



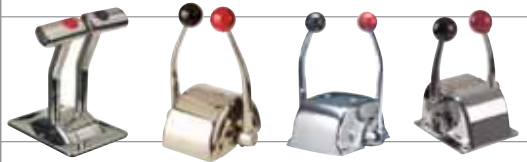
1074 Kenran Industrial Dr.
St. Louis, MO 63137
Phone: 1-800-381-9968

HUMCO ENGINE CONTROLS

Teleflex® Selection Guide

PRODUCT RANGE MECHANICAL CONTROLS

SINGLE FUNCTION



SERIES: CH4400 CH5600 SR TWIN S

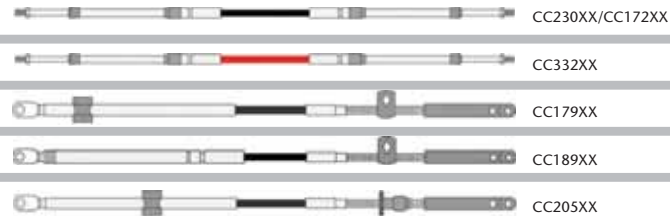
CONTROL FEATURES

START-IN-GEAR PROTECTION	•	•	•	•
NEUTRAL INTERLOCK				
ENGINE WARM-UP PROVISION	•	•	•	•
ENGINE CUT-OFF SWITCH				
ADJUSTABLE THROTTLE BRAKE	•	•	•	•
TRIM & TILT SWITCH				
ADJUSTABLE TRAVEL STOPS	•	•	•	•
MAXIMUM NUMBER OF ENGINES	1	1	1	1

CONTROL CABLES

33C/3300 UNIVERSAL TYPE	•	•	•	•
MERCURY/MARINER OEM TYPE				
MERC GEN II CABLES				
43 SERIES CABLES			•	•
BRP-OMC-JOHNSON/EVINRUDE OEM TYPE				

GENERAL CONTROLS CABLES



Gen II type cable designed specifically to be used with mercury 4000 series controls.



3300/33C (1ft increments)	COLOR	PART NO
Standard	Black	CC230XX/CC172XX
Midrange	Red	CC332XX
Mercury/Mercruiser (1ft increments)		
Standard (600A type)	Black	CC179XX
Standard (Gen II type)	Black	CC189XX
BRP-OMC-Johnson/Evinrude 1979 to date (1ft increments)		
Standard (479 type)	Black	CC205XX

XX = Length in feet



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DUAL FUNCTION

KEY:
 • standard,
 • optional,
 * optional for ski version, CH2200

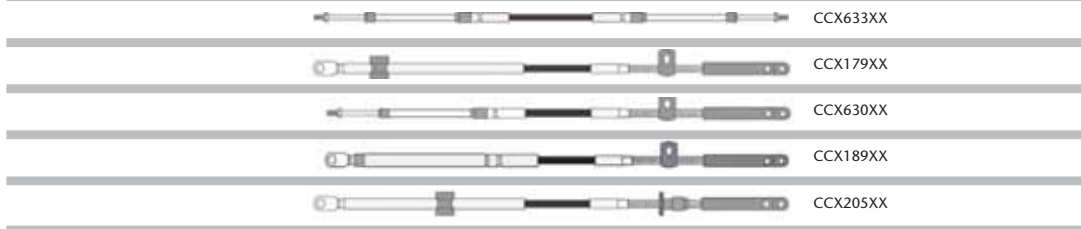


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TFXtreme CONTROLS CABLES



3300/33CC (1ft Increments)	COLOR	PART NO
Premium (Universal)	Black	CCX633XX
Mercury/Mercruiser (1ft increments)		
Premium TFXtreme (600A type)	Black	CCX179XX
Premium TFXtreme (3600 type)	Black	CCX630XX
Premium TFXtreme (Gen II type)	Black	CCX189XX
BRP-OMC-Johnson/Evinrude (1ft increments)		
Premium TFXtreme (479 type)	Black	CCX205XX

XX = Length in feet



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HUMCO ENGINE CONTROLS

Teleflex® Dual Function Controls



CH5300P
Pictured

MT-3 SINGLE LEVER (CH5310P) MT-3 TWIN LEVER (CH5300P):

Ideal for inboards, stern drives and outboards, MT-3 combines classic binnacle control styling with dual function levers, a neutral safety switch and an engine warm-up feature! Control throttle and shift with one lever instead of two. MT-3 Twin can control two engines.

APPLICATION:

Dual-function control — each lever controls throttle AND shift. Great for single station inboards stern drives and outboards, single or dual engine. Perfect for applications in which a binnacle control appearance is desired, but one-lever throttle/shift control is preferred. Also a great choice when space is at a premium. This control uses 3300/33C type cables (single and dual lever) and 4300/43 type cables (single lever version only). Not suitable for use with Mercury® and OMC® OEM type control cables.

FEATURES:

- Binnacle styling with the advanced features of a dual-function control: one-handle engine control, neutral warm-up.
- Neutral safety switch to help prevent starting in gear (standard).
- Mechanical advantage - shift 2.77:1/throttle 3.57:1.
- Meets/exceeds all applicable industry standards.

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ENGINE CONTROL	
SINGLE LEVER: MT-3 Single (Old No. 308601)	CH5310P
TWIN LEVER: MT-3 Twin (Old No. 308602)	CH5300P
OPTIONS/SERVICE ITEMS	
Optional Neutral Safety Switch	305499
Hand Lever	032778-002
Chrome Side Plate, MT-3	308598-001
Ball Knob, Red	4009912
Stainless Steel Knob (red-grooved)	CA69052P
Hardware Kit for MT-3 single lever	308599
Hardware Kit for MT-3 twin lever	308727
43 Cable Heavy Duty Connection Kit (Must be used when connecting a 4300/43CC or 4300/43BC cable to the control. 43 series cables can only be used with the single-lever model.)	308742
Enginge Connection Kits (see Connection Kits section page 423)	
NOTE: 4300/43 type cables cannot to be used on MT-3 Twin, as interference will occur.	

Teleflex
Recommends Using
TFXTREME
Cables With This
Control



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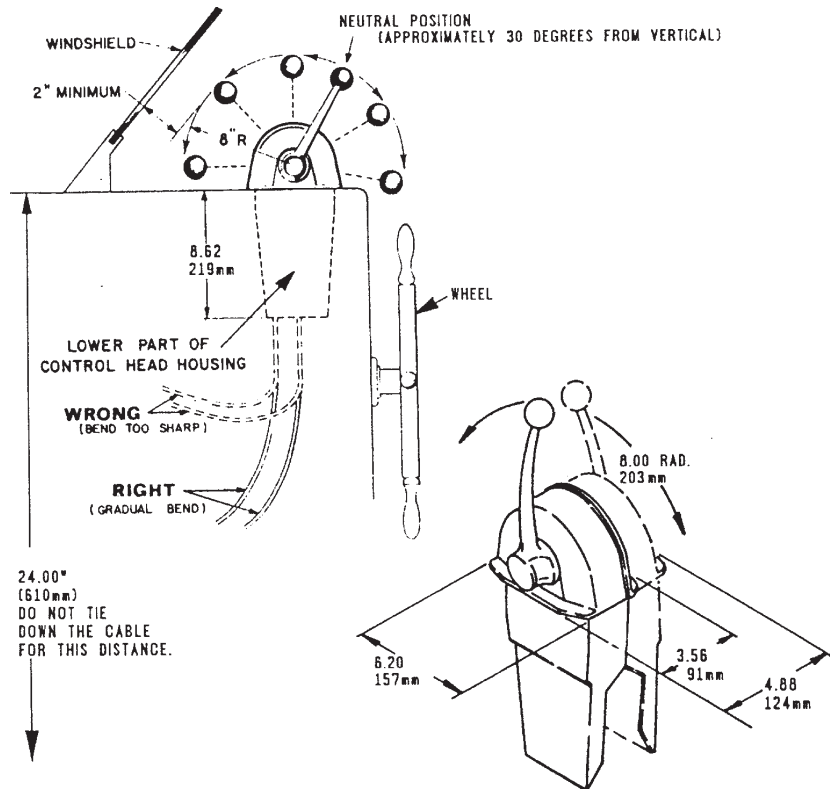
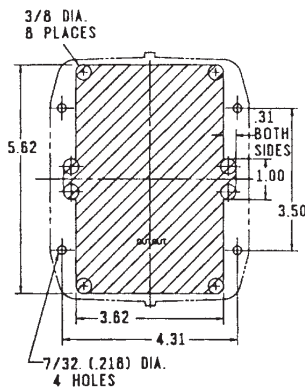
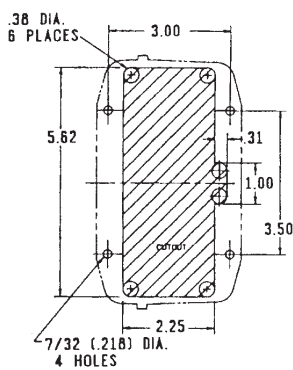
HUMCO ENGINE CONTROLS

Teleflex® Dual Function Controls



Controls are shown with levers in partial forward throttle positions. At neutral, the control levers are about 30° aft from vertical to provide more forward throttle lever arc.

MOUNTING CUTOUT DIMENSIONS:





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HUMCO ENGINE CONTROLS

Teleflex® Dual Function Controls



CH7841P
Pictured

CH7800 SERIES:

The ergonomics and features of our controls are the most advanced available and are suitable for most kinds of boat with dual engine applications. The shapely, balanced handle provides a very comfortable feel and the state of the art mechanism guarantees a smooth yet solid action, assuring you have maximum control at all times. This control is designed for twin engine applications. CH7800 controls are suitable for use with both universal type (3300) or OEM type control cables without the need for adaptation.

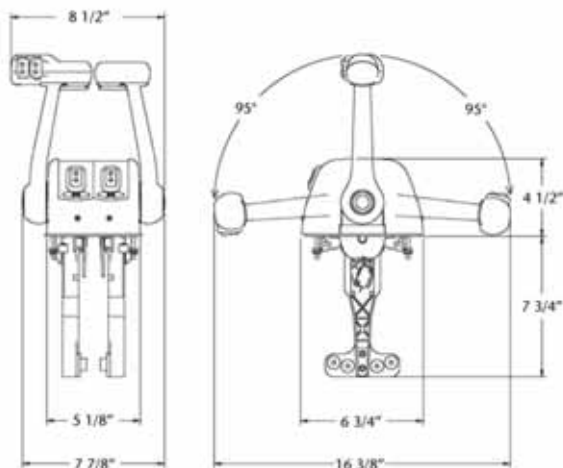
These controls not only use the 3300/33C style control cables they can also use Mercury style cables from 1965 to date including the Gen II, OMC/Johnson/Evinrude/BRP control cables from 1979 to date. This makes it one of the most desirable replacement controls in the market today.

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ENGINE CONTROLS	
Dual Top-Mount, Chrome Handles, Chrome Cover, Chrome and Black Inserts (without trim)	CH7840P
Dual Top-Mount, Chrome Handles, Chrome Cover, Chrome and Black Inserts, with Trim	CH7841P
Dual Top-Mount, Chrome Handles, Chrome Cover, Chrome and Black Inserts, with Trim & Tilt	CH7842P
SERVICE ITEMS	
Cable Nest And Connection Kit	212151-003

FEATURES:

- Superior feel and function for most outboards, stern drives & inboards.
- All controls include start in gear protection
- Designed for use with both universal and OEM shift and throttle cable connections
- Suitable for most boat/dual engine combinations
- Dual action levers (throttle and shift control in each handle)
- Trim, Tilt, options available
- Drag adjustment on all models
- Easy installation and set up
- Includes both chrome and black cover inserts that allow a choice of styling to ensure a perfect aesthetic fit in every application



Teleflex

Recommends Using

TFXTREME

Cables With This

Control

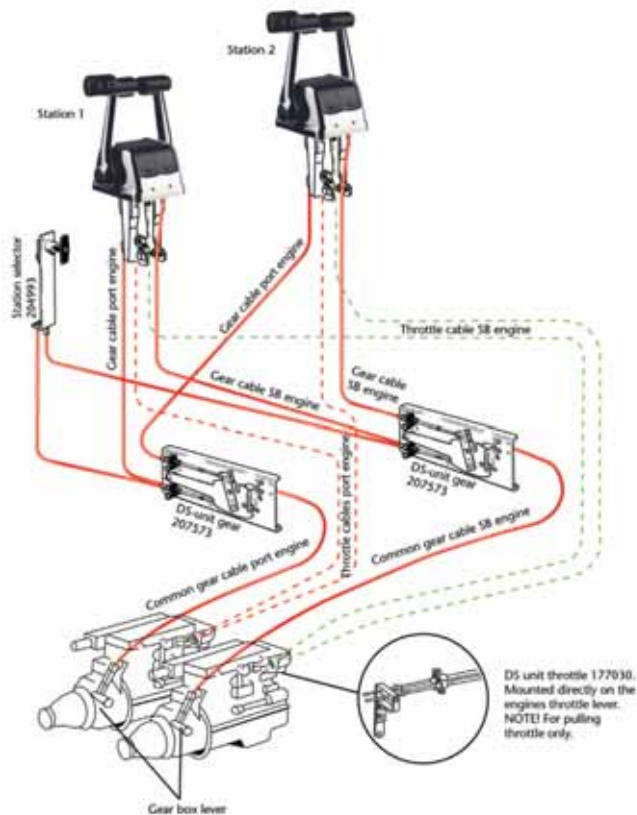
NOTE: When properly installed, these engine controls will connect to outboard, stern drive and inboard engines, utilizing Mercury/Mariner® and OMC® OEM type control cables as well as universal 3300/33C type cables and engine connection kits.



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HUMCO ENGINE CONTROLS

Teleflex® Dual Function Controls



DUAL ENGINE PICTURED

INBOARD OR STERNDRIVE DS UNIT:

The NEW DS unit is designed for those boaters that like using one lever to do both throttle and shift in their dual station boat. The Station Selector allows smooth operation of dual function controls in a dual station application.

APPLICATION:

The dual function DS unit is great for dual station boats without a lot of room on the dash or if you wanted to use side mounted controls in two stations. Just put both levers in neutral, turn the selector switch and you have changed stations. Teleflex recommends that you only use the **TFXTREME** 33C cable part number CCX633XX with the DS unit.

FEATURES:

- Dual function mechanical controls can be used in a dual station boat.
- Side mount controls can now be used in dual station boats.
- You only require one station selector for both a single engine or dual station boats.
- Using the recommended **TFXTREME** control cables allow smooth control operation.
- This DS throttle unit is a pull only set up. For a push throttle use the outboard DS throttle unit.

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SINGLE ENGINE DUAL STATION INBOARD OR STERNDRIVE			
QUANTITY	PART NUMBER	DESCRIPTION	NOTES
1	207573	DS GEAR UNIT	TWO CABLES IN ONE CABLE TO SHIFTER
1	204993	STATION SELECTOR UNIT	ONE CABLE FROM UNIT TO GEAR DS UNIT
1	177030	DS THROTTLE UNIT	TWO CABLES IN ONE CABLE TO THROTTLE
1	CCX633XX	CABLE TO GO FROM SELECTOR TO GEAR DS UNIT	XX = CABLE LENGTH IN FEET
1	CCX633XX	CABLE FROM STATION 1 TO GEAR DS UNIT	XX = CABLE LENGTH IN FEET
1	CCX633XX	CABLE FROM STATION 2 TO GEAR DS UNIT	XX = CABLE LENGTH IN FEET
1	CCX633XX	CABLE FROM GEAR UNIT TO TRANSMISSION	XX = CABLE LENGTH IN FEET
1	CCX633XX	CABLE FROM STATION 1 TO THROTTLE DS UNIT	XX = CABLE LENGTH IN FEET
1	CCX633XX	CABLE FROM STATION 2 TO THROTTLE DS UNIT	XX = CABLE LENGTH IN FEET
THE THROTTLE CABLES SHOULD BE A PULL TO ADVANCE THROTTLE SET UP OR USE THE OUTBOARD THROTTLE DS UNIT			
1 engine adapter kit for the control cables unless provided by the engine manufacturer			
1 DUAL ACTION CONTROL PER STATION = 2 TOTAL CONTROLS THAT MUST USE 3300/33C TFXTREME STYLE CONTROL CABLES CCX633XX			
DUAL ENGINE DUAL STATION INBOARD OR STERNDRIVE			
QUANTITY	PART NUMBER	DESCRIPTION	
2	207573	DS GEAR UNIT	
1	204993	STATION SELECTOR UNIT	
2	177030	DS THROTTLE UNIT	
2	CCX633XX	CABLE TO GO FROM SELECTOR TO GEAR DS UNITS	
1	CCX633XX	CABLE FROM PORT STATION 1 TO GEAR DS UNIT	
1	CCX633XX	CABLE FROM STARBOARD STATION 1 TO GEAR DS UNIT	
1	CCX633XX	CABLE FROM PORT STATION 2 TO GEAR DS UNIT	
1	CCX633XX	CABLE FROM STARBOARD STATION 2 TO GEAR DS UNIT	
2	CCX633XX	CABLE FROM GEAR DS UNITS TO TRANSMISSIONS	
1	CCX633XX	CABLE FROM PORT STATION 1 TO THROTTLE DS UNIT	
1	CCX633XX	CABLE FROM STARBOARD STATION 1 TO THROTTLE DS UNIT	
1	CCX633XX	CABLE FROM PORT STATION2 TO THROTTLE DS UNIT	
1	CCX633XX	CABLE FROM STARBOARD STATION 2 TO THROTTLE DS UNIT	
THE THROTTLE CABLES SHOULD BE A PULL TO ADVANCE THROTTLE SET UP OR USE THE OUTBOARD THROTTLE DS UNIT			
2 engine adapter kit for the control cables unless provided by the engine manufacturer			
1 DUAL ACTION TWIN LEVER CONTROL PER STATION = 2 TOTAL CONTROLS THAT MUST USE 3300/33C TFXTREME STYLE CONTROL CABLES CCX633XX			

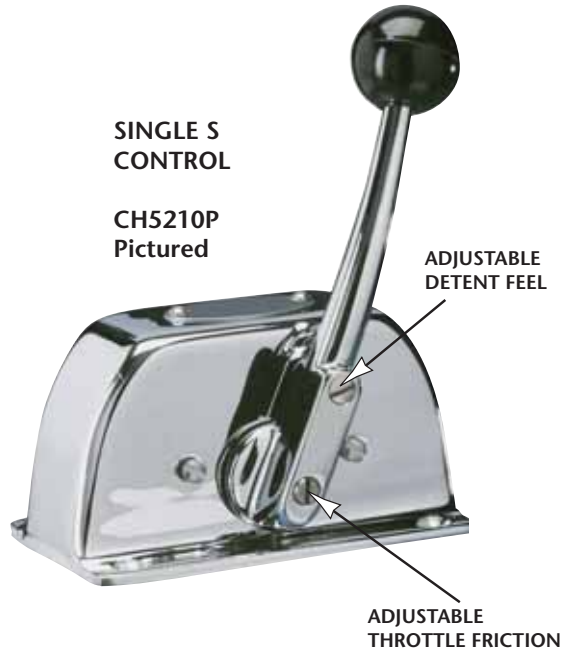
Teleflex
Recommends Using
TFXTREME
Cables With This
Control



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HUMCO ENGINE CONTROLS

Teleflex® Single Function Controls



SINGLE S CONTROL

CH5210P
Pictured

ADJUSTABLE
DETENT FEEL

ADJUSTABLE
THROTTLE FRICTION

SINGLE S (CH5210P) TWIN S (CH5200P):

This classic control is great for inboards, single or dual station. The time-proven design of Twin S means years of reliable operation. Accepts universal control cables. Optional lever extension, detent kits and neutral safety switch available. Additional hardware is required for twin station use.

APPLICATION:

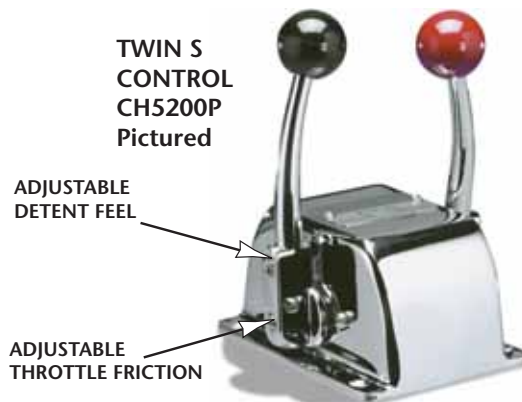
Single-function control — each lever controls throttle OR shift. Ideal for inboards, stern drives and outboards, the S controls are suitable for single or dual station use. These single function engine controls are available in both one or two-lever models. Both S controls use 3300 and 4300 type cables. Not suitable for use with Mercury® and OMC® OEM type control cables.

FEATURES:

- Highly polished stainless steel cover.
- Simple, rugged, compact design.
- Easily adjustable throttle friction and shift detent feel.
- Optional neutral safety switch to prevent starting in gear.
- Optional hand lever extension.
- Optional shift detent kit (if used in dual stations; use on main station only).
- Option throttle hold kit.
- Uses 3300 and 4300 type cables.
- Mechanical advantage - shift 2.77:1/throttle 2.77:1.
- Meets/exceeds all applicable industry standards.
- Teleflex Recommends Using **TFX™** Cables With This Control.

OPTIONS:

The Dual Station Transfer Unit from Teleflex Marine is recommended where long or difficult cable paths make parallel installations costly and/or difficult. When single function two lever controls are used in a parallel, dual station application, some installations may cause the clutch or throttle levers to operate "stiff". Adding a transfer unit can improve control performance in these cases.



TWIN S CONTROL
CH5200P
Pictured

ADJUSTABLE
DETENT FEEL

ADJUSTABLE
THROTTLE FRICTION

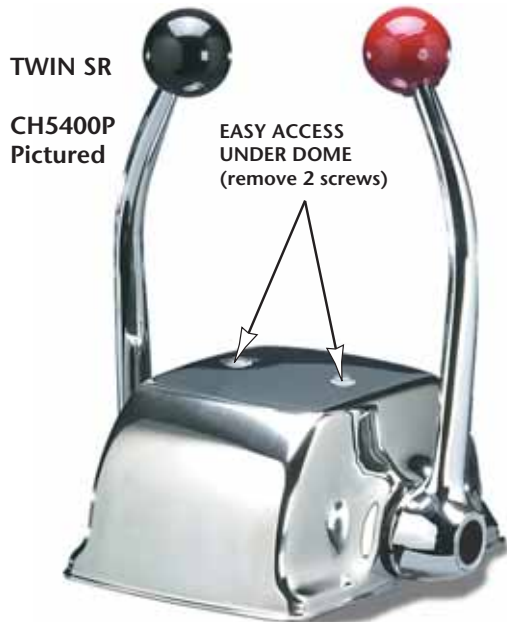
ENGINE CONTROLS	
Single S (Old No. 031002-001)	CH5210P
Twin S (Old No. 031001-001)	CH5200P
OPTIONS/SERVICE ITEMS	
Dual Station Transfer Unit	061371
Single S - Hardware & Bearing Kit 3300 Cables	CA67868P
Twin S - Hardware & Bearing Kit 3300 Cables	CA67869P
Single S - Handle Replacement	CA67866P
Twin S - Handle Replacement	CA67867P
Single S - Cover Replacement	CA67864P
Twin S - Bezel Replacement	CA67865P
Clutch Detent Kit	022328
In-Series Dual Station Kit, 30 Series (2 required for twin)	039489-002
In-Series Dual Station Kit, 40 Series (2 required for twin)	042152
Neutral Safety Switch Kit	047307
Lever Extension	036773
Throttle Hold Kit (one per lever, prevents throttle creep)	306997
Ball Knob, Red	035232-001
Ball Knob, Black	035232-004
Stainless Steel Throttle Knob (grooved)	CA69052P**
Stainless Steel Shift Knob (smooth)	CA69051P**
Cable Mounting Hardware Kit 3300, Twin	061001
Connection Kits (see Connection Kits section pages 424-427)	
** Fits most controls with 3/8-24 threaded levers.	



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HUMCO ENGINE CONTROLS

Teleflex® Single Function Controls



TWIN SR
CH5400P
Pictured

EASY ACCESS
UNDER DOME
(remove 2 screws)

TWIN SR (CH5400P):

Ideal for single and multiple station boats, SR Twin is rugged and made with the finest marine grade materials. Removable cover enables easy access to the mechanism. Includes adjustable brakes and stops. Accepts universal control cables. Optional detent kits and neutral safety switch available. Additional hardware is required for twin station use.

APPLICATION:

Single-function control — each lever controls throttle OR shift. Ideal for inboards, stern drives and outboards, Twin SR controls are suitable for single or dual stations and can utilize 3300/33C or 4300/43C type cables. Not suitable for use with Mercury® and OMC® OEM type control cables.

FEATURES:

- Polished stainless steel cover, marine grade chrome levers and rugged cast hanger plate.
- Removable cover enables easy access to the control mechanism.
- Adjustable brakes and stops.
- Optional neutral safety switch to prevent starting in gear.
- Optional shift detent kit (if used in dual stations; use on main station only).
- Uses 3300/33C and 4300/43C type cables.
- Mechanical advantage - shift 3.10:1/throttle 3.10:1.
- Meets/exceeds all applicable industry standards.
- Teleflex Recommends Using **TFX™** Cables With This Control.

OPTIONS:

The Dual Station Transfer Unit from Teleflex Marine is recommended where long or difficult cable paths make parallel installations costly and/or difficult. When single function two lever controls are used in a parallel, dual station application, some installations may cause the clutch or throttle levers to operate "stiff". Adding a transfer unit can improve control performance in these cases.

ENGINE CONTROLS	
Twin SR 2-lever control (Old No. 036469-001)	CH5400P
OPTIONS/SERVICE ITEMS	
Dual Station Transfer Unit	061371
Clutch Detent Kit	036774
In-Series Dual Station Kit, 30 Series (2 required for twin lever control)	039490-002
In-Series Dual Station Kit, 40 Series (2 required for twin)	048501-002
Neutral Safety Switch Kit	041117
Hand Lever (Chrome)	036326
Ball Knob, Red	4009912**
Ball Knob, Black	4009819**
Stainless Steel Throttle Knob (grooved)	CA69052P**
Stainless Steel Shift Knob (smooth)	CA69051P**
Replacement Stainless Steel Lever <small>(Fits Teleflex® CH5600 SLT and Twin SR controls only.)</small>	CA69060P
Mounting Hardware Kit, Twin	060991
Replacement Dome Cover, Twin	047682
Engine Connection Kits <small>(see Connection Kits section pages 424-427)</small>	
** Fits most controls with 3/8-24 threaded levers.	



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Teleflex® Single Function Controls



CH5600P
Pictured

EASY ACCESS
UNDER DOME
(remove screw
near each lever)

6

ENGINE CONTROLS	
SLT Top Mount Control	CH5600P
OPTIONS/SERVICE ITEMS	
Dual Station Transfer Unit	061371
Optional Neutral Safety Switch	CA69009P
Cable Attachment Hardware for 3300/33C Dual Station & Replacements	CA69022P
Replacement Red Knob	4009912**
Replacement Black Knob	4009819**
Stainless Steel Throttle Knob (grooved)	CA69052P**
Stainless Steel Shift Knob (smooth)	CA69051P**
(For replacement detent balls and springs, order CA68057P Hardware Kit for the CH4400 control.)	
Replacement Stainless Steel Lever (Fits Teleflex® CH5600 SLT and Morse® Twin SR controls only.)	CA69060P
Engine Connection Kits (see Connection Kits section pages 424-427)	
** Fits most controls with 3/8-24 threaded levers.	

SLT (CH5600P):

There's nothing else like it! Patented Self Locking Throttle technology makes the SLT the only control that stops cable creep and works flawlessly in single or in series multi-station applications. SLT stops unwanted control cable movement without the need for cable brakes or other friction devices that cause poor feel at the lever and negate the performance advantages of **TFXTREME** cables. Additional hardware is required for twin station use.

APPLICATION:

Single-function control — each lever controls throttle OR shift. For single or dual stations with single or twin engines (one control per engine per station utilizing an optional neutral safety switch kit). Uses 3300/33C type universal control cables. Not suitable for use with Mercury® and OMC® OEM type control cables.

FEATURES:

- Patented SLT technology prevents throttle creep. Lever stays where it is placed.
- Superior twin station performance.
- Polished Stainless Steel levers & dome.
- Positive detent for shifts.
- Can be user-configured as either Push or Pull to operate throttle and/or shift.
- Includes hardware for two 3300/33C type universal control cables.
- Easy-access adjustable shift detents/lever stops (under easily removable dome).
- Optional neutral safety switch.
- Meets/exceeds all applicable industry standards.
- Teleflex Recommends Using **TFXTREME** Cables With This Control.

OPTIONS:

The Dual Station Transfer Unit from Teleflex Marine is recommended where long or difficult cable paths make parallel installations costly and/or difficult. When single function two lever controls are used in a parallel, dual station application, some installations may cause the clutch or throttle levers to operate "stiff". Adding a transfer unit can improve control performance in these cases.