

Quick Topics

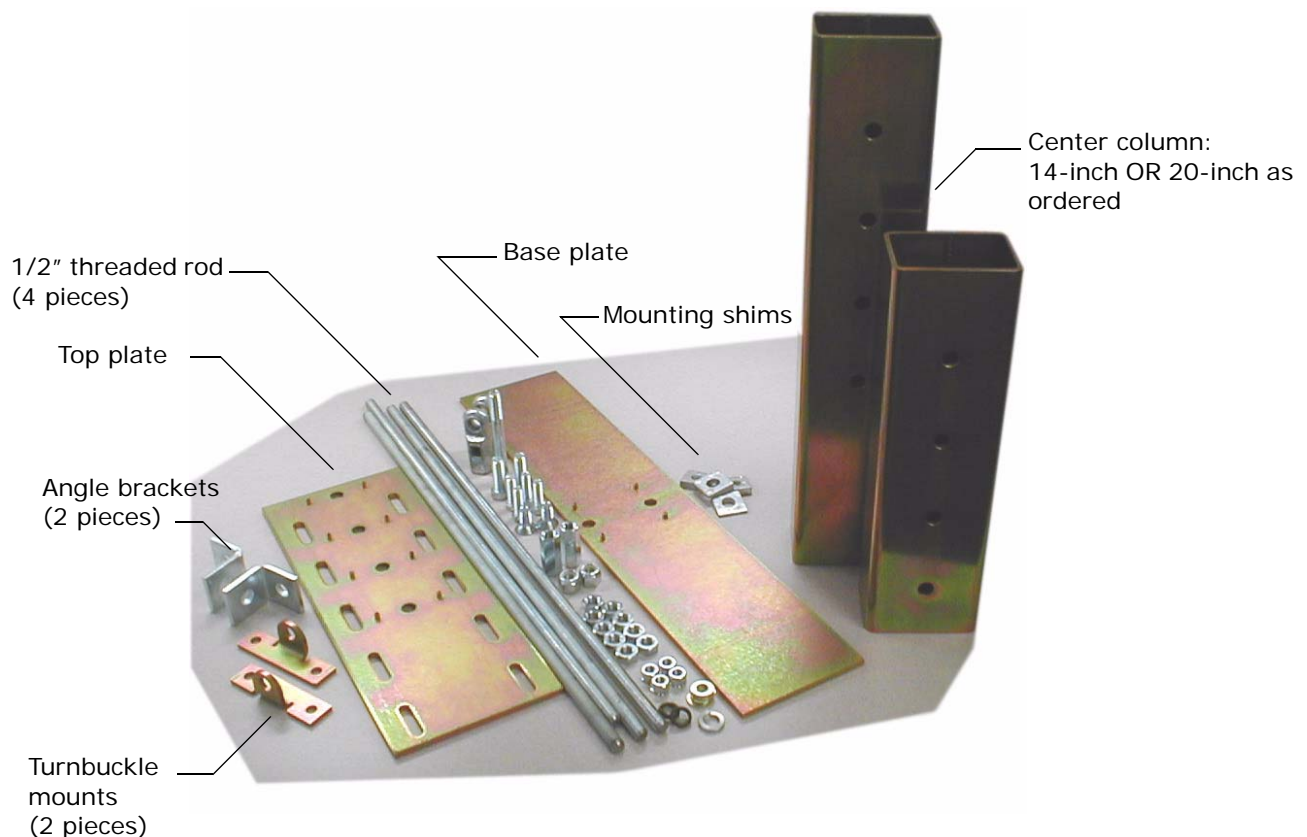
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Landing System Pedestal

In This Instruction

This instruction describes assembling the MCE landing system pedestal. The pedestal hardware kit is shipped with your choice of a 14- or a 20-inch center column to provide adequate height to clear the guide wheel assembly on the elevator cartop. (Other column heights are available by special order. Do not attempt to trim column length in the field— the finished ends must be parallel to within 0.002” of an inch.) Kit contents and both center columns are shown below. (The table on the following page lists kit hardware by part number, quantity, and description.)



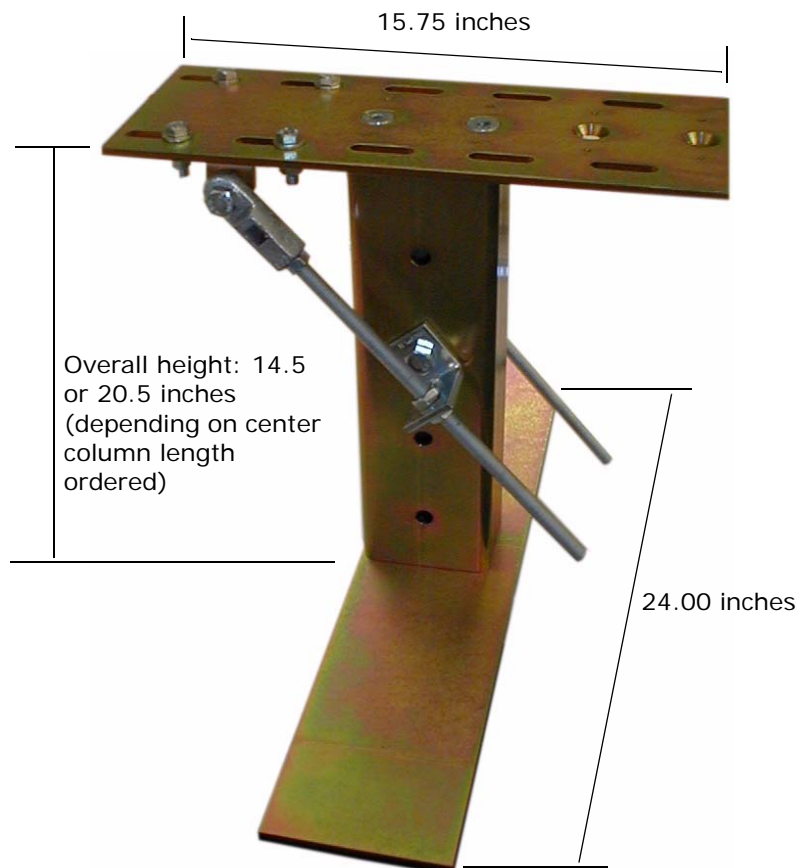
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LS-PEDESTAL-BSE Kit Contents

| Part # | Quantity | Description |
|------------|----------|--|
| 19-01-0204 | 2 | Screw, machine, flat head, socket, 1/2"-13 x 1 |
| 19-04-0052 | 2 | Washer, split-lock, 1/2" |
| 41-04-0028 | 2 | Stand off nut, coupling, 1/2" - 13 x 1 3/4 |
| 19-08-0058 | 4 | Rod, threaded, 1/2" - 13, 24" length |
| 19-02-0027 | 9 | Jam nut, 1/2" - 13 |
| 19-01-0205 | 4 | Bolt, machine, hex head, 3/8" - 16 x 1 1/4 |
| 19-01-0206 | 2 | Bolt, machine, hex head, 1/2" - 13 x 1 1/2 |
| 19-02-0028 | 4 | Nut, Kep, 3/8" - 16 |
| 19-02-0029 | 2 | Nut, lock, nylon-insert, 1/2" - 13 |
| 19-04-0062 | 4 | Washer, high strength, 3/8" |
| 19-01-0600 | 2 | Socket threaded rod, 1/2" - 13 |
| 40-02-0173 | 2 | Bracket, angle, 1/2" - 13 |
| 19-01-0207 | 1 | Bolt, machine, hex head, 1/2" - 13 x 4" |
| 19-04-0061 | 1 | Washer, split-lock, 1/2" |
| 19-04-0600 | 4 | Washer, beveled square, 1/2" galvanized |
| 40-25-0014 | 1 | Pedestal base plate |
| 40-25-0016 | 1 | Pedestal top plate |
| 40-25-0017 | 2 | Pedestal strut bracket |

Finished Assembly Sample

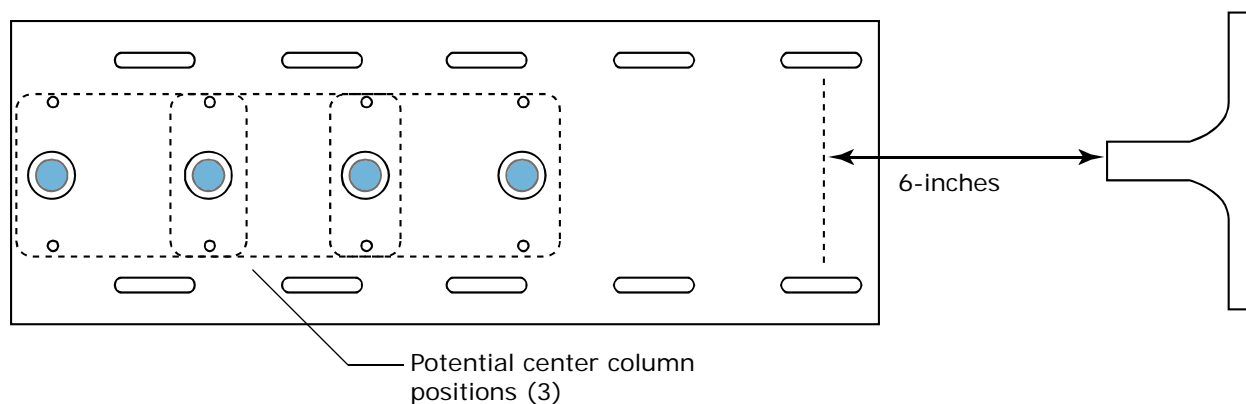
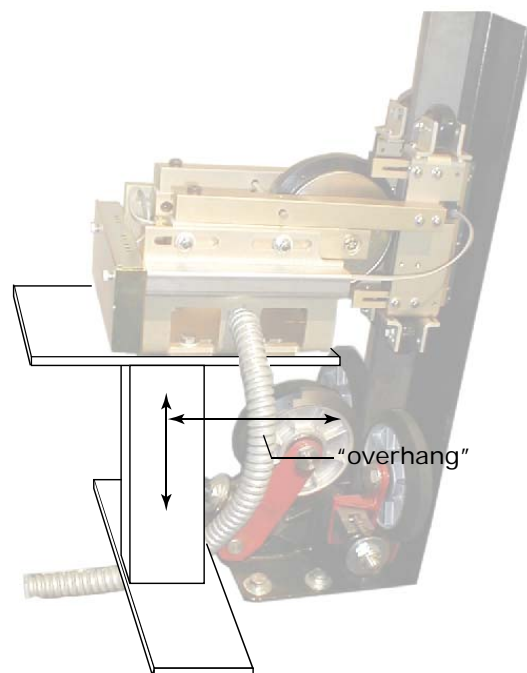
The finished pedestal will look as shown here.



Preparation

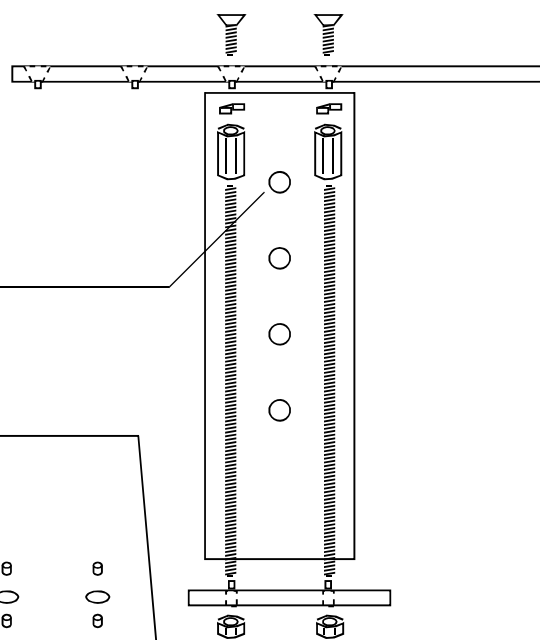
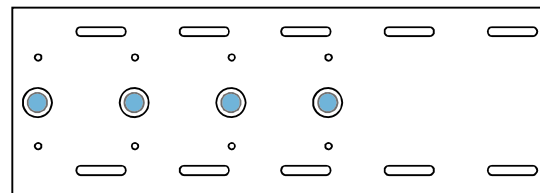
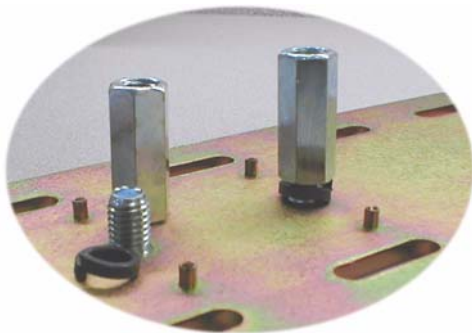
The pedestal top plate is designed to mount in one of three positions on the pedestal center column. Which position you use depends on the amount of “overhang” you need to clear the cartop guide wheels and position the landing system encoder wheel against the rail face. (If the installation requires, the top plate may be rotated 180-degrees.)

1. Check the approximate pedestal mounting position on the cartop.
2. From the center of the mounting column forward, estimate the amount of overhang required to position the pedestal top plate so that the distance from the first set of mounting slots to the rail face edge is about 6-inches.
3. Mark the center column position that best suits the overhang requirements.

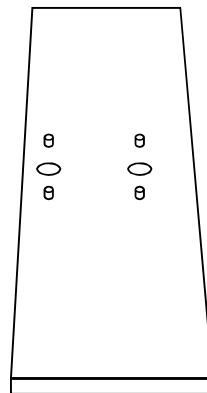


Pedestal Assembly

1. Insert the two 1/2", flathead screws into the countersunk holes in the pedestal top plate for your chosen center column position.
2. Install one of the two, black 1/2" split washers and a coupling nut on each screw. Tighten securely.



Top set of center column through-holes must be 3-inches below bottom of pedestal top plate.

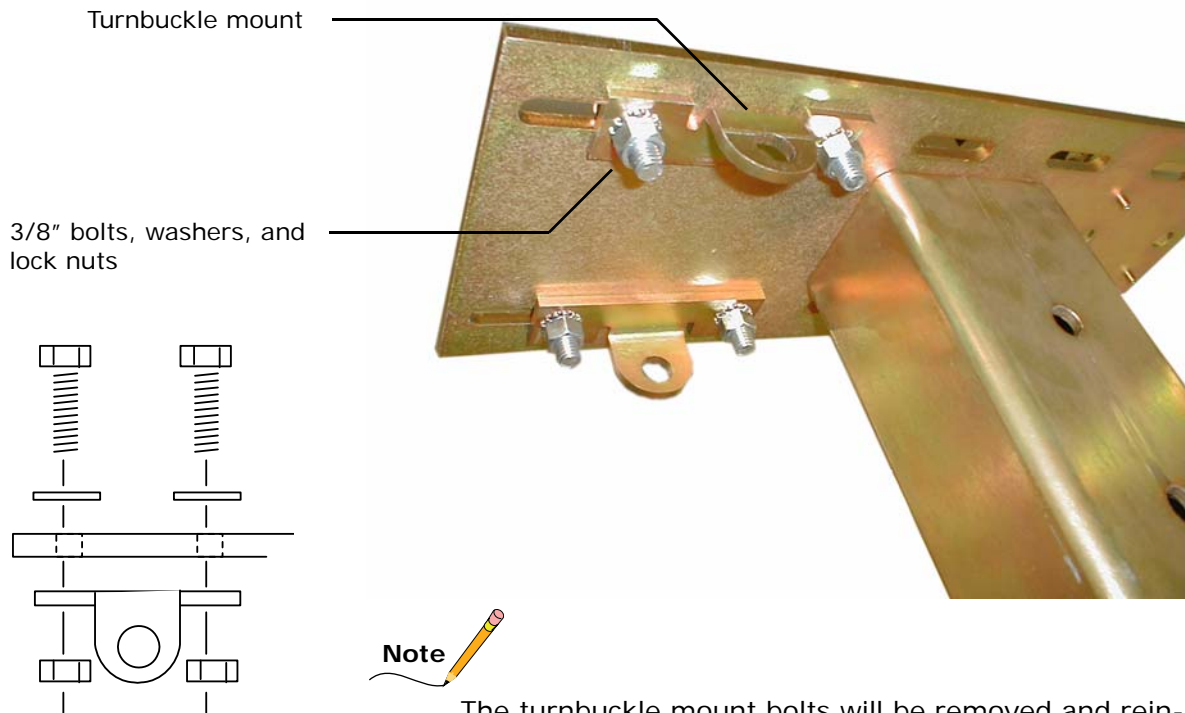


3. Insert a 1/2" threaded rod into each coupling nut. Tighten securely (45 foot pounds). MCE recommends you use blue thread locker.
4. Set the center column over the threaded rods. Use the roll pins protruding from the top plate for alignment. Make sure the center column is oriented so that the top set of through-holes is 3" below the bottom of the top plate.
5. Insert the protruding threaded rods through the holes in the pedestal base plate. Use the protruding roll pins for alignment.
6. Install a 1/2" stop nut on each threaded rod to hold the base plate to the center column. Tighten securely (45 foot pounds). MCE recommends you use blue thread locker.
7. Cut excess threaded rod length so that each protrudes through the nut securing the base plate by at least 1/4".

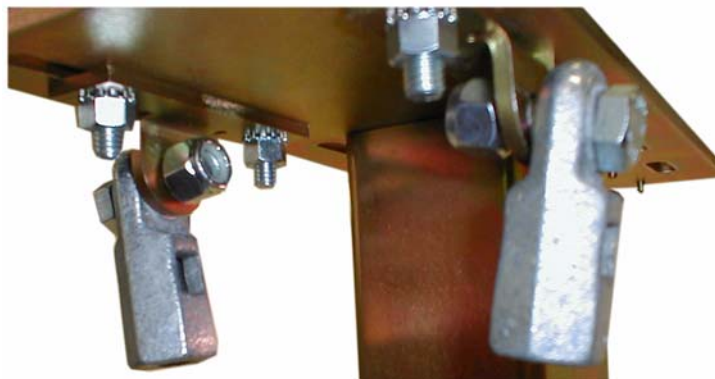
Turnbuckle Assembly

The remaining two threaded rods are used as braces to prevent the top plate from flexing.

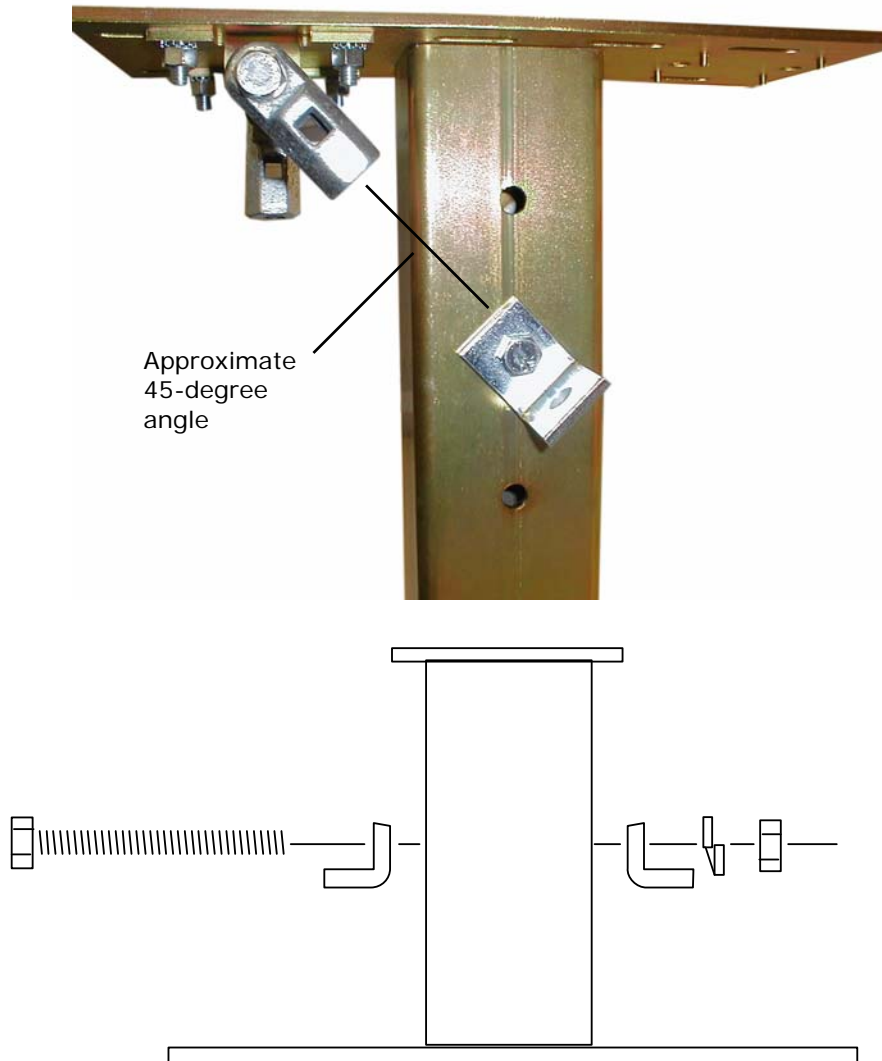
1. Attach the two turnbuckle mounts to the bottom of the pedestal top plate as shown below. Use the same mounting slots you will use to attach the iLand Landing System. (Use the four 3/8" bolts, flat washers, and lock nuts.) HAND tighten only for now.



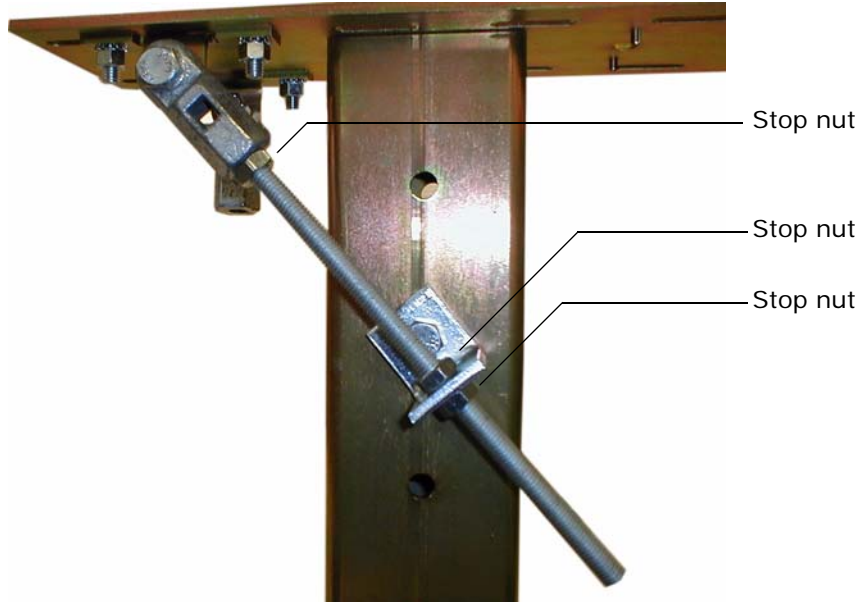
2. Attach the turnbuckles to the turnbuckle mounts using the 1/2" x 1.5 bolts and the 1/2" nylock nuts as shown below. HAND tighten only for now.



3. Attach the two angle brackets to the center column using the 1/2" x 4" bolt, the lock washer, and a 1/2" stop nut as shown below. The shorter flange of each angle bracket goes against the center column. The angle between the turnbuckles and the angle brackets should be approximately 45-degrees. HAND tighten only for now.



4. Arranging the stop nuts as shown below, insert the remaining threaded rods through the angle brackets and thread them about 50% of the way into the turnbuckles. **HAND** tighten only for now.



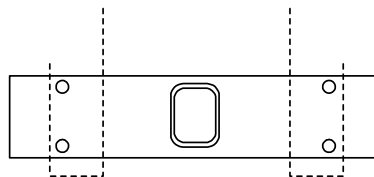
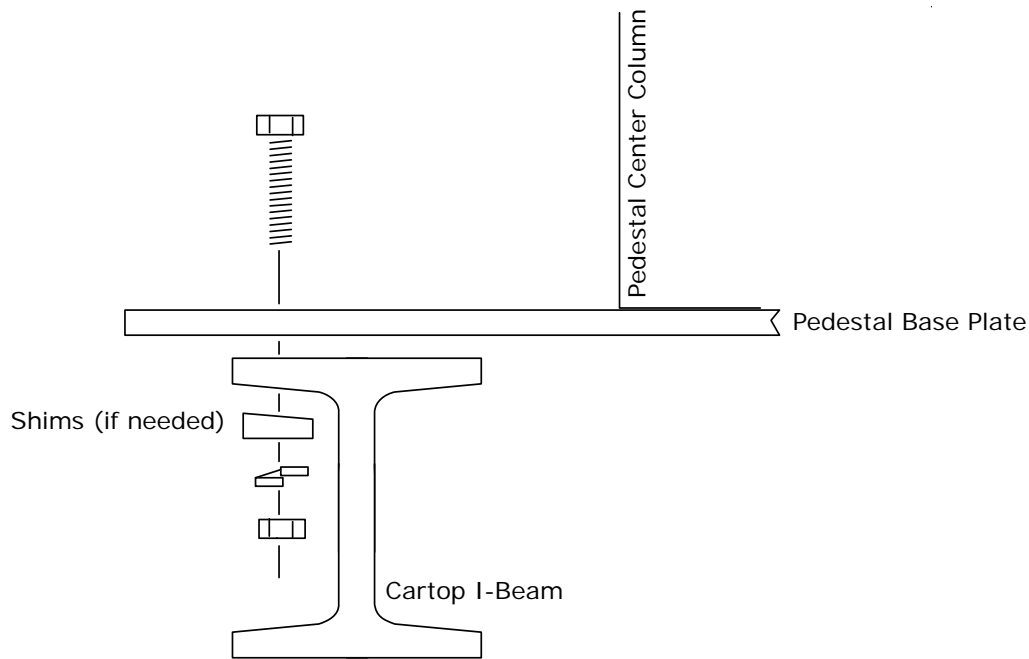
Note

You may have to cut some length off the threaded rod. Leave a few inches surplus for later adjustment.

The pedestal is now ready to mount on the cartop. The hardware left only hand-tight will all be adjusted and securely tightened when the iLand Landing System is installed on the pedestal.

Cartop Mounting

The base plate of the pedestal is designed to mount across two I- or channel-beams on top of the car. Drill mounting holes in the base plate as necessary to fasten it securely in place. Make sure the holes are properly de-burred. Use at least four bolts with a minimum diameter of 3/8". The shims provided with the pedestal kit may be used to square-off attachment to beams as shown below.



Typical bolt pattern. Minimum 3/8" diameter bolts set close to edges of base plate for stability.

Note

The remainder of the pedestal mounting hardware (nuts, bolts, lock washers, etc.) is provided by the installer. We recommend you calculate and drill the through-holes in the pedestal base and use it as a "template" when drilling crosshead through-holes. The pedestal must be mounted so that the landing system position encoding wheel is aligned vertically true with the rail surface on which it will ride.