

ABM International, Inc.

Innova Electric Lift

1.0: Parts List

Structural frame profiles –

Perforated square tube:



26” Innova Frame

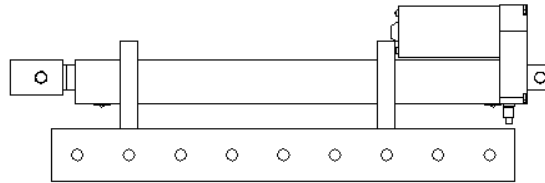
(Qty. 1) 70.5”
(Qty. 1) 69”
(Qty. 2) 48”
(Qty. 1) 27”

18” Innova Frame

(Qty. 1) 70.5”
(Qty. 1) 69”
(Qty. 2) 40.5”
(Qty. 1) 21”

Commercial Parts -

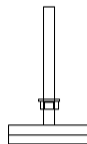
Lift motor and beam assembly (Qty. 6)



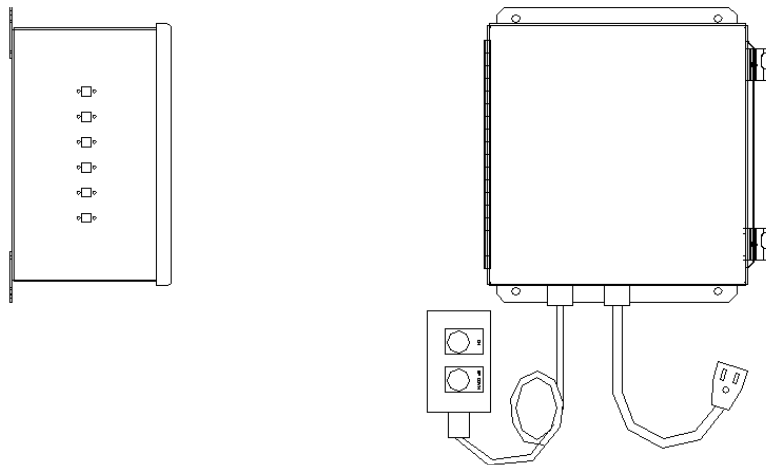
Extended cross block (Qty. 6)



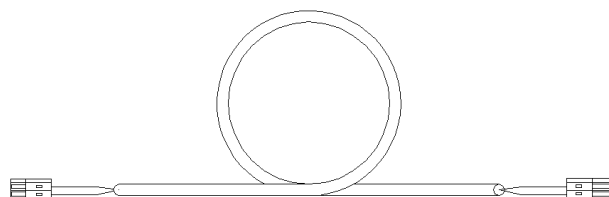
Machine foot (Qty.6)



Control cabinet with Hand terminal (Qty. 1)



Motor cables (Qty. 6)



Bolt kit –

Hex head cap screw:



(Qty. 6) 5/16 x 2
(Qty. 16) 5/16 x 3-1/2

Socket head cap screw:



(2) 1/4 x 2

Flat washers:



(Qty. 40) 5/16
(Qty. 24) 5/16 Fender washer
(Qty. 4) 1/4

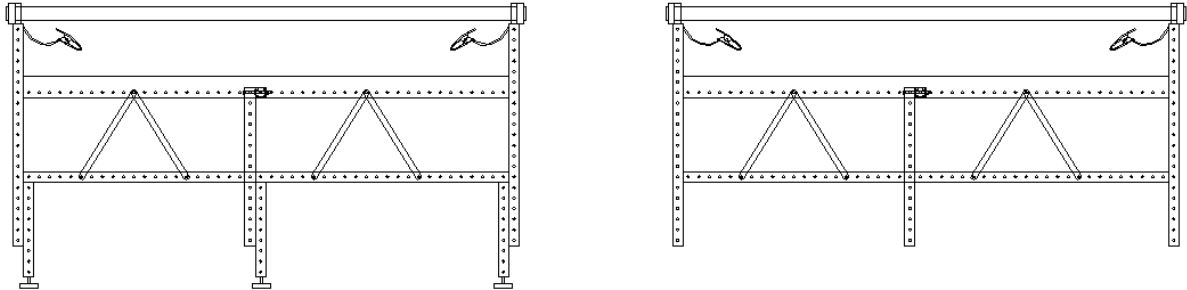
Nylon insert lock nuts:



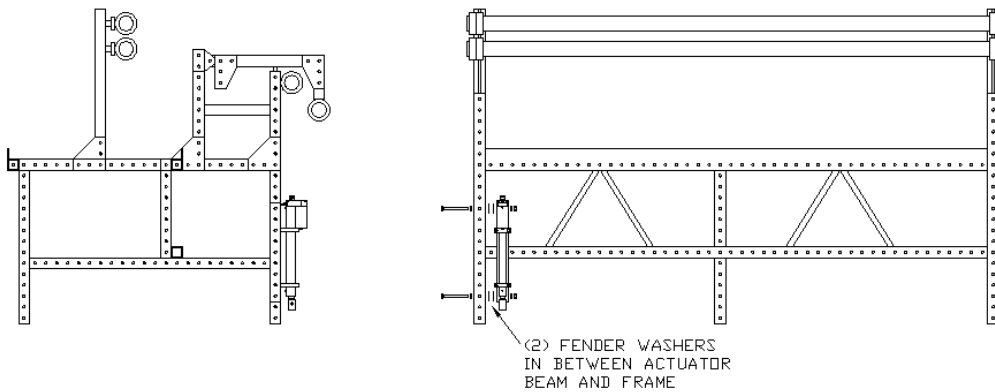
(Qty. 16) 5/16
(Qty. 4) 1/4

2.0 Electric lift assembly

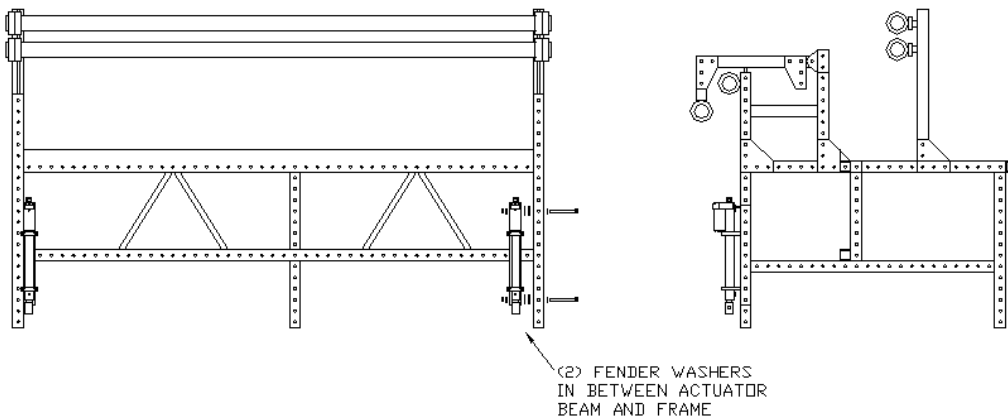
Step 1: If the lift kit is to be installed on an existing frame, remove the (6) 13.5" beams and machine feet from the machine.



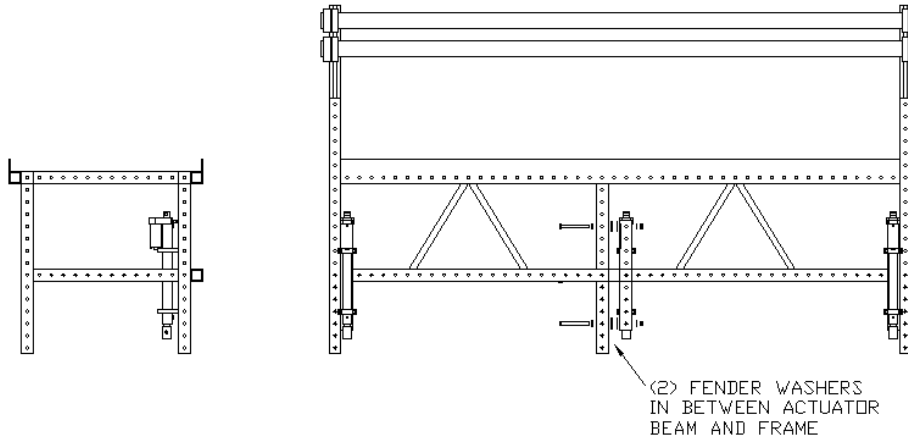
Step 2: Install one of the lift motor and beam assemblies to the left front frame beam as illustrated below. Use (2) 5/16 x 3-1/2 hex, (4) flat washers and (2) hex nuts. NOTE: Use (2) 5/16 fender washers per 3-1/2" bolt between the frame and lift assembly.



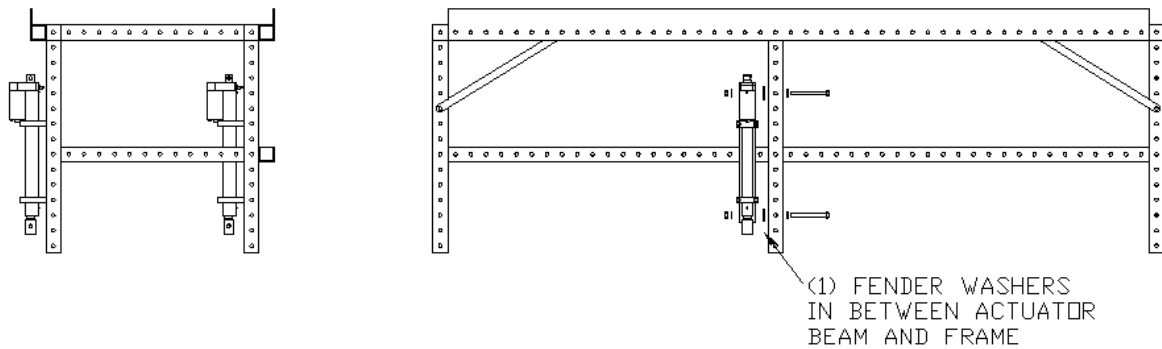
Step 3: Install the other lift motor and beam assembly to the right front frame beam as illustrated below. Use (2) 5/16 x 3-1/2 hex, (4) flat washers and (2) hex nuts. NOTE: Use (2) 5/16 fender washers per 3-1/2" bolt between the frame and lift assembly.



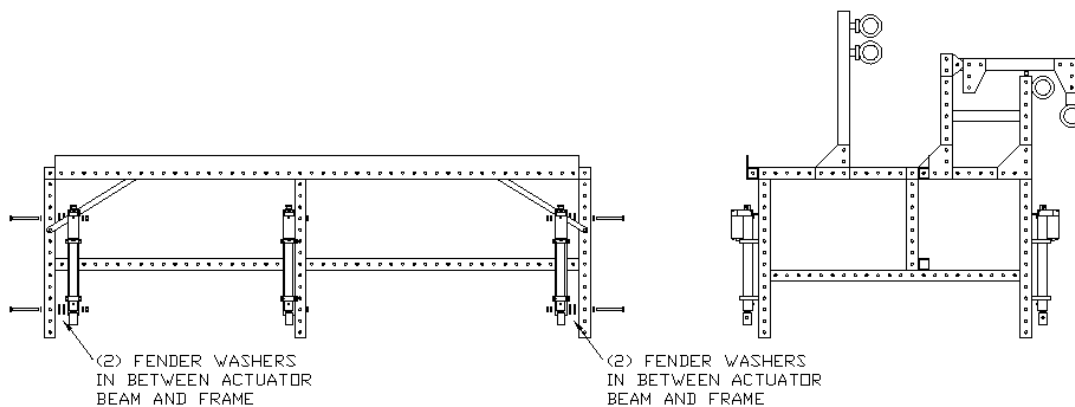
Step 4: Install one of the lift motor and beam assemblies to the center front frame beam as illustrated below. Use (2) 5/16 x 3-1/2 hex, (4) flat washers and (2) hex nuts. NOTE: Use (2) 5/16 fender washers per 3-1/2" bolt between the frame and lift assembly.



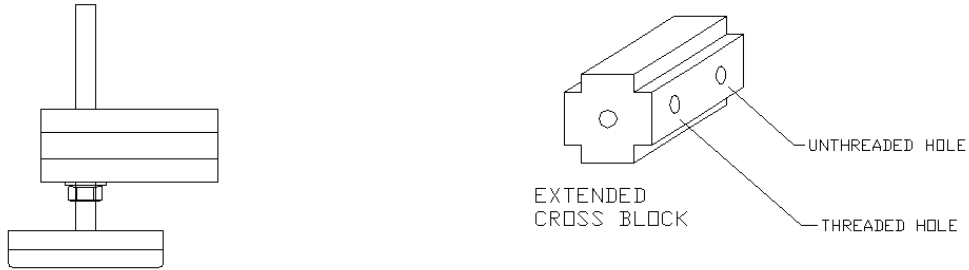
Step 5: Install one of the lift motor and beam assemblies to the center rear frame beam as illustrated below. Use (2) 5/16 x 3-1/2 hex, (4) flat washers and (2) hex nuts. NOTE: Use only (1) 5/16 fender washers per 3-1/2" bolt between the frame and lift assembly.



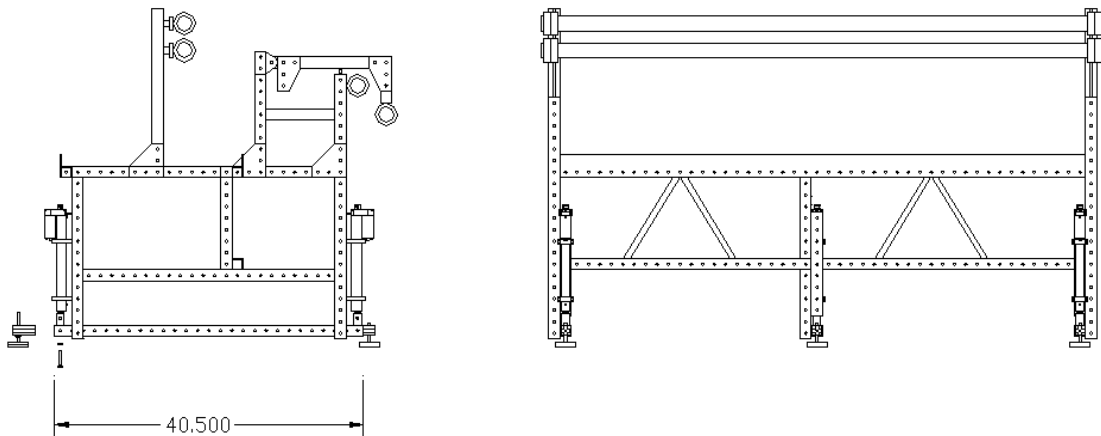
Step 6: Install the remaining lift motor and beam assemblies to the left and right rear frame beams as illustrated below. Use (2) 5/16 x 3-1/2 hex, (4) flat washers and (2) hex nuts per corner. NOTE: Use (2) 5/16 fender washers per 3-1/2" bolt between the frame and lift assembly.



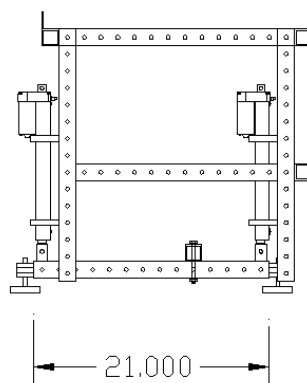
Step 7: Install the machine feet into the extended cross blocks. Make sure to thread the foot into the thread side hole of the cross block.



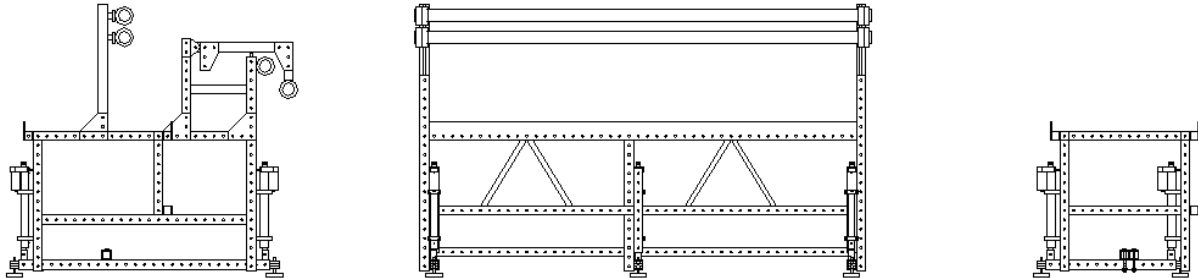
Step 8: Insert a foot and cross block assembly into either end of the perforated beam (beam measures 48" for 26" frames and 40.5" for 18" frames) and bolt to the end of the lift motors using (1) 5/16 x 2" hex and (1) 5/16 flat washer. Repeat for the opposite end of the frame.



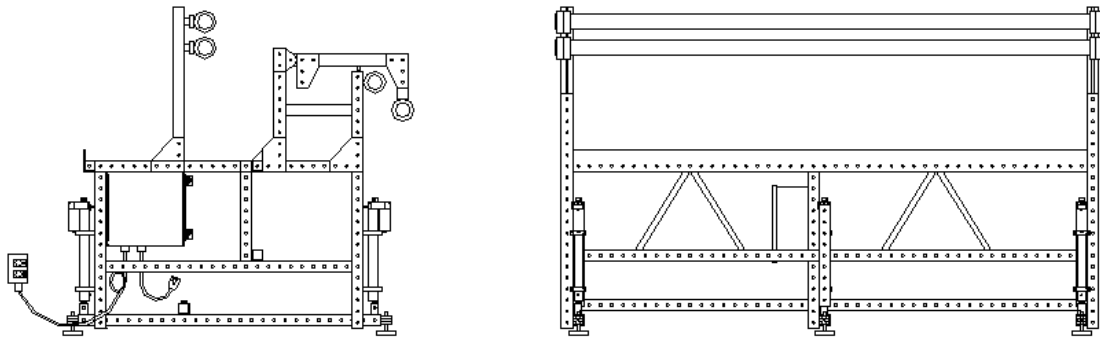
Step 9: Insert a foot and cross block assembly into either end of the perforated beam (beam measures 27" for 26" frames and 21" for 18" frames) and bolt to the end of the lift motors using (1) 5/16 x 2" hex and (1) 5/16 flat washer.



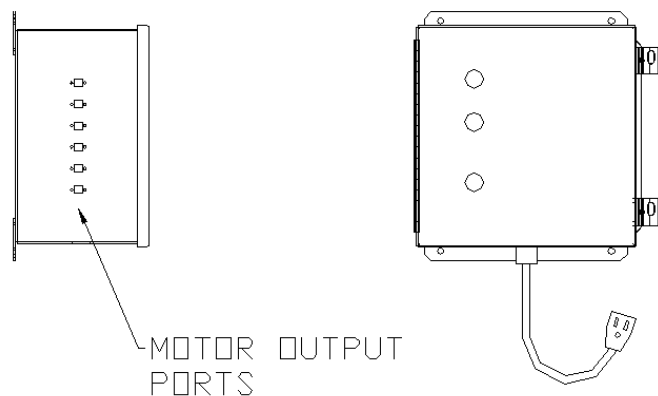
Step 10: Connect the perforated beams from steps 8 and 9 using the two remaining long perforated beams – 70.5” and 69”. Use (2) 5/16 x 3-1/2 hex, (4) 5/16 flat washers and (2) hex nut per tube. The tubes should meet in the center offset by one hole so that they overlap on the center beam.



Step 11: Bolt the control cabinet to the top beam of the center leg of the frame underneath the table. Use (2) 1/4” x 2” bolts, (4) flat washers and (2) hex nuts.



Step 12: Using the supplied motor cables and nylon wire ties, connect the cabinet motor output ports to the (6) lift motor assemblies. NOTE: Motors can be connected to any port. Ports are non-specific.



3.0 Electric lift operation

The electric lift for Innova Pro-frames allows the user to adjust the frame height by 9.5 inches. The user can adjust the height with the switches located on the hand terminal. To ensure that the frame lifts evenly, it is recommended to position the head in the center of the frame both left to right and front to back. Additionally, to ensure even lifting whenever height adjustment is made, it is recommended to lower the frame to the lowest position and then raise the frame to the desired height.

Adjusting the frame height:

- 1) Ensure there are no obstructions above or below the frame.
- 2) If the frame is equipped with a light bar, ensure the lights do not contact the ceiling of the room.
- 3) Check to make sure that all electrical cables are clear of the moving frame. Any cables that may interfere with the moving frame should be relocated and secured so that they are not pinched or broken.
- 4) Set the toggle switch to the DOWN position.
- 5) Press and hold the ON button until the frame stops.
- 6) Set the toggle switch to the UP position.
- 7) Press and hold the ON button until the frame is at the desired height.

Maintenance:

The Pro-frame electric lift system is designed to be maintenance free. All motors and actuators are sealed for the life of the unit and do not require any lubrication or adjustment.

The lift system is equipped with short-circuit and overload protection for each of the individual lift motors. If a motor encounters a jam, excessive load, or if a short circuit is detected, the specific fuse for that motor, located inside the control box will blow. Replacement of the fuses is identical to replacing fuses in a car.

There are 6 fuses, one for each motor, inside the cabinet. The fuses are standard 2 Amp, ATO/ATC automotive fuses and can be found at any automotive store or most department / hardware stores. Only replace the fuses with similar 2 amp fuses. Installing larger fuses can cause permanent damage to the lift motors and can create a risk of an electrical fire. Using fuses larger than 2 Amps will void any warranties on the lift system.