

# Installation Guide for THE Lifter

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

Cut the wire (P-62A and P-62B) to length needed to the battery and solder on supplied copper eyelets. 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 from the vehicle and the lifter together.

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.

Test all functions.

## Step by Step Instructions

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. The transmitter is set to shut down after 15 minutes of inactivity.**

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 help "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.**



## **Main Components Parts List**

<b>Part no.</b>	<b>Description of part</b>
<b>P-42</b>	<b>Frame (includes anti rotation rod, magnet swivel plate)</b>
<b>P-42A</b>	<b>Frame Riser</b>
<b>P-32A</b>	<b>Power Unit</b>
<b>P-32B</b>	<b>Hydraulic Cylinder</b>
<b>P-30</b>	<b>Wireless Remote Control w/transmitter</b>
<b>P-22</b>	<b>Color Camera/Monitor System</b>
<b>P-10</b>	<b>8” Electro-magnet</b>
<b>P-13</b>	<b>Curly Cord/Disconnect for magnet</b>