



# TRAX

## INSTALLATION INSTRUCTIONS



### EQUIPMENT MOUNTING

Select a location within arms reach of the driver so you can adjust squelch and volume if needed. Keep electronics high to avoid water damage. PCI offers a wide selection of brackets, visit our website for mounting solutions.

### POWER

For clearest sound, run intercom and radio power direct to the battery. Never run power cords near MSD, Ignition, Antenna/Coax or Stereo/Amplifier equipment and cables.

### HEADSET/HELMET CABLE ROUTING

- When routing intercom cables, (headset/helmet cables) mark them with masking tape or something to indicate separate Driver, Co-Driver and rear seat cables (Crew 1 & Crew 2). The push to talk button for the driver activates one mic only, the one plugged into the driver port on the back of the intercom. Same with the Co-Driver PTT. If these cables are reversed, your voice will not be transmitted.

- Only the driver and co-driver positions can transmit over the two-way radio

- Route Intercom cables down one side or through the center of the vehicle, bring them behind the seats and then up to the left shoulder area. If your seats have holes for the shoulder harness, route through that hole and zip tie to the left harness. If you have our RaceAir hose, it's helpful to zip tie to the Raceair hose.

- Do not run headset/helmet cables near any power cables, the antenna coax cable, Amplifiers, or lighting cables.

### ANTENNA MOUNTING

- Proper antenna mounting determines the range of your two-way radio. Mount the antenna on the highest point of the vehicle. If you have a roof rack, mount on top of the roof rack.

- Install the Coax cable through a 3/8" Hole in your roof or a tab. If the thickness of the roof or tab does not exceed 3/16" use a washer – see diagram "a".

- Do not coil the coax. If you have excess, winding up in a roll can cause a choke that can create noise and reduce range.

- Do not run coax cables near Ignition, headset cables or amplifiers. The radio transmits a lot of power and if run near ignition boxes and wires it can shut the car off!

- When removing the antenna for transport, always unscrew at the big screw instead of the black base - see diagram "b".

### MUSIC CABLE

- All PCI Intercoms include a Music/Phone cable. We recommend installing this cable in case you have passengers that want to play music without syncing to Bluetooth.

- Connect the white molex to the back of the intercom. We like to drill a hole in between the glove box and the area where the intercom is installed so the music device can be placed in the glove box during playback.



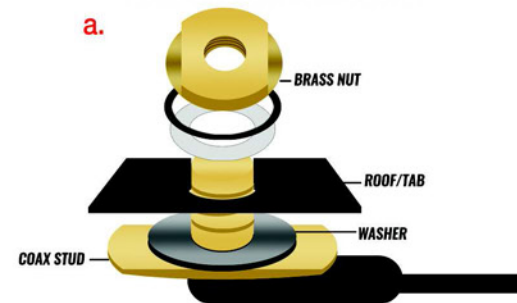
XP1000 Icom Bracket



Headset/Helmet Cable



Panel Mount PTT



a.

b.

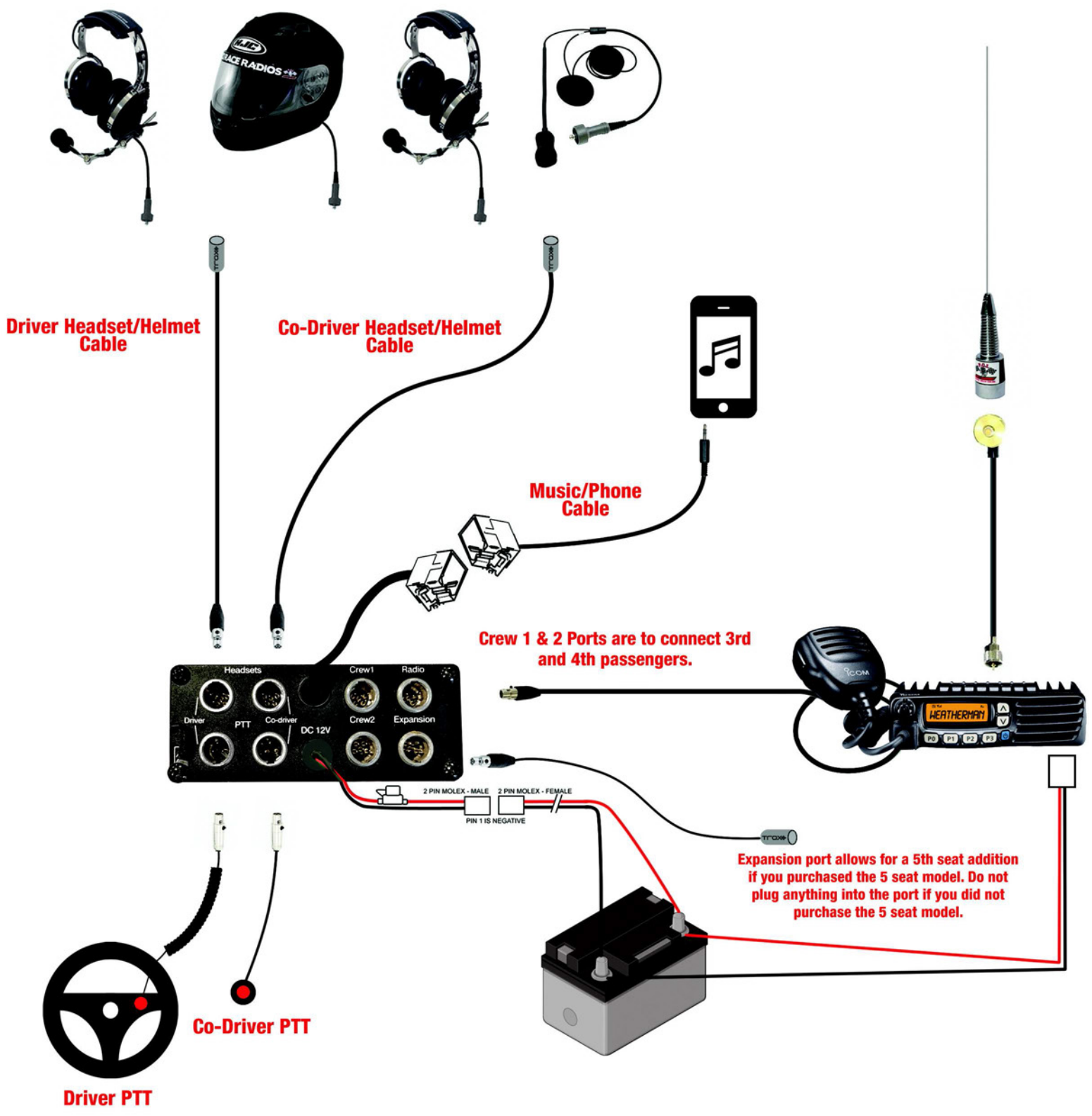


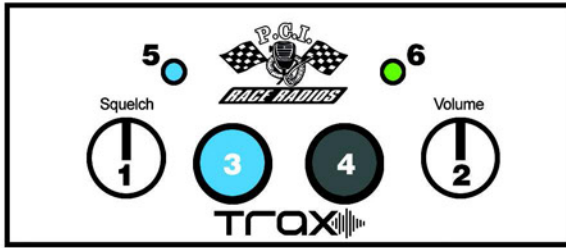
Music/Phone Cable



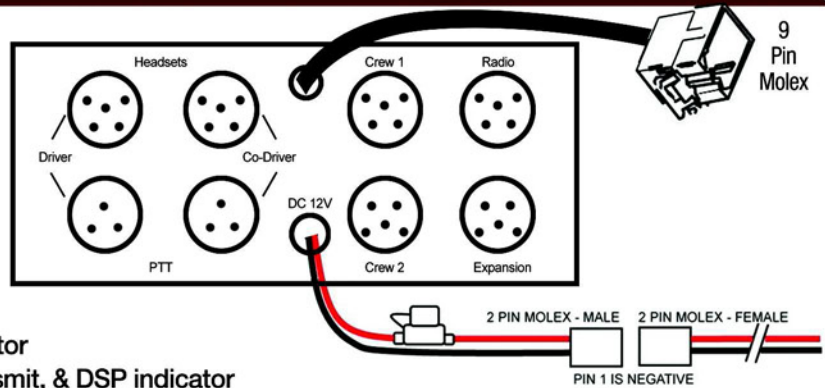
# TRAX

## INSTALLATION CONFIGURATION





1. Squelch
2. Volume
3. Bluetooth Pause/Play
4. DSP On/Off
5. Bluetooth LED Indicator
6. Intercom Power, transmit, & DSP indicator



The Trax Stereo Intercom comes in two configurations. Bluetooth and Bluetooth + DSP. If you did not purchase the DSP model, the instructions below may not apply to you. Want to upgrade to DSP? You can send your intercom in for this upgrade!

### INTERCOM OPERATION

- Make sure microphones are directly in front of and close enough to touch your lips.
- Speaking into the microphone in a normal voice, adjust the squelch sensitivity by rotating the knob. Full rotating counter clockwise closes the squelch and music will be at full volume, mics will not open and you will not hear each other talk. (This is helpful if you have talkative kids in the back). Fully rotating the knob clockwise will completely open the mics and the music will be muted by 20%. Turn the knob to find the adjustment setting that breaks the squelch open when you talk into the microphone and then closes the mics to bring the music back to full volume when you stop speaking. PCI Intercoms feature digital squelch control, as you turn the knob wait a second for the setting to adjust.
- Rotate the volume knob to find desired volume level.

### WIRED MUSIC/PHONE

- Our phone/music cable is 4 pins allowing music in and audio out to your phone for a phone conversation.
- Connect this cable, play music on your device and turn the volume up or down on the device.

### BLUETOOTH MUSIC/PHONE

- To pair your device, turn the Bluetooth off by pressing for 3 seconds until the light turns off. Set your Bluetooth device to discoverable mode and press the blue button for 10 seconds until the blue LED begins blinking fast. Your phone will find "PCI-INT." If it asks for a code, enter 0000.
- Pressing the blue button once will play or pause your music.
- When you hear your ringtone, indicating an incoming call, press the blue button to answer. Answering on your phone will turn on privacy mode and you will need to talk through your phone. If you answer on your phone and want to switch to Bluetooth, this option can often be found on the call screen, depending on your device.
- Bluetooth range is generally limited to the front seats without an external antenna. Your phone will automatically disconnect when outside the vehicle.
- Some cell phone covers may reduce the range of your Bluetooth communications. If you are having range issues, remove your phone cover to see if it helps. Have a phone case you don't want to part ways with? We offer an external antenna option that will increase range.

### DSP (DIGITAL SIGNAL PROCESSING)

- DSP will eliminate background noise such as exhaust or wind from the intercom when the mics are open. Because the signal is digitally processed, expect a slight robotic sound to your voice. We've installed an on/off for the feature so you can use it in loud environments and disable when not needed.
- Press the Black button to enable, press again to disable. The Green LED will blink when the DSP feature is active.

### TWO-WAY RADIO OPERATION

- Power on your radio and select the channel your group will be using.
- Adjust the volume of incoming radio transmissions using the radio knob.
- Keep in mind there are additional "zones" or banks of frequencies on the radios. Press P3, then up or down to browse through zones, Press P3 again to select a zone. Zone 1 is the most common and has the stock desert list. These frequencies can be busy in popular areas, selecting a less common frequency on zone 2-4 may bring more privacy to your group. On a Kenwood Radio, select Zones by pressing the B/C buttons
- Press the push to talk button and wait a second before speaking. Speaking slowly and calmly into the radio will ensure the best communications in your group.
- You may need to adjust the squelch sensitivity on the two-way radio. If you hear white noise coming over the radio, Press and hold P0, press the button up to 4 or 5 and then P0 again to save.

### AUDIO INPUTS

- The 9 pin molex on the back of the intercom allows additional audio input into your intercom. We have included an extra molex plug and pins if you want to wire in a stereo or separate device.
- For custom audio installations, please give our technicians a call to discuss additional accessories that may simplify your integration.

### AUDIO OUTPUT

If you wish to record your intercom and radio communications onto a camera, PCI carries some cables to simplify this. Visit our website or call our technicians for more help. To wire up yourself, Pin 4 is Audio Out Left, Pin 5 is Audio Right and Pin 6 is common ground for right and left.

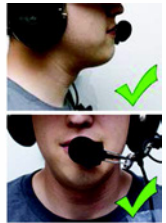
### ADDITIONAL TIPS - PLEASE READ!

- Intercom volume only controls the volume of the in-car voices. The knob on the radio controls the incoming radio volume. Music volume is controlled on your music device.
- When tie wrapping any cables to the frame, be careful not to crush any cables.
- Powering your music device or cell phone while playing back music can create a ground loop introducing noise into the system. If your installation requires power to the music device during playback, please purchase a Ground Loop Isolator to ensure clear music playback.
- Do not plug the music cable into the back of the two way radio. The female jack on the back of the two way radio is for an external speaker and inserting a plug into this jack will disable the speaker on the front of the radio, which is handy to have when your helmet is off.
- Adjust microphones on headsets and helmets so they are centered and touching your lips.
- Headset screws may need to be tightened after a few years.
- To help eliminate noise, unplug headsets when they are not in use.
- At higher speeds, the squelch control may need to be tightened and you will need to project your voice.
- Intercoms and Radios are not waterproof. Do not use a pressure washer or hose to clean debris from the face. Use a damp cloth to wipe down the face and be careful to cover the radio and intercom when washing your vehicle.
- If your friends say their radio keys when you push to talk, but little or no voice is coming out – make sure you routed the Driver side PTT to the Driver Side headset cable. You can quickly test this by pressing the Co-Driver PTT and talking. If you are loud and clear with that test, the PTT's are crossed.
- If your music volume is too low, make sure your squelch is set tight enough. Turn the Squelch volume counter clockwise to see if the music returns to full volume. Music volume is controlled on the music device itself, intercom volume only increases the volume of passenger voices.
- If your friends say you sound garbled on the two-way radio, you may need a noise filter on your radio power. This generally means a cable is routed close to something it shouldn't be. In some vehicles with a lot of electronics like amps, lights, etc it may be impossible to find a clean routing option. This noise filter can help.
- LED whips that have metal may interfere with the antenna. We recommend Fiber lighted whips and to keep them as far away from the antenna as possible.
- The 4 Link Pro Intercom and cables will not work with the Trax Stereo 5 pin cables and vice versa. We do have 5 pin to 4 pin and 4 pin to 5 pin adapters to make helmets and headsets work with either system.

#### 9 Pin Molex

1	4	7
2	5	8
3	6	9

1	Audio In Left	Red
2	Audio In Right	White
3	Ground	Shield
4	Audio Out Left	Ground
5	Audio Out Right	Black
6	Ground	Shield
7	Phone Mic	Yellow
8	Phone Speaker	Blue
9	Ground	Shield



# PCI RACE RADIOS