

### F650GS CargoRest

**It's very important to carefully follow these installation instructions!**

**Do not proceed until you fully understand the entire assembly process.**

Thank you for purchasing our products. We work very hard to provide you with the highest quality accessories. If you have problems with installation please contact us. We'll walk you through the process and answer any questions.

Ride safe and God Bless!  
David & Judy Petersen

#### Installation Overview:

Your CargoRest will bolt directly onto your F650GS. You'll need 30-45 minutes to complete the installation. All brackets and fittings are designed to fit around the standard exhaust, turn signals, and saddlebag mounts. You'll be replacing four stock screws with new screws and bolts.

#### Tools needed for installation:

- 2 - Torx wrenches - located in your motorcycle toolkit
- 1 - 8/10 mm wrench -located in your motorcycle toolkit
- 3 - hex wrenches included in the CargoRest parts package

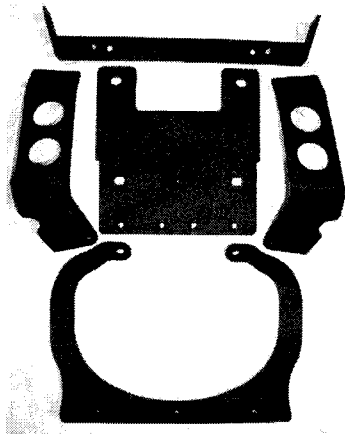
#### Other items (optional):

- 1 - tube "blue" thread compound (not red permanent)
- 1 - rubber band

#### Contents of your boxes:

- 1 - CargoRest (C, J, or T)
- 1 - Manila parts package
- 1 - Yoke (photo, at top)
- 1 - Left Strut (at left)
- 1 - Bottom Plate (at center)
- 1 - Right Strut (at right)

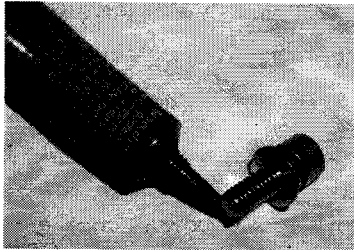
#### 1 - Tail Piece (at bottom)



The manila parts package contains all the hardware and fasteners you'll need. For ease of installation we've also included three metric hex wrenches. To make the assembly process go smoothly, we suggest you identify and segregate the hardware according to the Parts List. Make sure all parts and fasteners are present.

Once you've read the entire installation manual, identified and separated your parts, and fully understand the process, you're ready to begin.

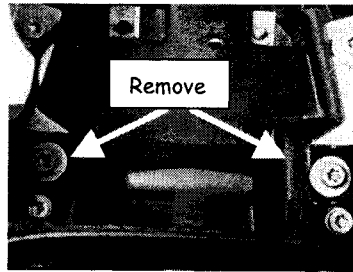
Note: We recommend using a semi-permanent (blue) thread locking compound on all screws and nuts.



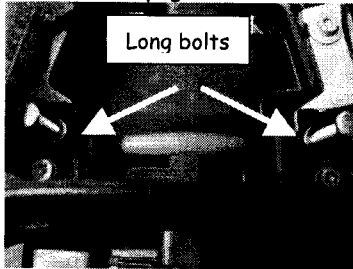
Step 1: Remove the storage compartment lid and seat.

Step 2: Remove the two <large> screws located on either side of the seat release

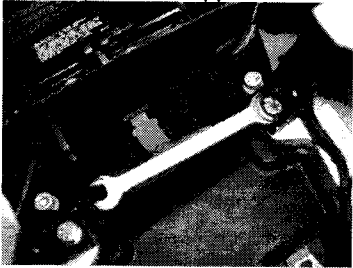
lever. These screws also hold the grab rail frames. (Photo shows seat release lever and cargo compartment.)



Step 3: Insert Items 14 (M6x45 hex head machine bolt, with medium washer) into these holes. Photo below shows storage compartment, seat release lever and the long bolts before they're screwed down. Front of motorcycle is toward bottom of page.

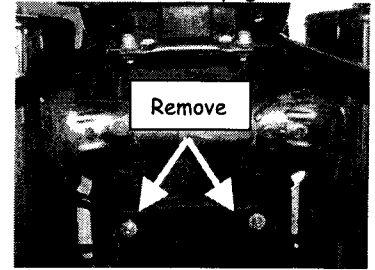


Step 4: Using your 8/10 wrench, tighten the bolts all the way down. Photo shows wrench lying over top of seat release lever, front of motorcycle is at upper left.

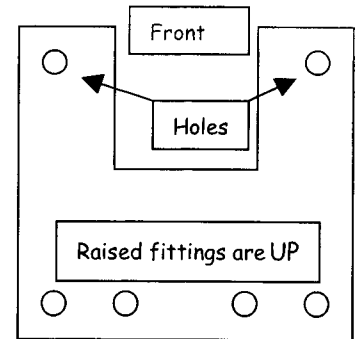


Step 5: Remove the two screws located on underside of the wheel well, forward of the exhaust cross-over. Photo shows underside of fender,

with saddlebag brackets, exhaust crossover, and screw heads. Front of motorcycle is toward bottom of page.



Step 6: Identify front and upper side of BOTTOM PLATE:

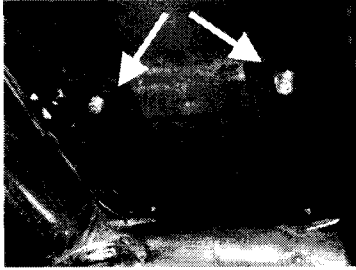


Familiarize yourself with the proper orientation of the BOTTOM PLATE. The "ears" should be toward the front of the motorcycle and the raised Pem fittings should be pointing UP. When mounted on the motorcycle, you should not be able to see these raised fittings.

Failure to properly orient and secure the BOTTOM PLATE will cause failure of the pressed fittings, will void the warrantee, and may cause damage to the motorcycle or result in personal injury.

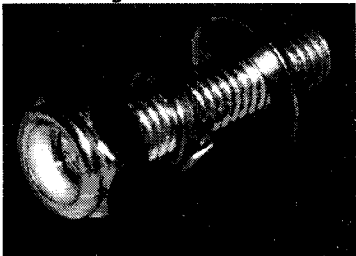
Step 7: Starting in front of the exhaust cross-over, slide the BOTTOM PLATE rearward into the space between the fender and the exhaust crossover. Align the front holes of the BOTTOM PLATE

with the holes vacated by the screws you removed in Step 5. Insert Items 18 (M6x25 socket head cap screw w/ flat washer) into holes and tighten by hand.



Above photo shows underside of fender and exhaust crossover, with BOTTOM PLATE held loosely in place by screws. The ends of the long bolts (Step 3) are just visible above the exhaust. Note that the Pem fittings are not exposed or visible. Front of motorcycle is to upper left of page.

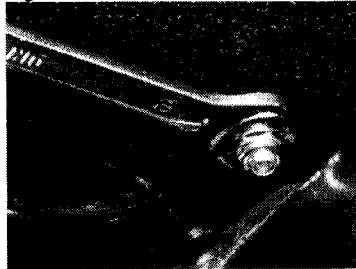
Step 8: At the rear of the BOTTOM PLATE the ends of the bolts from Step 3 (Item 14) will protrude through the holes in the plate. Working from in front of the cross-over exhaust, place Items 15, 16, and 17 (flat washer, split ring washer and nylon locknut) on the end of the bolt. Photo below shows an exaggerated view of the bolt end protruding thru the BOTTOM PLATE. Note the use of a lock washer between the flat washer and the locking hex nut.



Helpful hint: Place the flat washer and lock washer on the end of the bolt. Then hook a rubber band over the bolt and pull it tight. This will hold the

washers in place while you start the nylon locknut onto the threads.

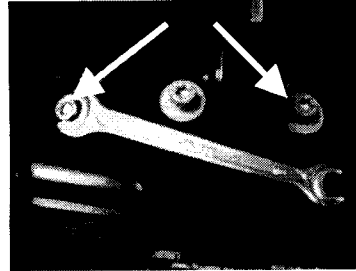
Step 9: Once all parts are in place tighten snugly, using the 8/10 wrench. Make sure the long hex headed bolt (Item 14) doesn't turn itself loose as you tighten the nut on the underside of the BOTTOM PLATE. If this occurs, retighten the bolt head and hold it in place with another wrench as you tighten the nut on the underside of the BOTTOM PLATE, as it tightens the nut; exhaust cross-over tube is at the lower right.



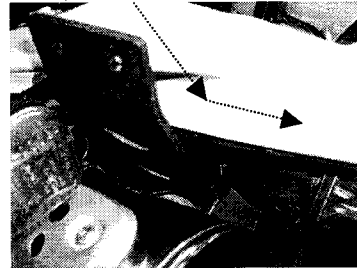
When you've completed this process the BOTTOM PLATE should be securely clamped against the underside of the frame. Check for movement and tighten or adjust as required.

Step 10: On the top of the fender, in front of the storage compartment you'll see the threaded ends of Item 18 (M6x25 hex cap screw) protruding through the end of the welded nut flanges of the frame. Place Items 17 (M6 nylon locknuts) on the ends of these screws and tighten them until they contact the welded nut. Make sure that you don't loosen the bolt as you tighten the nuts. These locknuts will prevent the screws from working loose and will prevent the BOTTOM PLATE from

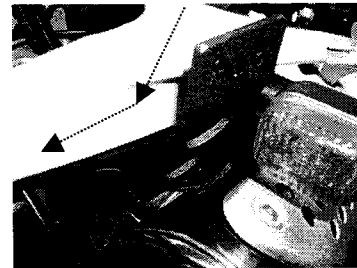
movement. Following photo shows the 8/10 wrench on the nut.



Step 11: Slip LEFT STRUT between exhaust and frame. This is a close fit and may take a few tries, but the parts WILL fit without forcing anything. If you have problems make sure you've selected the correct STRUT. (The crescent cutouts are on the bottom and two small holes go toward the rear.)

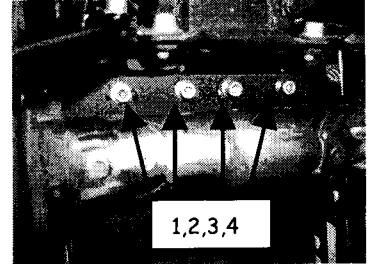


Repeat the process with RIGHT STRUT, as shown below.



Step 12: On the underside of the fender, looking upward, behind the exhaust cross-over, you'll see the four holes in the BOTTOM PLATE. (You should NOT see the raised Pem fittings - if you do the part is upside down!) Using Item 7 (M6x16 socket head cap screw, with flat and split ring

washers), attach the STRUTS to the underside of the BOTTOM PLATE. Photo below was taken looking upward between exhaust crossover and the taillight assembly, and shows the 4 socket screws in the underside of the STRUTS.

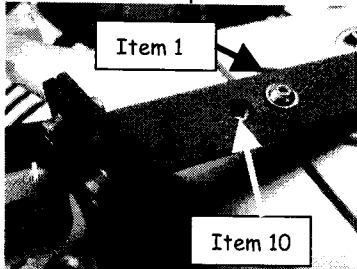


To make the job easier, fit the screws and washers onto the end of the T-handle hex wrench and use the wrench as an extension as you thread the screws into the holes. Once all four screws are loosely in place, check that the STRUTS are not in contact with the frame, exhaust or turn signals. Adjust as needed, then tighten the screws completely, being careful not to over-torque.

Step 13: Attach the YOKE between the top of the LEFT and RIGHT STRUTS, using Item 4 (M6x16 socket head screw). Place a medium washer under the head of the screw before you place it in the hole. Also place a washer under the nylon locknut. Do not tighten these screws <now> because they will be adjusted once the CARGOREST is in place, see Step 18. Photo shows left side of STRUT and YOKE with screws in place.



The outer screw holes in the top of the YOKE will accept Item 10 (M6x25 hex head cap screw) if a BACKREST is mounted. They'll also accept Item 1 (M5 Button Head Cap Screw), which attaches the CARGOREST to the YOKE. Photo below shows left side of YOKE, looking forward. Button head screws are shown for reference but are not to be inserted at this point!



Following photo shows right side of YOKE, looking forward.

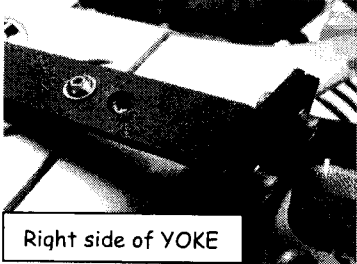
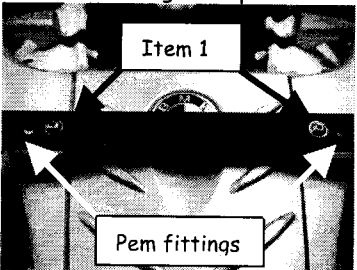
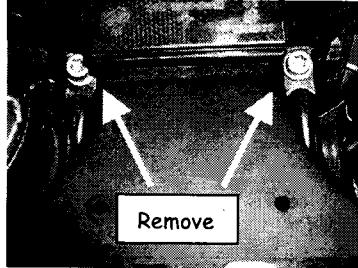


Photo below shows the four screw holes in the YOKE. The two outside holes are fitted with Pem fasteners and are used for mounting the BACKREST. The two inner non-threaded holes are for Item 1 (M5x16 button head cap screw) used to attach the CARGOREST to the YOKE. Photo taken looking forward, over the storage compartment.

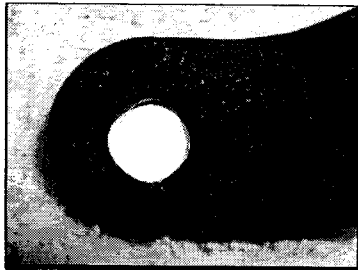


Step 14: Identify mounting points for the TAILPIECE.

which are the same points used to mount the panniers. Remove the screws holding the mounts to the frame, using the Torx wrench from your toolkit. Leave the mounts in place. Photo shows screws below and to the sides of the taillight.

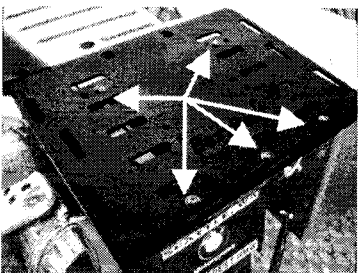


Step 15: Place Items 21 (M8x25 socket head cap screw with large washers) through the large holes in the TAILPIECE.



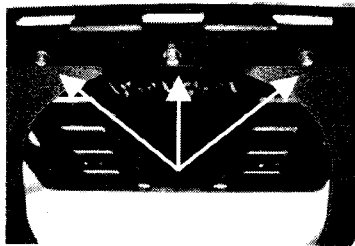
Place the TAILPIECE around the taillight assembly. The TAILPIECE will slant rearward, following the angle of the taillight assembly. Thread the bolts (Item 21) into the saddlebag mounting points and tighten securely using the M6 hex wrench.

Step 16: Place the CARGOREST over the top of the YOKE and TAILPIECE. The five assembly points (two in the YOKE and three in the TAILPIECE) should align.



Place small washers on Item 1 (M5x16 button head cap screws) and align the CARGOREST until you can insert all five screws into the holes in the assemblies below. On the underside of the screws, where they pass thru the YOKE and TAILPIECE, place another small washer and locknut. Tighten the locknuts with the 8/10 wrench; hold the hex heads from turning using the 3mm hex wrench. If you turn the hex wrench while holding the nuts you may strip the hex screw heads.

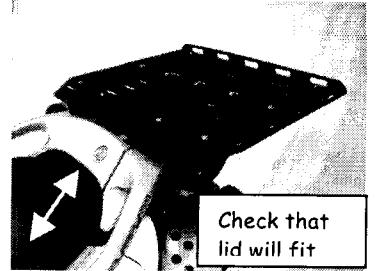
Photo below shows the rear of the TAILPIECE where it attaches to the CARGOREST. Photo perspective is looking forward and up. We did not illustrate the two screws or nuts at the front of the CARGOREST, where they attach to the YOKE. Parts are not attached to motorcycle in this photo.



Step 17: If you intend to mount a BACKREST on your CARGOREST, make sure the 6mm Pem threads in the YOKE are aligned with the holes in the CARGOREST. Adjust the CARGOREST over the YOKE as needed.

Step 18: Check rear storage compartment lid clearance. Insert and remove the lid and adjust the vertical position of the YOKE in relation to the STRUTS to achieve proper clearance. Note that the slots

in the YOKE allow you to raise or lower the front of the CARGOREST as needed. Once you're sure you can easily remove and install the lid, tighten all four screws that hold the YOKE to the LEFT & RIGHT STRUTS.



Step 19: Check all your work for proper fit and alignment, then fully tighten all screws, nuts, and bolts. Installation is complete!

Step 20: Load your CargoRest with your favorite traveling gear and go for a RIDE!

Yes, you can mount the BackRest on the rear of the F650GS! Photo shows the BackRest mounted on an R1100GS, but the mechanism is the same for the F650GS. The F650GS BackRest is only available for passenger use at this time.



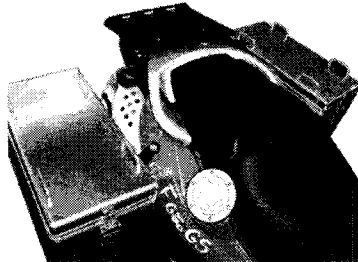
Model C CargoRest



Model C CargoRest with Touratech panniers.



Model C CargoRest with Touratech panniers.



Model J CargoRest



Caring for your CargoRest:

The finish on the CargoRest is a UV resistant powder coat polyester paint. Wash with a mild auto detergent and water. Touchup of minor blemishes may be done with black marker pen or black high quality automotive enamel. Do not use abrasives, solvents, or harsh chemicals when washing or cleaning. Do not use paste wax or other coatings that leave a whitish residue when they dry. We recommend 'Mother's Back-To-Black' or 'Protect-All' brand products to keep your CargoRest looking new.

Structural Rails (Angles):

Models J & T CargoRests have aluminum structural rails (angles) mounted on the underside of the CargoRest deck. Do not remove these rails or the load carrying capacity will be adversely affected.

Cargo Loading Notes:

Your CargoRest is designed to handle large, bulky loads. We've successfully tested the CargoRest under the most extreme conditions with very heavy loads. However, because the CargoRest fits over the stock BMW rack and frame, we must honor BMW's maximum rear cargo rack load capacity of 12 pounds (5.5 kg.).

Refer to your BMW owner's manual for specific load recommendations.

Loading the CargoRest beyond recommendations may void the manufacturer's warranty, may result in handling problems, and may present rider or passenger safety issues.

Safety & Legal Notices:

Do not proceed with product installation unless you are qualified to complete the installation in a safe fashion and as described herein. Do not use these products unless you have read all instructions and understand how these products work and what limitations, if any, they may have.

It is the responsibility of the Consumer to evaluate the suitability of these products for personal use. Consumers must evaluate whether these products meet their needs and whether these products can be mounted and used in a safe

fashion. The Consumer accepts full and complete responsibility for selection of products and for mounting and maintenance of these products. The Consumer agrees to follow and abide by any and all instructions, warnings, recommendations, or other information supplied or published by BestRest Products, LLC.

It is the Consumer's responsibility to inspect all screws, fasteners and fittings on a daily basis, tighten or replace them as necessary, and to regularly inspect the entire BestRest CargoRest and mounting hardware for signs of missing parts, excessive wear, metal fatigue, or imminent failure. Should any of these be observed the assembly should be removed from the motorcycle and not used until inspected and repaired by BestRest.

BestRest Products, LLC, its employees, agents, and owners assume no liability whatsoever for property damage, personal injury or other losses resulting from the Purchaser's failure to properly maintain the products, for unauthorized modifications of any kind, for use of unauthorized parts (including bushings, screws, pins, or other fasteners), or for use of any BestRest Product in a fashion not intended by BestRest or described as a suggested application in BestRest literature.

Because installation of these products is done by others outside our control, we cannot assume any liability or responsibility whatsoever for improper or unsafe installation

or otherwise contrary to published instructions, for products that are improperly secured or maintained, that are improperly tightened or otherwise secured, or which are otherwise improperly fitted to the motorcycle.

Authorized Repairs and Parts:

Only authorized, and approved replacement parts, assemblies, nuts, washers, screws, fasteners or fittings may be used when mounting, installing, or repairing any BestRest Product. Authorized replacement parts may be purchased only from BestRest Products. Parts from other sources or vendors are not covered under warranty and will void any Consumer claims against BestRest or others. Any use, modifications, or applications of any BestRest Product, other than those authorized by us in writing, are specifically prohibited.

For full legal disclosures and a description of our warranty, please refer to our website:

[www.bestrestproducts.com](http://www.bestrestproducts.com)

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# F650GS CargoRest Mounting Bracket Parts List

Please inspect the contents of your parts package and report any shortages to BestRest Products. We've taken great care to check every package for the proper quantities, but occasionally we make mistakes. If we missed any items we'll gladly send it to you free of charge, via US mail.

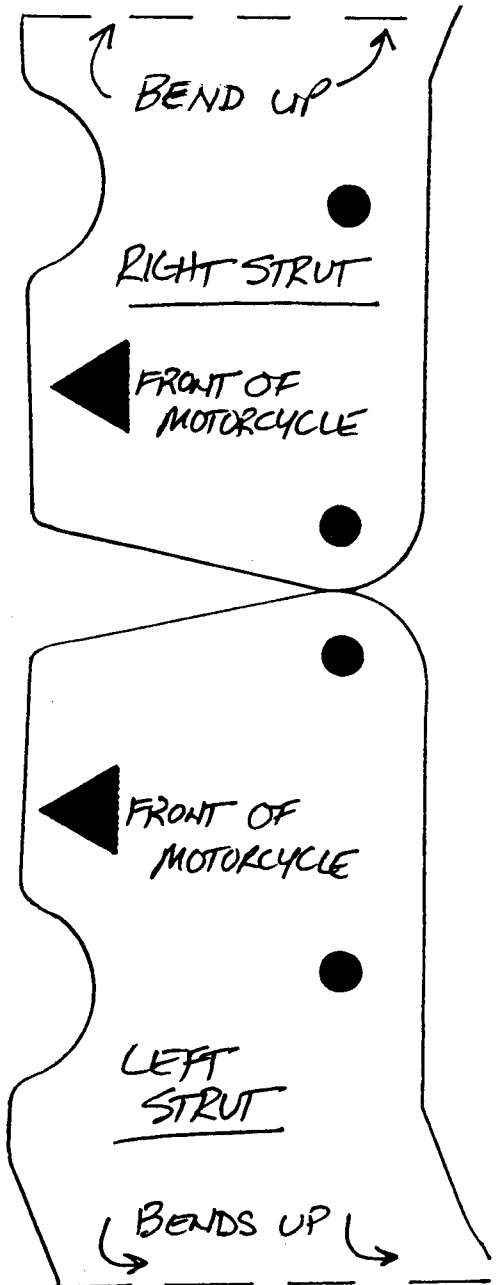
If you drop or lose any parts you can purchase replacements for a small fee.

Item	Qty	Description	Application or Comments
A	1	LEFT STRUT	Fits on left side of frame, mounts to BOTTOM PLATE, attaches to YOKE, crescent cutout toward front, small holes toward rear
B	1	RIGHT STRUT	Fits on right side of frame, mounts to BOTTOM PLATE, attaches to YOKE, crescent cutout toward front, small holes toward rear
C	1	YOKE	Connects LEFT STRUT to RIGHT STRUT, attaches to front of CARGOREST, has threaded holes for future attachment of BACKREST
D	1	BOTTOM PLATE	Mounts beneath frame and acts as lower attachment point for LEFT STRUT and RIGHT STRUT, ears go toward front, raised fittings go up
E	1	TAILPIECE	Mounts to frame at left and right of taillight assembly, attaches to rear of CARGOREST, slants toward rear
F	1	CARGOREST	Model C, Model J, or Model T, depending on model ordered; mounting brackets and hardware are identical

Item	Qty	Description	Application or Comments
1	5	M5x16 button head cap screw	Connects CARGOREST to YOKE and TAILPIECE
2	5	M5 nylon lock nut	Fits on bottom of Item 1
3	10	#10 flat washer (small)	Fits on top and bottom of item 1

Item	Qty	Description	Application or Comments
4	4	M6x16 socket head cap screw	Connects YOKE to left and right STRUTS
5	4	M6 nylon lock nut	Fits on bottom of item 4
6	8	#12 flat washer (medium)	Fits on bottom of Item 4

Item	Qty	Description	Application or Comments
7	4	M6x16 socket head cap screw	Connects left and right STRUTS to BOTTOM PLATE
8	4	#12 flat washer (medium)	Fits on Item 7
9	4	1/4" split ring locking washers	Fits on item 7



<u>Item</u>	<u>Qty</u>	<u>Description</u>	<u>Application or Comments</u>
10	2	M6x25 socket head cap screw	Connects BACKREST to CARGOREST, if Backrest is mounted
11	2	#12 flat washer (medium)	Fits beneath head of Item 10
12	2	M6 nylon lock nuts	Fits on end of Item 10, added security against screw coming loose
13	2	1/4" split ring locking washers	Fits beneath head of Item 10



<u>Item</u>	<u>Qty</u>	<u>Description</u>	<u>Application or Comments</u>
14	2	M6x45 hex head machine bolt	Connects <rear> of BOTTOM PLATE to motorcycle frame
15	4	#12 flat washer (medium)	Fits on Item 14, one beneath head of bolt, one at end of bolt
16	2	1/4" split ring locking washers	Fits on Item 14, between flat washer and lock nut
17	2	M6 nylon lock nut	Fits on lower end of Item 14



<u>Item</u>	<u>Qty</u>	<u>Description</u>	<u>Application or Comments</u>
18	2	M6x25 socket head cap screw	Connects <front> of BOTTOM PLATE to motorcycle frame
19	4	#12 flat washer (medium)	Fits beneath head of Item 17
20	2	M6 nylon lock nut	Fits on <upper end> of Item 17, where it projects above frame



<u>Item</u>	<u>Qty</u>	<u>Description</u>	<u>Application or Comments</u>
21	2	M8x25 socket head cap screw	Connects TAILPIECE to frame at rear, on sides of taillight assembly
22	2	5/16 flat washer (large)	Fits on Item 20



<u>Item</u>	<u>Qty</u>	<u>Description</u>	<u>Application or Comments</u>
23	1	3mm hex wrench, short arm	For 5mm button cap screws, Item 1
24	1	5mm hex wrench, T handle	For 6mm socket cap screws, Items 4, 7, 10, 14, 17, 20
25	1	6mm hex wrench, short arm	For M8 socket cap screws, Item 24

