

# Express Mobile Mounting Possibilities

The word is “Flexible.”

## MOUNTING LOCATION

Your **Express Mobile** is designed to be mounted in or on a service truck and to take its air and electric power from equipment already installed on the truck. The unit should be mounted within the truck's interior near the back door or in a side tool compartment on work bodies. Your **Express Mobile** has integral mounting flanges for sidewall or floor mounting. The unit is weather resistant but it's not intended to be mounted outside of the truck.

Do not mount your **Express Mobile** on surfaces prone to high levels of vibration. Be wary of large, flat steel walls or dividers such as the back wall of work body compartments. If you can feel vibrations in your intended mounting surface when the air compressor is running under load, at idle, or in the process of starting up or shutting down, cover the surface with as large a piece of 3/4" plywood as possible, using construction adhesive to secure the plywood to the surface, and as many fasteners as is practical (bolts with nuts preferred). Then mount your **Express Mobile** to the plywood.

Be wary of compartments which have inside walls that sweat with changes in outside temperatures. This might be due to water leaks which in turn cause high humidity in the compartment. Repair the leaks and, ideally, provide some ventilation for the compartment's interior.

## ANTENNA

Your **Express Mobile's** antenna is simply a length of 14-gauge primary wire encased in an equal length of 1/4" synflex tubing. There are lots of options for mounting the antenna:

- Secure the antenna to the inside of a door so the antenna “opens up” when you open the door to access the unit. Using plenty of wire ties, fasten the antenna to one of the air hoses. This way it will automatically deploy when you hook up the gladhands.
- Mount the antenna outside of the truck. If you will be making a hole in your work body for the antenna to exit that is higher than the unit itself, seal it properly to prevent water from running down the antenna and onto the unit.
- Since you will usually be under the trailer when you use the remote, it's best to keep the antenna low. For example, it's better to run the antenna along the bottom edge of the body rather than the top edge.
- You can lengthen the antenna if necessary using a piece of regular 14-gauge primary wire, and a like length of 1/4" synflex tubing. To do this, remove the antenna's yellow cap and, using a razor blade at right angles to the tube, trim the tube back about three inches (if you nick the antenna wire inside, it's OK). Feed the length of wire you want to add through the synflex tubing that will protect it before making your connection (a good squirt of WD-40 through the tube will make the wire slide through easier). Next, make your connection and solder it. Keep your splice slim so you can slip the synflex tube over the connection when it's soldered. Butt the two pieces of synflex together and cover the joint with heat-shrink tubing, preferably the kind with sealant inside. Finally, trim the end so the wire and the tube are flush, and replace the yellow cap.

Regardless of where or how you install your antenna, it's a good idea to test your proposed installation before making it permanent.

## AIR SUPPLY

Connect your **Express Mobile** to your truck's air supply with 3/8" tubing capable of containing the maximum pressure provided by the compressor. Usually, synflex tubing is adequate for this application. The air must come from a tank, never directly from the compressor, and it should be reasonably clean and dry, 150 PSI maximum. Lightly oiled air is fine.

## ELECTRICAL SUPPLY

The red main power supply lead should be connected directly to your truck's battery. This lead needs circuit protection, but circuit breakers or fuses are not recommended here. Instead, use the length of fusible link provided to connect to the battery, followed by AWG 10 wire the rest of the way back to the unit. Do not use less than 10-gauge wire; lighter gauge wiring will defeat the fusible link.

Route this wire carefully, keeping it well secured at frequent intervals and away from hazards such as high temperatures or high traffic areas (running exposed across a door sill, for example). Wherever possible, cover this wire with loom to protect it. Use proper grommets where wiring passes through holes in sheet metal.

The yellow lead connects to any empty accessory circuit contact on your truck's fuse block. This connection provides power to the remote's receiver and turns the receiver off when the truck's ignition key is in the off position. As an alternate, the red and yellow leads can be connected together and use the same wire for the run to the battery. Since the current drawn by the receiver is negligible, the receiver can be left on all the time. Another possibility would be to install a switch in the yellow line to manually turn the remote receiver on and off as needed. The same routing cautions apply as with the red wire. If you're using loom to cover the red wire (highly recommended) include the yellow wire, also.

Install the fuse holder and the 3 amp fuse provided close to the power source even if that source is already fused.

The black wire is the chassis ground. It can be connected to any good chassis ground point or, better, run all the way back to the battery for direct connection to the negative battery post.

## TRAILER AIR CONNECTIONS

Due to the myriad of possible mounting options and user preferences, the air hoses and light cord are not provided. We suggest you avoid coiled hoses and light cords as these soon turn into a tangled, greasy mess. Instead, we recommend the old-fashioned straight rubber air brake hose and a straight lighting cable. These are easier to work with in cold weather, are far less likely to tangle, and can be cleaned easily when they get greasy.

You can install quick-disconnects on your **Express Mobile** so your trailer air hoses can be disconnected, but remember to keep them well-lubricated with air tool oil. Quick-disconnects are notorious for leaking, especially when the hoses involved are pulled at an angle. If you intend to use your **Express Mobile** for leakdown testing, avoid quick-disconnects if possible. Elbows or other angle fittings can be used so your air hoses connect to your **Express Mobile** at an angle. Depending on your installation, using angle fittings could reduce the amount of sideways pull on your quick-disconnects, and thus reduce leaking.

You can mount quick disconnects or gladhands remotely. For example, the **Express Mobile's** cabinet could be mounted within a side tool compartment, and, using synflex tubing, feed quick-disconnects or gladhands and a 7-Pole socket mounted externally elsewhere on the truck. Remember though, if you are thinking about doing something like this, you'll lose practical use of the pressure gauge and pressure lights. If you mount gladhands outside your truck, be sure to keep them covered with dummy gladhands when not in use to prevent dirt from entering as you drive.

The Remote Control Holder is intended to be mounted on the lower right side of the cabinet, but it can be mounted to any flat, vertical surface (on the dashboard, for example) if that would be more convenient. Do not locate the remote holder to any door or other surface prone to shock and vibration.