Supplemental Instructions for Low Headroom Track with Rear mount Torsion Spring
Minimum headroom 4” residential 7” commercial

These instructions are designed to work in conjunction with the regular instructions. Please read them before beginning the installation.

Minimum head room requirement on low headroom is 4” for residential and 7” for commercial.

You will notice some obvious differences in your installation of low headroom track. A wrap around bottom corner bracket is used instead of the standard bottom corner bracket. This bracket allows the lift cable to ride on the outside of the track and keeps the cable from hanging up on the door during operation. See Figure 35.

The top corner brackets are different and are installed at the very top of the top section. See figure 36. **If your door requires a strut on the top section it must be installed over the top of the top bracket, using the holes in the top bracket. See figure 48A**
The top bracket has been changed in order to obtain the minimum headroom requirement. See figure 36.

If the door does not seal totally with the top corner bracket in this position, the bracket may be turned around and mobbed up or down on the door as needed to obtain a snug seal.

Installation of the tracks is basically the same as normal installation except the vertical track is 14” shorter than the door height and track junction plated are used instead of horizontal angles. See figure 37.

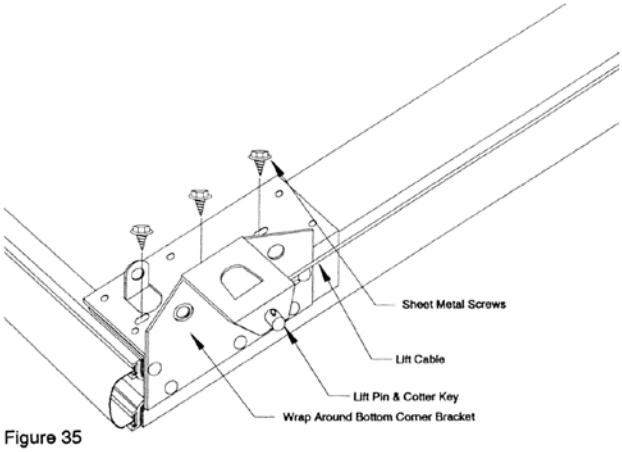

Figure 35

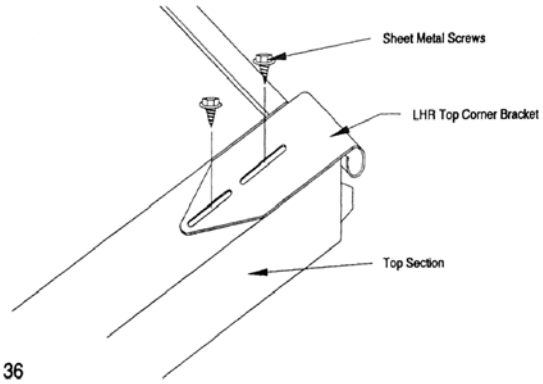

Figure 36

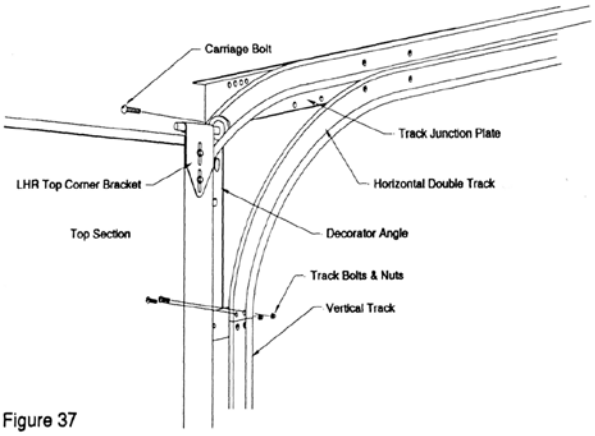

Figure 37

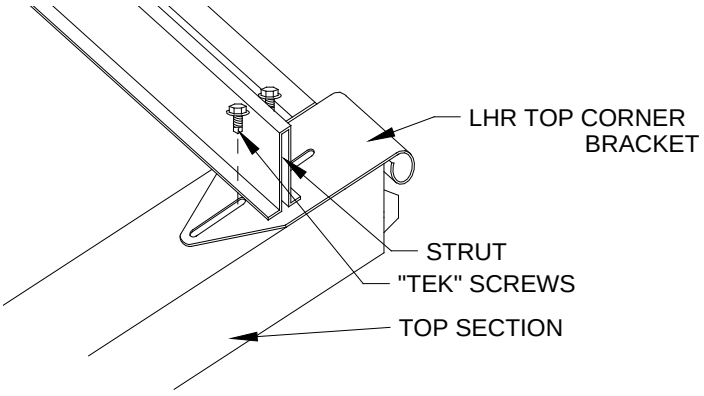

FIGURE 48A

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When installing rear track hangers, the hangers must be place on the inside of the end bearing plated so they won't interfere with the cable or cable drums. Holes must be drilled in the rear bearing plated to provide mounting of the rear hangers. See figure 38.

The tracks must be at a right angle to the front wall and level. Do not sway brace at this time.

At this point the cable sheave needs to be installed if it is not already. On large residential door and all commercial doors a 5" sheave is used and will already be installed on the track. On smaller residential doors a 4" sheave is used. It should be mounted approximately 9" back from the front of the track in the hole provided on the outside of the track junction plate with a 3/8" x 1 ½" slotted oval head blot and nut. See figure 39.

A center mounting pad needs to be constructed and fastened to the ceiling. This pad is used to secure the spring anchor bracket. Make sure this bracket is heavy duty. The spring anchor bracket is fastened to this center mounting pad. When fastening the spring anchor bracket make sure it is aligned with the end bearing plates. See figure 40.

Note. If an electric operator is to be installed, offset the center mounting pad so the operator can be installed in the center of the door.

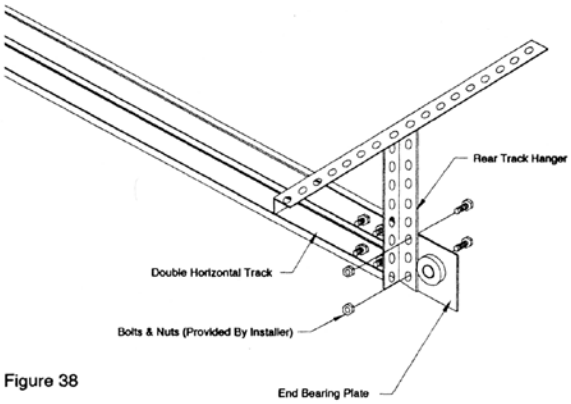

Figure 38

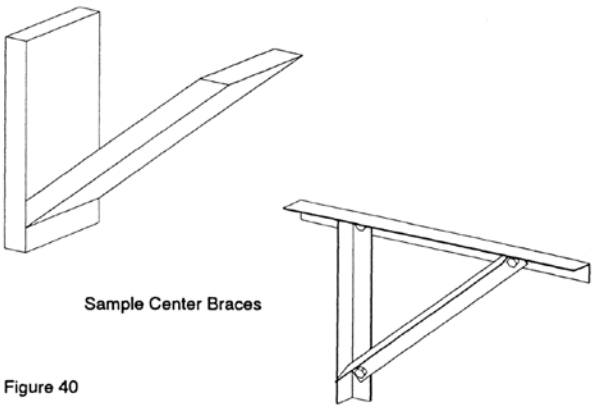
Sample Center Braces

Figure 40

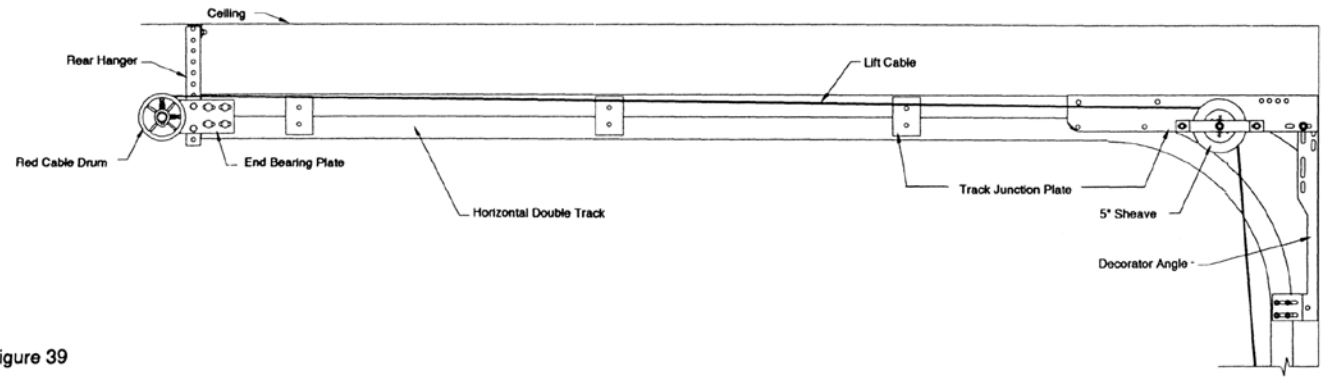

Figure 39

From the inside of the garage looking out, mount the torsion spring assembly with the red end torsion spring on the left side of the universal spring anchor bracket and the black end torsion spring on the right side. See figure 41.

Place the torsion assembly in the overhead position by slipping the ends of the shaft into the end bearing plates.

Bolt the torsion spring(s) to the spoing anchor bracket as in Step 26 of the residential instructions, or step 27 of the commercial instructions.

Mount the black cable drum on the left side of the door on the outside of the track with the set of screws facing out. Repeat with the red drum on the right side. See figure 41.

Bring the lift cables up and over the top of the cable sheave (pulley) and secure it to the drum with the cable stop fitting through the slot in the drum, as with normal installation.

Note: The cables must peel off the tops of the cable drums. See figure 42.

Making sure the cable drum is against the bearing in the rear bearing plate, spin the drum until the cable is taut and tighten the set screws.

If your door is supplied with a hollow torsion shaft, tighten the set screws until they dimple the torsion shaft. Be careful not to strip the threads.

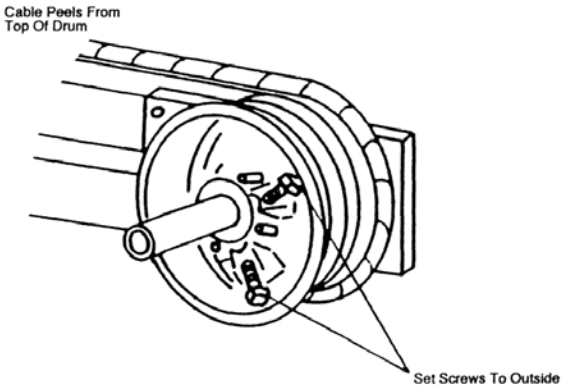

Figure 42

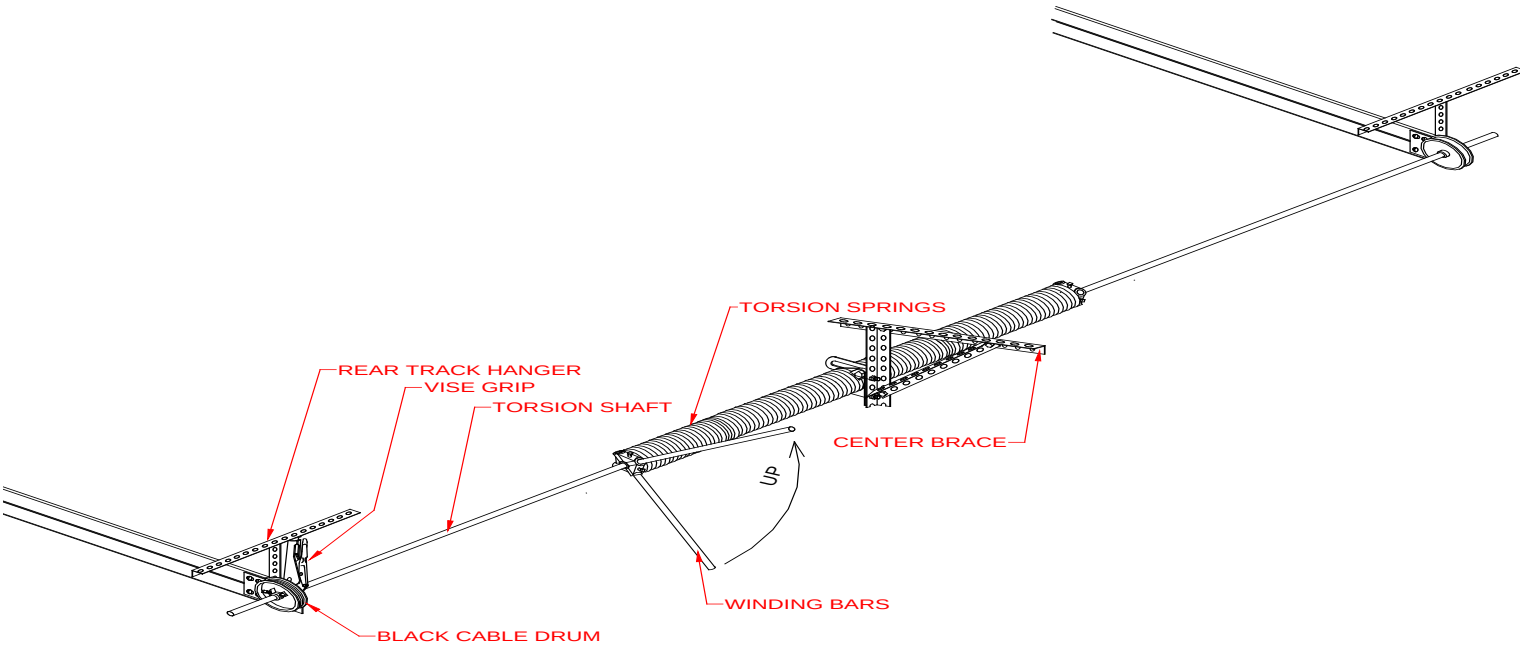

Figure 41

Mount the other cable drum making sure both cables are taut before tightening the set screws on the second drum.
Keeping the cables taut, clamp a vise grip to the torsion shaft and allow it to rest against the rear hanger. This will prevent the shaft from turning while tension is being applied to the torsion springs.
Positioned in back of the torsion spring assembly, looking from the inside of the garage out, wind the torsion springs up. The correct number of turns is indicated on the packing sheet or on the chart in these instructions. See figure 43.

Note: Spring tension is dangerous! Make sure you have adequate winding bars and that tey are bottomed in the winding plugs when stressing the springs. Refer to the regular instructions for more detailed winding information.
Add the sway braces to the rear track hangers before opening the door.

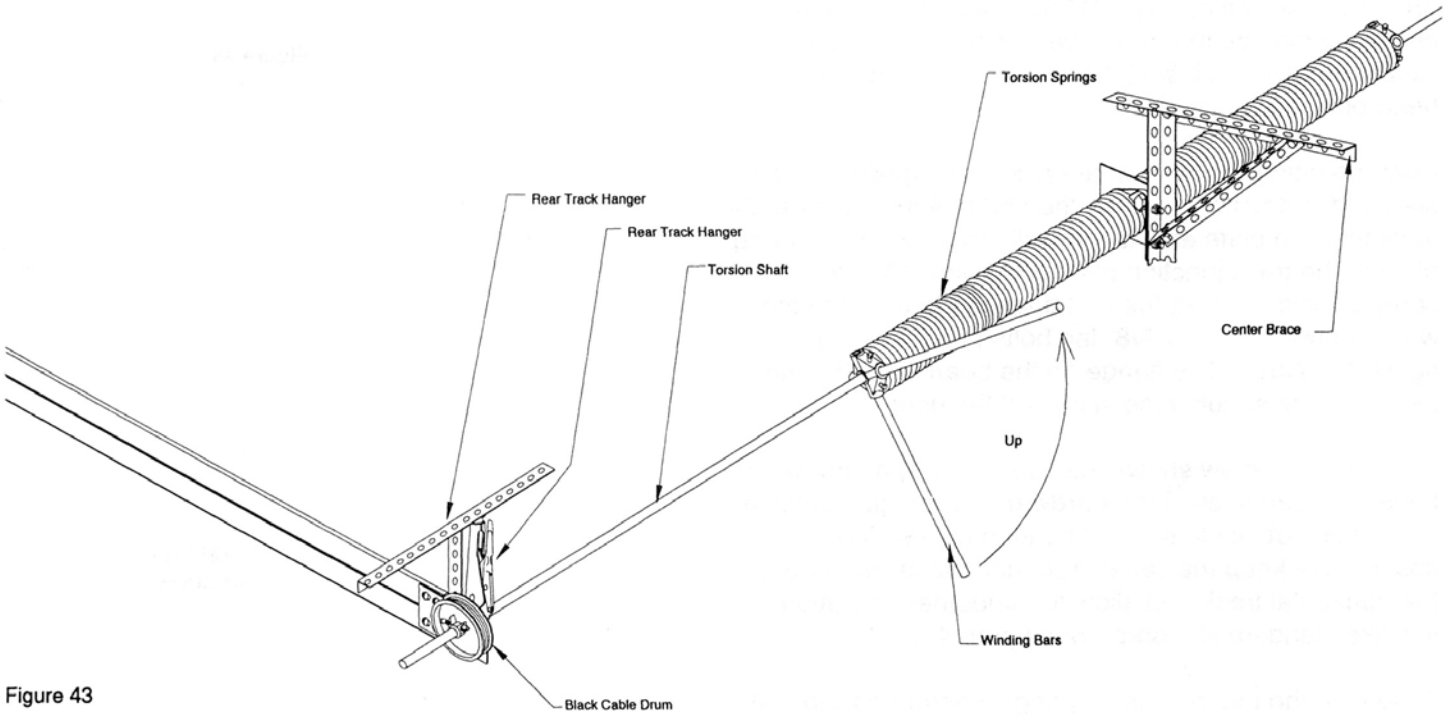

Figure 43