INSTALLATION INSTRUCTIONS
AND OWNERS MANUAL

Part # ISCHX80, Rev 1, 10/2016

www.seastarsolutions.com

MECHANICAL ENGINE CONTROLS
CHX8000, CHX8100, CHX8300, CHX8500,
CHX8600 and CHX8800 SERIES

MANUFACTURED BY
MARINE ACQUISITION INCORPORATED
DBA SEASTAR SOLUTIONS
U.S.A.

Before you do it your way, please try it our way.
Installer: these instructions contain important safety information and must be forwarded to the boat owner.

This SeaStar Solutions Control provides both shift and throttle operation for inboards, outboards, and inboard/outboards.

In addition to this control, the following components are required for a complete control system:

- Two (2) control cables. Check section 2 of installation instructions for routing and length. SeaStar Solutions Xtreme™ cables are recommended.

Adaptability of Control Cable: This control will connect to any current 3300/33C OEM-type cable. A cable nest kit (P/N 212151-004) which mates to the engine’s shift and throttle cable, is included with this control. Unique cable nests, which are required for Mercury Gen II engines only, must be purchased separately.

<table>
<thead>
<tr>
<th>CONTROL FEATURES</th>
<th>SIDE MOUNT</th>
<th>TOP MOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Lever Shift and Throttle Operation</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Neutral Throttle Warm-Up</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Neutral Throttle Interlock</td>
<td>Yes</td>
<td>Option</td>
</tr>
<tr>
<td>Neutral Safety Switch (to prevent starting in gear)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Friction Adjust Screw (to prevent throttle “creep”)</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Trim Switch</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>Trim &amp; Tilt Switch</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>Emergency Ignition Interrupt Switch &amp; Lanyard</td>
<td>Yes</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Cable installation and connections must be made in accordance with the motor manufacturer’s instructions. To insure best performance, free operation of all linkages and the remote control is essential. Follow the manufacturer’s recommended procedures for adjustment and lubrication. All specifications and features are subject to change without notice.

Before starting installation read these instructions and engine makers instructions thoroughly. Failure to follow either of these instructions or incorrect assembly can result in loss of control and cause property damage, injury, or death.

DO NOT substitute parts from other manufacturers, they may cause a safety hazard for which SeaStar Solutions cannot accept responsibility.

SeaStar Solutions highly recommends the installation and usage of an engine shut off switch as a important emergency safety feature for boats. This switch should be connected by a cord to the boat driver. Should the driver be thrown from the helm position, the engine will automatically shut off. This switch is a standard part of CHX side mount controls.

If this shut off switch is not a standard part of the control being used, it can be obtained from most marine dealers and distributors.
1. **NEUTRAL THROTTLE WARM-UP BUTTON.**
This feature provides a throttle only option to warm-up the engine before driving the boat.

When the Control Hand Lever is in Neutral, push and hold the button at the base of the handle. While holding the button (1), move the lever forward to throttle up the engine.

When you return the handle to the Neutral position, the button will reset automatically.

Once the button resets, the hand lever will work both shift and throttle functions.

2. **NEUTRAL INTERLOCK LIFTER.**
To prevent bumping the side mount control out of neutral, the lifter must be activated and held to shift into forward or reverse (option on top mount).

3. **ENGINE TRIM SWITCH.**
Used to move the engine UP or DOWN to level the boat while underway. This switch controls trim and tilt on most outboards.

4. **TRAILER (TILT) SWITCH.**
Used to raise the engine for trailering the boat. This switch normally is used on I/O applications.

5. **SIDE MOUNT EMERGENCY IGNITION INTERRUPT SWITCH.**
(Used as a safety device)

To work as a safety device, the lanyard clip must be attached to the emergency ignition interrupt switch (5) and the lanyard itself must be secured to the boat operator. If the clip is pulled free of the control, the engine will shut down.
Installation

SECTION 1: LOCATION OF CONTROL.

STEP 1. Allow adequate clearance for hand lever swing (forward and reverse positions).

STEP 2. Allow adequate clearance under the console or in the gunwale for the cables AND allow a minimum of 36" from the cable nest connection with no restraint. When supporting the cables beyond 36”, do not tie or clamp tightly.

STEP 3. After a suitable location for the control is determined, use the separate mounting template.

STEP 4. Closely follow the instructions provided on the template. Cut and drill the mounting holes required.

On all models, the cover will have to be removed to expose the mounting holes.

TOOLS FOR INSTALLATION:

Phillips head screwdrivers  Standard slot screwdriver
Saber saw  4 1/4" Hole saw (optional)
Power drill  7/32" and 17/64" drill bits
3/8" box end wrench  Multimeter (optional)
5/8” or 16mm deep well socket  Ratchet wrench

SECTION 2: MEASURING THE CABLES.

Measure the cable routing path from the control head connection to the engine connection.

OUTBOARDS:

Measure from the control connection—along an unobstructed cable routing—to the center of the outboard engine.

Add four (4) feet to the measurement to allow for a loop which provides unrestricted engine movement. Round UP to the next whole foot and order the required cable part number.

(Last two digits of the SeaStar Solutions cable number equal the length of the cable in feet.)

INBOARDS AND STERNDRIVES:

Measure from the control connection—along an unobstructed cable routing—to the shift or throttle connection. Round this dimension UP to the next whole foot and order the required cable part number.

(Last two digits of the SeaStar Solutions cable number equal the length of the cable in feet.)
Installation of Cables

A. **BEND RADIUS.** When routing the control cables, select a path with the minimum number of bends, making the bends as large as possible. Sharp or frequent bends will result in difficult throttle or shift control, loss of motion, and premature cable wear. **DO NOT MAKE BENDS OF LESS THAN THE RECOMMENDED MINIMUM BEND RADIUS AS NOTED BELOW.**

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Minimum Bend Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>8”</td>
</tr>
<tr>
<td>Xtreme</td>
<td>4”</td>
</tr>
</tbody>
</table>

For best performance, SeaStar Solutions recommends using Xtreme cables with this control.

B. **SUPPORTING THE CABLE.** Do not tie or clamp the cable within 36 inches of the control. When supporting the cable beyond 36 inches of the control, cables should be loosely clamped or tied for support at regular intervals.

**CAUTION**

Cables must not be bundled together with electrical wiring. Cables must not rest on sharp edges which can cause chafing.

C. **CABLE ROUTING.** Cables shall not be installed in areas of excess heat such as on, or close to, exhaust manifolds where temperatures may exceed 212°F (100°C).
SECTION 3: SHIFT & THROTTLE CABLE CONNECTION-CONTROL END.

- **PUSH/PULL** refer to the direction of cable motion to shift into “forward” or to “open” the throttle.
- Refer to the appropriate manufacturer’s manual for shift and throttle direction and adjustments.
- **Numbered holes on mechanism chassis correspond to holes in shift and throttle levers** (for example: connect cable mount to hole 4 on chassis and cable end fitting to hole 4 on lever).
- Cables and wiring should be pre-installed on control before final mounting is made.

### Cable Connection Guide

**PUSH to OPEN THROTTLE**

<table>
<thead>
<tr>
<th>MANUFACTURER</th>
<th>STARBOARD INSTALLATION</th>
<th>CENTER INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury 18 &amp; 25 HP</td>
<td>#1</td>
<td>#1</td>
</tr>
<tr>
<td>Johnson/Evinrude</td>
<td>#1</td>
<td>#1</td>
</tr>
<tr>
<td>BRP/OMC I/O</td>
<td>#1</td>
<td>#1</td>
</tr>
<tr>
<td>Yamaha 90HP &amp; up</td>
<td>#1</td>
<td>#1</td>
</tr>
<tr>
<td>US Marine</td>
<td>#1</td>
<td>#1</td>
</tr>
<tr>
<td>Suzuki</td>
<td>#1</td>
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</table>

**PULL to OPEN THROTTLE**

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>MerCruiser</td>
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<td></td>
</tr>
<tr>
<td>Mercury I/O &amp; OB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volvo</td>
<td>#2</td>
<td>#2</td>
</tr>
<tr>
<td>Yamaha 70HP &amp; Under</td>
<td>#2</td>
<td>#2</td>
</tr>
<tr>
<td>Honda</td>
<td>#2</td>
<td>#2</td>
</tr>
<tr>
<td>Nissan/Tohatsu</td>
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<td>#2</td>
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</table>

**PUSH for FORWARD SHIFT**

<table>
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<th>CENTER INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volvo I/O &amp; Inboards</td>
<td>#3</td>
<td>#4</td>
</tr>
<tr>
<td>3300 Cables</td>
<td>#3</td>
<td>#4</td>
</tr>
<tr>
<td>Mercury 18 &amp; 25 HP</td>
<td>#5/6</td>
<td>#7/8</td>
</tr>
<tr>
<td>Inboards</td>
<td>#3</td>
<td>#4</td>
</tr>
</tbody>
</table>

**PULL for FORWARD SHIFT**

<table>
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<th>MANUFACTURER</th>
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<th>CENTER INSTALLATION</th>
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</thead>
<tbody>
<tr>
<td>3300 Cables</td>
<td>#4</td>
<td>#3</td>
</tr>
<tr>
<td>MerCruiser</td>
<td>#7/8</td>
<td>#5/6</td>
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<tr>
<td>BRP/OMC I/O</td>
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<td>#5/6</td>
</tr>
<tr>
<td>Honda/Nissan/Suzuki</td>
<td>#4</td>
<td>#3</td>
</tr>
<tr>
<td>Tohatsu/US Marine</td>
<td>#4</td>
<td>#3</td>
</tr>
<tr>
<td>Yamaha</td>
<td>#4</td>
<td>#3</td>
</tr>
<tr>
<td>Inboards</td>
<td>#4</td>
<td>#3</td>
</tr>
</tbody>
</table>

**NOTE:**
I/O = Inboard/Outboard or Sterndrive. O/B = Outboard.
**Cable End Options**
- 3300/33C (Universal)  
  (note black nest color)
- BRP/OMC/Johnson/Evinrude  
  (note blacknest color)
- Mercury, MerCruiser  
  (note black nest color)
- Mercury Gen II Cables  
  (note neutral nest color)

*Each cable type connects differently.*
SECTION 4: SHIFT & THROTTLE CABLE CONNECTION-ENGINE END.

CAUTION

The throttle cable must be disconnected from the motor before making motor idle adjustments. Adjustment of the motor idle while the throttle cable is connected to the motor may cause jamming action against the idle stop. As a result, the control may not function properly and damage to the control, the cable and/or the motor may occur.

STEP 1. Make sure the Control is in NEUTRAL DETENT.

STEP 2. The Engine Throttle Lever should rest lightly against the “Idle Stop” on the carburetor.

STEP 3. Connect the Throttle Cable to the Engine Throttle Lever.

STEP 4. Before connecting the shift lever to transmission lever, put both the control lever and the transmission lever into forward gear position. Adjust the cable end to the position where it easily slides onto transmission lever.

STEP 5. If using 3300/33C cables, tighten all jamb nuts against adaptors.

NOTICE

Throttle Cable must be free of load (NO LOAD) when throttle lever is in the idle position to prevent hard shifting.

SECTION 5: ELECTRICAL CONNECTIONS.

NEUTRAL SAFETY SWITCH.

This control is provided with a Neutral Safety Switch. This switch is used to prevent the engine from starting in gear.

NOTICE

Use a battery-powered test light or test meter to check continuity.

STEP 1. With the Control in NEUTRAL, connect one wire of the tester to the common terminal, and one wire to the “NO” (Normally Open) Terminal. The test light MUST light.

STEP 2. Connect the neutral safety switch between the ignition switch (start lead) and the starter solenoid.

CAUTION

Use a multimeter or continuity tester to make sure that there is electrical continuity only when the control is in neutral position. When the control is in forward or reverse gear there must not be electrical continuity. The multimeter or tester should show an open circuit.

TRIM AND TILT.

Refer to the following wiring diagrams for the correct “Trim” and “Tilt” switch connections and wire accordingly.
Abbreviations:
DN = Down
UP = Up

Color Key:
B = Blue
G = Green
R = Red

Note for Tilt:
1. Connect Blue and Green together, then connect to engine tilt signal wire.
2. Connect Red to engine power wire.
3. Not all engines are wired the same, especially older engines. Check with the engine manufacturer for wiring specifications.
4. Use either the upper or lower Tilt switch to bring Tilt UP. To bring Tilt DOWN, use Trim DOWN switch.

IGNITION INTERRUPT SWITCH
This switch includes a lanyard clip which holds the plunger of the switch in position to allow engine operation. A lanyard extends from the clip and is connected securely to the operator. If the operator moves away from the controls, the clip is pulled free, releasing the plunger and stopping the engine.

OPERATION OF IGNITION INTERRUPT SWITCH.
STEP 1. Before each motor start, check that the Lanyard Fork Clip is properly seated over the switch and rotates freely.

STEP 2. Inspect the lanyard. If it is cut, worn or frayed, it must be replaced.

STEP 3. Start the engine.

STEP 4. Test the switch by pulling the lanyard fork clip free from the switch. The engine should stop.

If engine fails to stop, recheck all wiring. Should the engine fail to start or stop, or resume running with the lanyard fork removed, consult your local marine dealer for assistance. Do not change the length of the lanyard or use another manufacturer’s lanyard on this interrupt switch. Either may affect switch operation. Misuse, misapplication, unauthorized modifications, or incorrect installation of this safety devise could result in serious bodily injury or death.

Emergency Ignition Interrupt Switch
Inboard
(Normally OPEN)

Emergency Ignition Interrupt Switch
Outboard
(Normally CLOSED)

INBOARD = PURPLE WIRES
OUTBOARD = BLACK WIRES
INSTALLATION INSTRUCTIONS FOR THE IGNITION INTERRUPT SWITCH.
All wiring, connections and terminations should be done in accordance with ABYC Spec E 11-03.

Before drilling, check behind the gunwale or panel for sufficient clearance and space around wires, tubes, pipes and other obstructions.

• If installing the switch as a retro fit, remove the 4 mounting screws that retain the bezel. Remove the bezel. Overlay the cutout template supplied in the kit. If the cutout profile does not match the template, cutout the gunwale to suit the template profile.

• If installing the control for the first time, use the template to cutout the gunwale.

STEP 1. Insert the switch from the rear of the gunwale or from the front. Your choice will depend on the design of your boat and access to the cavity between the hull and the gunwale.

STEP 2. Insert the 4 mounting screws through the bezel cutout and into the control mounting plate.

STEP 3. Assemble the bezel insert onto the bezel and add the Interrupt Switch retaining nut. Torque to 40-50 inch pounds (3.5-4 foot pounds).

STEP 4. Insert the lanyard clip under the Interrupt Switch plunger. Pull firmly on the lanyard to verify that the clip snaps free. Ensure the nut remains tight, re-torque if necessary. Reattach the lanyard clip to the switch.

STEP 5. Complete the Interrupt Switch wiring into the engine electrical circuit according to the instructions below.

STEP 6. Complete all testing of the Interrupt Switch function according to the instructions on the following page(s).

ELECTRICAL CONNECTIONS: I/O OR INBOARD USE ONLY
(NORMALLY OPEN)

Use 16 AWG Purple stranded, insulated marine quality wire for I/O or inboard applications. (Type HDT, THW, UL 1426 or equivalent.)

Be sure this wire goes directly to the coil and not to the instrument or alternator circuit. Selecting the incorrect wire will result in improper switch operation which could lead to serious injury.

STEP 1. Disconnect all batteries and any auxiliary on-board or dockside power supplies.

STEP 2. Locate the purple ignition switch-to-coil wire; See Diagram A below.

STEP 3. Cut the purple wire, strip the ends and install two (2) insulated crimp-on 1/4 inch female disconnect terminals. A crimping tool designed for insulated terminals MUST be used.

STEP 4. Attach the female disconnects to each of the male terminals on the Interrupt Switch.
STEP 5. Recheck all connections.

STEP 6. Install Lanyard with the Fork Clip seated on the Plunger.

STEP 7. Reconnect battery.

STEP 8. Start engine. If engine does not start: disconnect battery, recheck all electrical connections, reconnect battery and restart engine.

STEP 9. Remove Lanyard. Engine should stop immediately.

Diagram A
I/O and Inboard Wiring
(basic wiring; no specific manufacturer)

ELECTRICAL CONNECTIONS: OUTBOARD USE ONLY
(NORMALLY CLOSED)

Use 16 AWG Black stranded, insulated marine quality wire for all outboard applications. (Type HDT, THW, UL 1426 or equivalent.)

⚠️ CAUTION

This interrupt switch is designed for use with outboard motors equipped with grounding type emergency stop circuits only!

STEP 1. Disconnect all batteries and any auxiliary on-board or dockside power supplies.

STEP 2. Remove Engine Cover.

STEP 3. Locate the correct color emergency stop wire for your motor. (See Reference Table 1.)

STEP 4. Measure and cut two lengths of black 16 AWG marine quality wire of sufficient length to connect one Interrupt Switch terminal to the Emergency Stop Wire and the other terminal to a System Ground. (See Diagram B.)

STEP 5. Strip one end of each wire and crimp on an insulated 1/4 inch female disconnect terminal. A crimping tool designed for insulated terminals MUST be used.
STEP 6. Attach the female disconnects to each of the male terminals on the Interrupt Switch.

STEP 7. Attach the other end of one wire to the Emergency Stop Wire, using a suitable insulated wire connecting device. (See Reference Table 1 and Diagram B.)

STEP 8. Attach the other end of the second wire to the ground point, using a suitable insulated wire connecting device as shown in Diagram B below.

STEP 9. Recheck all connections. Install the Lanyard with the Fork Clip seated over the Plunger.

STEP 10. Replace engine cover and reconnect battery.

STEP 11. Start engine. If engine does not start: a) disconnect battery; b) remove engine cover; c) recheck all electrical connections; d) replace engine cover; and e) restart engine.

Remove Lanyard. Engine should stop immediately.

If engine fails to stop, recheck all wiring. Should the engine fail to start or stop or resume running with the lanyard fork removed, consult your local marine dealer for assistance.

<table>
<thead>
<tr>
<th>ENGINE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daihatsu</td>
<td>Solid Brown</td>
</tr>
<tr>
<td>Evinrude</td>
<td>Black with Yellow Stripe</td>
</tr>
<tr>
<td>Before 1969</td>
<td>Solid Blue</td>
</tr>
<tr>
<td>Force</td>
<td>Solid White</td>
</tr>
<tr>
<td>Johnson</td>
<td>Black with Yellow Stripe</td>
</tr>
<tr>
<td>Before 1969</td>
<td>Solid Blue</td>
</tr>
<tr>
<td>Mariner</td>
<td>Black with Yellow Stripe</td>
</tr>
<tr>
<td>Mercury</td>
<td>Black with Yellow Stripe</td>
</tr>
<tr>
<td>Nissan</td>
<td>Solid Brown</td>
</tr>
<tr>
<td>OMC</td>
<td>Black with Yellow Stripe</td>
</tr>
<tr>
<td>Before 1969</td>
<td>Solid Blue</td>
</tr>
<tr>
<td>Suzuki</td>
<td>Solid Brown</td>
</tr>
<tr>
<td>US Marine</td>
<td>Blue with Black Stripe or</td>
</tr>
<tr>
<td></td>
<td>Solid Blue</td>
</tr>
<tr>
<td>Yamaha</td>
<td>Black with Yellow Stripe</td>
</tr>
</tbody>
</table>

Reference Table 1.
INSTALLATION (SIDE MOUNT AND CENTER MOUNT)

STEP 1. Cut opening in gunwale per included Mounting template. Note: Control is designed to be installed without removing the lever.

STEP 2. Align the mechanism (inside the gunwale) and the bezel base (outside the gunwale) with the 4 screw holes.

STEP 3. Install the 4 quarter inch bolts and lock washers through the bezel and into the mechanism mounting plate.

STEP 4. Install the left and right side bezel covers. Rotate the lever forward or reverse if required. Note: To remove covers, insert a small flat head screwdriver into the lower grooves and gently pry the covers forward.

INSTALLATION (TOP MOUNT)

STEP 1. Cut opening in console per included Mounting Template.

STEP 2. Align the mechanism and gasket with the four screwholes.

STEP 3. Install the four bolts, lockwashers and nuts through the bezel base.

STEP 4. Install the bezel cover. Note: To remove the bezel cover, apply rearward force on the front of the cover while rotating the front counter clockwise (towards the lever) until the front snap disengages. Then apply forward force to the rear of the bezel while gently lifting the assembly and rotating the rear clockwise until the rear snap disengages. DO NOT APPLY EXCESSIVE FORCE as this may result in breakage of the snap features.
General Control Dimensions

CHX8000: SIDE-MOUNT CONTROL GENERAL DIMENSIONS.

CHX8100 TOP-MOUNT CONTROL GENERAL DIMENSIONS.
Exploded View CHX8000

FRICTION ADJUST SCREW.

Adjustment of this screw enables the friction in the throttle operating mechanism to be increased and prevent unwanted handle movement. To adjust, place the lever in the forward or reverse throttle position (just beyond the shift position). Remove the cover and adjust the friction adjust screw: turning the screw clockwise increases the friction. Do not over-tighten.

Exploded View CHX8100

FRICTION ADJUST SCREW.

Adjustment of this screw enables the friction in the throttle operating mechanism to be increased and prevent unwanted handle movement. To adjust, place the lever in the forward or reverse throttle position (just beyond the shift position). Remove the cover and adjust the friction adjust screw: turning the screw clockwise increases the friction. Do not over-tighten.
All service parts can be purchased from your local SeaStar Solutions Distributor.

<table>
<thead>
<tr>
<th>KIT NUMBER</th>
<th>KIT NAME AND DESCRIPTION</th>
<th>MODEL USED ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>212151-003</td>
<td>Cable Nest and Connection Kit with Mercury Gen II Nest</td>
<td>All</td>
</tr>
<tr>
<td>051801-023</td>
<td>Neutral Safety Switch</td>
<td>All</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>CHX8000 REPLACEMENT PARTS</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Neutral Throttle Warm-up Kit (Side Mount)</td>
<td></td>
</tr>
<tr>
<td>Tilt Switch Kit</td>
<td></td>
</tr>
<tr>
<td>Interrupt Switch Kit, I/O &amp; Inboard</td>
<td></td>
</tr>
<tr>
<td>Interrupt Switch Kit, Outboard</td>
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</table>

<table>
<thead>
<tr>
<th>CHX8100 REPLACEMENT PARTS</th>
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</thead>
<tbody>
<tr>
<td>Neutral Throttle Warm-up Kit (Top Mount)</td>
<td></td>
</tr>
<tr>
<td>Tilt Switch Kit</td>
<td></td>
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</tbody>
</table>
Maintenance Notes

1. After a few hours of operation and at frequent intervals thereafter, check all fasteners and the complete control system for security and integrity.

**DANGER**

Loosening or loss of one or more fasteners may cause failure of the control system and could cause property damage, injury, or death.

2. Keep all moving parts free from build-up of salt and other foreign material. This will affect their operation and create control problems.

3. Periodically inspect for corrosion. Any parts affected by corrosion must be replaced. Any replacement hardware must be as originally supplied (i.e. similar material and locking features).

4. Periodically inspect control cables for cracks and other damage. If any is found the cable must be replaced.

5. If cable is stiff in operation, it is unsafe to use and must be replaced immediately.

**DANGER**

DO NOT cover cracks with tape or other sealants. This will create a hazard in which the cable can fail suddenly without warning, resulting in property damage, injury, or death.

6. Periodically treat exposed metal components with a marine grade wax.

**NOTICE**

_Boat builder and boat dealer, please supply these Installation Instructions and Owner’s Manual with the delivery of boat. Boat owner keep these instructions with your boat for future reference. Boat owner consult with your boat builder, boat dealer, or SeaStar Solutions if you have any questions regarding these instructions._
This template may not be to scale. Its presence is for information purposes. A separate work template—MT-CHX81—has been included with this control.