



# 150W SIREN AMPLIFIER WITH PTT MICROPHONE

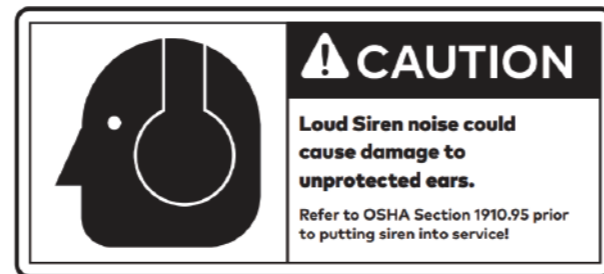
## INSTRUCTION MANUAL

ALL YYATYS PRODUCTS COME WITH PREMIUM AFTER-SALES SUPPORT. UNLIKELY EVENT OF ANY PRODUCT ISSUES, WE OFFER A FULL REFUND OR REPLACEMENT – YOUR SATISFACTION IS GUARANTEED.



### IMPORTANT: READ CAREFULLY BEFORE ASSEMBLY AND USE.

- ▶ Installer of this product must have a good understanding of automotive electronics, systems, and procedures.
- ▶ In the case that holes must be drilled in order to properly mount the product, the installer must examine both sides of the mounting surface before drilling begins. It is the installer's responsibility to be sure that no vehicle components or vital parts could be damaged by the drilling process. De-burr any holes in order to remove metal shards and remnants. Use grommets in all wire passage holes.
- ▶ Do not attempt to activate or operate this product under hazardous driving situations.
- ▶ Never operate the siren indoors or in an enclosed area.
- ▶ Deployment area of the vehicle air bags must be cleared. Do not install this product or route any electrical wires near the air bags deployment areas. Refer to your vehicle owner's manual for the air bag deployment area. Products or wires mounted in the air bag deployment area will damage, reduce the effectiveness of the air bag, or even act as a projectile which may cause serious injury or death. The user/installer of this product assumes full responsibility in determining the proper mounting location while prioritizing the safety of all passengers in the vehicle.
- ▶ SAE J1849 recommends that the maximum sound pressure level in the passenger area, with the vehicle in motion and the siren active, should not exceed 85 dB.



### DANGER!

Sirens are designed to produce extremely loud emergency warning tones! Exposure to the tones produced without proper and adequate hearing protections, could lead to ear damage and/or hearing loss! The Occupational Safety & Health Administration ([www.osha.gov](http://www.osha.gov)) provides information necessary to determine safe exposure times in Occupational Noise Exposure Section 1910.95. The operators of the siren and any one in the immediate vicinity of the siren should be required to wear an approved hearing protection device until one has determined the safe exposure times for your specific application.

**FAILURE TO FOLLOW THIS RECOMMENDATION COULD CAUSE HEARING LOSS!**

### Specifications:

Input Voltage: 12V DC

Input Current: 15 Amps

Speaker Impedance: 8 Ohms Min.

Power rating: 150 Watts

Frequency: 400 - 4,000 Hz

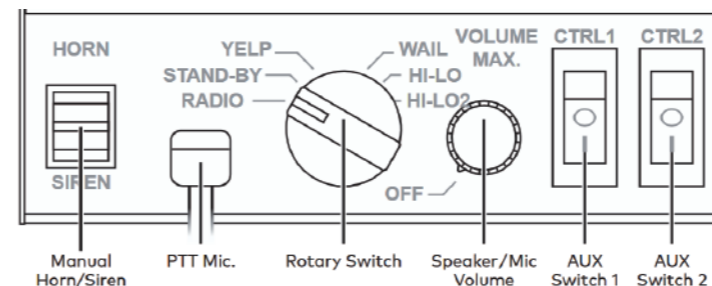
Sound Compression Level: 120 – 130 dB



### Contents:

	Siren with PTT Mic.	1
	Bail Strap Bracket	1
	Wiring Bundle	1
	Wiring for Battery	1
	Siren Speaker	1
Mounting Accessories		1
Fuse(s)		1

### Functions:



### Manual Horn/Siren

This switch has two positions. Down - Siren & Up- Horn. The siren and horn warning tone could be activated manually by engaging the switch to the positions. Horn function can also be activated with the vehicle horn relay by connecting the horn/radio wire of the siren unit to the horn relay of the automobile. (see wiring diagram)

### PTT Mic

Push to talk microphone which overrides any activated warning tone when in use.

### Rotary Switch

The rotary knob controls siren functions. There are 5 positions that may be selected. (see switch functions below for detail)

### Speaker/Mic Volume

The volume knob controls the volume of siren and public address function. Rotating the knob clockwise will increase the volume. Rotating the knob counter-clockwise will decrease the volume. Rotating the knob to minimal volume will disable all siren functions.

### Aux Switch 1 & 2

The auxiliary switches are meant to be used to power other equipment on the vehicle. Each auxiliary switch is fused with a 20 amp AGC fuse.

### Switch Functions:

– Radio

With the rotary knob set to this function, the radio function would be activated. Any signal that is received by the vehicle's two-way radio will be broadcasted over the connected speaker. (the siren must be connected to the two-way radio as outlined in wiring section of this manual)

– Stand-by

With the rotary knob set to this function, the siren will be in stand-by. Manual Horn/Siren and PTT Mic functions are enabled during stand-by.

– Yelp - Activates Yelp warning tone.

– Wail - Activates Wail warning tone.

– Hi-Lo - Activates Hi-Lo warning tone.

– Hi-Lo 2 - Activates Hi-Lo 2 warning tone.

### Optional

– Horn Override

This function, if used, will always be active when the siren unit is on. When it's active, the stock steering wheel horn button will trigger the air horn instead of the stock horn. When the siren unit is turned off, the steering wheel horn button will once again trigger the stock horn. (the siren must be connected to the stock horn wiring as outlined in the wiring section of this manual)

– Radio Bypass

The siren must be connected to the two-way radio as outlined in wiring section of this manual.



## WARRANTY

Thank you for purchasing our products!

We insist on customer first, and always help solve the problem, which can improve our service and the quality of the product, to meet customers' demands.

Strong technical strength and perfect customer service system are assured to guarantee the purchase and usage.

We offer 3 years warranty. Any problems with the products just contact us on Amazon, or send us the email, or contact us on FB, we provide REPLACEMENT or REFUND services, plz purchase with confidence



### Mounting:

The siren is designed to be mounted directly onto the dash or any other surface around the driver's vicinity using the included bail-strap mounting bracket. The siren unit can also be mounted into the vehicle's console when vehicle is equipped with such a compartment.

### Siren Amplifier and Microphone Clip

1. Verify siren amplifier (150W/8Ω) matches speaker specifications.
2. Position bail strap, mark drill holes with scribe.
3. Drill and secure with provided screws.
4. Attach siren to bail strap using screws and washer.
5. Position clip, mark drill holes.
6. Drill and secure with screws.

### Speaker

- All speakers should be installed facing forward, parallel to the ground, and as far forward on the vehicle as is possible.
- Keep in mind that the effectiveness of the siren system will be reduced if objects (grille, push bar, bumper) are in front of the siren speaker.

### Wiring the Horn Override Function

1. Locate the wire running from your steering wheel horn button to your vehicle's horn relay.
2. Choose a location to cut the horn wire.

**CAUTION** - Be careful and always consult the manufacturer's wiring diagrams when looking for, and cutting, the horn wire. Often, the wiring for the airbags, turn signals, and windshield wipers will be in the same area. Cutting the wrong wire can cause serious damage to your vehicle.

**TIP** - When deciding where to cut the horn wire, choose a location that gives you enough room to comfortably work in, leaves several inches of free wire on either side of the cut, and is easy to re-access if repairs or adjustments are needed.

3. Locate the secondary harness (two blue, black and white wires) that will be plugged into the back of the siren unit.
4. If the harness is plugged into the siren unit, remove it at this time.
5. Run the black&white wires from the back of the siren unit to the location where the factory horn wire will be cut.

**TIP** - In addition to the general wiring suggestions mentioned above, always try to leave a few inches of slack when running new wires. This puts less stress on the wiring and leaves room for adjustments and mistakes. The excess can be cut off when making the final connections.

6. Cut the horn wire.
7. Using your preferred method, connect the white wire to the cut half of the wire coming from the stock steering wheel horn button.
8. Connect the black wire to the cut half of the wire going to the vehicle's horn relay.
9. Plug the wiring harness into the back of the siren unit.
10. Test the horn override feature.
11. As necessary, clean up and secure the wiring with zip ties, wire loom, etc.
12. Reattach any vehicle panels or parts that may have been removed to access the wiring.

### Wiring the Rebroadcast Feature

**NOTE:** - Because of the numerous different types, manufacturers, and models of two-way radios it would be impossible to list every wiring option. Below is a simple guide that will work for most radios. Feel free to adjust it to fit your specific situation and setup.

1. Locate the positive and negative wire running from your two-way radio to the radio's external speaker.
2. Locate the point where it will be easiest to splice the blue wires into the speaker wires.

**TIP** - This can happen right at the two-way radio, somewhere along the length of the speaker wires, or right at the speaker.

3. Locate the secondary harness (two blue, black and white wires) that will be plugged into the back of the siren unit.
4. If the harness is plugged into the siren unit, remove it at this time.
5. Run the two blue wires from the back of the siren unit to the location where the speaker wires will be spliced.

**NOTE:** - The goal in this step is not to replace the existing speaker but to run the siren unit in parallel with the speaker, borrowing a signal from the speaker wires.

6. Using your preferred method splice one blue wire into the positive speaker wire.
7. Splice the second blue wire into the negative speaker wire.
8. Plug the wiring harness into the back of the siren unit.
9. Test the radio rebroadcast feature. The volume of the sound can be adjusted via the potentiometer located at the back of the siren unit.
10. As necessary, clean up and secure the wiring with zip ties, wire loom, etc.
11. Reattach any vehicle panels or parts that may have been removed to access the wiring.

### Wiring:

**WARNING!** All customer supplied wires that connect to the positive terminal of the battery must be sized to supply at least 125% of the maximum operating current and FUSED at the battery to carry that load. DO NOT USE CIRCUIT BREAKERS WITH THIS PRODUCT!

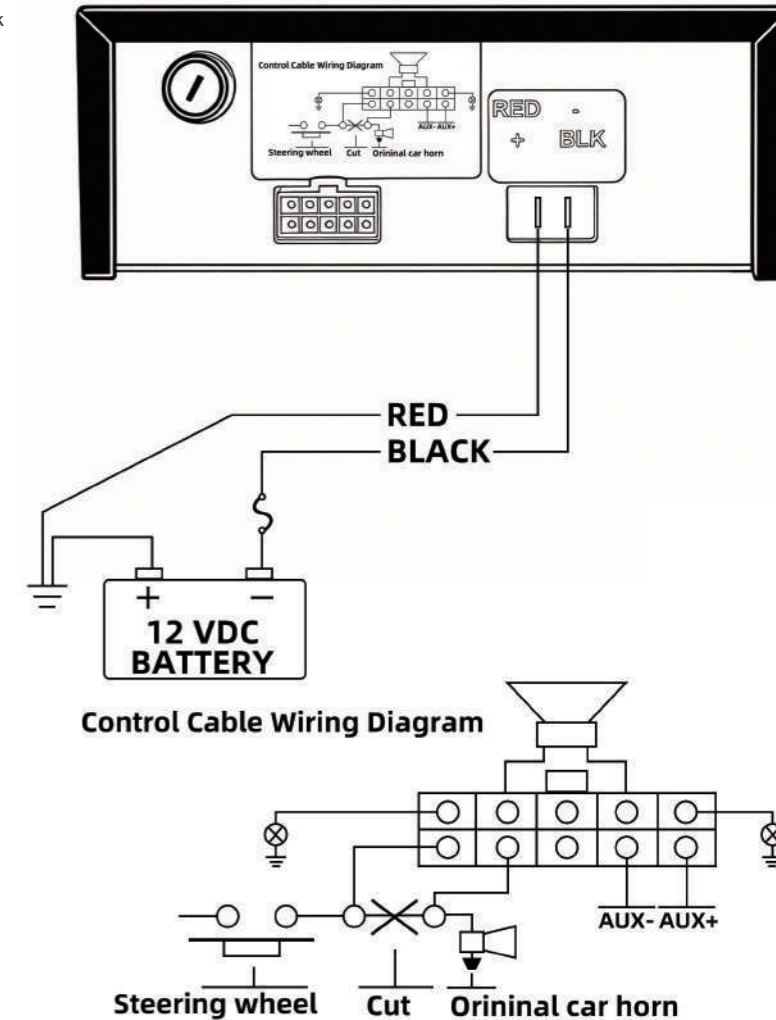
- RED- To 12V Power Source
- BLACK- To Chassis Ground
- YELLOW 1- To optional equipment 1
- YELLOW 2 - To optional equipment 2
- GREEN 1- To speaker
- GREEN 2- To speaker

### Optional Connections:

**Horn Connector (Black&White)** – Connect the unit in-line between the horn button and horn relay with the outer white wire connected to the horn button, and the inner black wire connected to the horn relay.

**Radio Connector (BLUE)** – Connect the unit in-line between one of the radio's output wire. The unit will broadcast the radio in mono sound type. Should only be spliced into one of the output wires (left or right).

### Wiring Diagram:



## FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different

*from that to which the receiver is connected.*

*-Consult the dealer or an experienced radio/TV technician for help.*

*NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*