Morse KE-4a controls





premium engine control

(accepts these cables:)
Universal 3300/33C Types

Use KE-4a if . . .

- There are more than 2 stations.
- Throttle and Shift are actuated mechanically (KE-4a has no electronic throttle interface).
- Trolling valve control required.
- Throttle Sync only is needed.
- Electrical system is 12 or 24 volt.
- Hand-held remote desired.
- CANBus interface is not needed. (If needed, see i6000.)

NOTE: When properly installed, these engine controls will connect to outboard, stern drive and inboard engines, utilizing an electronic interface, universal 3300/33C type cables and appropriate engine connection kits.

The boat's original mechanical control and 3300/33C cables (if so equipped) can be reused for the "get home" (emergency back-up) feature. The back-up control does not have to be mounted, but be certain that the cables used with this control are long enough so that the control can be operated from the steering station.

(electronic control– each lever controlsthrottle AND shift)

The KE-4 set the standard for reliability in marine electronic controls. Its simplicity and proven design make it the choice for most multi-station/multi-engine control pleasure and work boats. KE-4a controls are available in either single or twin lever binnacle mount versions for single or multiple stations and up to two engines.

Applications:

Electronic stand-alone controls are ideal for larger, multi-station boats, especially those applications in which a mechanical control cannot deliver the desired feel and performance. For nearly all engine types.

Features:

- Works with most engines: outboard, stern drive or inboard.
- Single or twin engine control; dual function for each lever.
- Up to 4 control heads.
- Optional hand-held remote control: great for docking and fishing!
- Built-in Station Select switch.
- Engine Sync option available.
- Gear shift delay available.
- Neutral engine warm-up provision.
- Mechanical backup (easy to use "get home" system).
- Built-in overload protection & diagnostics.
- Visual failure alarm standard (audio alarm optional).
- Uses standard 3300/33C type control cables on throttle/shift actuator.
- Easy to install. Plug-in connectors.
- 12 and 24 volt capability.
- Meets/exceeds all applicable industry standards.



PART #

See next pages

See next pages

NM0165-00

NM0619-05

See next pages

See next pages

See next pages

See next pages

KE-4a
Engine
Controls
Basic
Ordering
Guide:

KE-4a TOP MOUNT



NM0414-28 2 PER CONTROL UNIT **5 METER POWER** SUPPLY HARNESS **OR** 10 METER POWER NM0414-33 2 PER CONTROL UNIT SUPPLY HARNESS 2 PER CONTROL UNIT RECOMMENDED OPTION 20 AMP CIRCUIT BREAKER NJ0514-00 **BUZZER** (12 or 24 VDC) See next pages 3300/33C SERIES CONTROL CABLE CC633XX CC633XX RECOMMENDED **OPTIONAL UPGRADES:** HAND HELD REMOTE: HAND HELD CONTROL KIT NM0906-00 TWIN ENGINE (26' WIRE) HAND HELD CONTROL KIT NM0907-00 SINGLE ENGINE (26' WIRE) REMOTE CONTROL HARNESS NM0616-XX XX=LENGTH IN METERS **RELAY KIT (ENGINE CUT-OFF)** (12 or 24 VDC) SUGGESTED MANUAL "GET HOME" BACKUP SYSTEM:

QTY.

NOTES

(SINGLE OR TWIN ENGINE)

(12 or 24 VDC)

FOR TWIN ENGINE BOATS ONLY

CONTROL STATION 1 (IN METERS)

CONTROL STATION 2 (IN METERS)
CONTROL STATION 3 (IN METERS)

CONTROL STATION 4 (IN METERS)

3300/33C SERIES CONTROL CABLES (2 PER ENGINE - 1 FOR THROTTLE, 1 FOR SHIFT)
MECHANICAL CONTROL (ONE SINGLE FUNCTION TWIN LEVER CONTROL PER ENGINE, ONE DUAL FUNCTION
SINGLE LEVER CONTROL PER ENGINE OR ONE DUAL FUNCTION TWIN LEVER CONTROL FOR TWIN ENGINES)

NOTES:

ITEM DESCRIPTION

BASIC SYSTEM COMPONENTS: CONTROL HEAD - GOLD FINISH

ELECTRONIC CONTROL UNIT

THROTTLE/SHIFT ACTUATOR

COMMUNICATION HARNESS

REMOTE CONTROL HARNESS

REMOTE CONTROL HARNESS

REMOTE CONTROL HARNESS

REMOTE CONTROL HARNESS

Controls listed have popular gold tone finish. Several other finishes available. Contact Teleflex Marine for details. All Wiring harnesses are measured in meters (1 meter = 39.37 inches).

XX = Control cable length in feet. Teleflex Control Cables are measured by the foot. For Morse, XXX = inches. Check with Engine Manufacturer for Engine Output information.

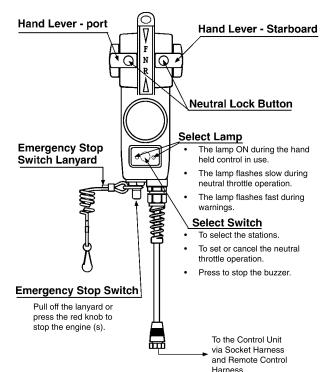
QUESTIONS? CALL TECH SUPPORT AT 610-495-7011.



Hand Held Remote Control Overview:



CONTROL

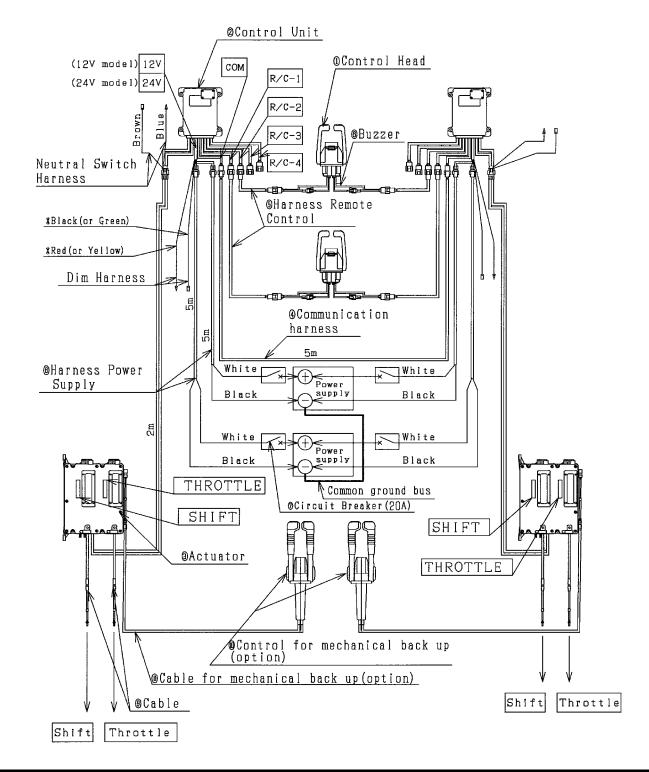


Morse KE-4a controls

Basic KE-4a System Overview:

The following schematic shows elements of the KE-4a control system in a typical twin engine/twin station application. For part numbers associated with the items depicted below, please see the page at right.

☐☐ :Indicates identification☐☐ :Indicates the destination of connection





KE-4a System Components:

The following chart lists components of the KE-4a control system for each application. For an illustration of each component, please see the page at left.

СОПР	orient, piec	ase see the po	age at loft.										
No.	Name		Part No.	Required for Single engine No. of Station 1st 2nd 3rd 4th				Required for Two engine No. of Station 1st 2nd 3rd 4th				Notes	
1	Control Head-	Single Engine	NM0511-00	1	2	3	4		-	-	-	-	
	Control Head-Twin Engine		NM0510-00	-	-	-	-		1	2	3	4	
2	Control Unit		NIN 40 470 00						_		•		
		24V model	NM0478-00	1	1	1	1		2	2	2	2	
2	12V model		NM0477-00	1	1	1	1		2	2	2	2	
3 4	Throttle/Shift Actuator Communication		NM0165-00		ı	ı	ı		2	2	2	2	
4	Harness	5m	NM0619-05	_	_	_	_		1	1	1	1	
5	Harness -	4m	NM0616-04	_	_	_	_		'	'	'		
3	Remote Control	6m	NM0616-06										
		8m	NM0616-08										
		10m	NM0616-10										
		12m	NM0616-12										
		14m	NM0616-14										
		16m	NM0616-16										
		18m	NM0616-18										
		20m	NM0616-20										
		22m	NM0616-22	1	2	3	4		2	4	6	8	
		24m	NM0616-24										
		26m	NM0616-26										
		28m	NM0616-28										
		30m	NM0616-30										
		32m	NM0616-32										
		34m	NM0616-34										
		36m	NM0616-36										
		38m	NM0616-38										
		40m	NM0616-40										
		50m	NM0616-50										
6	Harness - Power	5m 10m	NM0414-28 NM0414-33	2	2	2	2		4	4	4	4	
7	Circuit												
	Breaker	20A	NJ0514-00	2	2	2	2		4	4	4	4	Option
8	Buzzer	24V model	NJ0515-00	1	2	3	4		2	4	6	8	Option
9	Cable	12V model NJ0596-00 (replaces NJ0251-00) 33C											
	(actuator)		33C Supreme 3300CC TFXTREME	2	2	2	2		4	4	4	4	Specify cable length
10	Mechanical Control Head (for manual backup operation)		Use standard Morse control head	1	1	1	1		2	2	2	2	Option
11	Cable (for manual backup operation)		33C 33C Supreme 3300CC TFXTREME	2	2	2	2		4	4	4	4	Specify cable length
			JJUUGO II A ITILINE										

NOTES:

Please refer to the NAME OF EACH PART on previous page for the item number in chart above.

All Wiring harnesses are measured in meters (1 meter = 39.37 inches).

CC633XX is recommended. Teleflex Control Cables are measured by the foot. XX = Control cable length in feet. For Morse, XXX = inches. Using 20 amp circuit breaker NJ0514-00 is strongly recommended.

