

1997 UP XP STEERING SYSTEM INSTRUCTIONS

REQUIRED TOOLS:

3mm allen wrench
5mm allen wrench
6mm allen wrench
side cutters
phillips screwdriver
10mm socket
7/32 socket
masking tape
1/4" & 3/8" drill bit

razor knife
pliers
10mm wrench
13mm wrench
13mm socket
7/16 wrench
ratchet
drill
center punch

Read all the instructions before beginning the installation

1. Lift hood. Do not remove the storage tray. It will catch any hardware that you may drop.
2. Lift lid on storage compartment and remove the bucket. Cut the zip ties that hold the wire connectors together. Disconnect all wires at the terminals. **Note: the wires are all color-coded.** Remove the six 6mm bolts and four 5mm bolts that hold the cowling cover in place. Be careful as you remove the last bolt that the cowling does not fall on the ground. Remove the cowling.
3. Remove the grips from the handlebars by removing the 10mm bolts from the end of the grips.
4. Loosen the 3mm set screws at the bottom of the throttle housing and VTS housing. Slide both housings about a 1/2 inch away from the handlebar pad to expose the Phillips screws. Remove both Phillips screws.
5. Remove the clip that holds the throttle cable into the throttle housing. Remove the cable end from the throttle lever. Remove the throttle housing from the handlebar.
6. Remove the Phillips screw that holds the switches into the start/stop-VTS housing and remove the switches from the housing. **Note: the red switch is the start/stop, the black is the up switch and the white is the down switch.**
7. Remove the four 7/32 head screws from the handlebar pad and separate the top and bottom pad pieces.
8. Remove the lanyard attachment switch from the bottom pad section by loosening the cover nut. Loosen and remove the nut from the back of the choke cable. Make a cut in the bar pad to remove the cable from the pad.
9. Pull the throttle cable, start/stop switch and VTS wires, in that order, down through the center of the steering head.
10. Locate the wire end of the lanyard attachment switch. Using the UMI terminal detent tool remove the wires from the terminal connector and pull the wires up through the center of the steering shaft.

11. Unclip the overheat buzzer from the handle bar bracket and pull the wires through the center of the steering shaft.
12. Feed the choke cable through the center of the steering head.
13. Remove the steering cable end from the steering arm of the stock steering system with a 10mm wrench.
14. Remove the stock steering system from the good by removing the four 13mm bolts. You will use the stock bolts to hold the new steering to the hood.

You are now ready to begin to install the new steering system. Be sure to read all of the following instructions carefully before beginning the rest of the installation.

15. Locate template for intermediate bearing housing. Using a razor blade or exacto knife cut out the holes in the template. Trim along the dotted lines with scissors. Use the four steering system mounting holes to locate the template on to the hood. Tape the template flat to the hood so it follows the contour of the hood exactly. **Before you drill any holes double check that the four holes line up and that the paper template is flat against the contour of the hood.**
16. You now need to drill the three holes in the hood to mount the intermediate bearing housing. It is a good idea to use a center punch to assure that the drill bit does not drift. Start with a 1/4" drill bit and drill all three holes then go back and drill them with a 3/8". **The location of the intermediate bearing housing is critical so take your time and make sure you drill the holes exactly as the template shows.**
17. Locate the intermediate bearing housing. Using three of the m8x25 hex head bolts along with three m8x15 washers and the mount plate. Secure the bearing housing to the hood with the bolts coming from the bottom of the good. The support bracket goes on the underside of the hood.
18. Connect steering cable to the lower arm on the intermediate bearing housing using the stock bolt and nylock nut. **Note: the nylock nut is held in the stock steering system.**
19. Locate main bearing housing and steering head. Apply a thin layer of waterproof grease onto the O-ring on the steering head and on the top bearing of the bearing housing. Slide Steering head shaft through bearings and secure with the m10 fender washer and m10 nylock nut. Note: Only tighten the m10 nut enough to remove any up and down play in the bearing housing.
20. Secure bearing housing and steering head to the hood using the stock hardware that held the original unit in place.
21. Locate the connection rod with the cable ends. Secure one end to the arm on the steering head and the other end to the top arm on the intermediate bearing housing using the two 1/4x28 nylock nuts.
22. Attach the lanyard connection switch to the stainless bracket on the bottom of the bearing housing using the round nut that secured it in the stock system. Re-attach the wire connector ends and plug back into the color-coded end.

23. Secure the choke cable to the stainless steel bracket on the bottom of the bearing housing using the stock plastic nut. Slide the excess cable back down into the engine compartment through the rubber boot at the hood hinge.
24. Secure the handlebars to the steering head using the two handlebar clamps with four m8x25 bolts and m8 washers. At this point you can attach the handlebar accessories (throttle, VTS start/stop switch housing and handlebar grips).
25. Be sure to bundle and zip tie all wires and cables so that they do not interfere with the movement of any of the steering arms or the steering cable.
26. At this point you should make sure that the steering system is centered properly and that you are getting full left and right movement without any binding. If adjustment is necessary begin with the cable ends at either the steering arm or the steering nozzle. **Note: It is crucial that the steering system stops on the steering stops and not by the steering cable hyper extending or compressing. You can adjust cable at the cable ends and also at the cable mount support on the hood. Very minimal adjustment should be made at the shaft between the two steering arms.**
27. Re-attach the hood cowling and replace the storage bucket back into the cowling. **Note: do not over tighten the bolts that secure the cowling to the hood. These bolts are screwing into plastic fittings and will break if tightened much more than hand tight.**
28. Before riding check all cable connections along with making sure nothing is binding. Always check that the throttle cable movement is not restricted. Also make sure the Safety lanyard is operating properly.