tension side of the belt. At this point, tension should adjusted for a 3 mm belt deflection with 0.5 kilograms of force applied.
- 7. After the required tension is achieved, tighten the M8 x 40 mm socket head cap screw (M of Figure 4) with 24 Nm of torque.
- 8. Re-attach belt guard (N of Figure 4) using all four (4) M4 x 6 mm socket head cap screws (O).

NOTE:

Do not over-tension the timing belt. Over-tensioning may cause reduced belt life or bearing and drive damage. Every timing belt application exhibits its own individual operating characteristics. The optimum timing belt tension should be determined experimentally. If necessary, continue to slide the tensioning roller assembly (L of Figure 2) against the timing belt (H) until belt is tensioned so as to prevent jumping the teeth under the most severe conditions or heaviest load that the drive will encounter.

Replacement Parts

For unidentified items, contact factory.





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DORNER MFG. CORP.

580 Industrial Drive, PO Box 20 Hartland, WI 53029-0020 USA **USA**

TEL 1-800-397-8664 (USA) FAX 1-800-369-2440 (USA)

Outside the USA: TEL 1-414-367-7600, FAX 1-414-367-5827

DORNER

Arnold-Sommerfeld-Ring 2 D-52499 Baesweiler Germany TEL (02401) 80 52 90 FAX (02401) 80 52 93