

# Important! Important! Important!

## Installation Order of Each Component

Please familiarize yourself with all components before installation. In addition, it is suggested (depending on the vehicle) the 3-port interface “hub” be installed first (under the vehicle’s dash) and wire it to a 12-volt switched circuit. Before installing the other components, plug each component into the appropriate outlet in the 3-hole interface “hub” to confirm LaserPro™ 904 is functioning properly.

## Installation Warning

**It is highly recommended that a professional install LaserPro™ 904. Installation of LaserPro™ 904 requires experience and expertise in automotive electronics. Attempting to install LaserPro™ 904 without expertise in automotive electronics installation could cause personal injury and or damage to LaserPro™ 904.**

**If your vehicle is damaged during installation, its safety systems may be compromised which could cause personal injury or property damage. Improper installation may void LaserPro™ 904’s warranty.**

## Installation

Since Laser signals do not pass through objects, including plastic, it is important that the front transceivers be mounted with a clear, unobstructed view of the road ahead, and completely level.



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Installation Instructions  
Model LP904

Laser Defense System  
LaserPro™ 904

**L A S E R P R O 9 0 4**  
L A S E R D E F E N S E S Y S T E M

### Contents of this box includes:

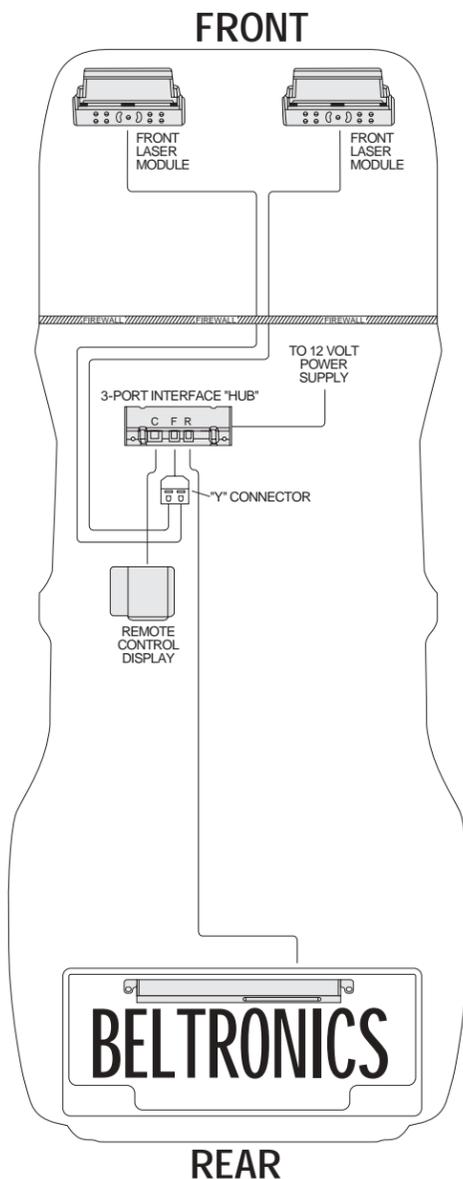
- 2 - weather-proof front Laser Transceivers with “Y” connector
- Weather-proof rear Laser Transceiver with 30” cable
- Pre-assembled mounting brackets to each Laser Transceiver
- 6 - LED Control Display with in-dash or under dash mounting brackets
- 3-port Interface “hub” to make all connections
- Tie-wraps
- Screws
- Spirit level

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# Installation sheet for LaserPro™ 904



## 1. Control Display

- Determine an appropriate location to mount the control display based on visibility and customer input.
- Install the display using the hook and loop fastener.
- Plug the “pin” connectors to the back of the control display and the opposite end into the appropriate 3-port interface “hub”.

## Under Dash Mounting

To mount the control display under the dash using the supplied under-dash bracket, drill two holes (#35, .110 diameter) to fasten the control display bracket with the two (2) black 3/8” self threading screws provided. Once installed, the control panel can slide into the bracket using the slots on each side of the unit.

With a mounting location selected, plug the “pin” connectors to the back of the control display and the opposite end into the appropriate 3-port interface “hub”.

## In-Dash Mounting

The control display can be mounted directly into the vehicle’s dashboard. For this type of mounting, first select a flat location on the dash where there will be no interference with wires or components.

- \*First, peel the back off the template provided and place over the selected area.
- \*Drill two 3/16” diameter holes as indicated on the template and a third hole in the center of the cutout area to allow a saw blade to enter. Cut along the template outline.
- \*Once the portion of the dash has been cut away, remove the template and insert the dash mount frame into the area and fasten to the dashboard using two (2) 3/4” black oval head screws with flat washers, lock washers and nuts on back side. Special notches allow the control display to be mounted into the

dash holder with varying lengths of the display exposed.

*NOTE: For in-dash mounting, do not install the control display into the dash until the front laser transceivers and interface “hub” have been installed, and the cables have been routed through the in-dash mount.*



## 2. Front Laser Transceivers

- Position each of the two front Laser transceivers on either side of the front license plate. Many vehicles have open areas in the polyurethane bumpers in or around this area. If possible, choose an area between the license plate and the center point of headlight lens – see diagram (2)
- Using the mounting brackets supplied, mark the location and drill pilot holes if necessary.
- Mount the transceivers using the supplied hardware. *NOTE:* Both of the front transceivers must be level to the road. Use the supplied spirit level to ensure each transceiver is level to within +/- 5%. Align the spirit level along the etched line which appears at the side of each transceiver.

Finally, connect each jack from each transceiver to the “Y” connector provided.



## 3. Rear Laser Transceiver

- Remove the license plate screws from the license plate.
- Align the two holes in the rear Laser transceiver to the license plate; use supplied screws to re-attach.
- Route the wire emanating from the transceiver through the trunk compartment and into the vehicle’s interior and up to the 3-hole interface “hub”. Cable can also be routed under the vehicle, provided it is kept away from heat and moving parts.
- Insert the jack into the hole labeled “Rear Laser”.

*NOTE: Ensure you do not block any information on the license plate. The cable may be cut if too long, however, it must be reconnected using solder for each of the three wires and sealed with heat-shrink tubing.*

## 4. Routing of Front Laser Transceiver Cables

- Route the cable from the two front Laser transceivers to the vehicle’s firewall, and secure with supplied tie-wraps.
- If a suitable opening in the firewall does

- not exist, drill a 13/32” or 7/16” hole to insert the cable.
- Pull the cable through the firewall, and plug into the jack marked Front Laser.
- Pull the grommet through the firewall to seal the hole. If necessary, use silicon sealant (not supplied).

*Note: Do not splice the cable. Ensure cable is kept away from any hot or moving parts.*



## 5. 3-Port Interface “hub”

- Install the 3-hole interface under the vehicle’s dash using the supplied tie-wraps. **DO NOT MOUNT IN ENGINE COMPARTMENT.**
- Connect black wire (-) to a ground source such as the vehicle’s floor pan. Connect the red striped wire (+) to a switched 12-volt supply. Use the blue colored wire connector to tap into an existing circuit, if needed.

*Note: If LaserPro™ 904 is left in the “on” position, it will automatically power on and off with ignition.*

## Testing Procedure

After all components are installed correctly, turn LaserPro™ 904 ON by pressing the Power On button and turn the vehicle’s ignition to the “on” position; LaserPro 904 will cycle through its startup test sequence.

- **DO NOT** drill holes into the front Laser transceivers.
- Make certain the area selected is suitable before drilling holes into the bumper.
- Keep cables away from moving parts or hot or heated surfaces.
- Do NOT splice the cables
- Use the supplied spirit level to ensure that each transceiver is level.

