

INSTALLATION INSTRUCTIONS

DESCRIPTION: Second Battery Wiring Kit
PART NUMBER: B5H-H21B0-V0
MODEL: '19~ YXZ1000R



⚠ WARNING

Please read and understand these instructions completely before installation to avoid possible injury, or damage to the accessory or vehicle.

⚠ WARNING

Use only DOT approved non-spillable batteries in this Battery Box. Non-spillable batteries must be marked by the manufacturer as **NONSPILLABLE** or **NONSPILLABLE BATTERY**.

NOTICE:

This installation requires a torque wrench and should be performed by an authorized Yamaha dealer or other qualified technician.

WARRANTY INFORMATION:

In the United States, see your Yamaha dealer for a copy of the Genuine Yamaha Accessories Limited Warranty statement.

DEALER OR INSTALLER:

These instructions contain important information for future reference and *must* be given to the customer.

COMPONENTS NOT INCLUDED IN THIS KIT:

- Group U-1 Battery is required. Original Equipment battery is recommended.

PARTS LIST:

No.	Part Number	Description	Qty
--	B5H-H21B0-V0	Second Battery Wiring Kit	--
①	*	Battery Tray Bracket	1
②	*	Hold Down Bracket	1
③	*	M6x90 Flange Bolt	2
④	*	M6 Washer	4
⑤	*	M6 Spring Nut	2
⑥	*	Cable Tie – 11"	10
⑦	*	+ Terminal – Red	1
⑧	*	- Terminal – Black	1
⑨	*	M5x20 Socket Head Cap Screw	4
⑩	*	M5 Flange Nut	2
⑪	*	M4 Pan Head Screw	2
⑫	*	M4 Nut	2
⑬	*	M6x16mm Flange Bolt	2
⑭	*	M10x16mm Flange Cap Screw	2
⑮	*	¼" Ring Terminal	1
⑯	*	Main Battery Cable (Red)	1
⑰	*	Auxiliary Power Cable (Red)	1
⑱	*	Auxiliary Ground Cable (Black)	1
⑲	*	Terminal Power Cable w/Boot (Red)	1
⑳	*	Terminal Ground Cable (Black)	1
㉑	*	Battery Separator	1
㉒	*	M6x20mm Flange Bolt (battery)	2
㉓	*	M6 Nylock Nut (battery)	2

** Battery not included in kit. * Part supplied with kit only and not available separately.

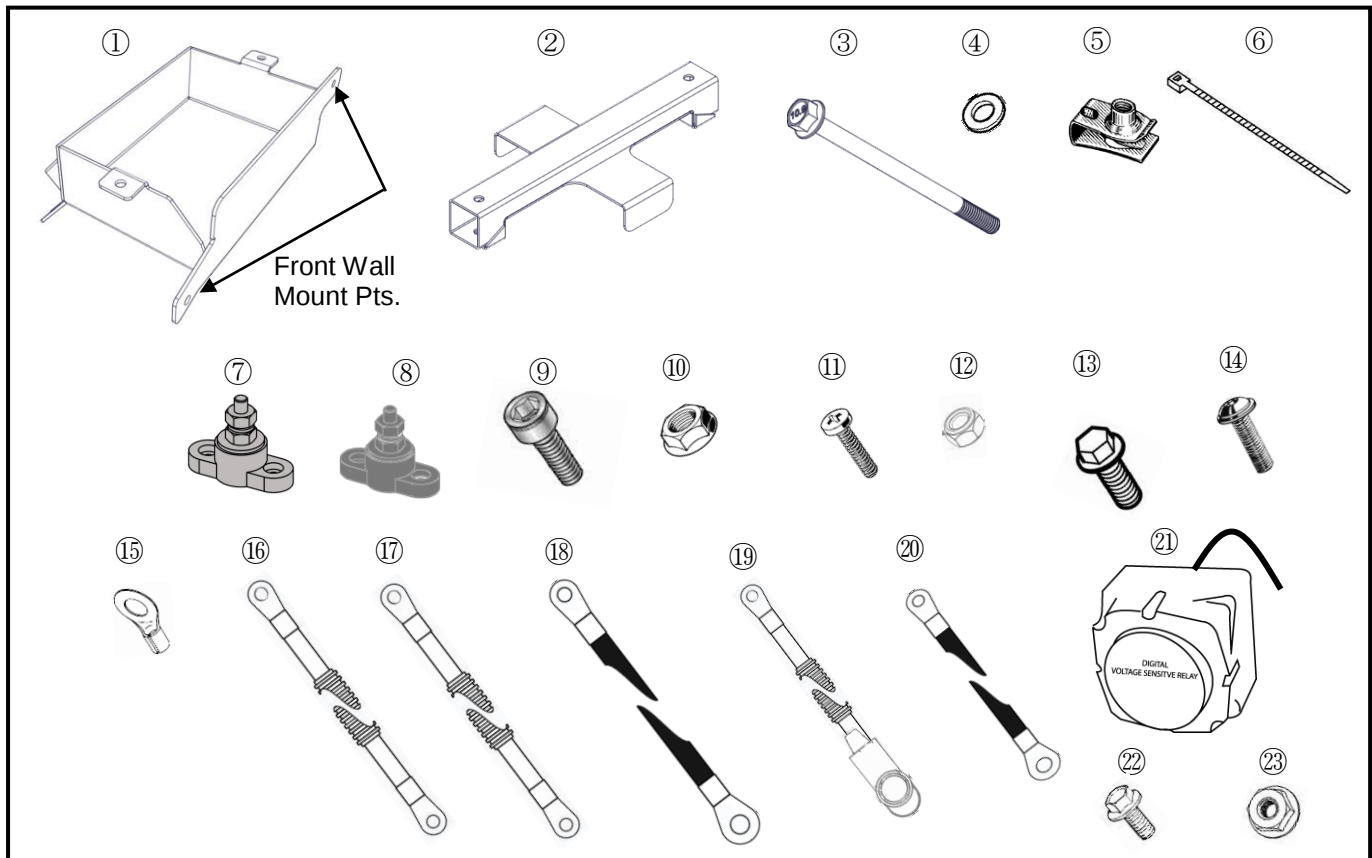
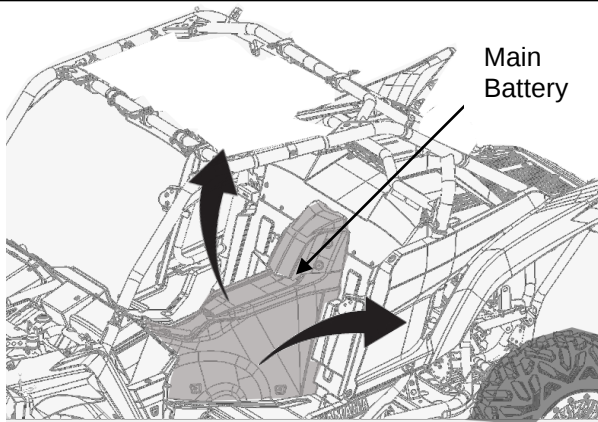


Fig. 1



PREPARATION:

- Place the vehicle on a secure and level surface.
- Set the parking brake.
- Clean the mount surfaces before starting installation.

INSTALLATION:

Notes:

- Refer to the owner's manual and service manual for procedures to remove and reinstall interior panels.
1. Inside the cab, remove the drivers seat. Remove the center tunnel cover and the cover over the main battery. Retain all hardware for reuse. See Fig. 1. Refer to the service manual for more details on how the interior is assembled.
 2. Working in the Main Battery location, position the ⑦ Red Terminal (+) and ⑧ Black Terminal (-) in the battery area as shown in Fig. 2. Mark the hole locations for the four mount bolts and drill out the holes using a 3/16" drill bit.
 3. Install the four ⑨ M5 Hex Bolts through the holes in the ⑦ and ⑧ Junction Terminals, through the holes just drilled, and thread a ⑩ M5 Flange Nut onto each and torque the nut to 4 Nm (3.0 ft-lbf). See Fig. 2.

Fig. 2

Connect ⑦ to ⑦
Connect ⑧ to ⑧

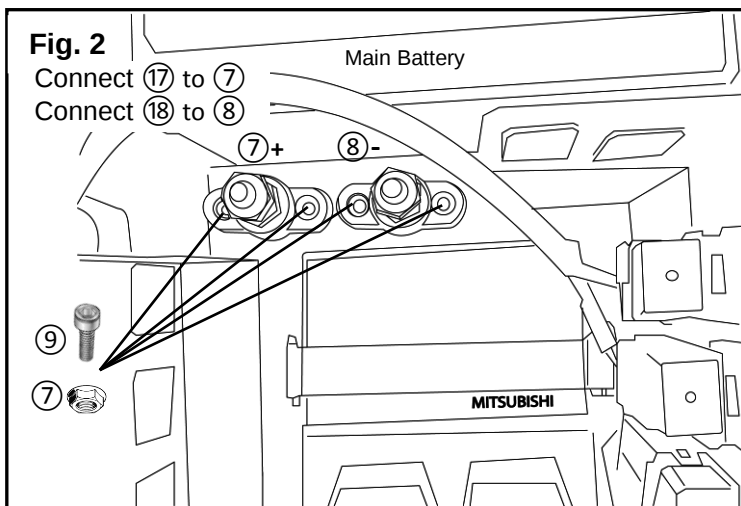
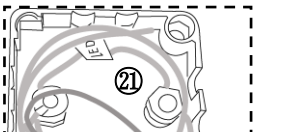


Fig. 3

The diagram illustrates the electrical connections for a dual-battery system. It features two batteries: a 'Main Battery' at the top and an 'Auxiliary Battery' at the bottom. A 'Battery Separator' is positioned between them. The positive terminal of the Main Battery is connected to the positive terminal of the Auxiliary Battery via a wire labeled 16. The negative terminal of the Main Battery is connected to a junction point labeled 7, which is also connected to the positive terminal of the Auxiliary Battery via a wire labeled 17. The negative terminal of the Auxiliary Battery is connected to a junction point labeled 8, which is also connected to the positive terminal of the Main Battery via a wire labeled 18. A wire labeled 20 connects the positive terminal of the Main Battery to the positive terminal of the Auxiliary Battery. A wire labeled 21 connects the negative terminal of the Main Battery to the negative terminal of the Auxiliary Battery. The text 'GROUND to Negative Battery Terminal' is shown near the bottom right.

- Note:** The red/orange wire is not used in this installation. Coil it up inside the Battery Separator as shown in Fig. 4.

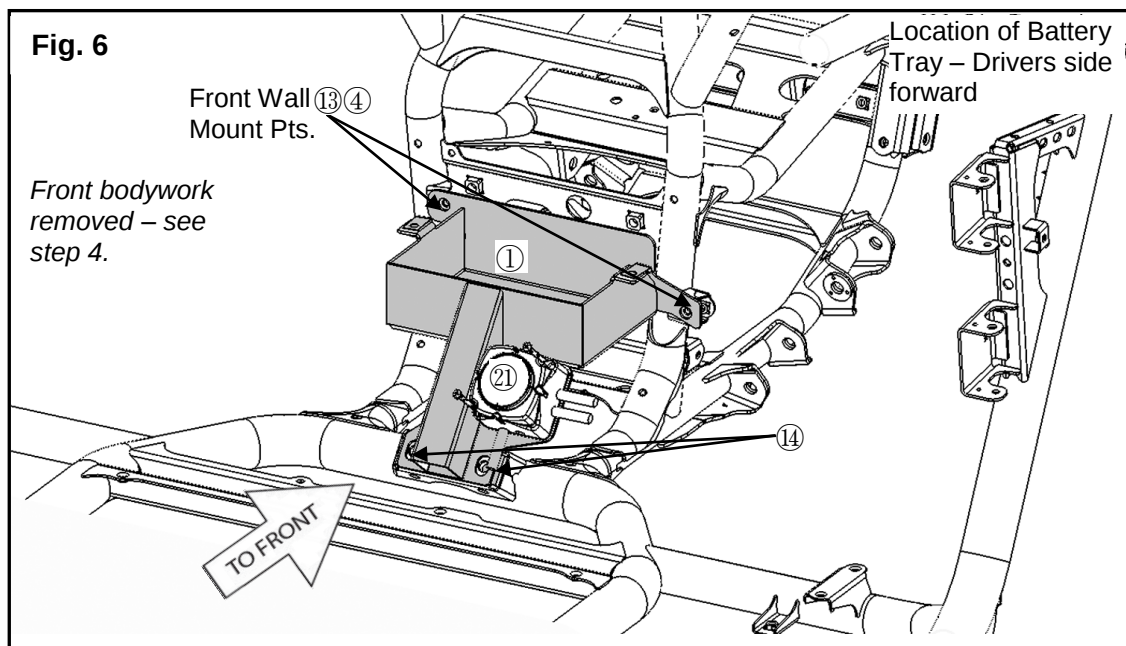
Fig. 4 Crimp ⑮ ring terminal to ⑳ black wire



The diagram illustrates the process of crimping a ring terminal onto a black wire. A dashed rectangular box represents the engine compartment. Inside, a black wire is shown with a ring terminal attached to it. The ring terminal is labeled with a circled '15'. The black wire is labeled with a circled '21'. A callout box, also indicated by a dashed line, shows a close-up of the ring terminal being crimped onto the black wire.

Fig. 5

This technical drawing shows an exploded view of a mechanical assembly. A large rectangular housing (1) is shown at the top. Below it, a circular component (21) is mounted on a bracket. A long, thin rod (11) passes through the circular component and is secured by a nut (12). Two other rods are shown passing through the bracket, also secured by nuts (12). The diagram uses dashed lines to indicate the assembly path and alignment of the components.



8. Install the ① Battery Tray Bracket. Pass ⑬ M6x16mm Flange Bolts and ④ M6 Washers through the two mount holes on the front panel of the Battery Tray and into the threaded mounts. Torque to 13.5 Nm (10.0 ft-lbf). See Fig. 4.
9. Route the ⑰ Auxiliary Power Cable to the 2nd battery area near the (+) post on the battery. Don't connect cable to terminal at this point.
10. Route the ⑯ Main Battery Power Cable to the battery (+) post. Do not connect it at this time.
11. At the ⑧ '-' Terminal, attach the ⑳ Terminal Ground Cable using the bolt and nut supplied with the battery. Route this cable and connect to the '-' Negative terminal of the main battery with the stock bolt and nut. Refer to Fig. 5.
12. Attach one end of the ⑰ Terminal Power Cable to the ⑦ '+' Red Terminal as shown in Fig. 5. Fit the boot over the connection. Route the cable to the post connector on the back side of the ②① Battery Separator and connect it to the same post that the ⑰ Auxiliary Power Cable is connected to.
13. Connect one end of the ⑱ Auxiliary Ground Cable to the ground terminal of the auxiliary battery along with the thin black wire from the Battery Separator.
14. Connect the other end of the Auxiliary Ground Cable to the '-' terminal of the main battery. Secure the cable along the vehicle frame.
15. Press the ⑤ M6 Spring Nuts onto the two mount holes in the ① Battery Tray Bracket (on the tabs on the tray). Install the Auxiliary Battery into the Battery Tray. Secure the battery with the ② Hold Down Bracket, two ③ M6x90mm Bolt, ④ M6 Washers – and thread the bolts into the Spring Nuts. Tighten evenly to secure the battery.
16. Connect ⑯ Main Battery Cable to the main battery. Connect the ⑰ Auxiliary Power Cable to the (+) post on the Auxiliary Battery.
17. Secure cables to the frame and/or existing wire bundles with ⑥ Cable Ties.
18. Check to see that all cables are connected as shown in Fig. 5. Tighten all nuts that hold cable in place to 10Nm (7.4 ft-lbf)
19. Reinstall interior parts and hardware. Reuse the stock hardware. Refer to the service manual detailed procedures.

MAINTENANCE:

Periodically, check torque and tightness on all hardware. If loose hardware is found, re-torque or re-tighten. Periodically inspect accessory wiring for chaffing and rubbing and adjust position and cable ties as needed.

CARE AND CLEANING:

Clean painted metal parts with a clean soft cloth and mild soap and water. Rinse and dry.

CUSTOMER SERVICE:

For further information see your Yamaha dealer.