

Morse CH1700/7500/7600

Morse®

*(dual-function control
— each lever controls
throttle AND shift)*



premium engine control

(accepts these cables:)

OEM Types



OEM/Univ. 3300/33C Types



Universal 3300/33C Types



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.

**Cut-off switches normally function as follows (without lanyard installed on switch): Inboard and Stern Drive - switch open; Outboard - switch closed.*

Cut-off switch is not available for top mount controls.

Applications:

For single station use with nearly any engine.

Features:

- **Superior feel and function** for most outboards, stern drives & inboards.
- Side and top mount single-lever versions.
- Dual function lever controls both throttle and shift of one engine.
- Neutral interlock and start-in-gear protection (*available even on top mounts!*)
- Optional Trim in the handle for each model. No relay required.
- Neutral engine warm-up feature.
- Tilt switch available for each model.
- Optional, lanyard-style cut-off switch for emergency engine shutdown. (Available for CH1700 models.)*
- Friction adjustment feature included.
- “Easy-On” cable design accepts virtually every type of OEM and 3300/33C type cable.
- Easily adapted to push or pull cable actuation mode.
- Mechanical advantage 2.38:1
- Meets/exceeds all applicable standards.
- Made in the U.S.A.



CONTROLS dual function

mechanical control, most engines, single stations

CH1700



CH1700-000010

CH1700-002010
(with optional trim switch)



CH1700-202010
(with optional trim switch)

CH1700-200010

CH7500



CH7500-000000

CH7500-010110



CH7500-200000

CH7500-210110

CH7600



CH7600-200000

CH7600-210110

PART NUMBER	COLOR SET: HANDLE/COVER/INSERT(S)	TILT SWITCH	CUT-OFF SWITCH	TRIM SWITCH	NEUTRAL INTERLOCK
CH1700 CONTROL HEADS (SIDE MOUNT):					
CH1700-000000	Black Handle, Black Cover, Black Inserts	No	No	No	Yes
CH1700-000010	Black Handle, Black Cover, Black Inserts	No	No	Yes	Yes
CH1700-002010	Black Handle, Black Cover, Black Inserts	No	Yes - OB	Yes	Yes
CH1700-010010	Black Handle, Black Cover, Black Inserts	Yes	No	Yes	Yes
CH1700-011010	Black Handle, Black Cover, Black Inserts	Yes	Yes - I/O & Inboard	Yes	Yes
CH1700-200000	Chrome Handle, Black Cover, Chrome Inserts	No	No	No	Yes
CH1700-200010	Chrome Handle, Black Cover, Chrome Inserts	No	No	Yes	Yes
CH1700-202010	Chrome Handle, Black Cover, Chrome Inserts	No	Yes - OB	Yes	Yes
CH1700-210010	Chrome Handle, Black Cover, Chrome Inserts	Yes	No	Yes	Yes
CH1700-211010	Chrome Handle, Black Cover, Chrome Inserts	Yes	Yes - I/O & Inboard	Yes	Yes
CH7500 CONTROL HEADS (TOP MOUNT - LEVER ON THE RIGHT):					
CH7500-000000	Black Handle, Chrome Cover, Black Insert	No	No	No	No
CH7500-000100	Black Handle, Chrome Cover, Black Insert	No	No	No	Yes
CH7500-000010	Black Handle, Chrome Cover, Black Insert	No	No	Yes	No
CH7500-000110	Black Handle, Chrome Cover, Black Insert	No	No	Yes	Yes
CH7500-010010	Black Handle, Chrome Cover, Black Insert	Yes	No	Yes	No
CH7500-010110	Black Handle, Chrome Cover, Black Insert	Yes	No	Yes	Yes
CH7500-200000	Chrome Handle, Chrome Cover, Chrome Insert	No	No	No	No
CH7500-200100	Chrome Handle, Chrome Cover, Chrome Insert	No	No	No	Yes
CH7500-200010	Chrome Handle, Chrome Cover, Chrome Insert	No	No	Yes	No
CH7500-200110	Chrome Handle, Chrome Cover, Chrome Insert	No	No	Yes	Yes
CH7500-210010	Chrome Handle, Chrome Cover, Chrome Insert	Yes	No	Yes	No
CH7500-210110	Chrome Handle, Chrome Cover, Chrome Insert	Yes	No	Yes	Yes
CH7600 CONTROL HEADS (TOP MOUNT - LEVER ON THE LEFT):					
CH7600-000000	Black Handle, Chrome Cover, Black Insert	No	No	No	No
CH7600-000100	Black Handle, Chrome Cover, Black Insert	No	No	No	Yes
CH7600-000010	Black Handle, Chrome Cover, Black Insert	No	No	Yes	No
CH7600-000110	Black Handle, Chrome Cover, Black Insert	No	No	Yes	Yes
CH7600-010010	Black Handle, Chrome Cover, Black Insert	Yes	No	Yes	No
CH7600-010110	Black Handle, Chrome Cover, Black Insert	Yes	No	Yes	Yes
CH7600-200000	Chrome Handle, Chrome Cover, Chrome Insert	No	No	No	No
CH7600-200100	Chrome Handle, Chrome Cover, Chrome Insert	No	No	No	Yes
CH7600-200010	Chrome Handle, Chrome Cover, Chrome Insert	No	No	Yes	No
CH7600-200110	Chrome Handle, Chrome Cover, Chrome Insert	No	No	Yes	Yes
CH7600-210010	Chrome Handle, Chrome Cover, Chrome Insert	Yes	No	Yes	No
CH7600-210110	Chrome Handle, Chrome Cover, Chrome Insert	Yes	No	Yes	Yes

NOTES:

Part Numbers in **Bold** are "TOP CHOICE" models with popular combinations of features.

These controls can be wired directly into the engine manufacturer's trim/tilt control circuit(s).

Follow engine manufacturer's recommendations for trim/tilt wiring.

QUESTIONS? CALL TECH SUPPORT AT 610-495-7011.

Service Items:

Dome Cover-CH7500/CH7600-Chrome	7214113
Insert Kit-CH1700-Black (no switch holes)	7213111
Insert Kit CH7500-with & w/o Tilt hole-Black (2 inserts)	7214518
Insert Kit CH1700-Chrome (no switch holes)	7213017
Insert Kit CH7500-with & w/o Tilt hole-Chrome (2 inserts)	7214311
Neutral Warm-up Button Kit-CH1700	7213214

Neutral Warm-up Button Kit-CH7500/CH7600	7214715
Tilt Switch-CH1700-w/Chrome & Black Insert Kit	7206215
Tilt Switch-CH75/7600-w/Chrome & Black Insert Kit	7206216
Outboard Cutoff Switch-CH1700	
with Chrome & Black Insert Kit	7206212
Stern Drive (I/O) and Inboard Cutoff Switch-CH1700	
with Chrome & Black Insert Kit	7206211
Cable Nest And Connection Kit	212151-001
<i>(Mounts 3300/33C and BRP/OMC/Johnson/Evinrude/Merc/Mariner/Force OEM type cables to control.)</i>	

Morse SL-3 controls

Morse®



*(dual-function control
— each lever controls
throttle AND shift)*

The SL-3 is ideal for most boats. Offered in four styles, it's a snap to install — without needing control modifications or tedious cable adjustments. And it accepts nearly every type of cable!

(accepts these cables:)

OEM Types



OEM/Univ. 3300/33C Types



Universal 3300/33C Types



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.*

(May require purchase of cable connection kit(s) to complete control system installation.)

Applications:

For single station use with nearly any engine.

Features:

- Four styles: single and twin lever topmounts + sidemount with and without cut-off switch.
- Firm yet effortless shift and throttle motion.
- Entire gear mechanism is enclosed and permanently lubricated for long-lasting, smooth operation.
- Port or starboard installation with various cable entry angles.
- Easily adapted to push or pull the cables.
- “Easy-On” cable design means no shift or throttle adjustments, no control modifications, and accepts virtually every type of cable.
- Push button for neutral engine warm-up.
- Trim switch in handle grip for one-hand operation.
- Neutral safety switch prevents starting in gear.
- Adjustable brake prevents throttle creep.
- Mechanical advantage 2.38:1.
- Meets/exceeds all applicable standards.

mechanical control, most engines, single stations

Engine Controls:

SL-3 TOP MOUNT SINGLE LEVER



SL-3 TOP MOUNT DUAL LEVER



SL-3 SIDE MOUNT WITH CUTOFF SWITCH



SL-3 SIDE MOUNT

ITEM DESCRIPTION	TRIM	TILT	CUT-OFF	PART #	NOTES
SL-3 TOP MOUNT SINGLE LEVER:					
Top Mount Standard	NO	NO	NO	309476	
Top Mount Deluxe	YES	NO	NO	309477	
Top Mount Single Deluxe	YES	YES	NO	309478-001	(5 wire - Volvo)
Top Mount Sgl. Deluxe	YES	YES	NO	309478-002	(4 wire - non-Volvo)
SL-3 TOP MOUNT TWIN LEVER:					
Top Mount Standard	NO	NO	NO	309479	
Top Mount Twin Deluxe	YES	NO	NO	309480	
Top Mount Twin Deluxe	YES	YES	NO	309481	
SL-3 SIDE MOUNT:					
Side Mount Standard	NO	NO	NO	309473	
Side Mount Deluxe	YES	NO	NO	309474	
Side Mount Deluxe	YES	YES	NO	309475-001	(5 wire - Volvo)
Side Mount Deluxe	YES	YES	NO	309475-002	(4 wire - non-Volvo)
SL-3 SIDE MOUNT SINGLE LEVER WITH CUT-OFF SWITCH (OUTBOARD):					
Side Mount Standard	NO	NO	YES	311322-002	
Side Mount Deluxe	YES	NO	YES	311323-002	
Side Mount Deluxe	YES	YES	YES	311324-002	(5 wire - Volvo)
Side Mount Deluxe	YES	YES	YES	311325-002	(4 wire - non-Volvo)
SL-3 SIDE MOUNT SINGLE LEVER WITH CUT-OFF SWITCH (STERN DRIVE AND INBOARD):					
Side Mount Standard	NO	NO	YES	311322-001	
Side Mount Deluxe	YES	NO	YES	311323-001	
Side Mount Deluxe	YES	YES	YES	311324-001	(5 wire - Volvo)
Side Mount Deluxe	YES	YES	YES	311325-001	(4 wire - non-Volvo)
NOTES:					
Check with Engine Manufacturer for Trim and Tilt circuit information.					
QUESTIONS? CALL TECH SUPPORT AT 610-495-7011.					

Cut-off Switch w/Cover (side mt.) 311380-001
 Cut-off Switch Only (side mount) 311379-001
 Neutral Safety Switch 051801-033

REPLACEMENT PARTS KITS INCLUDE BEZEL COVER, HAND GRIP AND NEUTRAL WARM-UP BUTTON:

Top Mount (Single) replace. parts kit 316941
 Top Mount (Twin) replace. parts kit 316942
 Side Mount replacement parts kit 317002
 Side Mount replacement parts kit (with cutoff switch) 317003

PLEASE NOTE: Control levers are NOT sold separately.

Cable Nest Kit & Connection Kit 212151-001

(Mounts 3300/33C and BRP/OMC/Johnson/Evinrude/Merc/Mariner/Force OEM type cables to control.)

Options/Service Items:

Trim Switch Kit 315590
 Side Mount Tilt Switch/wire harness 309509
 Top Mount Tilt Switch/wire harness 309514
 Lanyard for Cut-off Switch (side mount) . 311376



Morse CH2600/2700 controls

Morse®



*(dual-function control
— each lever controls
throttle AND shift)*

Universal Outboard Side Mount Control.

This economical single lever, dual function control features positive shift detents, an optional engine trim switch in the handle and easy installation. (Mounts to gunwale surface — no hole cutout required.)

It's an excellent replacement for both outboard and stern drive controls using universal (3300/33C type) cables only.

(accepts these cables:)

OEM/Univ. 3300/33C Types



Universal 3300/33C Types



Applications:

Virtually all single-station outboards and stern drives with mechanical transmissions. Single lever, dual action design controls throttle and shift with one lever. Utilizes 3300/33C type “universal” engine control cables only.

Not suitable for use with Mercury® and OMC® OEM type control cables.

Features:

- Single lever, dual action for throttle & shift.
- Surface mount design for quick, tidy installation.
- Includes neutral warm up capability.
- Includes hardware for two 3300/33C control cables.
- Positive shift detents and neutral lock-out.
- Optional engine trim switch in handle.
- Optional neutral safety switch.
- Weatherproof exterior, rugged die cast frame.
- Meets/exceeds all applicable industry standards.

NOTE: *When properly installed, these engine controls will connect to outboard, stern drive and inboard engines, utilizing universal 3300/33C type cables and engine connection kits. (These controls are not designed to use Mercury/Mariner® and OMC® OEM type control cables that have “eye” terminals at the control end of the cable.)*

(May require purchase of cable connection kit(s) to complete control system installation.)

mechanical control, most engines, single stations

Engine Control:

Side Mount (no Trim Switch) CH2600P

Side Mount with Trim Switch CH2700P

NEUTRAL
INTERLOCK
RELEASE
(lift to release)

CH2600P

NEUTRAL
WARM-UP
BUTTON
(push)

NEUTRAL
INTERLOCK
RELEASE
(lift to release)

TRIM
CONTROL
IN HANDLE

CH2700P
(with trim)

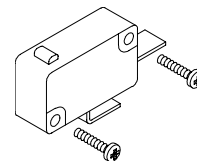
NEUTRAL
WARM-UP
BUTTON
(push)

Options/Service Items:

Optional Neutral Safety Switch.....CA27090P

Connection Kits .. (see Connection Kits section)

CA27090P



Morse MT-3 controls

Morse®



*(dual-function control
— each lever controls
throttle AND shift)*

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.

(accepts these cables:)

OEM/Univ. 3300/33C Types



Universal 3300/33C Types



*Universal 4300/43 Types**



*(*MT-3 single lever only)*

Applications:

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.
- Mechanical advantage - shift 2.77:1/throttle 3.57:1.
- Meets/exceeds all applicable industry standards.

Engine throttle warm-up is done by pulling out the hand levers in the neutral position. This disengages the clutch and allows throttle to be advanced in neutral. Returning to neutral detent re-engages clutch.

NOTE: When properly installed, these engine controls will connect to outboard, stern drive and inboard engines, utilizing universal 3300/33C and 4300/43 type cables and engine connection kits. (These controls are not designed to use Mercury/Mariner® and OMC® OEM type control cables that have “eye” terminals at the control end of the cable.)

4300/43 type cables cannot to be used on MT-3 Twin, as interference will occur.

(May require purchase of cable connection kit(s) to complete control system installation.)

CONTROLS dual function

mechanical control, most engines, single stations

Engine Control:

SINGLE LEVER:

MT-3 Single 308601

TWIN LEVER:

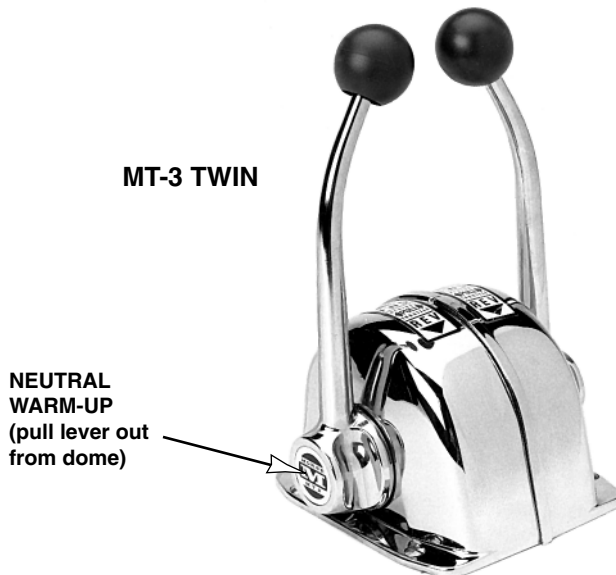
MT-3 Twin 308602

MT-3 SINGLE



NEUTRAL WARM-UP (pull lever out from dome)

MT-3 TWIN



NEUTRAL WARM-UP (pull lever out from dome)

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.

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
Decal, FWD-NEU-REV 038853

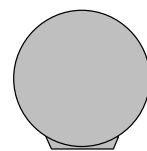
Hardware Kit for MT-3 single lever 308599
Hardware Kit for MT-3 twin lever 308727

OMC Replacement Switch for Sterndrive (available for MT-2 only) 301585

43 Cable Heavy Duty Connection Kit 308742
(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.)

Connection Kits .. (see Connection Kits section)

4009912



CA69052P



NOTE: 4300/43 type cables cannot to be used on MT-3 Twin, as interference will occur.

Morse CH2200/2300 controls

Morse®



*(dual-function control
— each lever controls
throttle AND shift)*

Considered the best by boat builders, these controls feature superior styling, a compact design, positive lockout and smoothest feel available — and they're standard equipment on ski and jet boats. The ski boat unit includes superior neutral warm-up action, while the jet boat version features a waterproof start-in-gear switch.

(accepts these cables:)

OEM/Univ. 3300/33C Types



Universal 3300/33C Types



*Any Jet Throttle or Gate
Cable with 10-32 threaded
connection at control*

Applications:

Ski version: inboard ski boats and other single station craft requiring super-smooth, precise throttle control.

Jet version: jet boats powered by Mercury® Sport Jet 90 & early 120, OMC® Turbo Jet, or similar propulsion systems.

Single lever, dual action design controls both throttle and shift with one lever using 3300/33C type cables.

Features:

- Single lever, dual action for throttle & shift.
- Superior neutral engine warm-up control (ski version).
- Flush mount design for quick, tidy installation.
- Includes hardware for two 3300/33C type cables.
- Crisp shifting ball grip for a solid, sure feel.
- Neutral safety switches:
 - Optional for ski version;
 - Waterproof type included with jet version.
- Weatherproof exterior, rugged diecast frame.
- Meets/exceeds all applicable industry standards.

NOTE: When properly installed, these engine controls will connect to outboard, stern drive and inboard engines, utilizing universal 3300/33C type cables and engine connection kits. (These controls are not designed to use Mercury/Mariner® and OMC® OEM type control cables that have “eye” terminals at the control end of the cable.) Not for Berkeley, Sport Jet 175 or other applications using 4300/43 type cables. For those applications, see the MV-3 control pages, after these.

(May require purchase of cable connection kit(s) to complete control system installation.)

mechanical control, most ski boat and jet applications

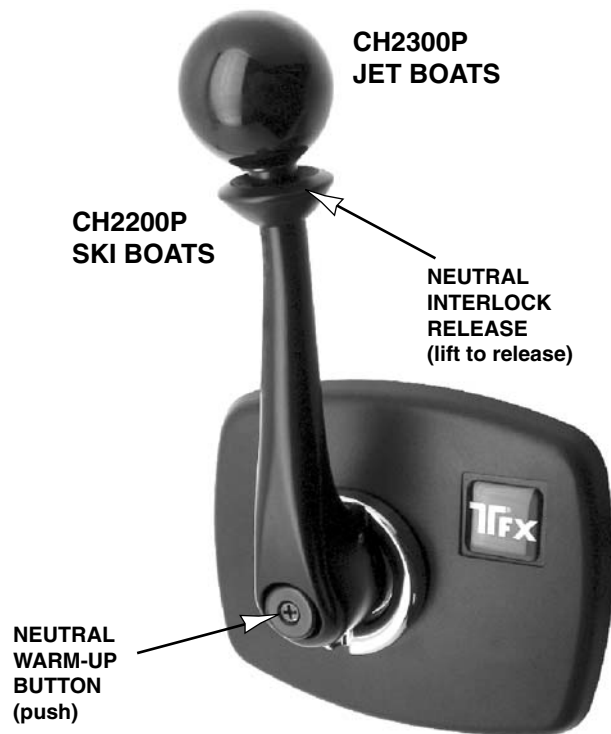
Engine Control:

SKI BOAT CONTROL:

Side Mount Ski Boat Control CH2200P

JET BOAT CONTROL:

Side Mount Jet Boat Control..... CH2300P



Options/Service Items:

CH2200 SKI

Optional Neutral Safety Switch (Ski) .CA27090P

CH2300 JET

Neutral Safety Switch (Jet)CA27100P

CH2200 OR CH2300:

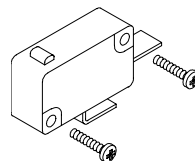
Stainless Steel Knob (red-grooved)...CA69052P

Stainless Steel Knob (smooth)CA69051P

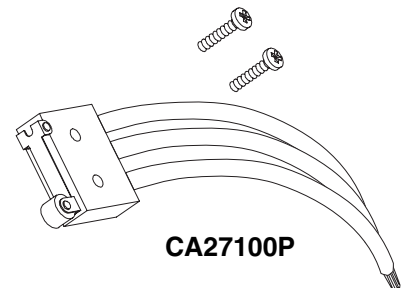
Cable Connection Kits (See Connection Kits and Jet Boat Steering sections.)

NOTE: Correct Craft® installations of the CH2200 control use a proprietary mounting arrangement. Please contact Correct Craft when servicing this control.

CA27090P



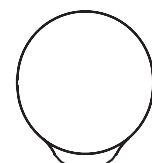
CA27100P



CA69052P



CA69051P



Please note that while the CH2200 and CH2300 are similar in appearance, they have different neutral safety switches and internal mechanisms.

They are NOT interchangeable. Do not substitute CH2200 for CH2300 or vice-versa.

If you need assistance with these products, please contact Teleflex Marine Technical Service at 610-495-7011 or on-line at www.teleflexmarine.com

Morse MV-3 controls

Morse®



premium engine control

(accepts these cables:)

OEM/Univ. 3300/33C Types



Universal 3300/33C Types



Universal 4300/43 Types



NOTE: When properly installed, these engine controls will connect to outboard, stern drive and inboard engines, utilizing universal 3300/33C and 4300/43 type cables, Mercury® SportJet® cables and engine connection kits. (These controls are not designed to use Mercury/Mariner® and OMC® OEM type control cables that have “eye” terminals at the control end of the cable.)

(May require purchase of cable connection kit(s) to complete control system installation.)

*(dual-function control
— each lever controls
throttle AND shift)*

The MV-3 offers style and incredible versatility in a dual-function, single-lever control. Several models are offered for outboards, stern drives, inboards, ski boats and jets, including versions with a lanyard-type emergency cut-off switch.

Applications:

Ideal for many outboards, stern drives and inboards, with specialized versions for ski and jet boats. Single lever, dual action units control throttle and shift with one lever, using 3300/33C or 4300/43 type control cables. *Not suitable for use with Mercury® and OMC® OEM type control cables.*

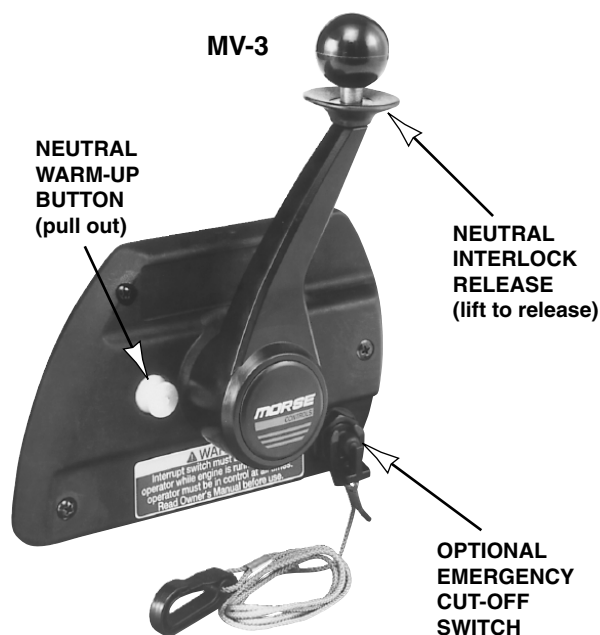
Features:

- Specially styled for today's integrated cockpit.
- Fits all popular outboards, inboards and sterndrives.
- Emergency cut-off feature available for most popular MV-3 models.
- Crisp, positive detents.
- Pullout clutch disengagement feature for engine warm-up with automatic disengagement.
- Neutral interlock feature to prevent accidental shifting.
- Mechanical advantage - Shift 2.9:1 / Throttle 3.20:1.
- Uses 3300/33C and 4300/43 type cables.
- Can be used for Berkeley Jet (with 4300/43 type cables) and Mercury 175 HP Sport Jet (with special cable noted on next page).
- Meets/exceeds all applicable industry standards.

mechanical control, ski boat, jet. outboard, stern drive

ITEM DESCRIPTION	LEFT/RIGHT HAND ORIENTATION	FORWARD/AFT CABLE ENTRY	NEUTRAL SAFETY SWITCH	IMMERSIBLE NEU. SAFETY SWITCH	EMERG. CUT-OFF SWITCH	THROTTLE LIMITER	MV-3 CONTROL PART #
MV-3 STANDARD FOR OUTBOARD, STERN DRIVE OR INBOARD:							
MV-3 Standard Control	RH	AFT	YES	NO	NO	NO	311364
MV-3 Standard Control	RH	AFT	NO	YES	NO	YES	311481
MV-3 Standard Control	RH	AFT	YES	NO	NO	NO	311480
MV-3 FOR OUTBOARD:							
MV-3 Competition Ski Boat	RH	FORWARD	NO	YES	YES	NO	311335-002
MV-3 FOR STERN DRIVE AND INBOARD:							
MV-3 Competition Ski Boat	RH	FORWARD	NO	NO	YES	NO	311335-001
MV-3 COMPETITION SKI BOAT:							
MV-3 Competition Ski Boat	RH	FORWARD	NO	NO	NO	NO	311335
MV-3 Competition Ski Boat	RH	FORWARD	NO	YES	YES	NO	311335-002
MV-3 FOR JET:							
Berkeley & some others:							
MV-3 Jet Control (Berkeley)	RH	AFT	NO	NO	NO	NO	311412
MV-3 Jet Control (Berkeley)	RH	AFT	NO	YES	YES	NO	311364-002
MV-3 Jet Control (Berkeley)	LH	FORWARD	NO	NO	NO	NO	311413
Mercury Sport Jet 90/120 & BRP/OMC Turbo Jet:							
MV-3 Jet Control (Merc/BRP/OMC)	RH	AFT	NO	YES	NO	YES	311415
MV-3 Jet Control (Merc/BRP/OMC)	RH	AFT	NO	YES	YES	YES	311415-002
MV-3 Jet Control (Merc/BRP/OMC)	RH	FORWARD	NO	YES	NO	YES	311414
MV-3 Jet Control (Merc/BRP/OMC)	RH	FORWARD	NO	YES	YES	YES	311414-002
Mercury Sport Jet 175 (uses special 4300 cable for reverse gate):							
MV-3 HD Control (Merc 175)	RH	AFT	NO	YES	YES	YES	311508-002
MV-3 HD Control (Merc 175)	RH	FORWARD	NO	YES	NO	YES	311508
NOTES:							
Check with Engine/Drive Manufacturer for details particular to your power train.							
QUESTIONS? CALL TECH SUPPORT AT 941-907-1000, EXT. 8222.							

CONTROLS dual function



Options/Service Items:

- Ball Knob, Black 4009819
- MV-3 Hand Lever Assembly 311354
- Neutral Safety Switch Replacement..... 300928
- OMC Replacement Shift Switch Only..... 301585
- Immersible Neutral Safety Switch for Jet..... 051801-031
- MV-3 Emergency Cut-Off Switch Kit for Jet and Outboard..... 311482-002
- MV-3 Emergency Cut-Off Switch Kit for I/O and Inboard 311482-001
- Cable Connection Kits (See Connection Kits and Jet Boat Steering sections.)