

## Installation Guide for The Lifter

Attach the frame riser (P-42A) to the frame (P-42), using the 2-½” bolts. Slide the lifter frame into the 2 inch receiver, pin or bolt into place. The lifter can be installed on the front or the rear of a vehicle.

Cut the wires (P-62A/B) to length needed to reach the battery and solder on supplied copper eyelets. Solder the 5/16” eyelet to the black wire and the ¼” eyelet to the red wire. Run the 6 ga red wire to one side of the 50 amp breaker; connect the battery lead to the positive side of the battery. Run the black wire to the negative side. Plug the Anderson connectors together from the vehicle to the lifter.

Remove plug from elbow fitting on manifold and insert breather valve (attached to LIFTER motor) before operating.

Place the magnet (P-10) below the cylinder and lower the rod down until the magnet attachment plate touches the magnet by using the remote transmitter (the transmitter must be turned on). Line up the four bolt holes and insert the bolts that attach the plate to the magnet. Connect the yellow cord (P-13) to the magnet.

When the magnet is in the raised position, make sure there is a minimum of 9 inches of clearance from the bottom of the magnet to the ground.

Mount the camera to the mounting bracket on the top of the lifter frame. The camera should be aligned to view the magnet. Wire the camera cable and power harness per enclosed manufacturer’s directions. Mount the monitor inside the cab where desired.

To attach motor cover, slide cover from top over motor (opening to frame). Remove the bolt on the right side of the frame and be sure to support the hydraulic motor. Place the motor cover in front of the motor mount, line up the holes, and re-bolt the cover to the frame. Move to the left side of the frame and remove the top bolt. Place the cover over motor mount, line up the holes and re-bolt. The cover is fairly flexible which will allow you to bolt one side at a time.

**Test all functions.**



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## **Instructions for Using The Lifter**

Drive towards the manhole cover until it disappears from view. Turn on the monitor and watch for the cover as it appears on the screen. Position the magnet directly in the middle of the cover if possible or if the cover has tar on it, place the magnet where there is bare metal.

Lower the magnet onto the cover and energize, raise the magnet with the cover all the way up and drive forward or backwards two to three feet. Make sure the cover is clear of the casting before moving.

Factory recommends that the magnet not be on longer than 3 minutes at a time. The transmitter will shut off the magnet after 5 minutes of inactivity and is set to shut down completely after 15 minutes of inactivity to save transmitter battery.

The motor has 5000 lbs of lift force, if the cover doesn't come off the casting; strike the cover with a maul while the cover is under tension. This will generally "pop" the cover.

If the cover is completely tarred over the magnet cannot adhere to the cover. However, if there is a small clear spot, place the magnet there. The magnet is rated at about 5000 lbs of lift force when it gets good adhesion on solid, clean metal. Picking up the lip of the cover and dragging it off the casting is a good tactic to use when the cover has a lot of tar on it.

**Keep hands and feet clear while in operation**

### **Care for Lifter**

- Keep bottom of magnet clean, may need to sand rust from bottom occasionally
- Keep camera lens clean, using soft cloth and glass cleaner
- Watch hydraulic fluid level. With cylinder retracted , fill with hydraulic fluid until it comes out of the fill hole (use Dextron hydraulic oil)
- Wireless transmitter;
  - Press on/off power switch on the transmitter to turn on.
  - The transmitter is designed with power saving feature which turns the transmitter off after 15 minutes if none of the switches are pressed.
  - The transmitter red light blinks if the batteries are low and need to be replaced(uses 2 AAA alkaline batteries)
  - The transmitter and receiver should have been matched at the factory. If matching is required, see instructions with the transmitter



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