

CT and LT Series: For Roller Chain Drives

Mounting Requirements

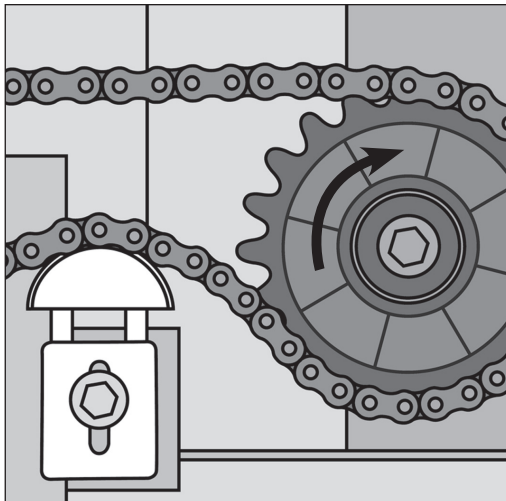
Before beginning the installation, review the following:

- Mounting bracket and supporting framework must be sturdy to prevent twisting under load.
- Mounting bracket and linear tensioner must be located to allow for correct alignment with the driveR and driveN sprockets.
- The linear tensioner should always be mounted on the slack side of the drive. See Figure 1.
- A linear tensioner used on a chain drive should always be positioned on the outside of the chain. See Figure 1.

Note: If using the LT series and idler sprocket, at least three teeth must engage the chain.

- If possible, position the linear tensioner approximately $1/2$, but no less than $1/3$, of the center distance from the driveR sprocket.

Fig. 1



Assembly Instructions

1. If you are using a CT series tensioner, continue to step 2; otherwise, mount the idler sprocket to the LT linear tensioner head.
2. Drill a hole in the mounting bracket, positioned to meet the Mounting Requirements, corresponding to mounting bolt size outlined in Table 1.
3. Insert mounting bolt in linear tensioner body and into the mounting hole. See Figure 1. Hand tighten only! Check the alignment with the driveR and driveN sprockets.

Any misalignment must be corrected!

4. Determine amount of travel, and necessary tightening force to be applied to the chain. See Table 1.
5. With the tensioner loosely mounted place the chain over the sprocket.
6. Apply force to body of tensioner until predetermined tensioner head travel is achieved.
7. With tensioner securely held in position, tighten the mounting fastener.
8. Before starting the drive, recheck drive alignment and check all mounting fasteners for tightness.

Table 1. Tensioner Data

Model Series	Force Range (lbs.) ⁽¹⁾	Total Travel (in.)	Appx. Force (lbs.) ⁽¹⁾ per 1/8" Travel	Mounting Slot	Mounting Hole (Thru)	Mounting Hole (tapped)
CT1000-L	5 - 30	1.10	2.8	0.42	–	–
LT1000-L	5 - 30	1.10	2.8	0.42	0.40	3/8 - 16
CT1000	15 - 40	0.85	3.7	0.42	–	–
LT1000	15 - 40	0.85	3.7	0.42	0.40	3/8 - 16
CT2000	20 - 60	1.25	4.0	0.49	–	–
LT2000	20 - 60	1.25	4.0	0.49	0.51	1/2 - 13
CT3000	45 - 100	1.65	4.2	0.57	–	–
LT3000	45 - 100	1.65	4.2	0.57	0.51	1/2 - 13
CT3000-H	30 - 200	1.00	21	0.57	–	–
LT3000-H	30 - 200	1.00	21	0.57	0.51	1/2 - 13

Note: (1) All forces are nominal.



US

Tel. 1.800.243.3374
1.717.665.2421
Fax 1.717.665.2649

UK

Tel. +44 (0)870 757 7007
+44 (0)1924 482 470
Fax +44 (0)1924 482 471

www.fennerdrives.com

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