

TPC

Mirage Dental Delivery Unit MSP3500/3550 Installation Instructions



TPC

851 S. Lawson St.

City Of Industry, CA 91748

P626-810-4337 Fax 626-810-4245



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Unpacking and Inventory

Each Mirage delivery unit will contain the following items in each box.

1. Flex arm box. MSP (3500) This is the largest box that you will receive with the delivery unit.
 - Delivery unit flex arm w/ Chair bracket attached
 - Foot control
 - Stainless steel tray
 - Master Controls
 - Junction Box
 - Skid Pad
2. Rear radius assistant's arm system (3500)
 - rear assistant's arm.
 - HVE
 - SE
 - Mounting bracket (attached)

- If at any time you have questions regarding your installation please don't hesitate to contact TPC toll free @ 800-560-8222 or via E-mail @ service@tpcdental.com



Installation Instructions

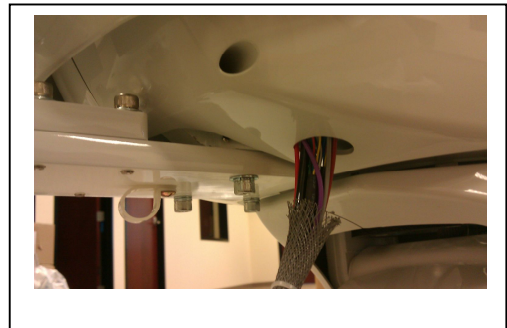
1. Locate the four mounting bolts that were included with your dental chair. These bolts are attached to all model 4000 dental chairs. See image below for the location.



2. Remove the mounting bolts and mount the bracket as shown in the image below. The radius chair bracket is attached to the delivery unit. It's recommended that you have someone hold the delivery unit while attaching the bracket. You may also remove the bracket from the delivery unit arm to attach the bracket to make your installation easier.

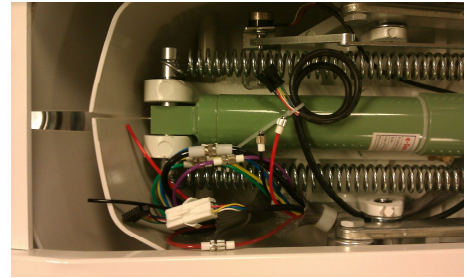


3. Route the delivery unit tubing's as shown through the plastic cutout in the side shroud.



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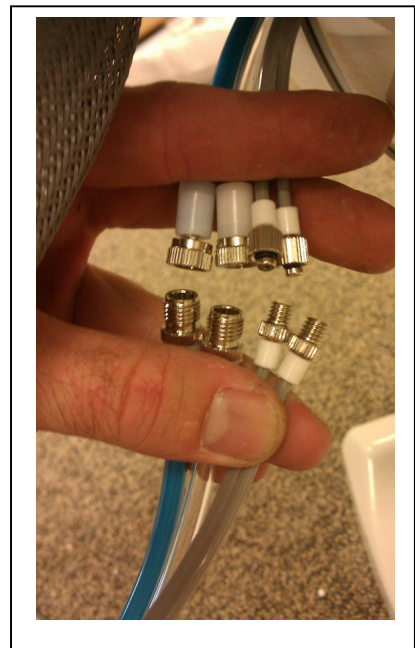
4. Connect all the tubing's together. They are all color coded and will only attach one way. In the event of a tubing failure that are two spare tubing's ran, RED / BLACK. If you are installing the optional touch pad on the delivery unit head, connect the black Molex connectors.



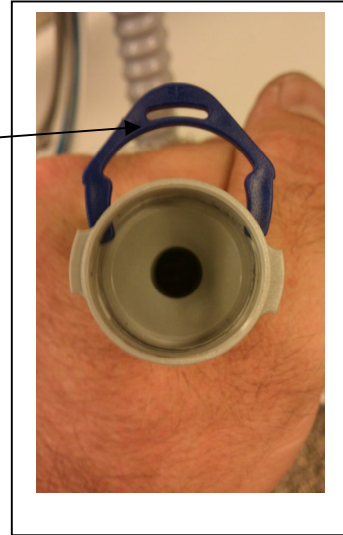
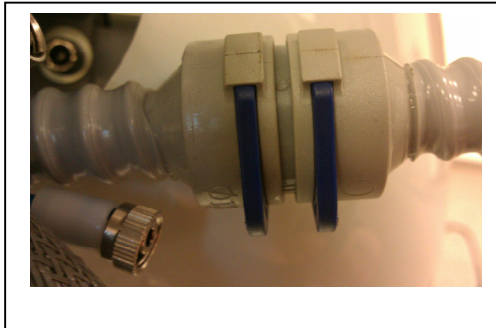
5. Mount the rear radius assistant's arm shown below. Remove the nut and metal washer from the bracket. attach the bracket to the rear mounting stem on the dental chair. Make sure that you place the nylon washer between the bracket and the stem. Tighten the Allen screw, then place the metal washer and nylon nut on the bottom of the bolt and tighten.



6. Connect all your tubing's. They are color coded and will only connect one way. The only tubing that is not coded is the additional tubing for the optional 3-way syringe.

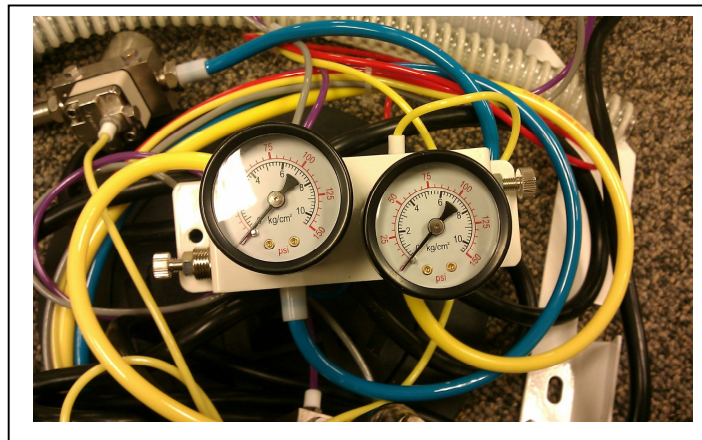


7. To connect your suction tubing, remove the blue retaining clip to unlock the connection. Push the two connections together and replace the retaining clip.

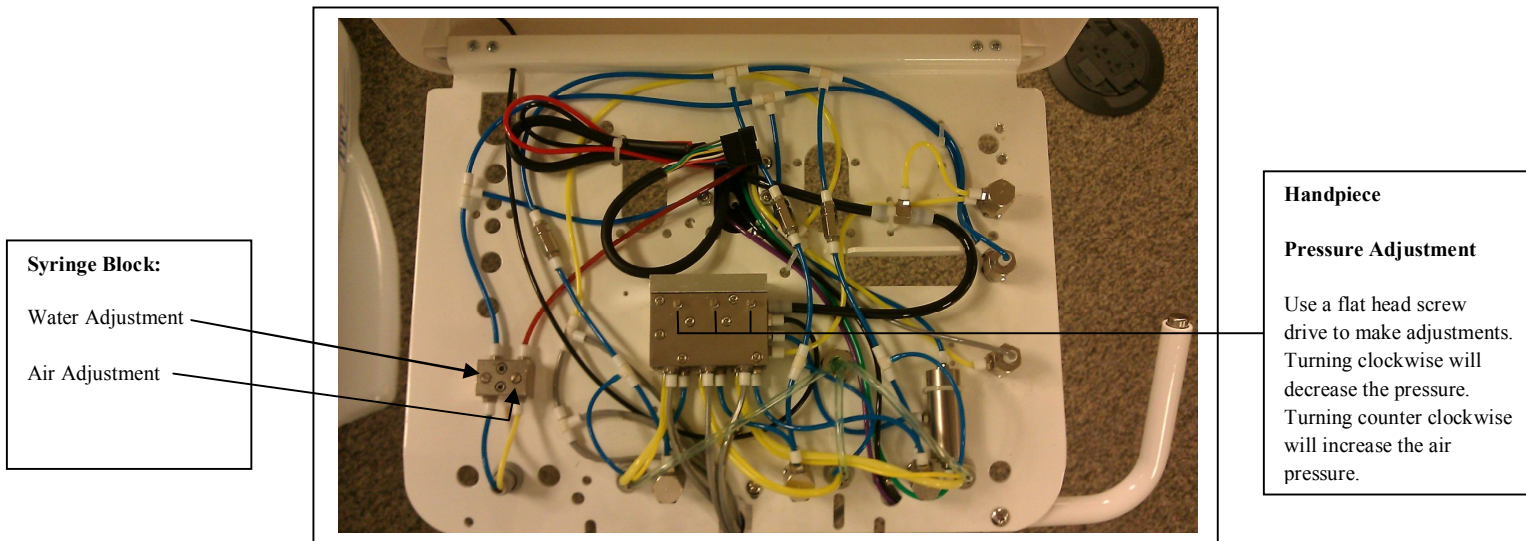


Junction Box Connections

8. Before making any connections in the junction box, be sure to clear the supply lines. If there is any debris in the air line it will collect on the micron filter. Verify the line is clear.
9. Once the lines are verified and cleared, you may connect the master controls. The master controls are similar looking. One is for the Air which is identified by the large yellow tubing that exits the back end of the master control valve. The master control for the water line is identified by the large blue line that exits the back of the master control valve.
10. Once the connections are made you may open the angle stops or equivalent shut off valve. Once the valve is open you may check the master control gauges and verify that the pressures are set accordingly. Air pressure should read approximately 80 PSI. Water pressure should read 40 PSI.

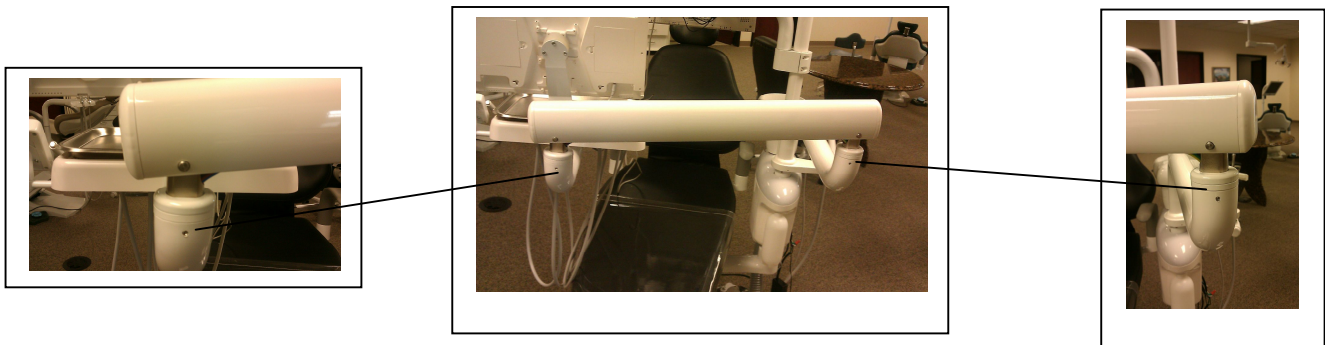


11. Once air and water pressure are set, you may now make adjustments to the syringe blocks if necessary. Also check your handpiece pressure and adjust accordingly.



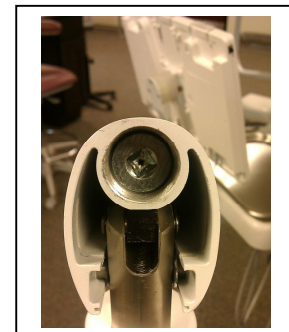
Tension Adjustments

1. In a situation that you need to add tension to the delivery unit flex arms please see the following locations. NOTE: tension adjustments are only a temporary fix for drifting arms. If your arms are drifting first verify the PMU is level. Check the light post to verify its plum. If light post is not level make the proper adjustments by re-leveling the unit.



Tension spring adjustment

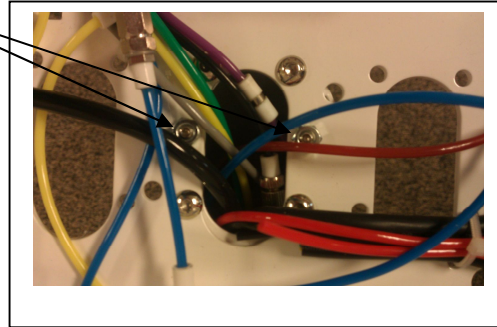
2. If you need to make adjustments to the tension spring in the flex arm follow the procedure below.
- Remove the flex arm cap cover.
 - Use a 3/8" ratchet with 2" extension
 - Turn clockwise to increase the tension
 - Turn counter clockwise to decrease tension.
 - Only make adjustments in half turn increments.



delivery head leveling and tilt adjustments

3. If you need to level the unit head or adjust the tilt use the following adjustments.

- Loosen the 4 Allen screws that attach the unit head to the short control arm. See image. Once the screws are loose, use the two adjustment screws in the center on each side to level the head.



- To adjust the unit head tilt, remove the flex arm end cap closest to the delivery unit head. Loosen the stop nut, and using an Allen wrench turn the adjustment screw clockwise to increase the tilt of the delivery unit head. Turn the adjustment screw counter clockwise decrease the tilt.

*Stop Nut

*Adjustment Screw

