

2013-2018 Kawasaki Ninja ZX-6R 636

Full LED Projection Head Light

Quick Install Guide

For full step-by-step comprehensive installation guide please visit our YouTube channel:

www.youtube.com/motodynamic

or by visiting this link:

https://youtu.be/vIIAqjdVI_M

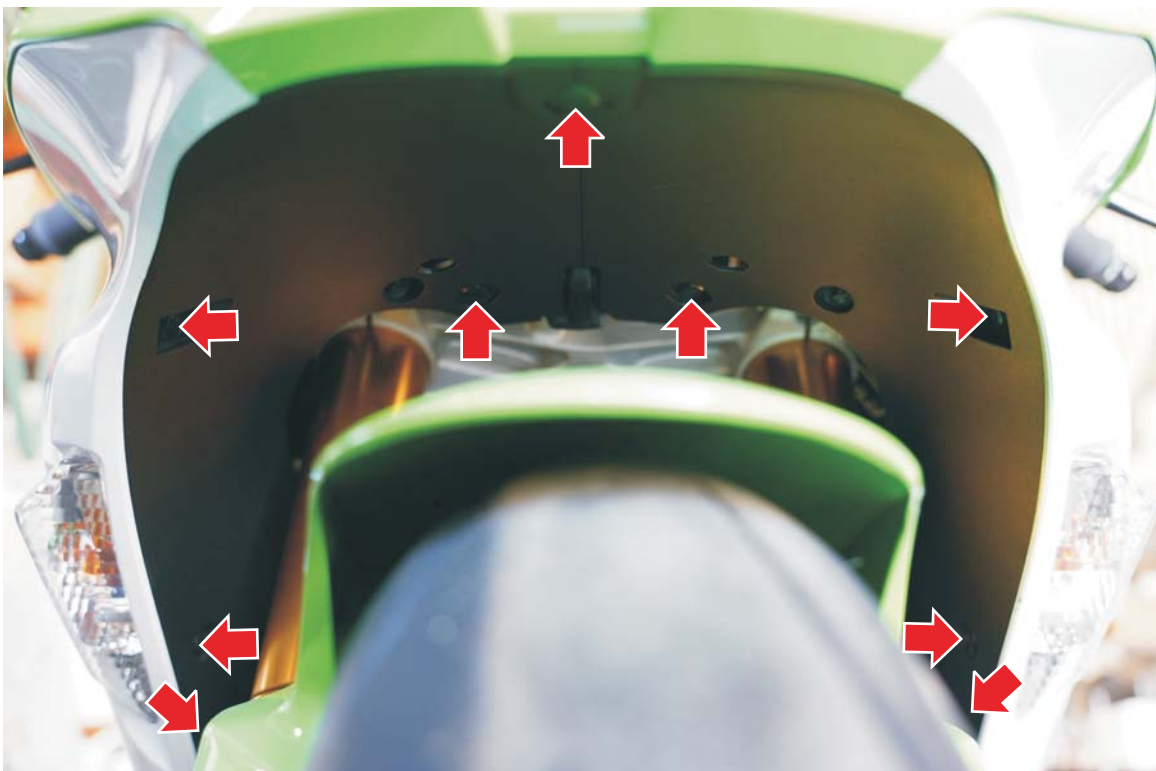
Parts List:

x1 LED projection head light assembly
x1 sub-harness
x8 cable ties

Tools used for this installation:

4mm allen (hex) tool
Standard flathead screwdriver
Small/thin flathead screwdriver
10mm socket and ratchet
Stubby Philips screwdriver
Needle nose pliers (optional)

1. Loosen, but do not fully remove the wheel well under panel (9 plastic fasteners). 1 fastener at the forward most center is different, the remaining fasteners are the same.



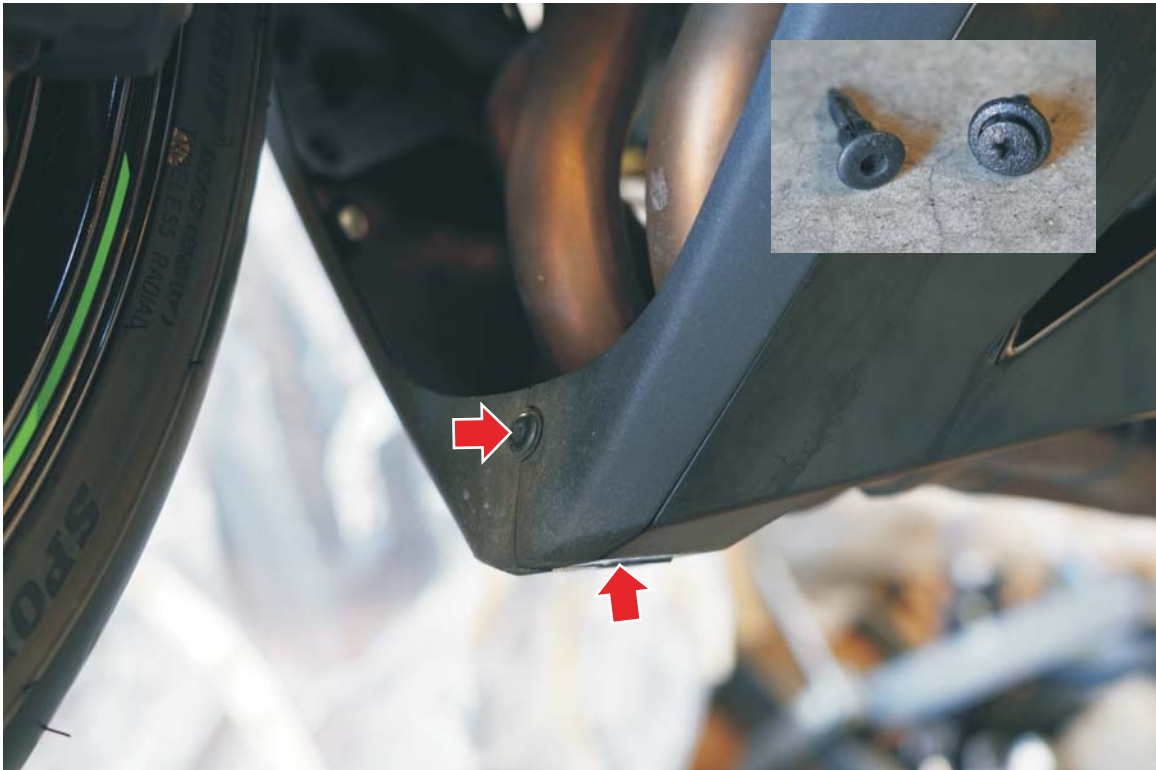
Step 1 continued - 1 plastic fastener in the forward middle position is different



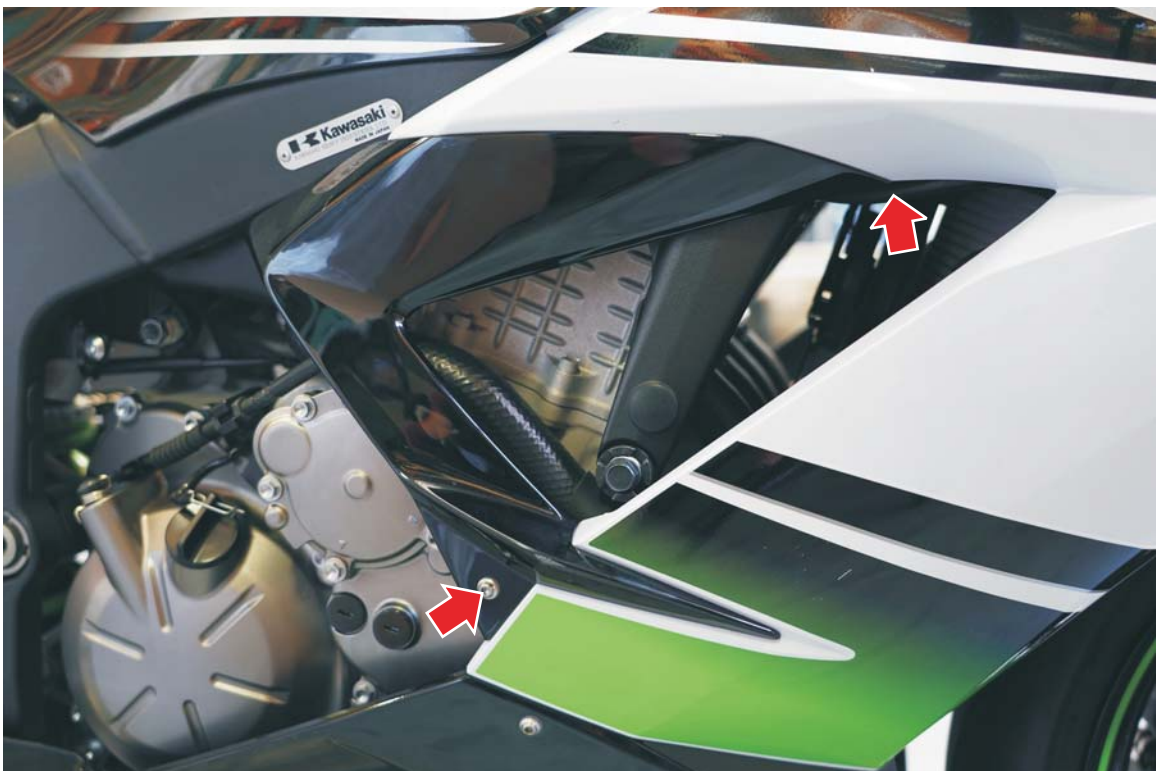
Step 1 continued - pop loose the wheel well under panel but do not remove



2. Separate the lower left and right side fairings (2 plastic fasteners on the central lower where the lower fairings meet - front is the push type and lower is the screw type requiring stubby Philips screwdriver)



3. Remove painted side fairing cover (1 bolt using 4mm allen tool and 1 plastic fastener), carefully pull up on the inner lip to release the locking clip, then pull out the friction fastener at the rear and slide rearwards to remove. At the front there is 1 slide tab and 2 snap tabs. Repeat other side.



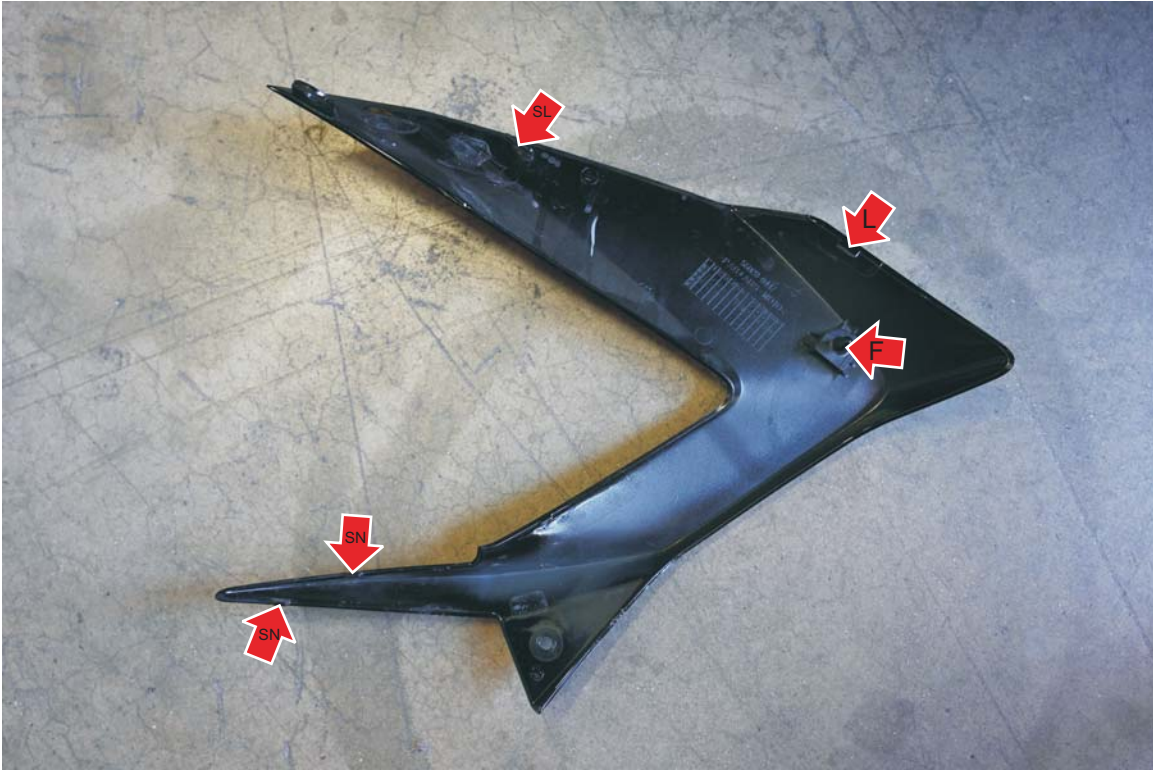
Step 3 continued - 1 plastic fastener from inside underneath



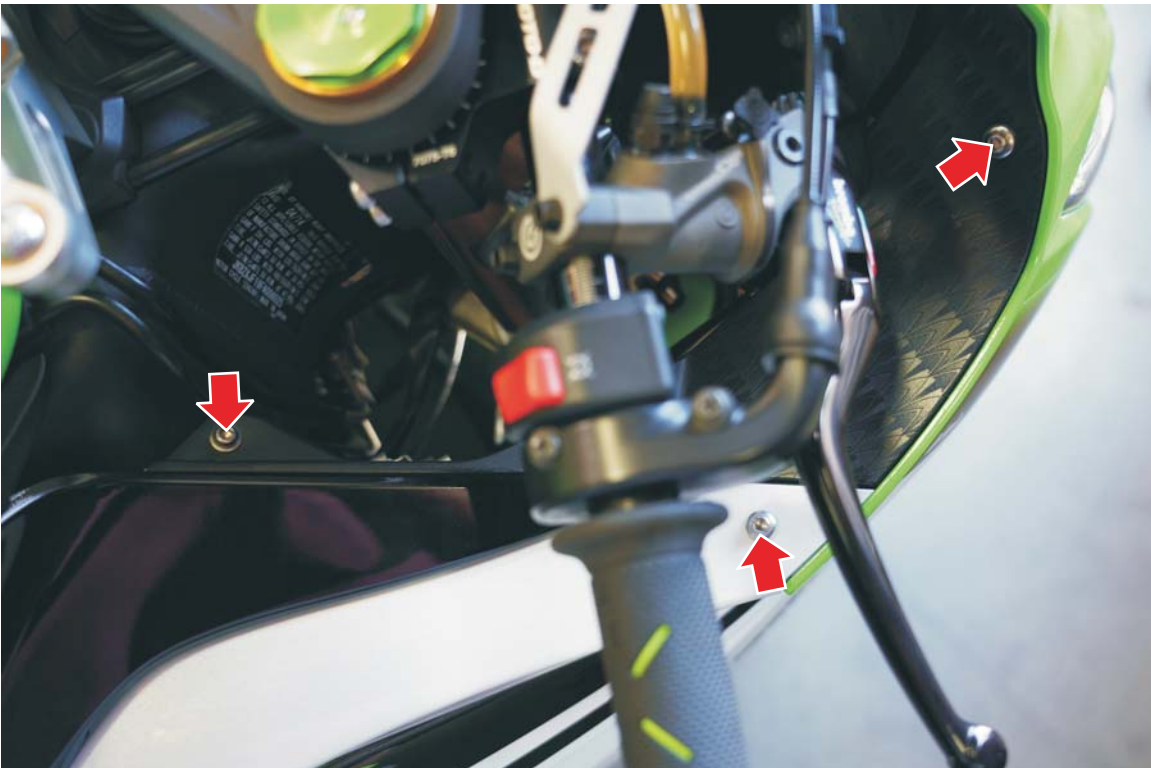
Step 3 continued - note that the bolt has plastic washer



Step 3 continued - 1 friction fastener (F), 1 locking tab (L), 1 slide tab (SL) and 2 snap tabs (SN)



4. Remove side fairing upper panel (painted) (3 bolts under the handlebar using 4mm allen tool - 2 forward bolts have plastic washers), unclip the locking tab at the rear, pull outward to undo the 2 friction fasteners, multiple velcro-like fasteners, then slide forward to fully release from the 2 slide tabs at the front. Repeat other side



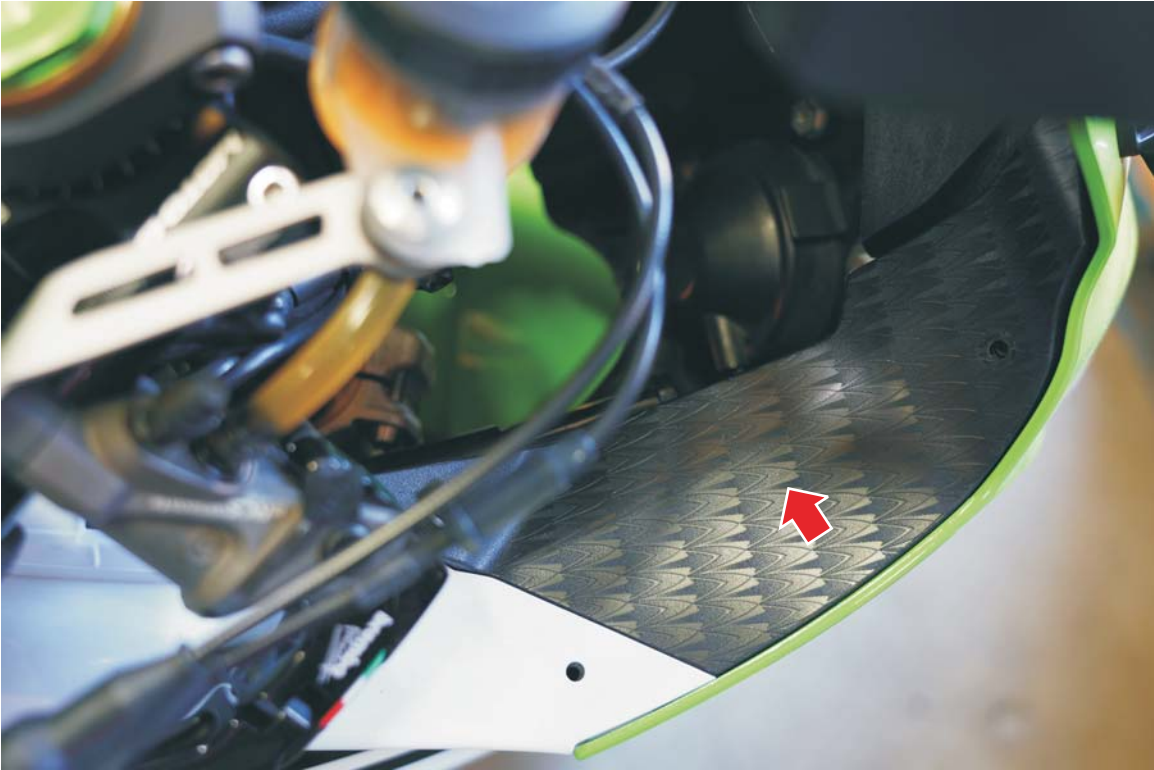
Step 4 continued - locking tab at the rear



Step 4 continued - 1 locking tab (L), 2 friction fasteners (F), 4 velcro-like fasteners (V), and 2 slide tabs (S)



5. Remove black plastic inner panel below handle bar (dislodge and maneuver to fully remove), repeat other side



Step 5 continued



6. On left side of bike next to rectifier, unclip the fuse box from the mount and move it out of the way.



7. Unplug the rectifier (grey and black plugs)



8. Remove side mirrors (4 bolts using 4mm allen)



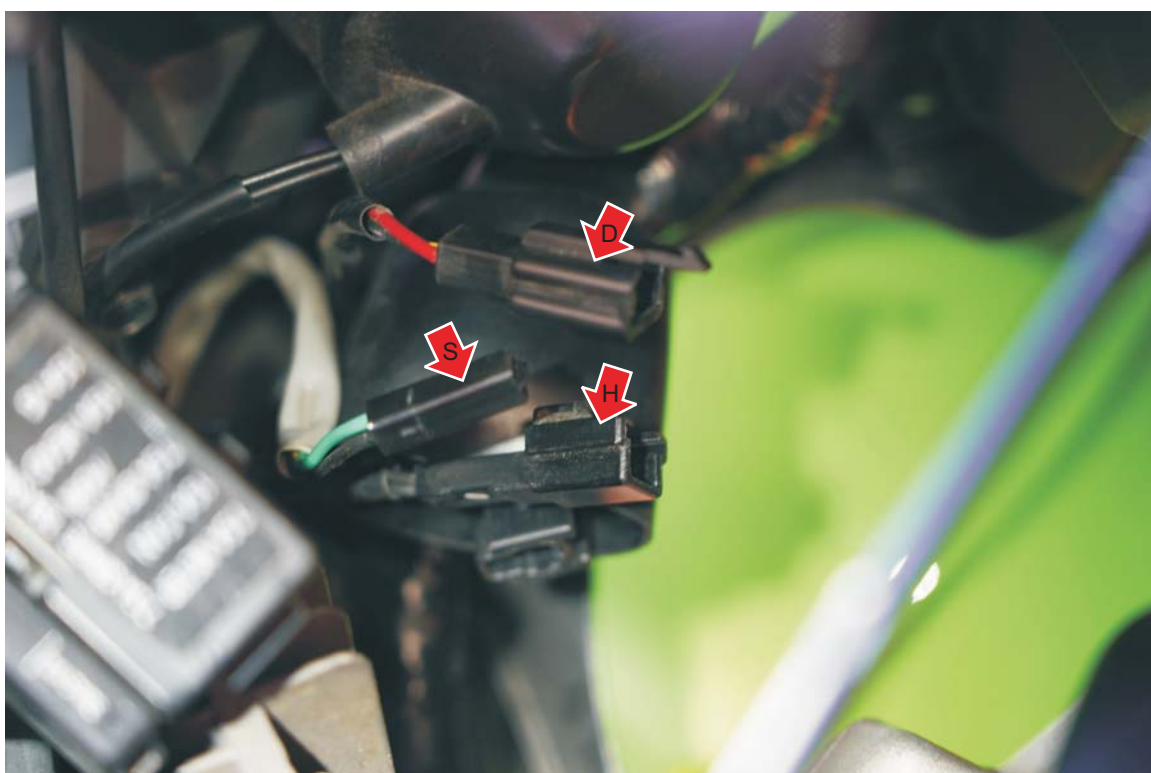
9. Loosen the side fairing assembly (1 bolt on the each side towards the rear using 4mm allen tool). Note that this bolt has a plastic washer



10. Locate the rubber boot next the rectifier on the left side under handle bar, undo the cable management clip, pull the boot back and unplug the left turn signal, left DRL, and high beam plug.



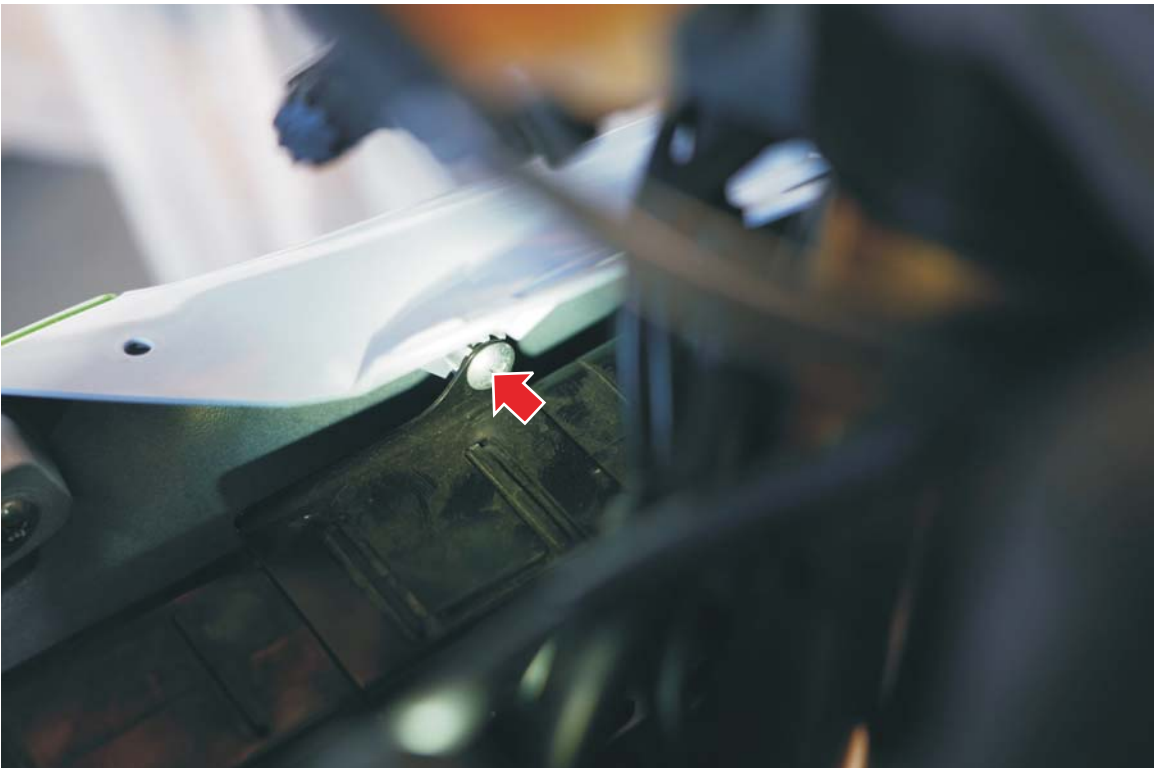
Step 10 continued - DRL plug (D), left turn signal plug (S), and high beam plug (H)



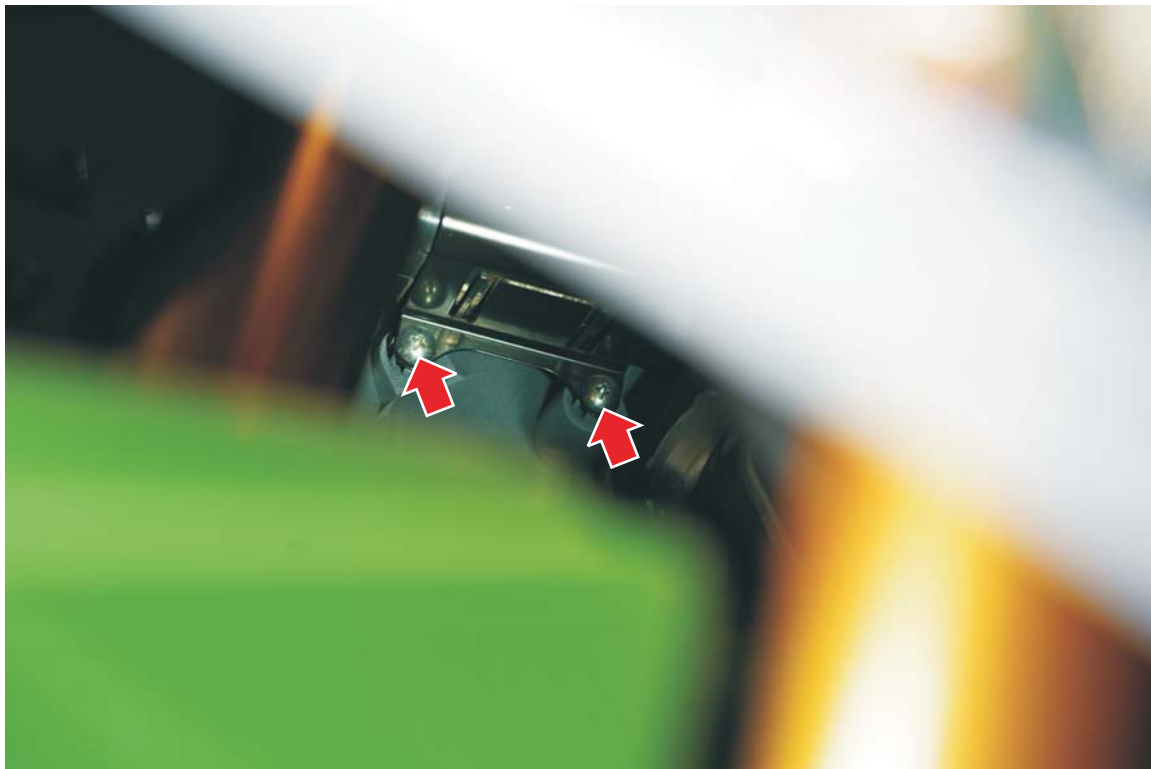
11. Locate the opposite side rubber boot on the right side and repeat the same process to unplug the right turn signal, right DRL and low beam plug



12. Unbolt charcoal canister bracket on inside of right side fairing (1 screw on top using a stubby Philips screwdriver and 2 on the bottom using a standard Philips screwdriver). The canister and bracket will remain loose, make sure to position it as close as you can to the chassis and out of the way for fairing removal at next steps.



Step 12 continued - 2 screws at the bottom using a standard Philips screwdriver, reach in from underneath the right side wheel well (turn handlebar to allow room for screwdriver).



13. Continue loosening side fairing assembly (1 bolt on the rear lower fairing using 4mm allen tool), repeat other side. Unclip the drain tube from the underside of the right side fairing.



Step 13 continued - Unclip the drain tube (under right side fairing)



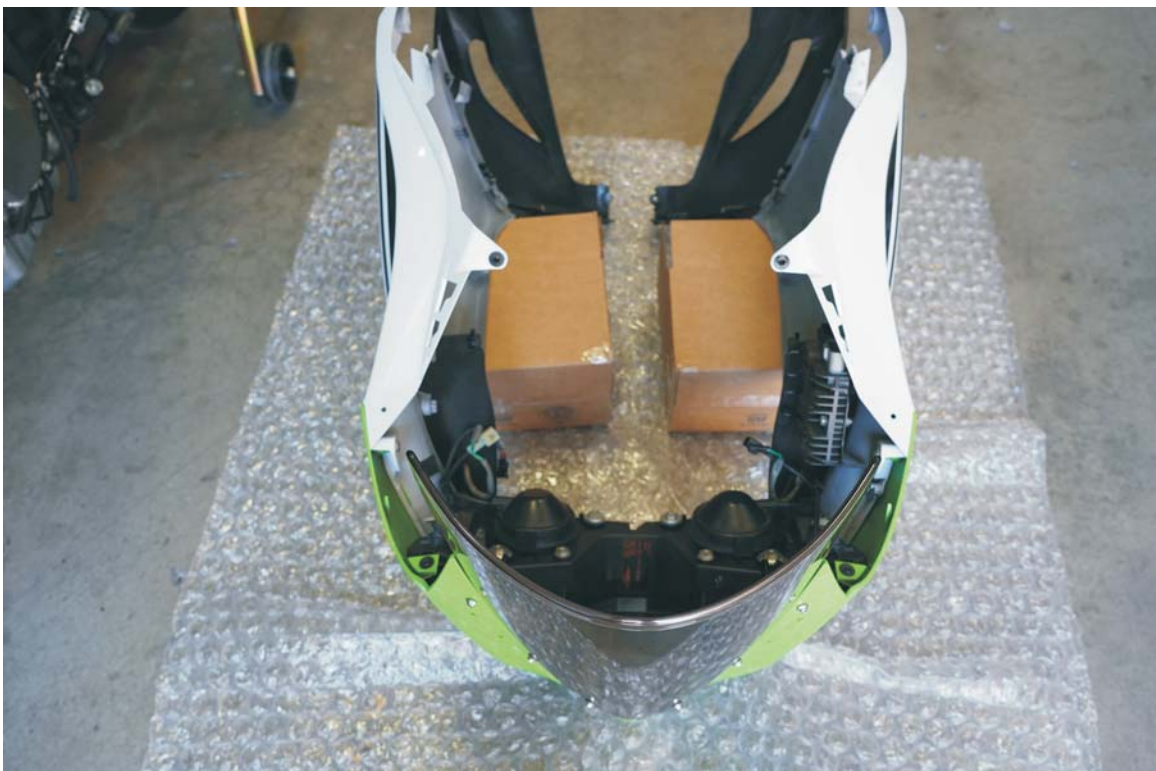
14. Prepare a large towel and 2 boxes. Final loosening of side fairing assembly (2 bolts above the headlight on the upper stay bracket using 10mm socket), support fairing/headlight assembly on last bolt. Full removal is now possible.



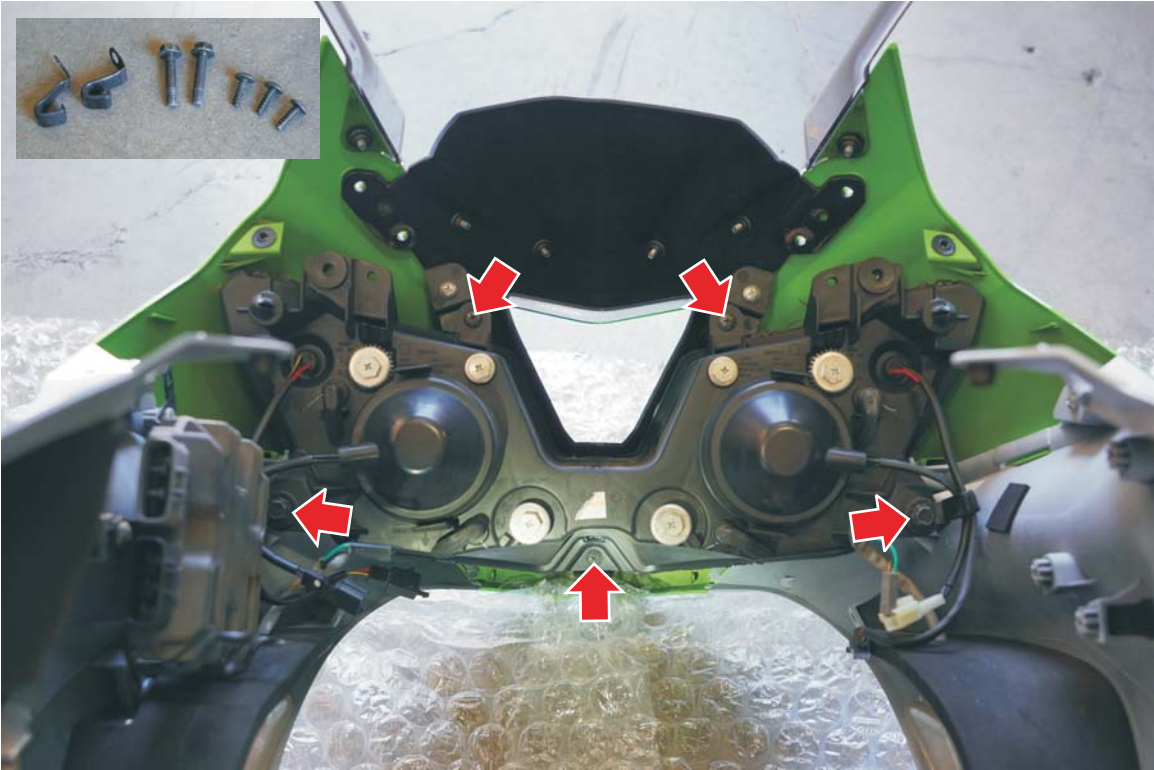
15. Set down towels/boxes, etc on the floor to prepare for fairing assembly placement. Gently flex the rear end of fairings outwards to clear the frame then carefully pull the entire headlight/fairing assembly forward to release from bike.



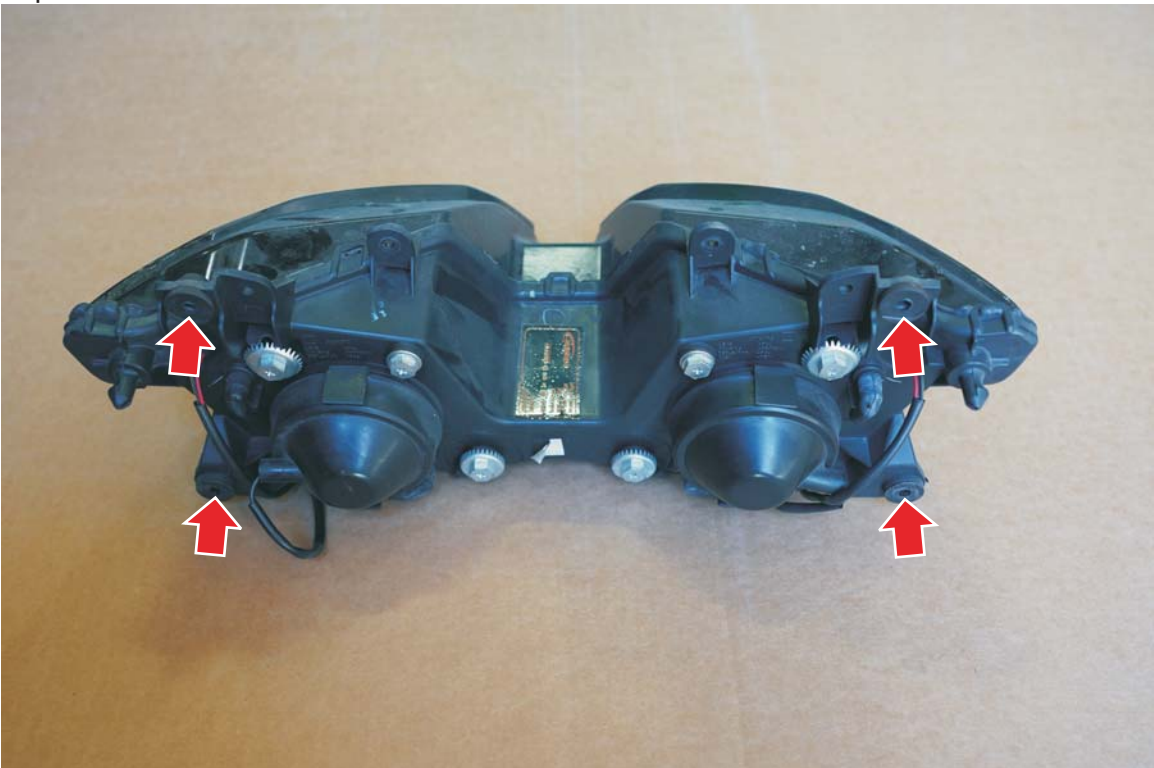
Step 15 continued - carefully set the front fairing assembly down using towels, boxes, etc to help prop it up



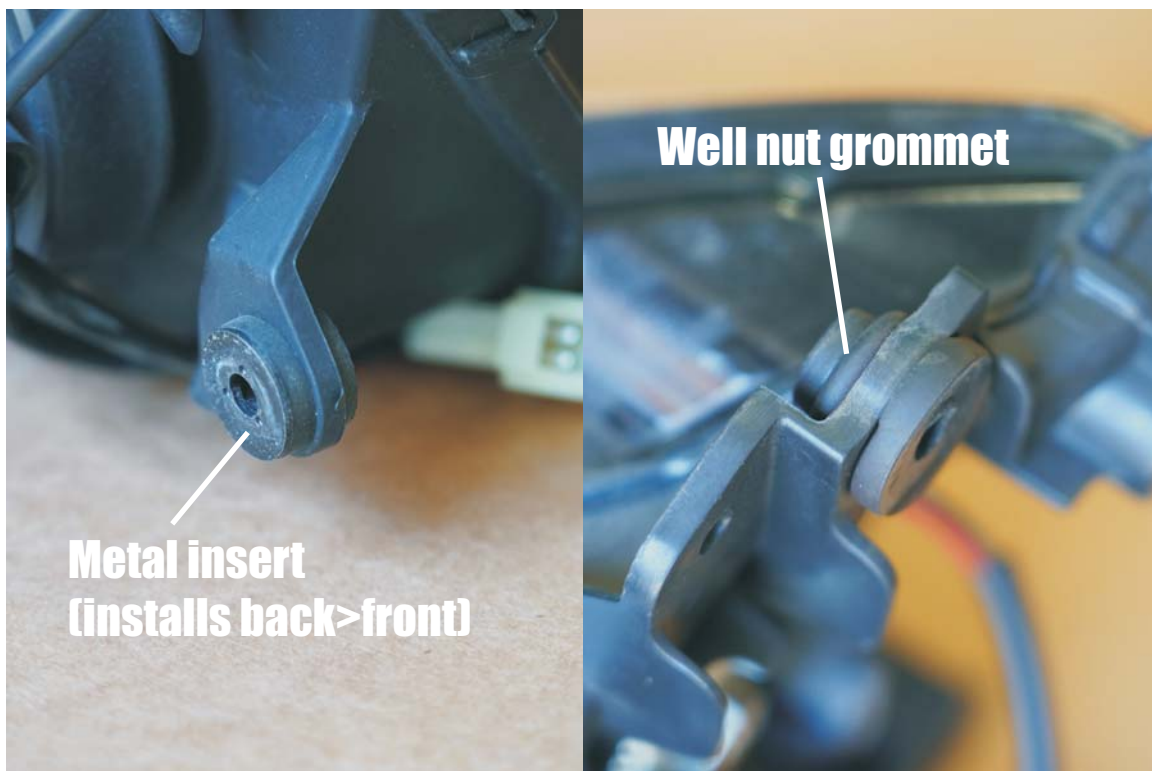
16. Remove head light from the fairing assembly (3 Philips screw, two at the top and 1 at the bottom, followed by 2 bolts on the left and right sides using a 10mm socket, retain the cable management clamps for reuse later.)



17. Grab the head light assembly and remove the 4 rubber grommets and swap it over to the new LED head light. The lower 2 has a metal insert which needs to be removed first, it is inserted from rear to front. The upper 2 uses well nuts, we found it difficult to remove/reinstall without tools. Use a screwdriver to push/squeeze it out, for reinstall use a needlenose plier and screwdriver to fold/bend the grommet then insert and squeeze back in.



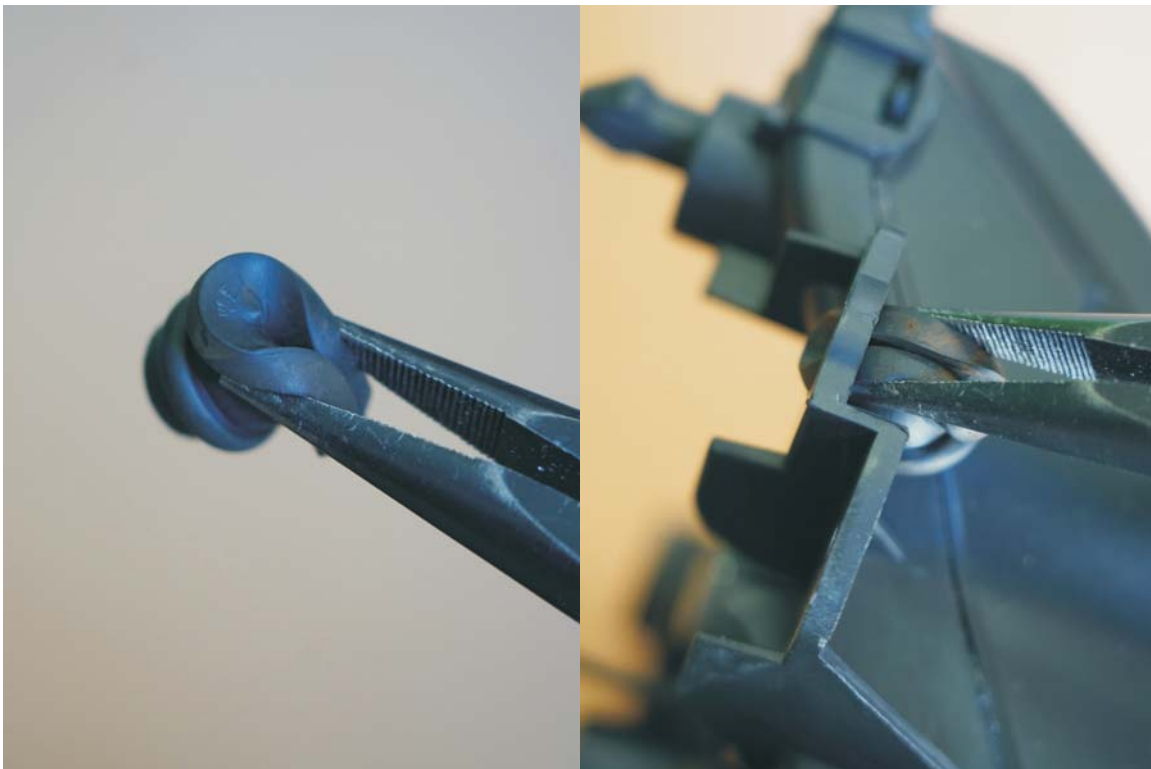
Step 17 continued



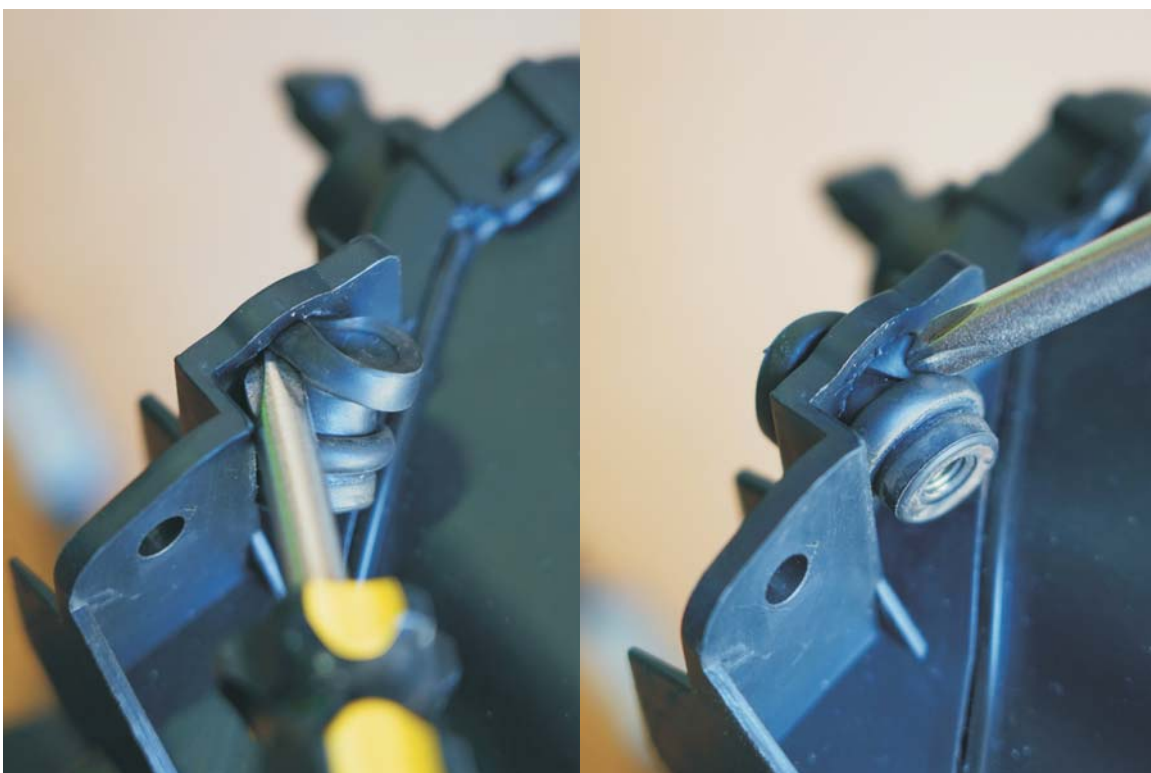
Step 17 continued



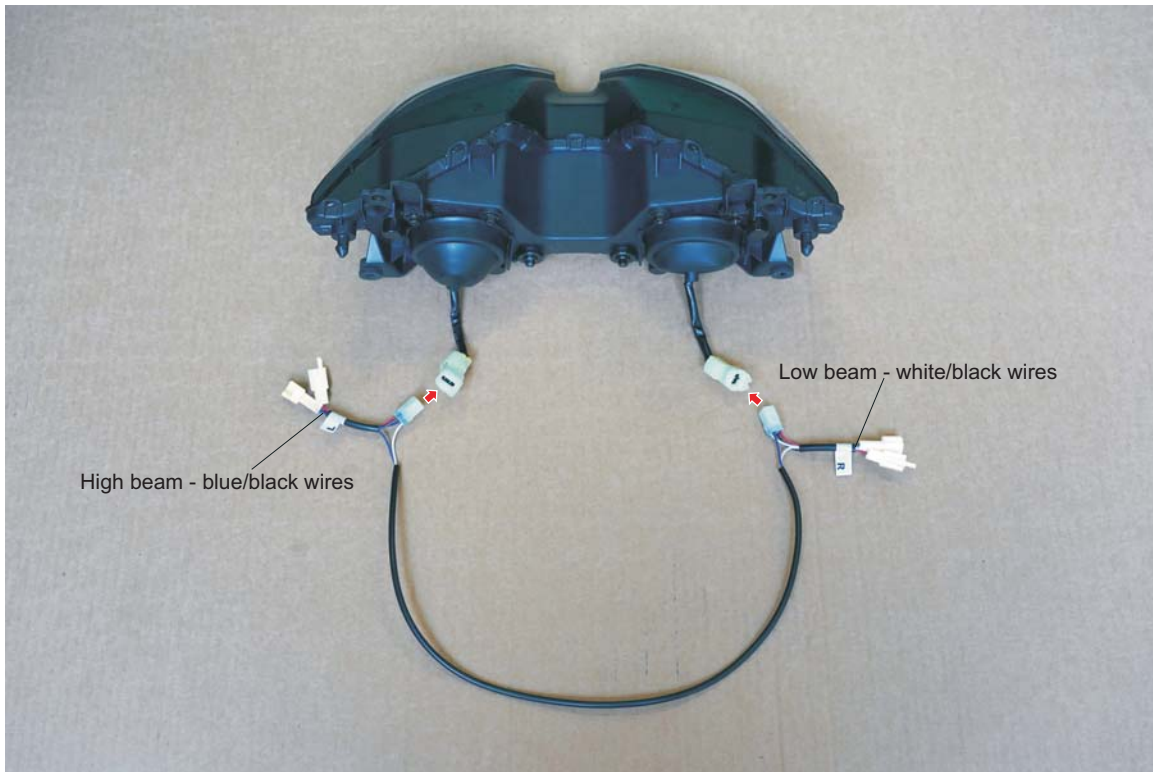
Step 17 continued



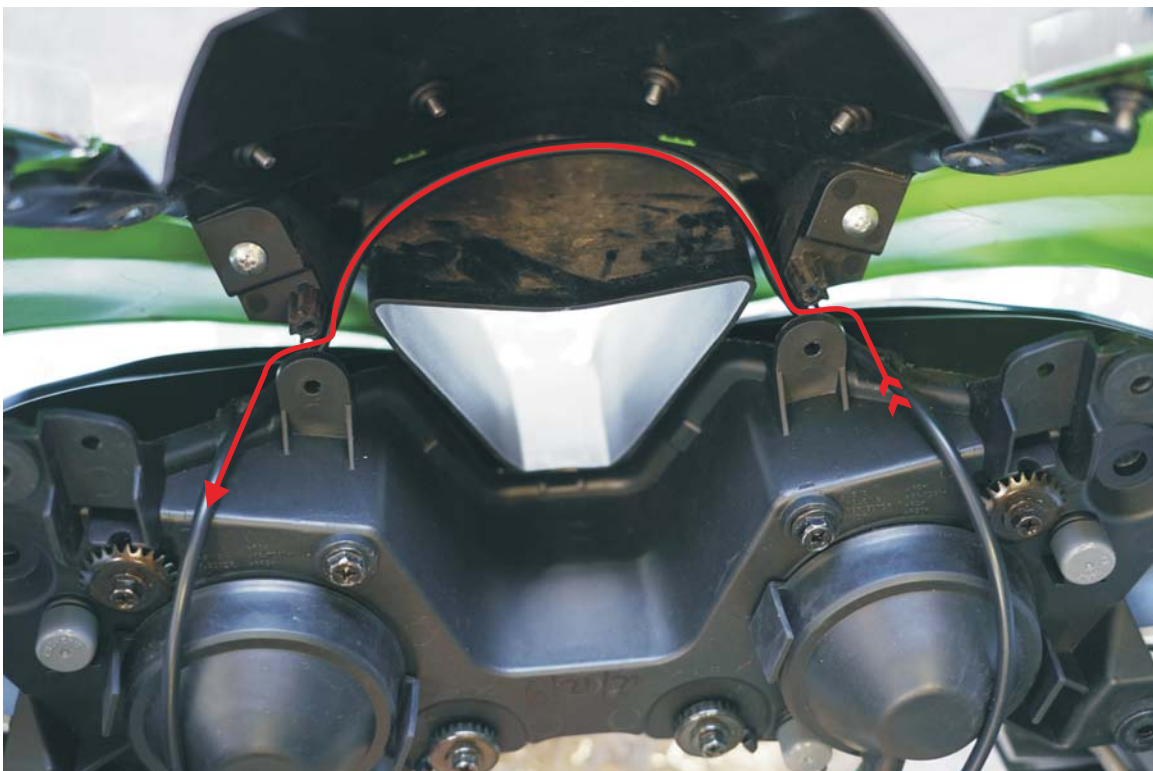
Step 17 continued



18. Connecting the subharness. Connect Left side harness (clutch side) to the main 4 pin connector coming off the left side head light. Connect the right side (brake lever side) to the main 4 pin harness connector coming off the right side head light.



19. Reinstall head light back into fairing using the factory hardware, make sure to route the cross-over cable underneath the 2 upper mounting screw points before placing the screws to tighten. Reinstall the 2 bolts on the side of the head light alongside the cable management clamps. Use the included cables ties from our kit and factory cable management clamp to secure any loose wires.



Step 19 continued - cable tie crossover cable to holes next to well nuts.

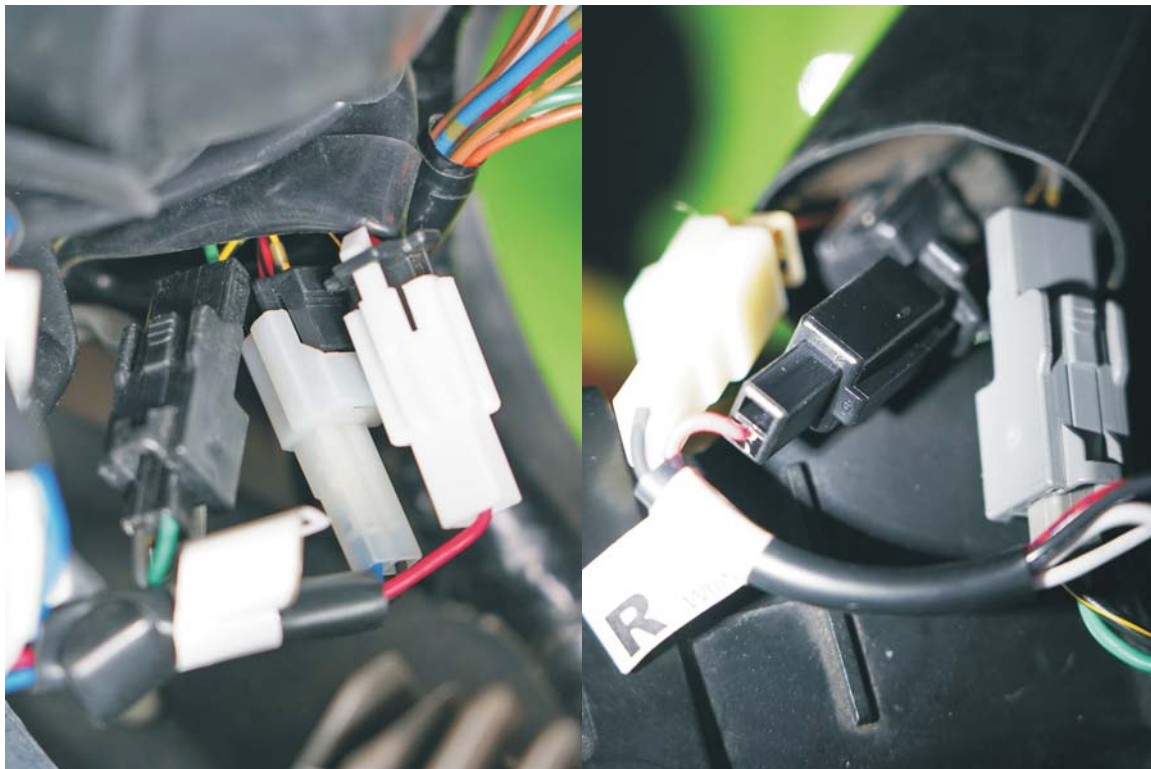


20. Reinstallation of the head light/fairing assembly back onto the bike. Prepare the 2 bolts from step 14 and keep it within close reachable vicinity. Check to make sure the fuse box and charcoal canister are positioned tight to center of the bike so that it does not interfere with the reinstallation. Carefully position the assembly back onto the bike, gently flexing the rearward of the fairing to clear the frame. Align the 2 holes on the back of the head light to the 2 holes in the upper stay bracket, then insert the 2 bolts to tighten.

21. Re-position the drain tube on the backside of the right side fairing, then secure the rear end of the fairing assembly using the 2 bolts removed from step 13, to help balance out the load from the weight of the fairing.

Optional*Install Intelliflash here see video on our youtube channel [skip to 39:36] otherwise continue with step 22. Depending on your front/rear turn signal setup, a flasher relay may be required for Intelliflash to flash at the correct speed. We recommend upgrading your flasher relay in most scenarios.**

22. Connect the Left side harness to the bike. Bike side: High beam plug (black), Left DRL plug (black), and Left turn signal plug (black). Connect the Right side harness to the bike. Bike side: Low beam plug (white), Right DRL plug (black) and Right turn signal plug (grey). Slide over the rubber boot to protect the wires.



23. Re-connect the 2 plugs on the rectifier. At this time turn on the ignition to test the DRL lights, then start the engine to test the low beams, test the high beams by hitting the high beam switch.

24. Reinstall everything in reverse order. Remount charcoal canister, fuse box, side mirrors, black plastic panels under handle bar, side fairing upper panels, side fairings lower painted panel, lower fasteners to joint the bottom fairings together, and lastly the wheel well panel.

Beam level adjustments

Left: Clockwise
Right: Counter clockwise

Left: Counter clockwise
Right: Clockwise



Up: Counter clockwise
Down: Clockwise