

Installation Instructions- AR-510 ProDesert Extreme Intercom

Initial Set-Up

You have purchased the highest quality, most durable and versatile racing communications intercom available . You will find our Easy-Link connectors and modular design will make this the easiest intercom installation ever !

The Intercom should be flush mounted to the console or dashboard location where both co-driver and driver can easily reach controls with shoulder harnesses on . Do not mount directly below or above two way radio to avoid interference . Cut out rectangular hole with supplied template and mount with (4) mounting screws and nuts with lock washers .

Connect positive (red) and negative (black) power wires directly to battery or dedicated main supply 12v source .

Install PTT (push-to-talk) buttons , either Velcro (P0505) or Hole Mount (P0520) in Vehicle. Connect / plug PTT switches to driver and co-driver PTT pigtailed on rear of the AR-510 .

IMPORTANT :Make sure the driver and co-driver connections are correct or two-way radio transmit will not function properly . **Be sure to put shrink tubing over connectors to keep out water** and isolate from ground . Also , do not allow PTT connectors to touch chassis at any time .

Run (2) I0461 (12ft.) Cables from intercom location to shoulder harness area . Other length cables are also available in 6 , 9 ,16 and 22 ft lengths . Connect headset cables to intercom driver and co-driver jacks respectively. Plug in Hemets or Headsets to test system . You should be able to hear yourself in the speakers when you talk (Sidetone feature) .

AR-510 USER ADJUSTMENTS

The intercom coms factory defaulted with adjustments mid-range and should be very close for most installations .

RADIO GAIN ADJUSTMENT. (Critical)

This sets the drive level to the 2way radio and should be adjusted with both helmets / headsets connected and Vehicle engine running . It should be rechecked with Vehicle driving at speed (with additional ambient noise) if possible . Although a professional Communications Monitor is best used to set the FM deviation @ 4 Khz , the next best thing is to listen to the audio level on another external 2way radio . Make sure minimum background noise ts being transmitted .

DRIVER AND CO-DRIVER SPEAKER LEVEL ADJUSTMENT :

Both these settings should be defaulted for best performance however a coarse adjustment for Driver and also Co-Driver is located on the rear panel . Adjustment would be necessary if front panel volume does not have full range . A likely instance requiring adjustment would be when driver is using Ear Buds (louder) and co-driver is using hemet speakers . Set front panel volume knobs midrange and adjust potetiometers in rear (with small screwdriver for a comfortable volume level .

AUTO VOLUME ADJUSTMENT:

This adjustment is factory preset and should not need adjustment . The auto volume gain can be adjusted from the rear panel . Adjust with front panel auto volume enabled and engine running at idle .

Cell/Sat , Aux in and Aux out

The AR-510 is equipped with Audio In , Cellphone / Satphone/Aux in and Record Out (for In Car cameras and Media connections) on the 9pin Molex(white) connector pigtail from rear panel .Connect this to the Avcomm I0438 transformer based audio panel (optional) for best performance . See wiring diagram for pin-outs for custom installations.

1	AUX. IN L	RED
2	AUX. IN R	WHT
3	GND	SHD
4	AUX. OUT L	GND
5	AUX. OUT R	BLK
6	GND	SHD
7	CELL MIC	YEL
8	CELL SPK	BLU
9	GND	SHD

On/Off , "Stuck Mic" Indicator

Verify the indicator is green when power is turned on and turns to yellow when transmitting . This can be very helpful in troubleshooting .

See Wiring Diagram Attached

Avcomm Racing Products

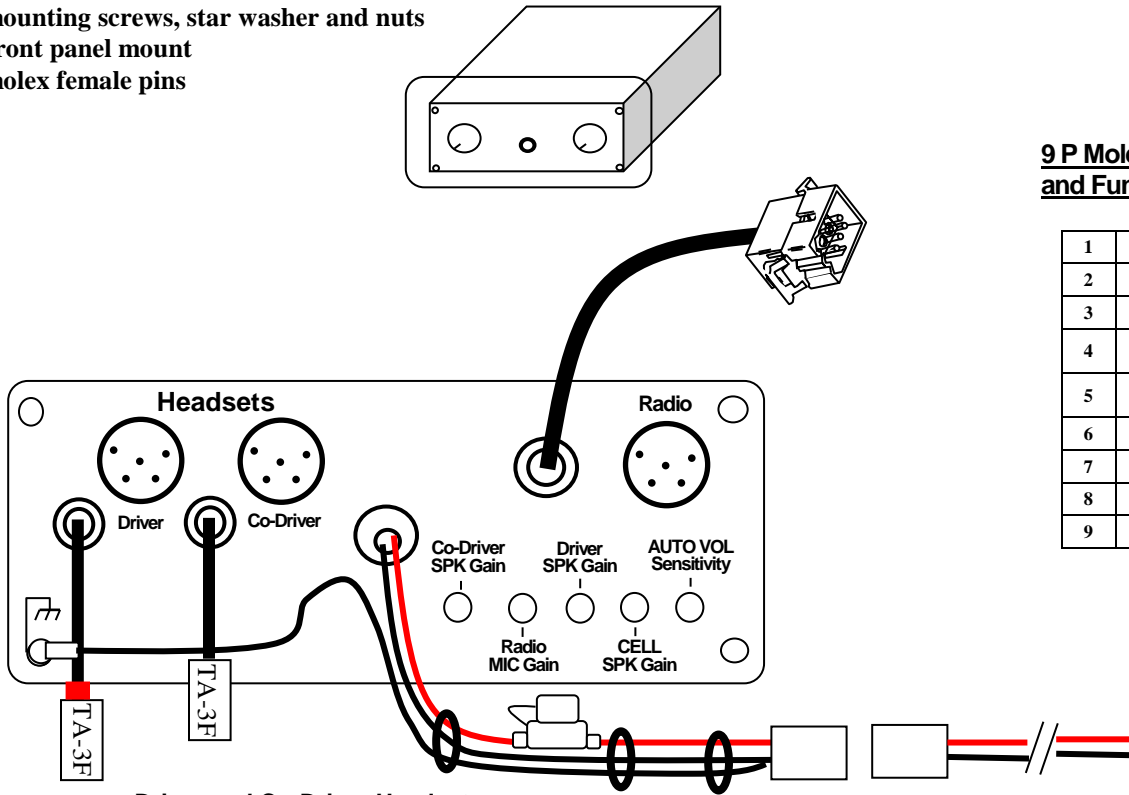
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Accessories :

- **molex female housing,**
- **extra fuse,**
- **(4) mounting screws, star washer and nuts for front panel mount**
- **(9) molex female pins**



9 P Molex Pin assignment and Functions

1	AUX. IN L	RED
2	AUX. IN R	WHT
3	GND	SHD
4	AUX. OUT L	GND
5	AUX. OUT R	BLK
6	GND	SHD
7	CELL MIC	YEL
8	CELL SPK	BLU
9	GND	SHD

Driver and Co-Driver Headsets

- Pin1 : MIC – (GND)
- Pin2 : PTT
- Pin3 : MIC +
- Pin4 : SPK +
- Pin5 : SPK -

Radio

- Pin1 : GND (floated)
- Pin2 : PTT
- Pin3 : Sig Out
- Pin4 : Sig In+
- Pin5 : Sig. In-

Driver and Co-Driver PTT

- Pin1 : GND
- Pin2 : N/C
- Pin3 : PTT

