

ProxBox Installation Guide

The ProxBox kit contains the following items needed to mount and install the Recon Dynamics ProxBox: ProxBox, patch antenna, power cable, vibration mounting kit and hardware and coax seal. After completing the installation be sure to visit www.recondynamics.com to access your account and complete the setup. Based on information Recon receives on your company contacts, users and structure an account will be created for you to access. Appendix A includes pictures of sample installations for your convenience.

PROCEDURE



Note

While this procedure is written in the context of mounting the ProxBox onto a vehicle, it also applies to mounting the ProxBox to any piece of equipment which can supply constant 12 volt DC power to the box.

PRE-INSTALLATION



Caution

Compare with the list of contents provided with the kit. If any discrepancies are found, contact the Recon Dynamics customer service department.

PROXBOX

- Inspect the truck prior to installing the ProxBox to determine the best location for mounting the ProxBox and antenna.
- Document any information regarding the vehicle or equipment the ProxBox is being installed on for input into the Recon system.
- Document the serial number of the ProxBox for input into the Recon system.
- Criteria for mounting a ProxBox:
 - Mount the ProxBox on a surface large enough that all 4 mounting points can be used.
 - Mount the ProxBox close enough to the front of a truck so the power cable can be hooked up to the truck's main battery with the supplied cable length. Extending the supplied power cord is acceptable to increase mounting options.
 - Mount the ProxBox such that no tools or equipment will damage it while they are in use or being stored on the truck.
 - Mount the ProxBox as high as possible and as far away from any nearby metal obstructions to minimize interference with the gray top.
 - See Appendix A for installation examples.



It may be necessary to fabricate a mounting plate or structure to create the proper mounting condition for the ProxBox and patch antenna, which would then need to be mounted (welded or bolted), to the truck.

PATCH ANTENNA

- The recommended placement of the patch antenna should be located as high as possible with a good visibility to the back of the truck and separated as far away from the ProxBox as possible. Depending on the location of the battery, a typical installation has the ProxBox mounted on the driver's side of the vehicle and the patch antenna mounted on the passenger's side roughly 2-3 feet away.
- Document the serial number of the black transmitter (Proxlet) attached to the side of the antenna for input into the Recon system
- Criteria for mounting the patch antenna:
 - Mount the patch antenna such that the antenna front (curved portion) is facing to the back of the truck. The best location is typically directly behind the cab of the truck.
 - Mount the patch antenna close enough to the ProxBox so the antenna cable can be connected to the ProxBox with the supplied cable length without stressing the connector.
 - Mount the patch antenna such that no tools or equipment will damage it while they are in use or being stored on the truck.
 - Mount the antenna as high as possible to minimize any interference.
 - See Appendix A for installation examples.

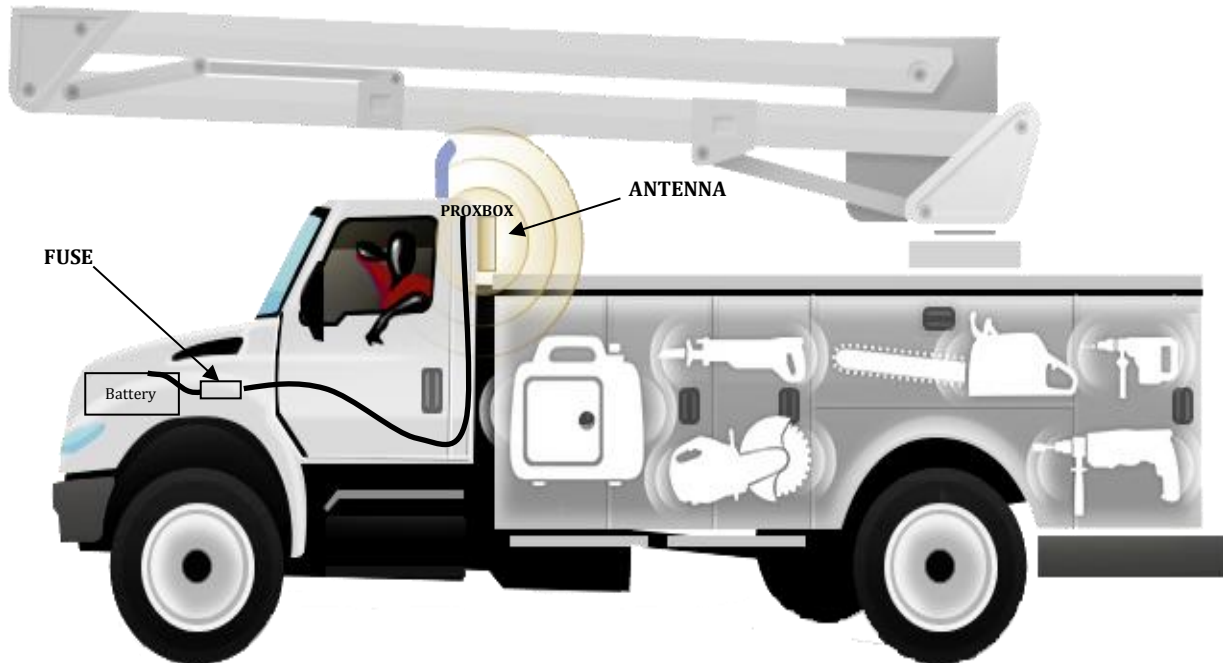


Figure 1

Figure 1 shows the typical routing of the power cable and component placement for the ProxBox system.

INSTALLATION

PROXBOX INSTALLATION

- Use the mounting flanges as a drill template and center punch to mark locations to drill. Mount the ProxBox using the vibration mounting kit. Ensure all metal surfaces are touched up with paint after drilling to avoid corrosion.
- Route supplied power cable from ProxBox to the truck's main battery, the bare end (no connector) is to be routed.



Caution

Ensure when routing the power cable that it is well protected so nothing can damage it once installed.



Caution

Do not connect power to the ProxBox until patch antenna is connected.

- Secure cable to the truck using tie wraps. It is recommended to use wire loom for added protection.
- It is best to leave the power cable at full length and just bundle up excess cable with a wire tie. But, if necessary, cut excess length from the cable.

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- Strip the pre-tinned wire leads back 2-3 inches. The 18 AWG red “hot” wire requires and inline 10A fuse added (not included).



Shock hazard! Be very careful when connecting leads to the battery.

- Attach the black lead to ground post of the battery. Attach red lead to hot post of battery. Ensure both connections are bolted tightly to battery and power cable fuse is routed to eliminate potential damage.

PATCH ANTENNA INSTALLATION

- Before mounting ensure antenna cable will easily reach the ProxBox connector marked “Ant”.
- Attach Patch antenna using a minimum of (2) screws to a solid surface, (4) screws are recommended though. Use the antenna as a drill template and center punch to mark locations to drill. Do not over tighten screws or bolts as the antenna is plastic and will be damaged. Ensure all metal surfaces are touched up with paint after drilling to avoid corrosion.



Do not mount antenna using glue, tape or tie wraps.

- Route cable from patch antenna to ProxBox.
- Secure excess cable neatly using wire ties. It is recommended to use wire loom for added protection.



Ensure when routing the antenna cable that it is well protected so nothing can damage it once installed.

- Connect cable to ProxBox and hand tighten. Refer to Figure 2 for ProxBox port identity.
- Wrap connector with enough coax seal tape to completely cover the connection then mold around cable and connector to weatherize connection. Inspect to ensure connection is fully covered.

FINAL POWER UP

- Re-inspect all cable routing and connections to ensure completion. Re-inspect battery connection for proper polarity.
- Measure voltage at the power connector to verify 12 volts will be supplied to the ProxBox.
- Connect the power connector to the ProxBox and hand tighten. Once the power cord is fit over the power connector a final ¼ turn is required to secure the power connection. Refer to Figure 2 for ProxBox port identity.

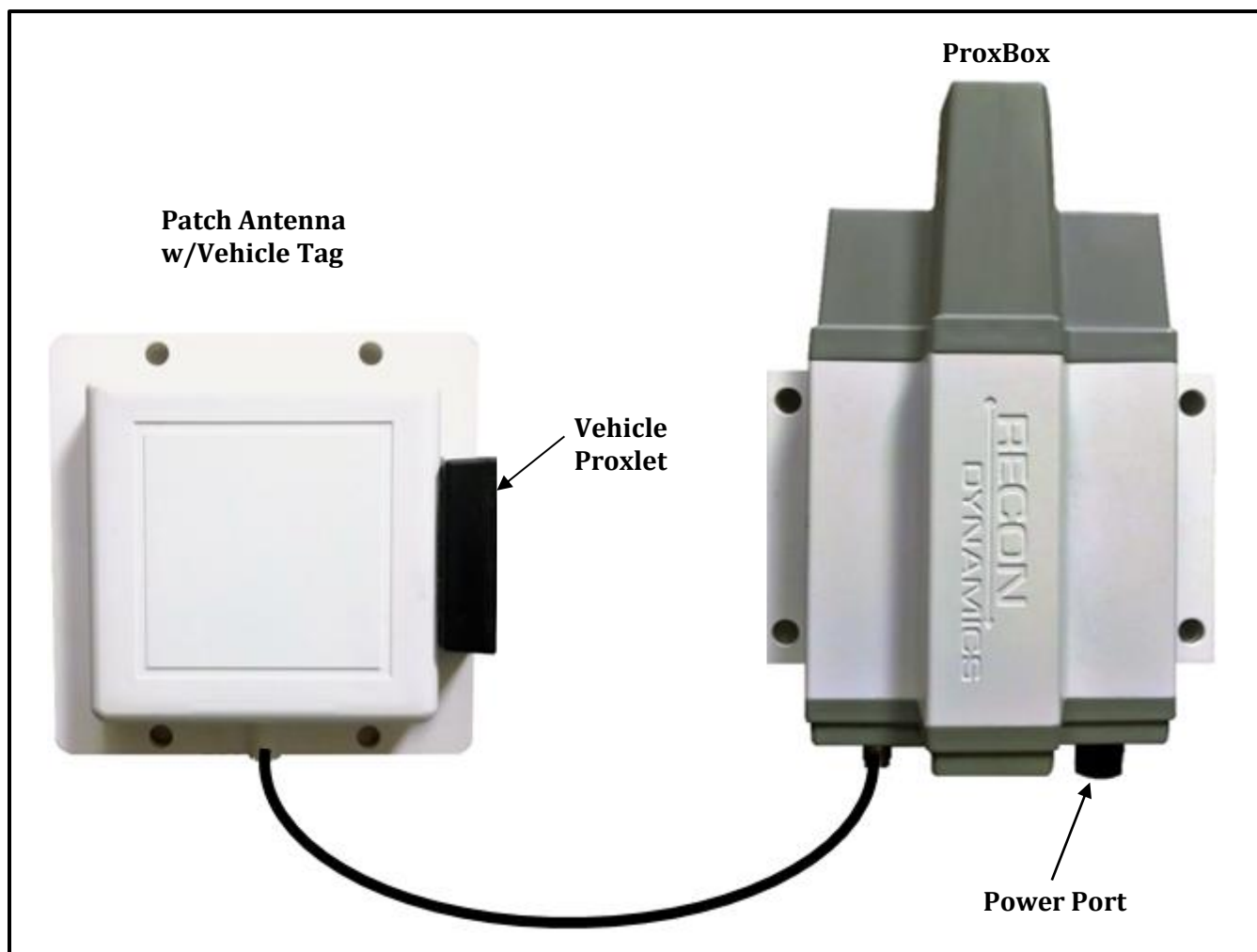


Figure 2

PROXBOX INSTALLATION GUIDE

Appendix A includes example images of ProxBox installations including ProxBox and patch antenna.

APPENDIX A



PROXBOX INSTALLATION GUIDE



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