

Instructions for Use

Replacing the Hydraulic System on an Electronic Adjustable Height Processing Sink

WARNING - Performing the tasks in this guide requires a moderate level of technical ability. Please read through this entire guide before starting.

Processing Sink Hydraulic System Replacement

Our example in this process will demonstrate the replacement of a hydraulic system on a triple basin sink. Single and Double basin sinks will follow the same procedure.

Parts Needed

- Hydraulic System Kit (H0090-05) if hydraulic pump compartment measures 29.75" wide
- Hydraulic System Kit (H0090-05-08-HD) if hydraulic pump compartment measures 38.75" wide
- 3/8" x 7" bolt (H0016-08) - Sold separately and needed for both

Tools/Extras Needed (Not Included)

- 7/16" wrench
- 7/16" socket
- #2 Phillips screw driver
- Flat head screw driver
- 10mm flare nut wrench
- Tube cutter (recommended) or diagonal pliers
- 4" zip ties (at least 12)
- Sturdy supports (like sawhorses)

Sink Preparation

1. Remove all accessories on the sink.
2. Unplug the sink from its power source.
3. Disconnect the sink from its drain and water/air lines.
4. Remove any seismic foot anchors on the legs.
5. Obtain sturdy supports (like sawhorses). Wrap the supports with some foam sheeting or other protection to avoid scratching the sink top when the sink is set on it.
6. The triple basin sink is very heavy. At least four people will be needed to lift, turn the sink over and set the sink flat on its top on the supports (Fig. 1).

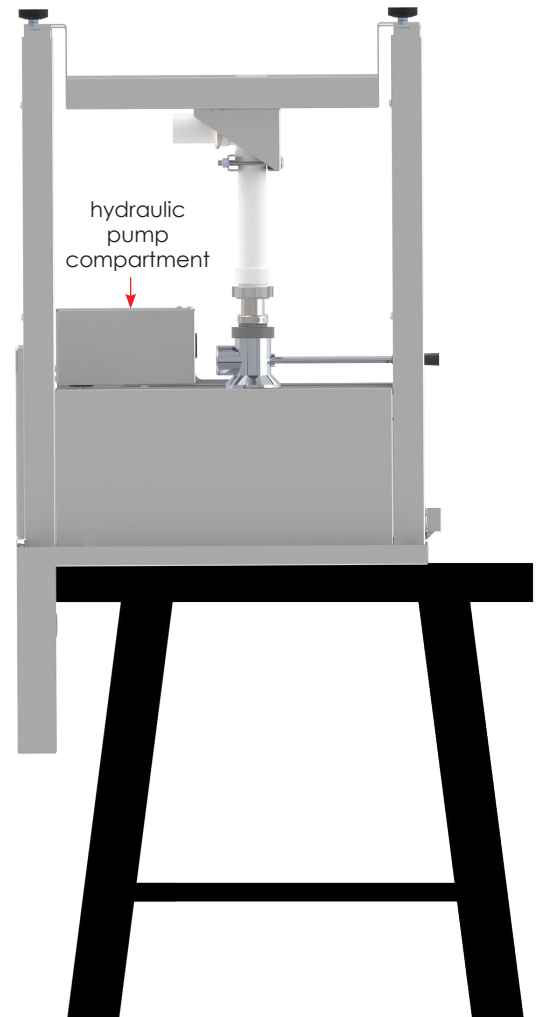


Fig. 1: Turn sink upside down on supports

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Remove Lower Brace/Shelf(s)

1. Unscrew the foot levelers from each of the hydraulic legs (Fig. 2).
2. Detach the sink lower brace/shelf by removing the U-bolts and nuts attached to each drain assembly and the other bolts, nuts, clamp saddles and red/black rubber pads (Fig. 3). Do this for each drain assembly. Set this hardware aside in an orderly manner for later reattachment.
3. Lift off the sink lower brace/shelf (Fig. 4) and set aside for later reinstallation.

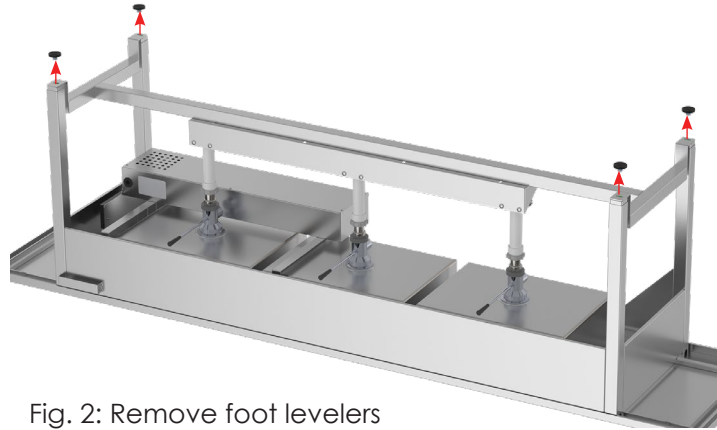


Fig. 2: Remove foot levelers

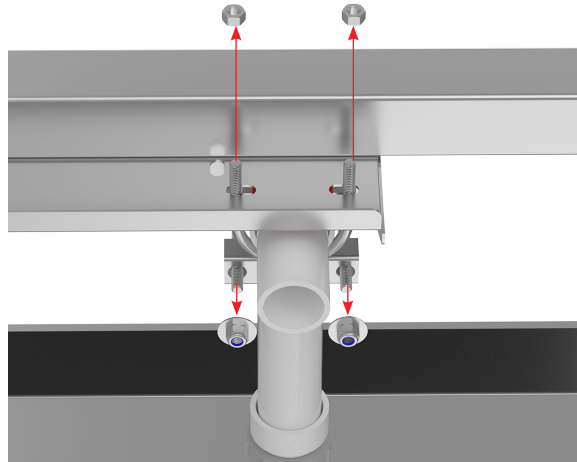


Fig. 3: Remove nuts and bolts/clamps

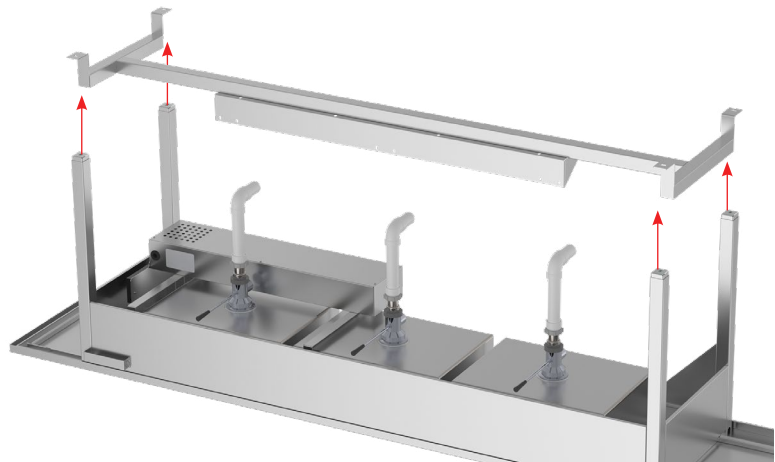


Fig. 4: Remove lower brace/shelf

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Remove Hydraulic Pump Compartment Cover

Unscrew the hydraulic pump compartment (6 places) (Fig. 5) and remove the cover (Fig. 6). Set the screws and cover aside for future reattachment.

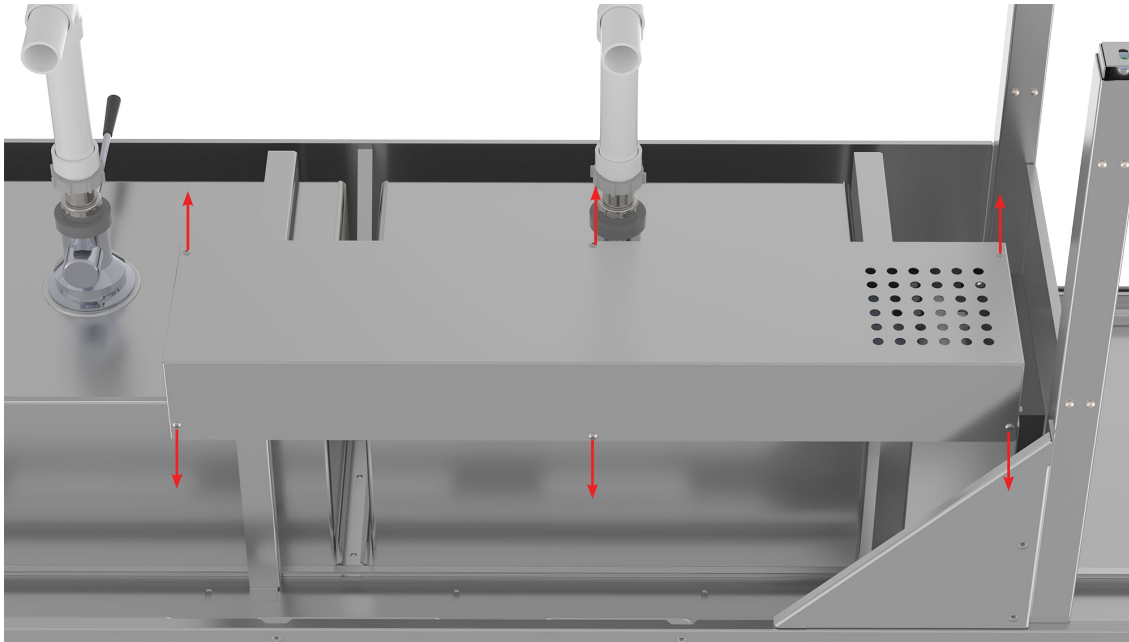


Fig. 5: Remove hydraulic compartment cover

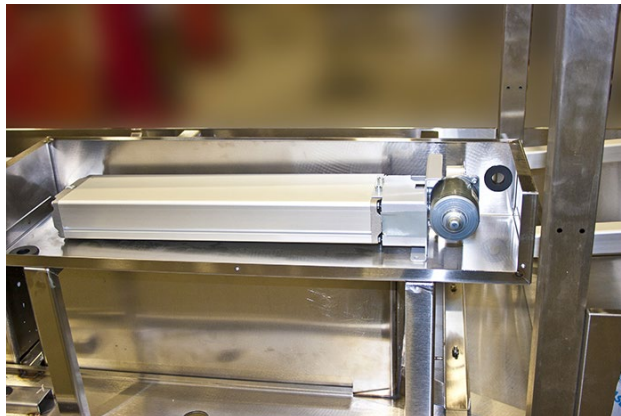


Fig. 6: Hydraulic pump in compartment

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Remove Four Old Hydraulic Legs

1. Using the flat head screw driver, gently pry up inner leg then lift to remove (Fig. 7). Set aside for later reinsertion
2. Temporarily insert the 7" long bolt into a hydraulic leg (Fig. 8).
3. From the hydraulic pump, trace the line connected to the old hydraulic leg. Cut all zip ties attaching the line to the sink. Disconnect the old hydraulic leg line from the pump by unscrewing it from the pump. Use the flare nut wrench to loosen the pump connection screw (Fig. 9 - Fig. 10).
4. Unscrew the top and bottom ends of the old hydraulic leg from the outer leg. Hold onto long bolt so the hydraulic leg doesn't fall into outer sink leg (Fig. 11 - Fig. 12 - 4 screws). Set these aside for later reinsertion into the new leg.
5. Using the long bolt as a handle, draw out the hydraulic leg (Fig. 13).
6. Repeat with the other 3 legs.

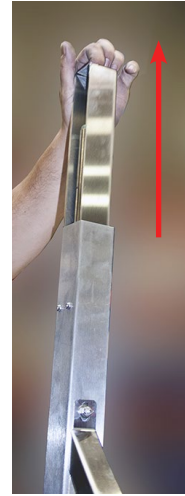


Fig. 7: Remove inner legs

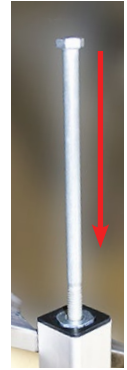


Fig. 8: Insert 7" bolt

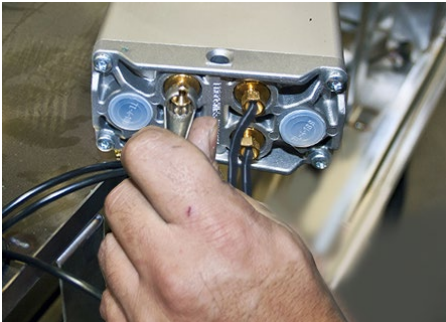


Fig. 9: Remove old line from pump

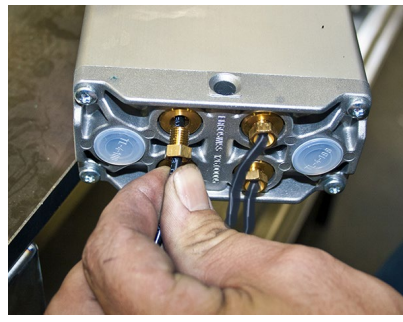


Fig. 10: Extract line with screw/ferrule



Fig. 11: 2 screws top end



Fig. 12: 2 screws lower end

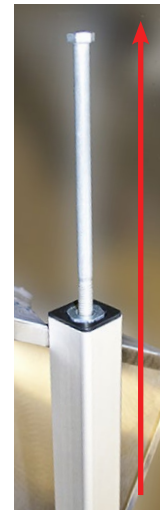


Fig. 13: Remove hydraulic leg

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Removing the Hydraulic Pump

1. To release the pump from the compartment, unscrew the locknut underneath the pump compartment at the head end. A metal spacer is above the locknut and will come off when the locknut is removed. Remove the 3 1/2" bolt (Fig. 14). Set the locknut, spacer and bolt aside for future reinsertion.
2. Remove the two locknuts at the rear located under the pump itself. Remove the bolts. Set the locknuts and bolts aside for future reinsertion (Fig. 15).



Fig. 14: Long bolt at pump head end



Fig. 15: 2 bolts at pump back end

Install Four New Hydraulic Legs

1. Cut the zip tie from each new hydraulic leg line (Fig. 16).
2. Temporarily insert the 7" bolt into the new hydraulic leg. This bolt will make inserting the leg into the sink outer leg easier (Fig. 17).
3. Thread the hydraulic leg line into the sink outer leg (Fig. 18). The leg line should appear at the bottom of the outer leg. Pull the line through (Fig. 19).
4. Insert the hydraulic leg into the sink outer leg (Fig. 20). Make sure the screw holes on one side of the hydraulic leg faces the screw holes of the outer leg.

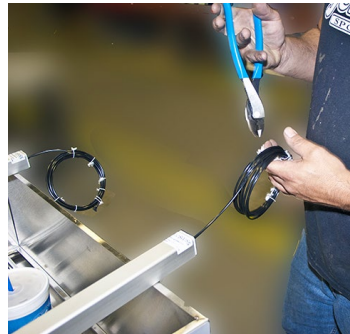


Fig. 16: Remove leg line zip tie

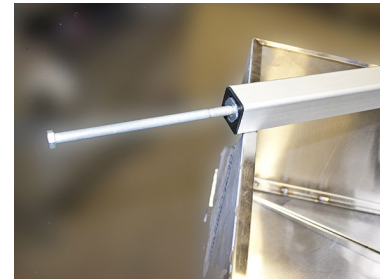


Fig. 17: Insert 7" bolt



Fig. 18: Thread leg line



Fig. 19: Line threaded thru

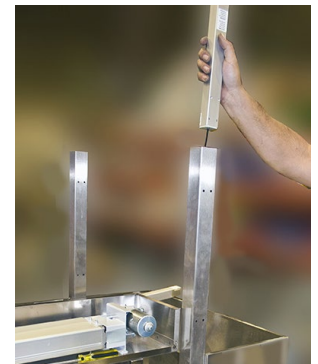


Fig. 20: Insert hydraulic leg

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5. After inserting the new hydraulic leg into the outer leg, while holding the bolt, reinsert the four screws (top and bottom) of the outer leg to secure the hydraulic leg to the outer leg. (Fig. 21 - Fig. 22).
6. Remove the 7" bolt from the hydraulic leg (Fig. 23).
7. Repeat steps 1-6 for remaining 3 legs.



Fig. 21: 2 screws top end



Fig. 22: 2 screws lower end



Fig. 23: Remove long bolt

Connect Four Hydraulic Leg Lines to New Pump

1. Thread the hydraulic leg lines through the grommet hole at the front of the hydraulic pump compartment (Fig. 24).
2. One at a time, pull a hydraulic leg line coming out of the grommet hole to the pump. Use the tube cutter (or diagonal pliers) to cut the line 1" from factory crimp (Fig. 25).
3. While holding the line upright to prevent fluid loss, insert the line end through the screw provided by the kit. Then insert the kit-supplied ferrule (line connection) onto the line end (Fig. 26).



Fig. 24: Thread lines thru grommet



Fig. 25: Trim line



Fig. 26: Hydraulic screw & ferrule

CAUTION: There is a ball bearing in each hole of the new hydraulic pump to keep the fluid from leaking out. Each ball bearing must be removed with the supplied magnet, one at a time, before the prepared line end can be screwed into the pump. Keep the pump end with the holes elevated to reduce the possibility of hydraulic fluid loss and for easier access to insert prepared lines.

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- Insert the prepared line end of the new hydraulic leg into the line connection sockets of the hydraulic pump (Fig. 27 - Fig. 28). Tighten the line connection screw.



Fig. 27: Insert prepared line

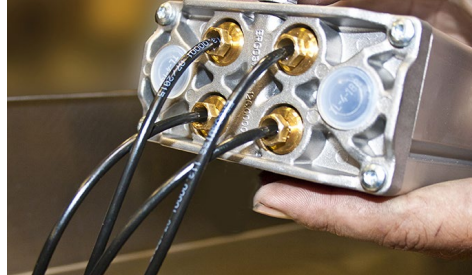


Fig. 28: Lines installed

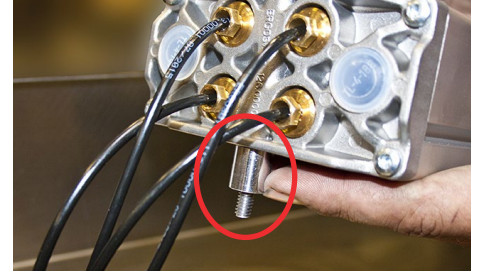


Fig. 29: Bolt & Spacer

- Reinsert the 3 1/2" bolt into the head end of the pump. Under the pump, reinsert the spacer onto the bolt (Fig. 29). Insert the bolt with the hole in the hydraulic compartment (Fig. 30). Under the hydraulic compartment, secure the pump to the compartment with its lock nut. Tighten nut and bolt (Fig. 31 - Fig. 32).

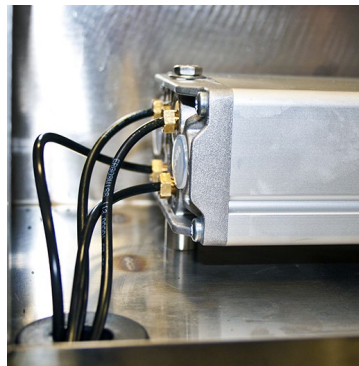


Fig. 30: Insert bolt in hole

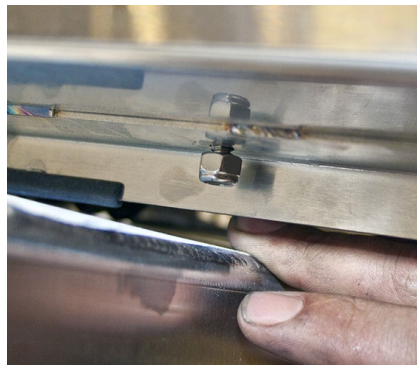


Fig. 31: Secure with lock nut



Fig. 32: Long bolt at pump head end

- Reinsert the two bolts to the rear of the pump (Fig. 33). Secure the bolts with its locknuts.
- Plug the power cord into a power source to test the leg hydraulics. Hold down the Up button until all four hydraulic legs are protruding out the outer sink leg (Fig. 34).
- Reinstall the cover onto the hydraulic pump compartment (Fig. 35). Secure with its 6 screws (top and side).



Fig. 33: 2 bolts at pump back end



Fig. 34: Test leg hydraulics

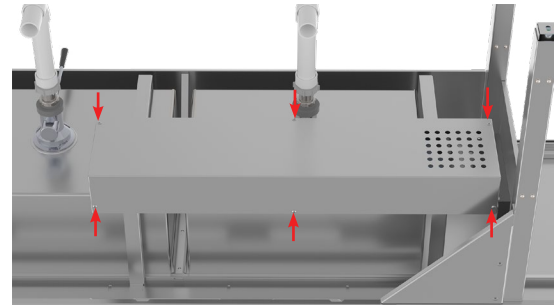


Fig. 35: Reinstall hydraulic compartment cover

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Install Four Inner Legs and Install Zip Ties

1. Insert the inner leg into the outer leg (Fig. 36). If the hydraulic leg is not in the up position, keep a finger on the inner leg to control the rate of drop into the outer leg to avoid cutting the leg hydraulic line at the bottom.
2. Zip tie all lines back into existing zip tie mounts.

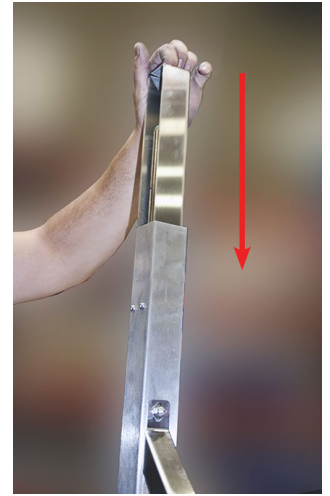


Fig. 36: Insert inner legs

Reinstall Lower Brace/Shelf

1. Place lower brace/shelf back onto the sink.
2. Reattach the sink lower brace/shelf by installing the U-bolts and nuts attached to each drain assembly and the other bolts, nuts, clamp saddles and red/black rubber pads (Fig. 37) attaching the lower brace/shelf to each drain assembly. Do this for each drain assembly.
3. Attach and screw in the foot levelers into each leg (Fig. 38).

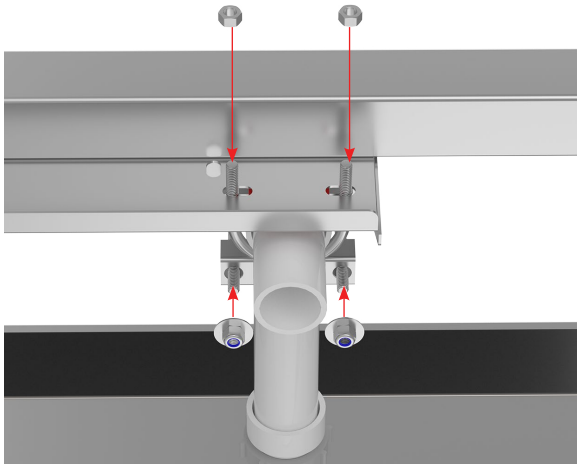


Fig. 37: Reattach nuts and bolts/clamps

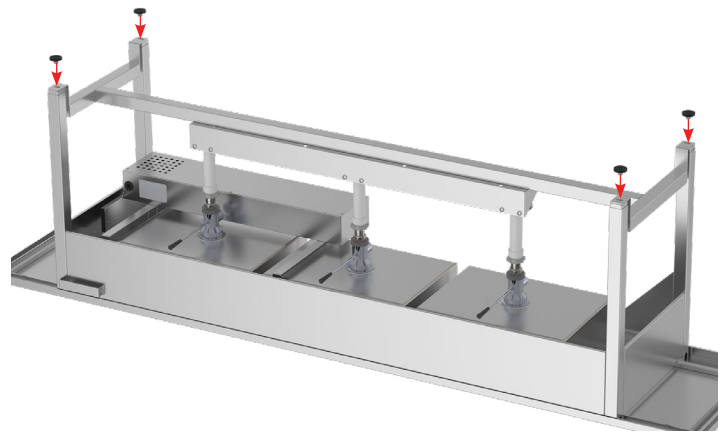


Fig. 38: Reinstall foot levelers

Finishing Up

1. Set the sink upright on the floor.
2. Reinstall accessories (faucets, air and water guns, etc).
3. Reconnect drain, air and water connections.
4. Reconnect the sink to its power source.
5. Discard black power source box and controller pad from kit.