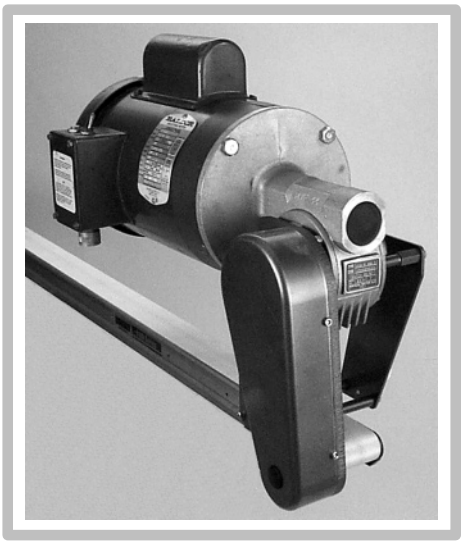
DORNER®

Assembly Instructions

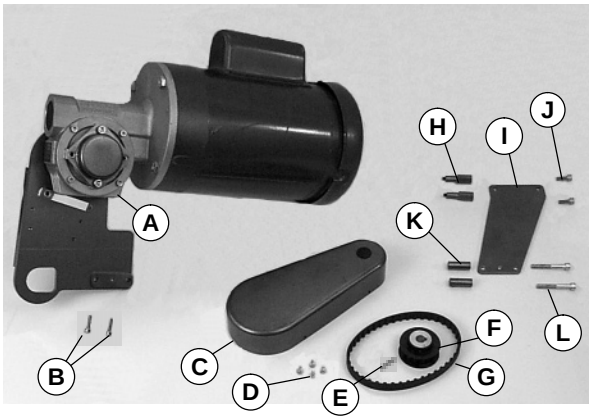
6100 Series Top Drive Mounting Package For Heavy Load, 90˚ Gearmotor For 2¨ or 3¨ (44 mm or 70 mm) Conveyors



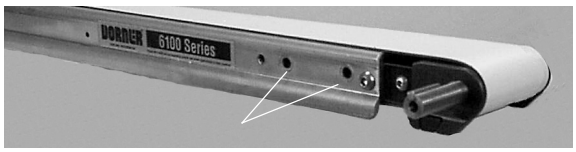
Completed Bottom Mount Package, position "D" shown (Cleated Belt Conveyor Mounting Similar)

WARNING

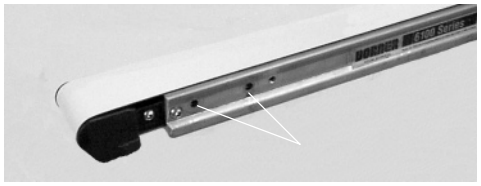
To prevent injury, make sure all electrical power sources have been disconnected and locked-out before you perform any assembly or adjustments. NEVER operate equipment without guards or other protective devices properly secured in place. In addition, keyway on conveyor drive shaft may be sharp! Exercise caution when mounting pulley.



Step 1: Unpack and layout the sub-assembly and loose components as shown.



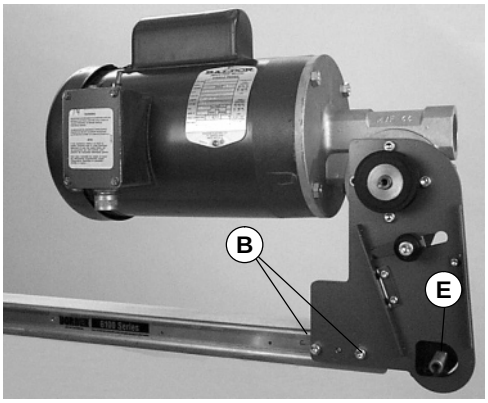
Step 2: Locate drive output shaft and remove original factory-installed screws, where indicated.



Step 3: On side opposite drive output shaft, remove original factory-installed screws, where indicated.

Illustration References

A	Top Mounting Package Sub-assembly
B	Drive Plate Mounting Screws, (2) M6 x 30 mm, Socket Head
C	Drive Cover
D	Cover Mounting Screws, (4) M4 x 6 mm, Socket Head
E	Square Key, 4 mm
F	Conveyor Driven Pulley
G	Timing Belt
H	Hex Posts (2)
I	Gearhead Support Plate
J	Bracket/Hex Post Mounting Screws, (2) M6 x 12 mm, Socket Head
K	(2) Spacers
L	Plate to Conveyor Mounting Screws, (2) M6, Socket Head
M	Timing Belt Tensioner
N	Mid-point of Timing Belt
O	Set Screw (2 furnished with Pulley)



Step 4: Squarely align and attach the top mount package sub-assembly to the conveyor as shown. Tighten the M6 x 30 mm drive plate mounting screws (B) with 88 in-lb (9.9 Nm) of torque. Then, install square key (E) into conveyor drive shaft.

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6100 Series Top Drive Mounting Package
For Heavy Load, 90˚Gearmotor
For 2¨ or 3¨ (44 mm or 70 mm) Conveyors

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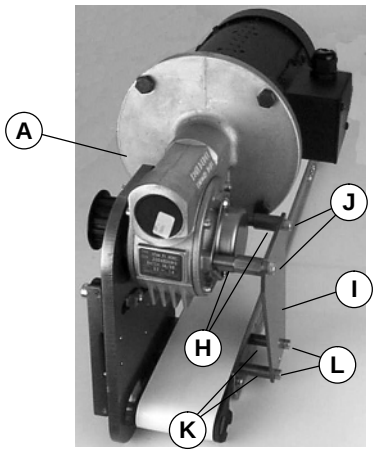
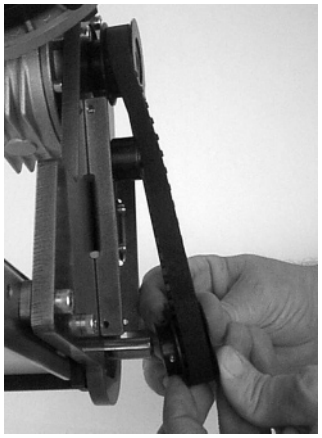
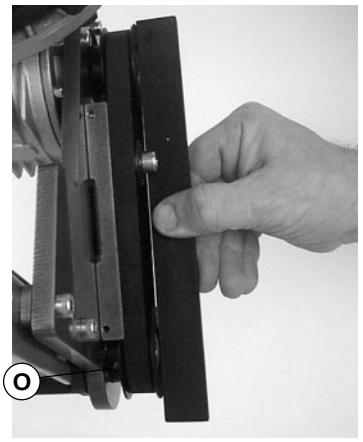


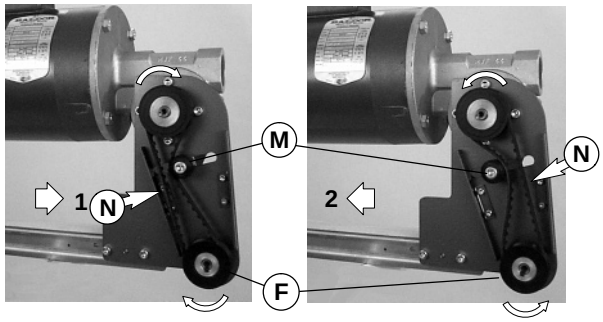
Step 5: Tightly secure the ends of the hex posts (H) into the aligning holes in the gearhead. Next, align and loosely attach the wider end of the gearhead support plate (I), to the hex posts with (2) M6 x 12 mm screws (J). Next, loosely attach the narrower portion of the plate (I) to the aligning holes in the side of the conveyor, using the spacers (K) and the bolts (L). Then, tighten all of the M6 screws with 88 in-lb (9.9 Nm) of torque.



Step 6: Wrap timing belt around driven pulley (F). Next, align and install pulley onto conveyor shaft (with key installed).



Step 7: Align driven pulley (on conveyor shaft) with drive pulley (on gearmotor shaft) using a straight edge. Once aligned, tighten both pulley set screws (O).



Step 8: Assemble drive components as shown. Depending on conveyor belt travel (direction 1 or 2), locate timing belt tensioner (M) as shown. Tension timing belt to obtain 1/8¨ (3 mm) deflection when applying 1 lb (4.3 N) of force at the timing belt mid-point (N).

Step 9: Attach drive cover (C) with screws (D).

For replacement parts, contact an authorized Dorner Service Center or the factory.

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