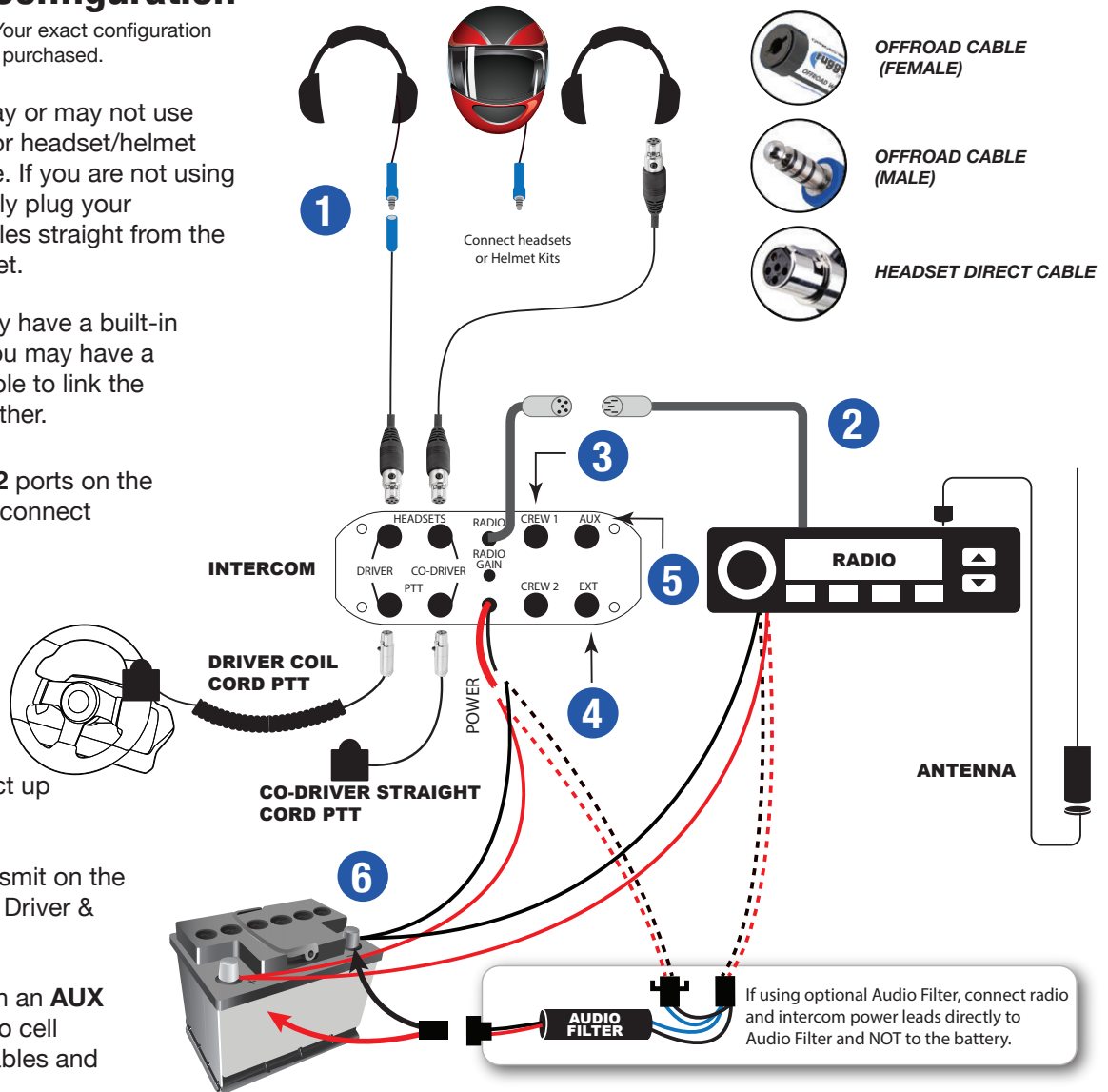


## Radio & Intercom Configuration

\*\*This is a universal wiring diagram. Your exact configuration might vary depending on the system purchased.

- 1 Your particular setup may or may not use the **OFFROAD** cables for headset/helmet connections shown here. If you are not using these style cables, simply plug your **HEADSET DIRECT** cables straight from the intercom into the headset.
- 2 Your particular radio may have a built-in radio jumper cable or you may have a completely separate cable to link the intercom and radio together.
- 3 Use **CREW 1 & CREW 2** ports on the back of the intercom to connect additional passenger headsets.
- 4 Intercoms equipped with an **EXT** port allow for an intercom expansion module (2 or 4 place) allowing your intercom to connect up to 8 people.  
  
Passengers cannot transmit on the radio. This feature is for Driver & Co-Driver only.
- 5 Intercoms equipped with an **AUX** port allow connectivity to cell phones, video record cables and other devices.
- 6 Directly connect to a 12V battery.



## Radio & Intercom Mounting

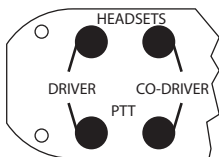
- Find a good location to mount the intercom and radio close together, keeping in mind the cable length.
- Both the intercom and radio come with universal mounting brackets. Vehicle specific mounting options are sold separately.
- DO NOT mount the radio or intercom near an ignition box to avoid RF interference.

## Connect Power

- Route all power cables directly to the battery.
- DO NOT connect inline with other components. If power is tied to ignition, lights or other power sources, a ground loop problem may occur, causing noise in the system.
- DO NOT remove any fuses that are in line with factory cables. This will void the warranty.

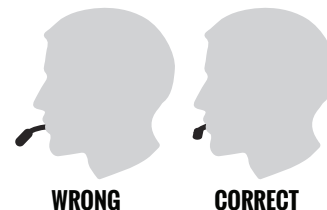
## Push-To-Talk (PTT) Buttons

- Push-to-Talk Buttons are used to transmit over the radio. They are not needed to talk on the intercom.
- Hole Mount PTT: Drill a 3/4" hole to mount the PTT.
- Velcro Mount PTT: Mount on the steering wheel, grab bar, or shifter. If mounting on the steering wheel, use the coil cord PTT to wrap around the steering column. Turn steering wheel lock to lock and make sure the cable does not bind. Damage can occur if the cable binds while turning.
- Add strain relief to your cables so they don't get damaged if pulled on.
- Be sure to plug in the Driver PTT into the PTT port just below the driver headset jack and plug in the Co-Driver PTT right below the Co-Driver headset jack.
- PTT buttons will only activate one mic at a time.



## Intercom Operation

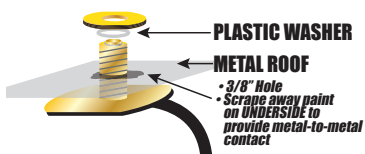
- Power on intercom by rotating volume control clockwise or pressing power button. Put headset on and move microphone as close to your mouth as possible.
- You can now talk freely with all passengers in the vehicle.
- For VOX equipped intercoms, rotate the VOX dial control counter clockwise slowly until the mics turn off. Speak into the mic and the VOX should turn mic on. Set this level higher to cut out wind and engine noise.
- When the intercom is on, there will be a steady glowing BLUE LED light on the front of the intercom. When you press a PTT button to transmit, the LED will change color to RED.



With headsets and helmet kits, be sure to position the mic as close to your lips as possible for best audio performance.

## Antenna/Coax Cable

- Rugged Radios' antennas come pre-tuned for the channels programmed in the radio so all you have to do is mount the antenna and route the coax cable.
- Some antennas require a ground plane, or metal surface, and some do not. All Rugged antennas will work without a metal surface but for best performance, mount the antenna on a metal or aluminium roof in the center.
- Mount NMO connectors through a 3/8" hole. Be sure to scrape away any paint on the underside so the NMO mount gets a good metal contact.
- Route the coax cable away from intercom power cables, ignition boxes, coils, HID ballasts, amps, headset cables, and other components that carry power or emit RF interference.
- **IMPORTANT! If there is any excess coax cable after installation DO NOT COIL THE CABLE! Coiling coax cable will cause transmit problems and limit radio range. Ideally, the coax should be cut to exact length and re-crimped with connectors. However, if that is not an option, route the cable further around the car.**
- Visit our HELP section at [www.ruggedradios.com](http://www.ruggedradios.com) for a video that offers detailed information about cutting coax, proper antenna installation and antenna tuning.



## Radio Operation

- Turn on the mobile radio and select the channel you wish to transmit on. **The incoming volume of other cars is controlled by the radio, not the intercom volume control.**
- To transmit to another vehicle, push the push-to-talk on the steering wheel or headset.
- Refer to the owners manual for complete radio operation and functions.

## Music Input

- Depending on your intercom's capabilities, there are 3 different ways to play a music device through the intercom; 3.5mm port on the front, 6-pin aux port on the back or wirelessly using bluetooth.
- Intercoms with VOX operation will attenuate volume of the music when talking over the intercom or during radio transmit. If the music is always silent, adjust the VOX (Squelch) control on the intercom until the mics turn off.
- The volume for the music is only controlled by the music device.