



# INSTALLATION INSTRUCTIONS AND OWNERS MANUAL

Part # ISCH2400, Rev 1, 07/2013

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**ST  
CH2400P**



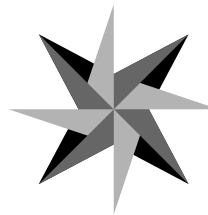
**STB  
CH2410P**



**ADJUSTABLE  
THROTTLE  
FUNCTION**

**SINGLE FUNCTION CONTROL  
CH2400P (ST) AND CH2410P (STB)**

**ch2200  
ch2300  
mt3  
osprey  
pro-trim  
single s  
twin s  
sl-3**



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MARINE ACQUISITION INCORPORATED  
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U.S.A.

# SINGLE FUNCTION CONTROL

CH2400P(ST)

CH2410P(STB)

## NOTICE

*Installer: these instructions contain important safety information and must be forwarded to the boat owner.*

## NOTICE

*These instructions describe how to install CH2400P (with no brake) and CH2410P (with external brake) single-function controls for throttle or shift.*

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

- One 3300/33C or 4300/43C type control cable.

*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.*

## ⚠ WARNING

**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.**

## ⚠ WARNING

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

## NOTICE

*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 shut off switch is not a standard part of this control. It can, however, be obtained from most marine dealers and distributors.*

## Control Installation

**STEP 1.** Select a location on either the right or left side of the wheel box, panel, etc.

**STEP 2.** Adequate clearance must be provided to allow the hand lever to move through its full range. Be sure there is ample space behind the mounting surface and an unobstructed path for the push-pull cable.

**STEP 3.** Cut or drill a 1 1/8" diameter hole in the mounting surface selected.

**STEP 4.** Disassemble throttle arm (10) by removing screw (12) and lockwasher (11).

**STEP 5.** Insert control assembly in mounting hole and fasten securely with screws (7). Reassemble throttle arm (10). See notice on next page.

## NOTICE

Determine whether *PUSH TO OPEN* or *PULL TO OPEN* cable travel is required. Figure 1 illustrates the two basic throttle arm positions.

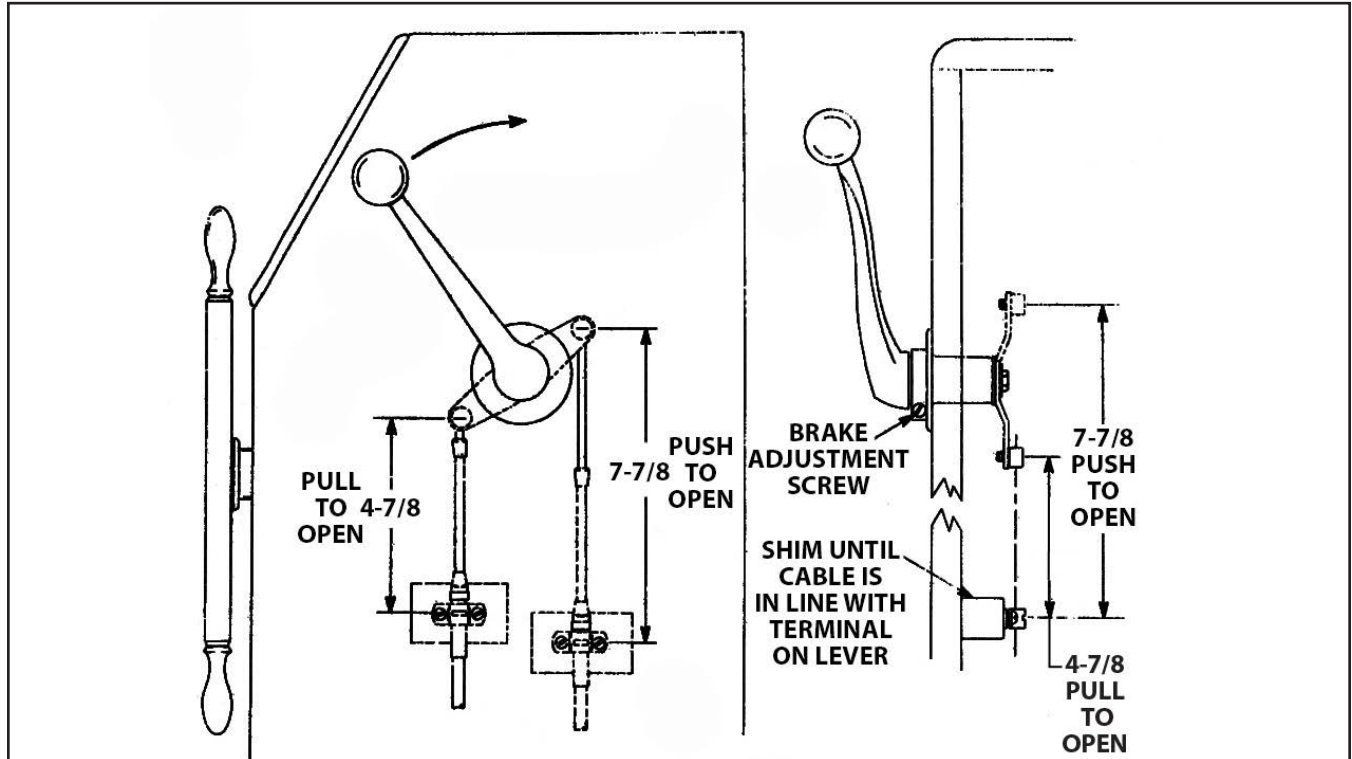


Figure 1.

## Install Control Cable

**STEP 1.** Run cable down through wheelbox to engine. Cable should be run as straight as possible with no bends less than 8" radius.

**STEP 2.** Remove cable terminal (14) from throttle arm (10). Thread terminal onto cable rod until 3/16" is through terminal. Hold terminal to prevent it from turning and tighten cable nut against terminal. Replace terminal in throttle arm and secure with cotter pin (16).

**STEP 3.** Mount cable clamp (13) and shim (15) in line with throttle arm (See Figure 1) and position so that movement of the cable sleeve from its center position is equal when the control head hand lever is moved from idle to full throttle. It may be necessary to shim further under the cable clamp as illustrated in Figure 1.

## Connect Control Cable to Engine

**STEP 1.** Follow the procedure described in the throttle connection kit instructions.

## Final Check and Adjustment

**STEP 1.** Operate the control head hand lever several times. The carburetor throttle arm should move through its full range.

**STEP 2.** Apply only enough braking tension to prevent lever "creep". Further tightening will simply make control difficult to operate. This feature available on CH2410P (STB) only.

**STEP 3.** To adjust position of control head hand lever, loosen setscrew (18), pull hand lever off shaft (3), reposition as desired and tighten setscrew securely.

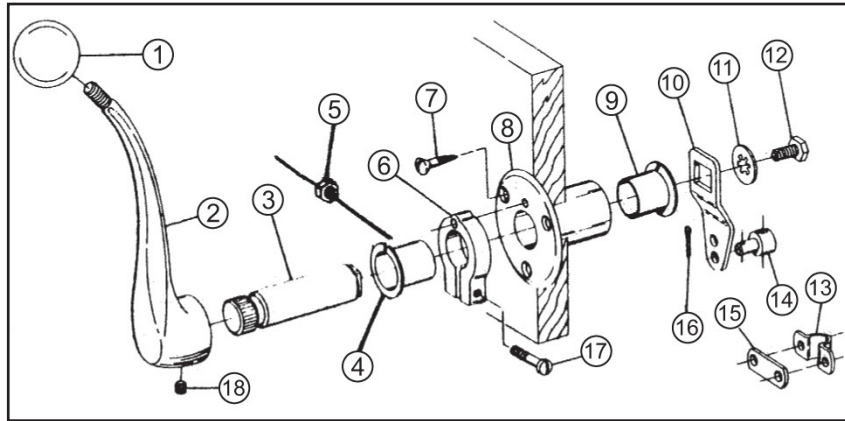


Figure 2.

ITEM	DESCRIPTION	NO. REQ'D
1	Knob	1
2	Hand lever	1
3	Shaft	1
4	Bearing	2
5	Nut (CH2410P)	1
6	Brake Band (CH2410P)	1
7*	Screw, Oval Hd. Slot Wood #10 x 1	3
8	Housing	1
9	Bearing (See Item #4)	—
10	Throttle Arm	1
11	Lockwasher, Int. Tooth 1/4	1
12	Screw, Hex Hd. Cap 1/4-28 UNF x 1/2	1
13*	Cable Clamp 30 or 40 Series	1
14*	Cable Terminal 30 or 40 Series	1
15*	Shim 30 or 40 Series	1
16*	Cotter Pin	1
17	Screw, Flat Hd. Slot #10-32 UNF x 7/8 (CH2410P)	1
18	Setscrew	1

\* Instruction sheets and parts in Hardware Kit 062279



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