



HOMELITE



4 CYCLE OUTBOARD TACHOMETER

RUSTPROOF

WATERPROOF

WEATHERPROOF

ILLUMINATED DIAL

SUPPLIED COMPLETE

EASY 2-WIRE HOOK-UP

A sparkling jewel of an instrument that will make you proud to be its owner. It matches standard engine gauges and can mount in standard tachometer panels.

The Homelite tachometer connects to your ignition switch with only 2 wires in less than 5 minutes. This eliminates the need for long cables and cuts down installation work. The patent pending design requires no batteries or moving parts that wear out and it does not affect your engine.

Manufactured for Homelite by Thomas G. Faria Co., 82 Union St., New London, Conn. Faria marine electric tachometers are original equipment with marine and truck manufacturers throughout the country.

\$34.⁹⁵

GUARANTEE

Guaranteed for one year after date of purchase. Faria company will repair or replace at no charge any tachometer which fails within the warranty period. Warranty does not cover breakage due to accident or misuse.

Return tachometers for repair direct to:

THOMAS G. FARIA CO.
82 UNION STREET
NEW LONDON, CONN.

SPECIFICATIONS

BEZEL: Chromium plated brass 3-13/16" dia. double strength curved glass window.

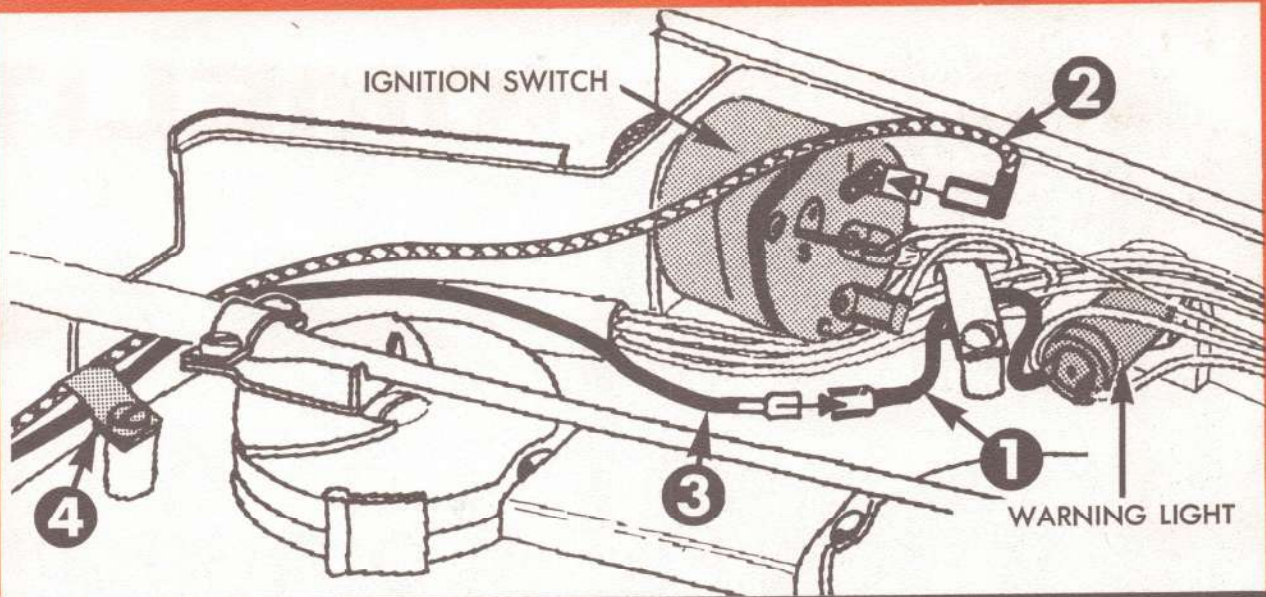
CASE: 3-11/32" dia. x 2-15/16" deep, magnetically shielded and waterproof. Mounts in standard engine panels or any panel in 3-3/8" to 3-1/2" mounting hole.

DIAL: Lighted with built in lamp. Red pointer.

ACCURACY: 2% of full scale.

HOOKUP WIRE: 2 - 5 foot, 1 black, 1 white wire supplied with terminals.

SPEED RANGE: 0-6000 R.P.M., 4 cylinder, 4 cycle, 12 volts.



HOMELITE TACHOMETER

INSTALLATION INSTRUCTIONS

1 Remove the three machine screws from the back of the remote control box, then lift off the cover.

2 Disconnect the wire (1) running between the warning light and the "I" terminal of the ignition switch.

3 Note the location of the terminals on the tachometer. The top terminal is negative (black lead), and the bottom terminal is positive (white lead).

4 Connect the flag terminal on the white (positive) tachometer lead (2) to the "I" terminal of the ignition switch.

5 Connect the black (negative) lead (3) to the flag terminal on the lead (1) from the warning light. Wrap electrical tape around the junction of the two lead terminals, to prevent grounding on the control box.

6 Remove the screw from the electrical cable clamp (4) in the remote control box, slip both tachometer leads into the clamp, then replace the screw. Be sure that both leads are positioned as shown. They must be well clear of the shift and throttle cam pivots.

7 Re-install the control box cover.



Distribution: List Nos. 3 & 14

January 24, 1963

TO: District and Branch Managers, Salesmen and Outboard Dealers

SUBJECT: Homelite 4-Cycle-55 Outboard Tachometer, Part #A-91185

The Homelite Tachometer is now available, and we are releasing a colorful combination specification and installation sheet, (part number 23686-A) as a sales aid.

More and more outboard owners are recognizing the advantages a good tachometer can bring them in achieving top engine performance and economy.

Sell a tachometer with every Homelite 4-cycle-55 HP outboard!!!

Order additional copies of this spec sheet in the usual manner.

John L. Bird
John L. Bird

Ass't. to Marine Market Manager

dm

Filing Instructions:

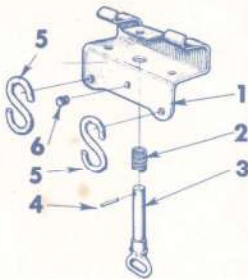
File immediately in front of accessory parts list, part number 23711 in Homelite 4-cycle outboard service manual.

HOMELITE OUTBOARD

ACCESSORY PARTS LIST

REMOTE STEERING BRACKET

Part No. A-90784



Index No.	Part No.	Description	No. Required
1	90749	BRACKET - remote steering	1
2	90750	SPRING	1
3	90748	PIN	1
4	90829	PIN - spirol	1
5	90786	"S" HOOK	2
6	90840	BUMPER	1

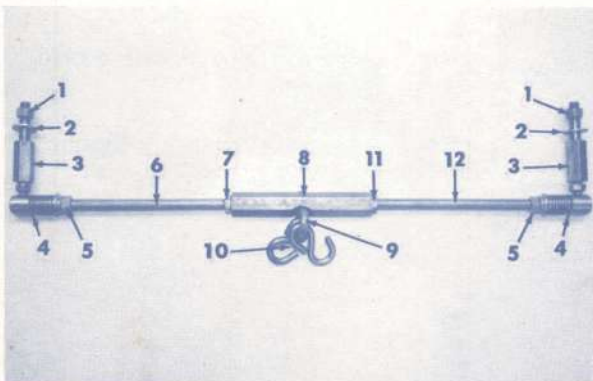
TACHOMETER

Part No. A-91185



DUAL STEERING CONTROL

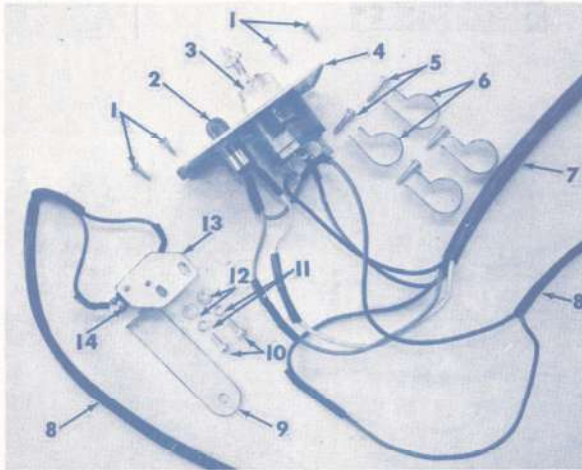
Part No. A-90912



Index No.	Part No.	Description	No. Required
1	81156	NUT - hex, 3/8" - 16	2
2	84088	WASHER - flat, 3/8"	2
3	90908	ADAPTER - ball joint	2
4	90909	JOINT - ball	2
5	81165	NUT - hex, 3/8" - 24	2
6	90910	ROD - right adjusting	1
7	81185	NUT - hex, 3/8" - 24 (thin, R. H.)	1
8	90907	COUPLER	1
9	90906	BOLT - eye	1
10	90786	HOOK - "S"	2
11	81181	NUT - hex, 3/8" - 24 (thin, L. H.)	1
12	90911	ROD - left adjusting	1

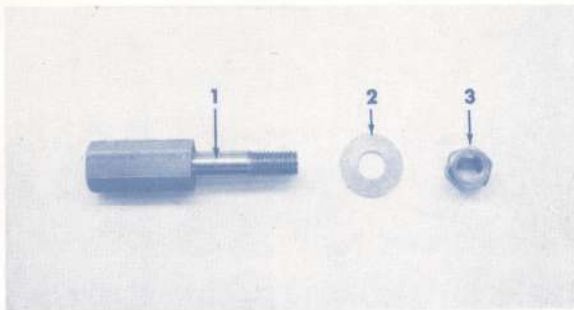
REMOTE CONTROL KIT for BOSTON WHALER

Part No. A-90986



Index No.	Part No.	Description	No. Required
1		SCREW - wood, #8 x 5/8"	4
2	A-90693	LIGHT - warning	1
	90707	BULB - warning light	1
3	90692	SWITCH - ignition w/key	1
4	90978	PLATE - switch mounting	1
5		SCREW - wood, rd. hd. #10 x 3/4"	4
6	90747	CLAMP - cable	4
7	A-91209-20	CABLE - electrical, remote control	1
8	A-90990	CABLE ASSEMBLY - RM-6062	1
9	90987	ARM - actuator	1
10	80595	SCREW - fil. hd., #10 - 24 x 1/2"	2
11	83046	WASHER - lock, #10	2
12	84003	WASHER - flat, #10	2
13	90989	PLATE - switch mounting	1
14	90703-A	SWITCH	1
	80210	SCREW - rd. hd., #6 - 32 x 3/16", lead connector	1
	81002-1	NUT - hex, #6 - 32	1
	80465-1	SCREW - rd. hd., #6 - 32 x 1/4", lead connector - ignition switch	1
	83004-1	WASHER - lock, #6	1

"PUSH-PULL" STEERING ADAPTER for BOSTON WHALER Part No. A-91197



Index No.	Part No.	Description	No. Required
1	90908	ADAPTER - ball joint	1
2	84088	WASHER - flat, 3/8"	1
3	81156	NUT - hex, 3/8" - 16	1

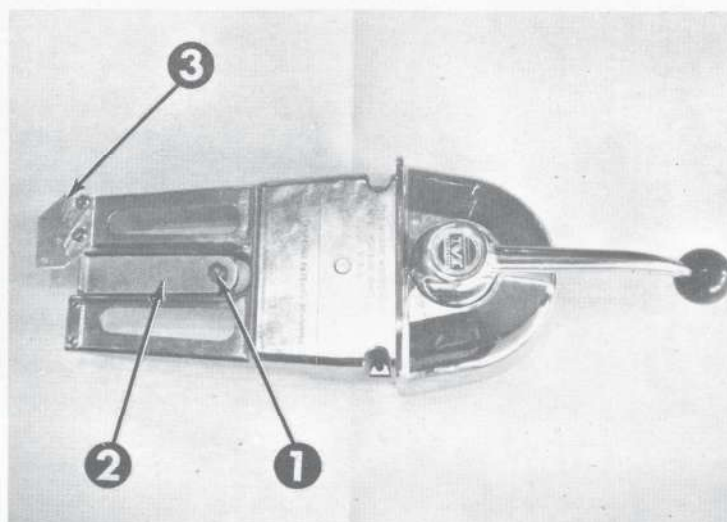
DUAL REMOTE CONTROL MOUNTING KIT

Part No. A-90847

Individual parts not available. Kit contains:

- 3 SCREWS - wood, rd. hd., #12 x 1 3/4"
Retain starboard control to hull mounting pad.
- 3 SPACERS - cylindrical
Provide clearance between starboard control throttle levers and hull mounting pad.
- 3 SCREWS - machine, oval hd., #10 - 24 x 2 1/4"
Mount port control to starboard control.

HOMELITE 460 OUTBOARD INSTALLATION
INSTRUCTIONS FOR BOSTON WHALER



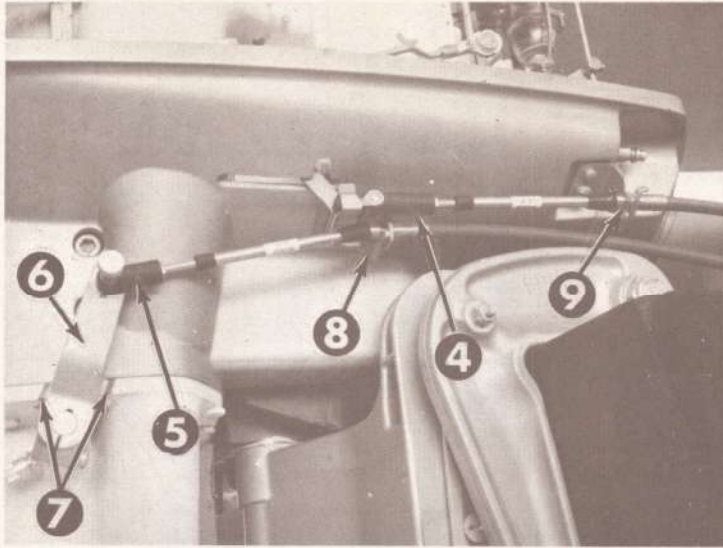
A. Assembly

1. Remove the elastic stop nut (1) from the shoulder bolt in the remote control unit, then place the actuator arm (2) over the bolt and re-install the nut.
2. Install the safety switch and mounting plate assembly (3) with the two 10 - 24 x 1/2" machine screws, lockwashers, and washers supplied.
3. The switch should be positioned so that the switch button is depressed by the actuator arm (2) whenever the control lever is in AHEAD or ASTERN position. Adjust the position of the switch by means of the oval slots provided in the switch mounting plate.
4. Install the remote control cables in the control unit as described in the Morse instruction sheet. DO NOT fasten the control unit to the instrument panel yet.
5. Thread the black plastic THROTTLE terminal (4), the one with the hole and the stainless steel locking clip, onto the THROTTLE cable. Do not tighten the lock nut.
6. Thread the black plastic SHIFT terminal (5), the one with the spring loaded pin, onto the SHIFT cable. Do not tighten the lock nut.

B. Shift Cable Terminal Adjustment

The travel of the shift cable is intentionally slightly greater than the arc described by the shift lever on the engine. Proper shift terminal adjustment evenly divides this overtravel so that the clutch is positively pulled into "AHEAD" and pushed into "ASTERN".

1. Move the control lever on the remote control unit to full "AHEAD" position.
2. Move the shift lever (6) on the starboard side of the upper leg full forward until it lines up between the two alignment notches (7) on the flange. If the lever does not move forward easily, turn the propeller slightly to allow the clutch dog to engage the gears.
3. Open the lock on the rear anchor clamp (8) and insert the groove of the shift cable ferrule into the clamp fork. Close the anchor clamp lock.
4. Keep slight tension on the cable by pulling on the shift terminal (5) while threading the terminal forward or back until the metal pin just lines up with the slotted hole in the shift lever. THEN GO THREE MORE TURNS CLOCKWISE to divide the overtravel of the cable, and lock the terminal to the cable with the locknut.
5. Push the terminal pin through the slotted shift lever hole and rotate the pin 90° to lock in place.



C. Throttle Cable Terminal Adjustment

1. Return the control lever to neutral detent, then insert the groove of the throttle cable ferrule into the forward anchor clamp fork (9) and close the clamp lock.
2. Adjust throttle terminal (4) so that the hole in the terminal fits freely over the pin on the bellcrank. DO NOT preload the throttle terminal.
3. Lock the terminal to the cable with the lock nut, then slide the terminal over the bellcrank pin and lock by pushing up on the locking clip. (The flat side of the terminal faces the bellcrank.)

D. Electrical Connections

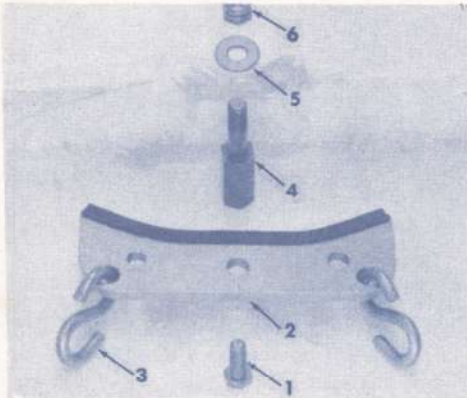
1. Remove the engine cover.
Caution: If the battery has already been connected to the engine, disconnect the positive battery lead before proceeding.
2. Select a convenient location on the instrument panel, close to the remote control unit, for installation of the ignition switch and warning light plate assembly. Then cut a rectangular hole measuring 2 - 3/8" x 3" in the instrument panel.
3. Run both electrical cables from the ignition switch, through the ignition switch cut-out, and mount the switch plate assembly on the panel with the four #8 x 5/8" wood screws supplied.
4. Run the shorter cable, with the two green wires, up through the remote control cut-out on top of the instrument panel. Connect the two female flag terminals to terminals #1 and #2 of the safety switch on the remote control unit, then install the remote control unit.
5. Run the heavy black electrical cable back to the engine and insert it through the grommet at the starboard front of the engine mounting plate. Thread the cable aft along the starboard side of the engine, then across between the cylinder block and tower shaft housing, and forward to the junction block on the port side of the mounting plate.
6. Match the colors of the cable leads with the colors of the junction block leads and fasten securely.
7. Be sure that the ignition switch is turned "OFF", (fully counterclockwise) then tap the loose positive (+) battery cable against the positive (+) terminal of the battery. If no spark jumps, make the connection. If a spark does jump, the wiring is incorrect. Check all connections for correct matching of colors; make sure none of the terminals are shorting each other or grounding against exposed metal parts.

HOMELITE OUTBOARD

ACCESSORY PARTS LIST

REMOTE STEERING BRACKET

Part No. A-91289



Index No.	Part No.	Description	No. Required
1	80907	SCREW-hex hd., 3/8-24 x 1	1
2	A-91317	BRACKET ASSEMBLY	1
		Includes	
3	90786	"S" HOOK	2
4	90908	ADAPTER - ball joint	1
5	84088	WASHER - flat, 3/8"	1
6	81137	NUT - lock, 3/8 - 24	1

Part No. A-91254

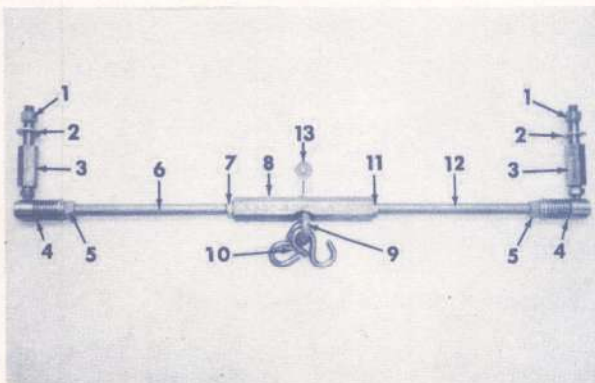
TACHOMETER



RUST PROOF
 WATER PROOF
 WEATHER PROOF
 ILLUMINATED DIAL
 SUPPLIED COMPLETE
 EASY 2-WIRE HOOK-UP

DUAL STEERING CONTROL

Part No. A-90912-A

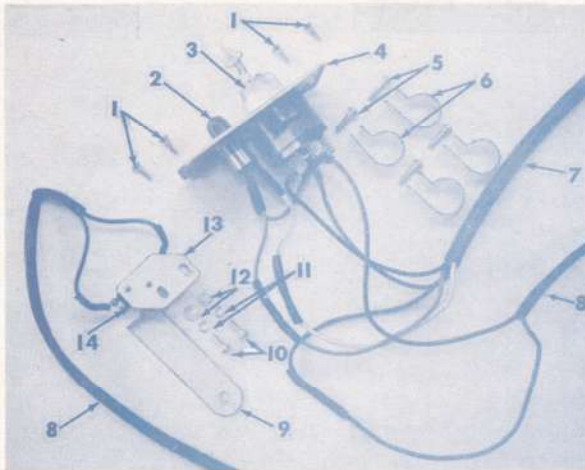


Index No.	Part No.	Description	No. Required
1	81156	NUT - hex, 3/8"-16	2
2	84088	WASHER - flat, 3/8"	2
3	90908	ADAPTER - ball joint	2
4	90909	JOINT - ball	2
5	81165	NUT - hex, 3/8"-24	2
6	90910	ROD - right adjusting	1
7	81185	NUT - hex, 3/8"-24(thin, R.H.)	1
8	90907-A	COUPLER	1
9	*90906-A	BOLT - eye	1
10	90786	HOOK - "S"	2
11	81181	NUT - hex, 3/8"-24(thin, L.H.)	1
12	90911	ROD - left adjusting	1
13	81155	NUT - hex, 5/16" - 24	1

*Remove to install ball joint supplied with BOSTON WHALER.

REMOTE CONTROL KIT for BOSTON WHALER

Part No. A-90986

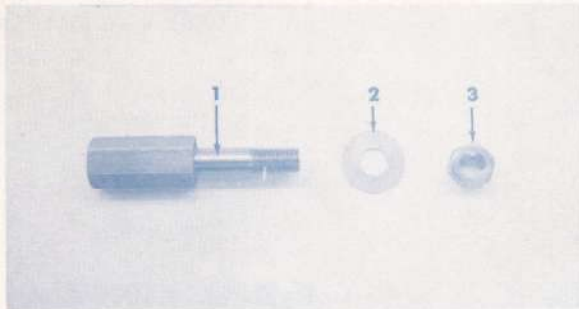


Index No.	Part No.	Description	No. Required
1	80873	SCREW - wood, #8x5/8"	4
2	A-90693	LIGHT - warning Includes	1
	91314	COVER - red plastic	1
	90707	BULB - warning light	1
3	90692	SWITCH - ignition w/key	1
4	90978	PLATE - switch mounting	1
5	80824	SCREW - wood, rd. hd. #10 x 3/4"	4
6	90747	CLAMP - cable	4
7	A-91209-20	CABLE - electrical, remote control	1
8	A-90990	CABLE ASSEMBLY - RM-6062	1
9	90987	ARM - actuator	1
10	80595	SCREW - fil. hd., #10 - 24 x 1/2"	2
11	83046	WASHER - lock, #10	2
12	84003	WASHER - flat, #10	2
13	90989	PLATE - switch mounting	1
14	90703-A	SWITCH	1
	80210	SCREW - rd. hd., #6 - 32 x 3/16", lead connector	1
	81002-1	NUT - hex, #6 - 32	1
	80465-1	SCREW - rd. hd., #6 - 32 x 1/4", lead connector - ignition switch	1
	83004-1	WASHER - lock, #6	1

WATERCRAFTMANUALS.COM

"PUSH-PULL" STEERING ADAPTER for BOSTON WHALER

Part No. A-91197



Index No.	Part No.	Description	No. Required
1	90908	ADAPTER - ball joint	1
2	84088	WASHER - flat, 3/8"	1
3	81156	NUT - hex, 3/8" - 16	1

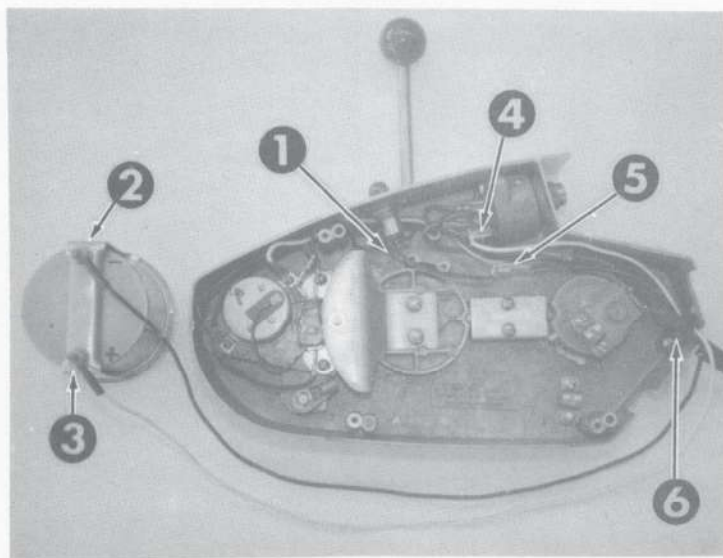
DUAL REMOTE CONTROL MOUNTING KIT

Part No. A-90847

Individual parts not available. Kit contains:

- 3 SCREWS - wood, rd. hd., #12 x 1 3/4"
Retain starboard control to hull mounting pad.
- 3 SPACERS - cylindrical
Provide clearance between starboard control throttle levers and hull mounting pad.
- 3 SCREWS - machine, oval hd., #10 - 24 x 2 1/4"
Mount port control to starboard control.

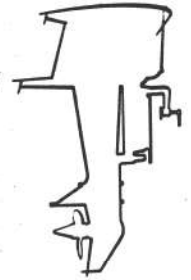
HOMELITE Safety-Mate
Tachometer Connections



1. Remove the three machine screws from the back of the remote control box, then lift off the cover.
2. Disconnect the black wire (1) running between the warning light and the "I" terminal of the ignition switch.
3. Note the location of the terminals on the tachometer. The top terminal (2) is negative (black lead), and the bottom terminal (3) is positive (white lead).
4. Connect the flag terminal on the white (positive) tachometer lead (4) to the "I" terminal of the ignition switch.
5. Connect the black (negative) tachometer lead (5) to the flag terminal on the black lead from the warning light. Wrap electrical tape around the junction of the two black lead terminals, to prevent grounding on the control box.
6. Remove the screw from the electrical cable clamp (6) in the remote control box, slip both tachometer leads into the clamp, then replace the screw. Be sure that both leads are positioned as shown in the photograph. They must be well clear of the shift and throttle cam pivots.
7. Re-install the control box cover.



PORT CHESTER, NEW YORK



DATE: May 9, 1963

FILE: Marketing Aids

TO: Branch Offices and Marine Dealers

SUBJECT: Boston Whaler Remote Control Kit

The Boston Whaler boat people produce a handsome 16' 7" fiberglass hull for which the Homelite 55 is ideally suited. These 16' 7" Whalers are available in three models; East Port, Nauset, and Sakonnet, and are equipped with factory installed "Morse" single lever remote controls, control cables, shift terminal ends, and American Chain and Cable "Steermaster" steering systems.

Because Homelite Safety-Mate remote controls cannot be installed on the control console of the above-mentioned models, we have designed a special remote control kit for the Boston Whaler, part # A-90986. The Boston Whaler remote control has all the engine interlock and warning light features as the Homelite Safety-Mate control. It comes complete with a 20' harness and instructions for quick and simple installation. The "Sakonnet" model Whaler illustrated on the back of this bulletin clearly shows Boston Whaler remote control, part # A-90986, mounted left of the wheel.

I cannot help but point out the Homelite tachometer, part # A-91185, to the right of the wheel which nicely balances the Homelite control panel, besides performing an important function for the operator.

A Homelite Push-Pull Steering Adapter for Boston Whaler, part # A91197 is required to complete a Homelite motor installation. A "Ball-socket" supplied with each Steermaster system provides the connection between the telescopic rod end and the Homelite steering adapter which in turn bolts to the motor base plate.

To conclude; when Homelite motors are installed on the above-mentioned Boston Whaler models the following components are required for each installation:

- 1 - 460 A2 engine
- 1 - Boston Whaler remote control kit, part # A-90986
- 1 - Boston Whaler steering adapter, part # A-91197

Copies of Homelite 460 Outboard Installation Instructions for Boston Whaler, part # 23683, and Homelite Outboard Accessory Parts List, part # 23711, illustrating Whaler accessories, which appear in your Homelite Outboard Service Manual, are also attached to this bulletin for your additional information.

John L. Bird
John L. Bird

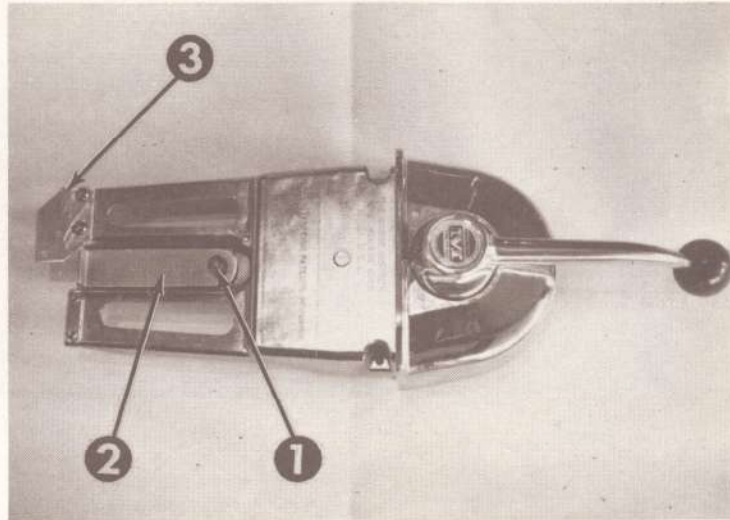
Ass't. to Marine Marketing Manager

REFERENCE No. 6-63M

HOMELITE REMOTE CONTROL KIT
A-90986 FOR BOSTON WHALER



HOMELITE 460 OUTBOARD INSTALLATION
INSTRUCTIONS FOR BOSTON WHALER



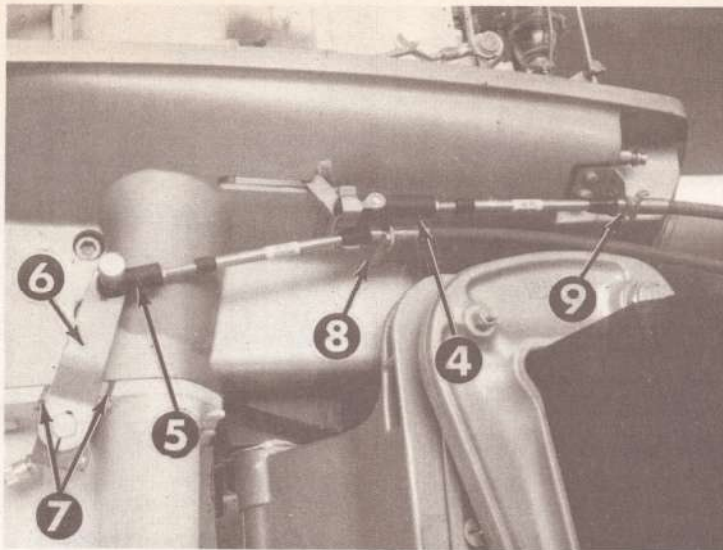
A. Assembly

1. Remove the elastic stop nut (1) from the shoulder bolt in the remote control unit, then place the actuator arm (2) over the bolt and re-install the nut.
2. Install the safety switch and mounting plate assembly (3) with the two 10 - 24 x 1/2" machine screws, lockwashers, and washers supplied.
3. The switch should be positioned so that the switch button is depressed by the actuator arm (2) whenever the control lever is in AHEAD or ASTERN position. Adjust the position of the switch by means of the oval slots provided in the switch mounting plate.
4. Install the remote control cables in the control unit as described in the Morse instruction sheet. DO NOT fasten the control unit to the instrument panel yet.
5. Thread the black plastic THROTTLE terminal (4), the one with the hole and the stainless steel locking clip, onto the THROTTLE cable. Do not tighten the lock nut.
6. Thread the black plastic SHIFT terminal (5), the one with the spring loaded pin, onto the SHIFT cable. Do not tighten the lock nut.

B. Shift Cable Terminal Adjustment

The travel of the shift cable is intentionally slightly greater than the arc described by the shift lever on the engine. Proper shift terminal adjustment evenly divides this overtravel so that the clutch is positively pulled into "AHEAD" and pushed into "ASTERN".

1. Move the control lever on the remote control unit to full "AHEAD" position.
2. Move the shift lever (6) on the starboard side of the upper leg full forward until it lines up between the two alignment notches (7) on the flange. If the lever does not move forward easily, turn the propeller slightly to allow the clutch dog to engage the gears.
3. Open the lock on the rear anchor clamp (8) and insert the groove of the shift cable ferrule into the clamp fork. Close the anchor clamp lock.
4. Keep slight tension on the cable by pulling on the shift terminal (5) while threading the terminal forward or back until the metal pin just lines up with the slotted hole in the shift lever. THEN GO THREE MORE TURNS CLOCKWISE to divide the overtravel of the cable, and lock the terminal to the cable with the locknut.
5. Push the terminal pin through the slotted shift lever hole and rotate the pin 90° to lock in place.



C. Throttle Cable Terminal Adjustment

1. Return the control lever to neutral detent, then insert the groove of the throttle cable ferrule into the forward anchor clamp fork (9) and close the clamp lock.
2. Adjust throttle terminal (4) so that the hole in the terminal fits freely over the pin on the bellcrank. DO NOT preload the throttle terminal.
3. Lock the terminal to the cable with the lock nut, then slide the terminal over the bellcrank pin and lock by pushing up on the locking clip. (The flat side of the terminal faces the bellcrank.)

D. Electrical Connections

1. Remove the engine cover.
Caution: If the battery has already been connected to the engine, disconnect the positive battery lead before proceeding.
2. Select a convenient location on the instrument panel, close to the remote control unit, for installation of the ignition switch and warning light plate assembly. Then cut a rectangular hole measuring 2 - 3/8" x 3" in the instrument panel.
3. Run both electrical cables from the ignition switch, through the ignition switch cut-out, and mount the switch plate assembly on the panel with the four #8 x 5/8" wood screws supplied.
4. Run the shorter cable, with the two green wires, up through the remote control cut-out on top of the instrument panel. Connect the two female flag terminals to terminals #1 and #2 of the safety switch on the remote control unit, then install the remote control unit.
5. Run the heavy black electrical cable back to the engine and insert it through the grommet at the starboard front of the engine mounting plate. Thread the cable aft along the starboard side of the engine, then across between the cylinder block and tower shaft housing, and forward to the junction block on the port side of the mounting plate.
6. Match the colors of the cable leads with the colors of the junction block leads and fasten securely.
7. Be sure that the ignition switch is turned "OFF", (fully counterclockwise) then tap the loose positive (+) battery cable against the positive (+) terminal of the battery. If no spark jumps, make the connection. If a spark does jump, the wiring is incorrect. Check all connections for correct matching of colors; make sure none of the terminals are shorting each other or grounding against exposed metal parts.

FISHER-PIERCE BEARCAT

REMOTE CONTROL MODEL NO. 10600 ASSEMBLY AND INSTALLATION INSTRUCTIONS

This unit must be used with the Fisher-Pierce Remote Start Kit

I. SINGLE ENGINE (Port or Starboard Mounting)

A. The control comes ready for mounting on the starboard side; if port side mounting is desired, proceed as follows:

- 1.) Remove the detent plate screws (Fig. 1, item 10) and then remove the detent ball and spring. Remove the throttle cam screws (Fig. 1, item 9), then remove the throttle cam using a small pry bar if necessary. Move the large throttle arm 180°, then reverse the procedure for reassembly. Care must be taken not to disturb the throttle arm bearing and spring plate during this operation.
- 2.) Install the nameplates "Fisher-Pierce", "4-cycle" and "starting instructions" in their proper locations.

B. Selecting Shift and Throttle Cables

- 1.) Measure along the route which the cables will take, from the point at which the Remote Control will be fastened, to the center line of the engine (s) mounted on the transom. (Follow all bends)
- 2.) Add 1 1/2 to 2 feet to this measurement for the proper length of both cables.

C. Throttle Cable installation (refer to figure 1)

- 1.) Remove the snap ring which holds fitting (1).
- 2.) Remove clamp (2) from neutral throttle swivel (3).
- 3.) Thread fitting (1) onto either end of either cable 12 full turns (equalling 3/8"). All cables and all cable ends are alike. Lock the cable to the fitting with the lock nut on the cable.
- 4.) Install the fitting, dimpled side up, on throttle cam pivot (4) and lock in place with the snap ring.
- 5.) Place the cable in the fork of neutral throttle swivel (3) and install clamp (2) with the clamp protrusion seated in the groove of the cable ferrule.
- 6.) Thread the red plastic THROTTLE terminal, the one with the hole and stainless steel locking clip (see 11, figure 2) onto the other end of the cable. Do not tighten the lock nut.

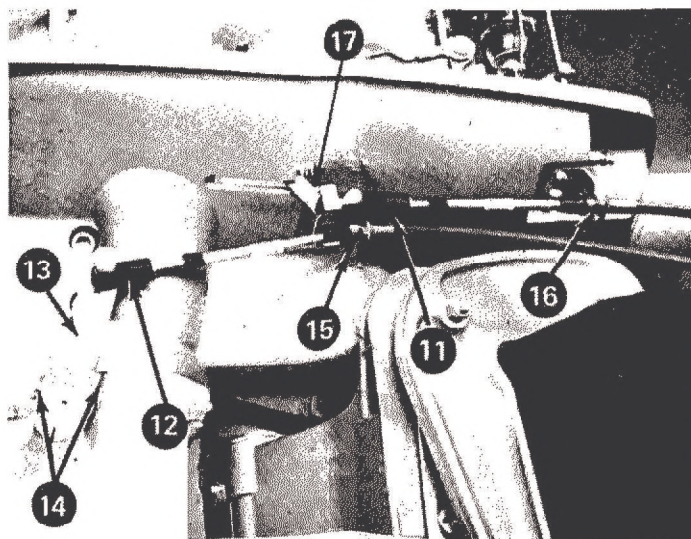
- 3.) Operate the shift lever and neutral throttle lever to test for smooth operation. If any binding occurs check the cables for sharp bends and adjust as necessary. The cables must be free enough to allow full steering of the motor.

G. Shift Cable Terminal Adjustment (refer to figure 2)

The travel of the shift cable is intentionally slightly greater than the arc described by the shift lever on the engine. Proper shift terminal adjustment evenly divides this overtravel so that the clutch is positively pulled into "AHEAD" and pushed into "ASTERN".

- 1.) Move the large lever on the remote control unit to full "AHEAD" position.
- 2.) Move the shift lever (13) on the starboard side of the upper leg (see figure 2) full forward until it lines up between the two alignment notches (14) on the flange. If the lever does not move forward easily, turn the propeller slightly to allow the clutch dog to engage the gears.
- 3.) Open the lock on the rear anchor clamp (15) and insert the groove of the shift cable ferrule into the clamp fork.
- 4.) Keep slight tension on the cable by "pulling" on the shift terminal (12) while threading the terminal forward or back until the metal pin just lines up with the slotted hole in the shift lever. THEN GO THREE MORE TURNS CLOCKWISE to divide the overtravel of the cable, and lock the terminal to the cable with the lock nut.
- 5.) Push the terminal pin through the slotted shift lever hole and rotate the pin 90° to lock in place.

FIGURE 2



H. Throttle Cable Terminal Adjustment (refer to figure 2)

- 1.) Return the large shift lever to "NEUTRAL". The neutral throttle lever must remain in horizontal ("SHIFT") position.
- 2.) Insert the groove of the throttle cable ferrule into the forward anchor clamp fork (16) and close the clamp lock.
- 3.) Adjust throttle terminal (11) so that the hole in the terminal fits freely over the pin on bellcrank (17). (See figure 2) DO NOT preload the throttle terminal.
- 4.) Lock the terminal to the cable with the lock nut, then slide the throttle terminal over the bell crank pin and lock by pushing up on locking clip. (The flat side of the terminal faces the bell crank).

II. TWIN ENGINES

Separate batteries and fuel tanks are recommended for the greater flexibility and safety afforded by being able to operate each engine independently.

A. Twin Engine Controls

- 1.) Use one starboard control No. 10600 and one port control No. 10600 converted. Attach together and mount with Twin Mounting Kit No. 10700.
- 2.) Outside control (of twin), mounts on mounting pad and supports inside control.
- 3.) Drill three holes $7/32''$ dia. in drill points on bosses inside control housing for mounting outside control. (Two of these are located on the bottom and one above center and to the rear of the control). (see figure 1).
- 4.) Mount outside control on the three spacers from kit A48333 with the $1-3/4''$ wood screws provided.
- 5.) Mount inside control against the outside control with the four screws provided in kit A48333.

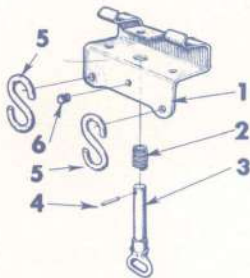
5/20/69
HMCM:mrk

HOMELITE OUTBOARD

ACCESSORY PARTS LIST

REMOTE STEERING BRACKET

Part No. A-90784



Index No.	Part No.	Description	No. Required
1	90749	BRACKET - remote steering	1
2	90750	SPRING	1
3	90748	PIN	1
4	90829	PIN - spirol	1
5	90786	"S" HOOK	2
6	90840	BUMPER	1

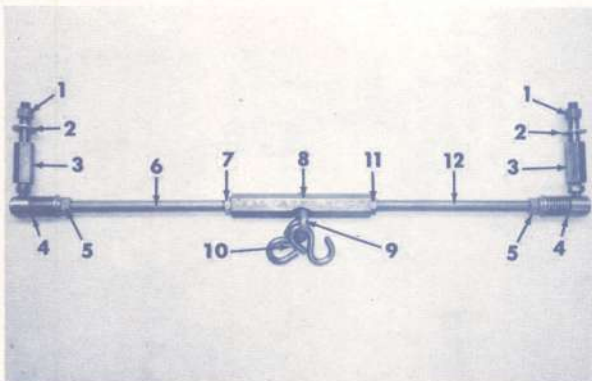
TACHOMETER

Part No. A-91185



DUAL STEERING CONTROL

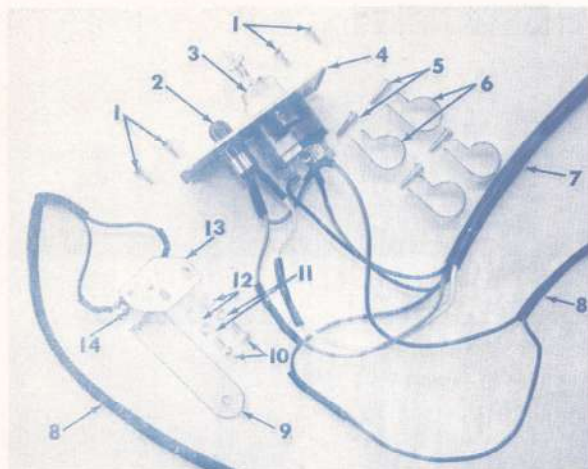
Part No. A-90912



Index No.	Part No.	Description	No. Required
1	81156	NUT - hex, 3/8" - 16	2
2	84088	WASHER - flat, 3/8"	2
3	90908	ADAPTER - ball joint	2
4	90909	JOINT - ball	2
5	81165	NUT - hex, 3/8" - 24	2
6	90910	ROD - right adjusting	1
7	81185	NUT - hex, 3/8" - 24 (thin, R. H.)	1
8	90907	COUPLER	1
9	90906	BOLT - eye	1
10	90786	HOOK - "S"	2
11	81181	NUT - hex, 3/8" - 24 (thin, L. H.)	1
12	90911	ROD - left adjusting	1

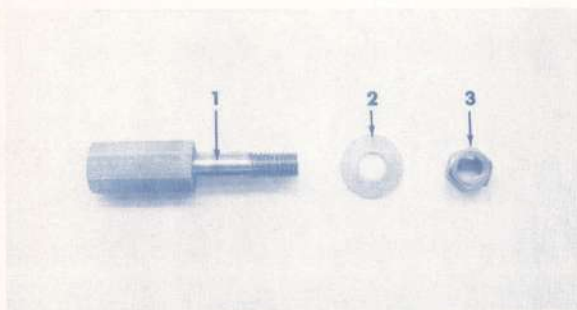
REMOTE CONTROL KIT for BOSTON WHALER

Part No. A-90986



Index No.	Part No.	Description	No. Required
1		SCREW - wood, #8 x 5/8"	4
2	A-90693	LIGHT - warning	1
	90707	BULB - warning light	1
3	90692	SWITCH - ignition w/key	1
4	90978	PLATE - switch mounting	1
5		SCREW - wood, rd. hd. #10 x 3/4"	4
6	90747	CLAMP - cable	4
7	A-91209-20	CABLE - electrical, remote control	1
8	A-90990	CABLE ASSEMBLY - RM-6062	1
9	90987	ARM - actuator	1
10	80595	SCREW - fil. hd., #10 - 24 x 1/2"	2
11	83046	WASHER - lock, #10	2
12	84003	WASHER - flat, #10	2
13	90989	PLATE - switch mounting	1
14	90703-A	SWITCH	1
	80210	SCREW - rd. hd., #6 - 32 x 3/16", lead connector	1
	81002-1	NUT - hex, #6 - 32	1
	80465-1	SCREW - rd. hd., #6 - 32 x 1/4", lead connector - ignition switch	1
	83004-1	WASHER - lock, #6	1

"PUSH-PULL" STEERING ADAPTER for BOSTON WHALER Part No. A-91197



Index No.	Part No.	Description	No. Required
1	90908	ADAPTER - ball joint	1
2	84088	WASHER - flat, 3/8"	1
3	81156	NUT - hex, 3/8" - 16	1

DUAL REMOTE CONTROL MOUNTING KIT

Part No. A-90847

Individual parts not available. Kit contains:

- 3 SCREWS - wood, rd. hd., #12 x 1 3/4"
Retain starboard control to hull mounting pad.
- 3 SPACERS - cylindrical
Provide clearance between starboard control throttle levers and hull mounting pad.
- 3 SCREWS - machine, oval hd., #10 - 24 x 2 1/4"
Mount port control to starboard control.

HOMELITE *Safety-Mate*

ASSEMBLY AND INSTALLATION INSTRUCTIONS

Please refer to owner's manual for battery installation, fuel connections and starting instructions.

I SINGLE ENGINE

A. Selecting Shift and Throttle Cables

1. Measure along the route which the cables will take, from the point at which the Remote Control will be fastened, to the center line of the engine(s) mounted on the transom. (Follow all bends.)
2. Add 1 1/2 to 2 feet to this measurement for the proper length of both cables.
3. Select cables from the table below.

Cable Selection			
Part Number	Length	Part Number	Length
90746 - 08	8 feet	90746 - 14	14 feet
90746 - 09	9 feet	90746 - 15	15 feet
90746 - 10	10 feet	90746 - 16	16 feet
90746 - 11	11 feet	90746 - 17	17 feet
90746 - 12	12 feet	90746 - 18	18 feet
90746 - 13	13 feet	90746 - 20	20 feet

B. Throttle Cable Installation (refer to figure 1)

1. Remove the back cover from the control unit.
2. Remove the snap ring which holds fitting (1).
3. Remove clamp (2) from neutral throttle swivel (3).

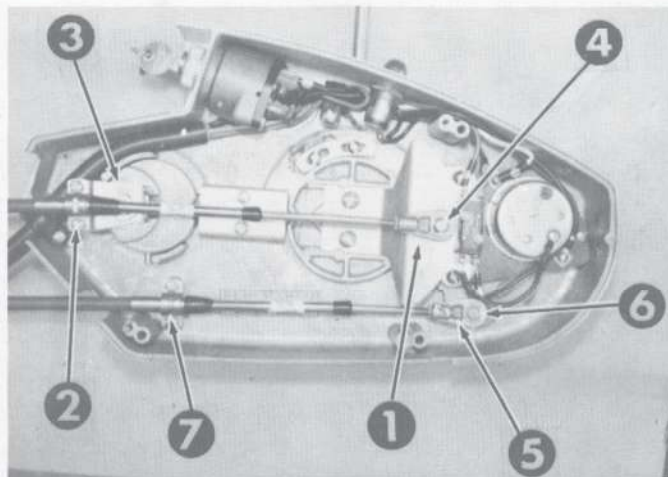


Figure 1

4. Thread fitting (1) onto either end of either cable 12 full turns (equalling 3/8"). All cables and all cable ends are alike. Lock the cable to the fitting with the lock nut on the cable.
5. Install the fitting, dimple side up, on throttle cam pivot (4) and lock in place with the snap ring.
6. Place the cable in the fork of neutral throttle swivel (3) and install clamp (2) with the clamp protrusion seated in the groove of the cable ferrule.
7. Thread the black plastic THROTTLE terminal, the one with the hole and stainless steel locking clip (see #13, figure 2) onto the other end of the cable. Do not tighten the lock nut.

C. Shift Cable Installation (refer to figure 1)

1. Remove fitting (5) from shift pivot (6). Remove clamp (7).
2. Thread fitting (5) 12 turns onto either end of the remaining cable and lock with the lock nut.
3. Install the fitting, dimple side up, on shift pivot (6) and re-install clamp (7).
4. Thread the black plastic SHIFT terminal, the one with the spring loaded pin, (see #11, figure 2) onto the other end of this cable. Do not tighten the lock nut.

D. Mounting Remote Control Unit in Boat

1. Re-install the back cover on the remote control and install the unit in the boat with the 3 long stainless steel wood screws supplied.
2. Use the white plastic loops supplied, to fasten the throttle cable, shift cable and black electrical cable to the boat.

NOTE: Leave some slack in the cables between the Remote Control and the first plastic loop. This slack is required for operation of the small neutral throttle lever.

3. Install the shift lever on the remote control unit with the bend facing either way. Tighten the shift lever set screw with an Allen Wrench.
4. Operate the shift lever and neutral throttle lever to test for smooth operation. If any binding occurs check the cables for sharp bends and adjust as necessary. The cables must be free enough to allow full steering of the motor.

E. Shift Cable Terminal Adjustment (refer to figure 2)

The travel of the shift cable is intentionally slightly greater than the arc described by the shift lever on the engine. Proper shift terminal adjustment evenly divides this overtravel so that the clutch is positively pulled into "AHEAD" and pushed into "ASTERN".

1. Move the large shift lever on the remote control unit to full "AHEAD" position.
2. Move the shift lever (8) on the starboard side of the upper leg (see figure 2) full forward until it lines up between the two alignment notches (9) on the flange. If the lever does not move forward easily, turn the propeller slightly to allow the clutch dog to engage the gears.

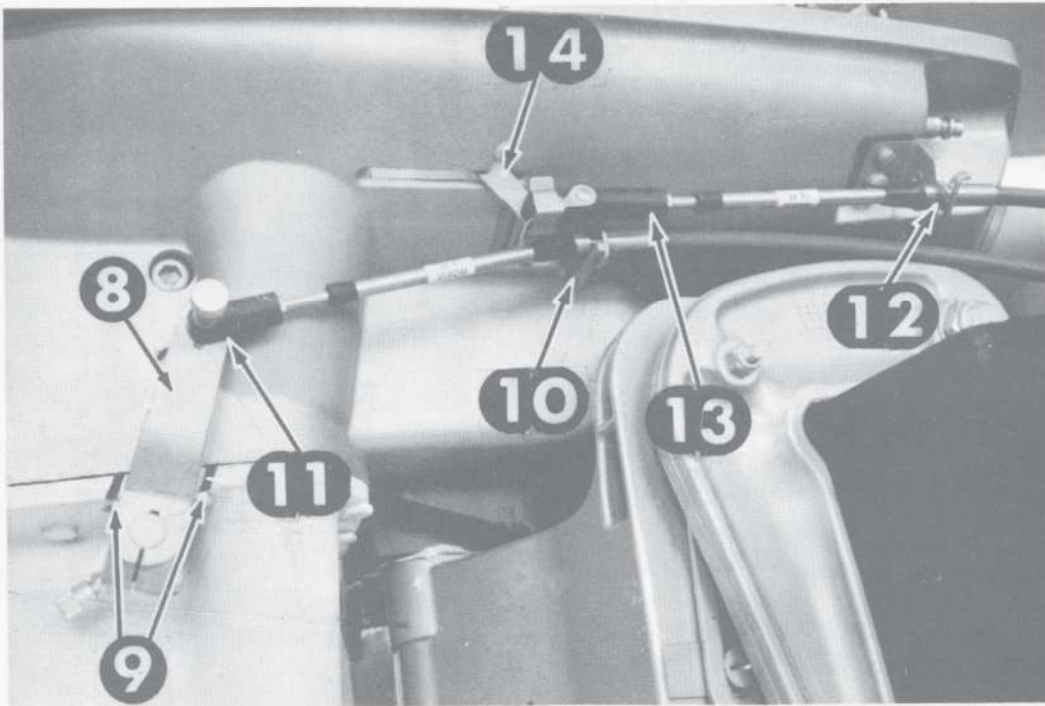


Figure 2

3. Open the lock on the rear anchor clamp (10) and insert the groove of the shift cable ferrule into the clamp fork. Close the anchor clamp lock.
4. Keep slight tension on the cable by "pulling" on the shift terminal (11) while threading the terminal forward or back until the metal pin just lines up with the slotted hole in the shift lever. THEN GO THREE MORE TURNS CLOCKWISE to divide the overtravel of the cable, and lock the terminal to the cable with the lock nut.
5. Push the terminal pin through the slotted shift lever hole and rotate the pin 90° to lock in place.

F. Throttle Cable Terminal Adjustment (refer to figure 2)

1. Return the large shift lever to "NEUTRAL". The neutral throttle lever must remain in horizontal ("SHIFT") position.
2. Insert the groove of the throttle cable ferrule into the forward anchor clamp fork (12) and close the clamp lock.
3. Adjust throttle terminal (13) so that the hole in the terminal fits freely over the pin on bellcrank (14). (See figure 2) DO NOT preload the throttle terminal.
4. Lock the terminal to the cable with the lock nut, then slide the throttle terminal over the bell crank pin and lock by pushing up on locking clip. (The flat side of the terminal faces the bellcrank.)

G. Electrical Connections

CAUTION: If the battery has already been connected to the engine, disconnect the positive battery lead before proceeding.

1. Remove the engine cover.
2. Insert the black electrical cable through the grommet at the starboard front of the engine mounting plate. Run the cable aft along the starboard side of the engine, then across between the cylinder block and tower shaft housing, and forward to the junction block at the lower end of the electrical panel on the port side of the engine.
3. Match the numbers on the leads with the numbers on the junction block and fasten securely.

H. Re-connecting Battery

Be sure ignition key is turned "OFF" (fully counterclockwise.) Tap the loose positive (+) battery cable against the positive (+) terminal of the battery.

1. If no spark jumps, make the connection.
2. If a spark jumps, the wiring is incorrect. Check all connections for correct matching of numbers; make sure none of the terminals touches any other terminal or any exposed metal parts.

II TWIN ENGINES

Separate batteries and fuel tanks are recommended for the greater flexibility and safety afforded by being able to operate each engine independently.

Two remote controls and special mounting hardware are supplied for twin installations.

A. Starboard Remote Control Mounting

1. Remove the back covers from both controls.
2. Identify the control WITHOUT the bead (rim) for the back cover. This becomes the starboard control.
3. Drill three 1/4" diameter holes through the three cast-in dimples inside the starboard control unit. Be sure to remove all chips.
4. Follow the instructions for single engine installation to select the proper control cables and to make the cable connections inside each control unit.
5. Fasten the starboard control to the boat or mounting pad with the three wood screws supplied, through the drilled 1/4" holes. Use the three cylindrical spacers supplied, between the control unit and the mounting pad to allow free travel of the shift and neutral throttle levers.
6. Fasten the port remote control to the starboard unit — back to back without covers — using the three 2 1/4" stainless steel 10 - 24 machine screws supplied.

B. Port Remote Control Mounting

Drill three 1/4" diameter holes in the control unit WITH the bead (rim) for the back cover, at locations corresponding to the dimples cast in the other control unit. This becomes the port control. DO NOT drill out the dimples in the control unit WITHOUT the bead.

C. Center Remote Control Mounting

A suitable mounting pad of the approximate contour of the control units should be fitted to the boat and the controls should be mounted — one on each side — as for single installations.

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CARBURETOR PARTS

HOMELITE 4-CYCLE - - 55 OUTBOARD

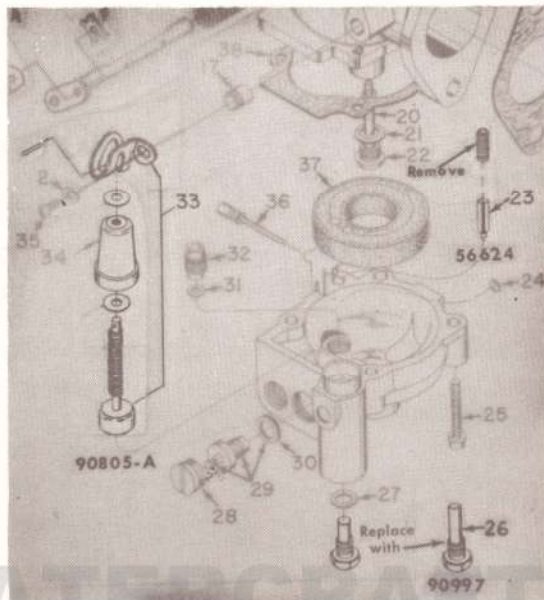
A- 90250

SUPPLEMENT #I

Recommended modifications when installing current service replacement parts. These parts supersede the original ones - PLEASE CHANGE PARTS LIST ACCORDINGLY.

Original Model - #MD 120A

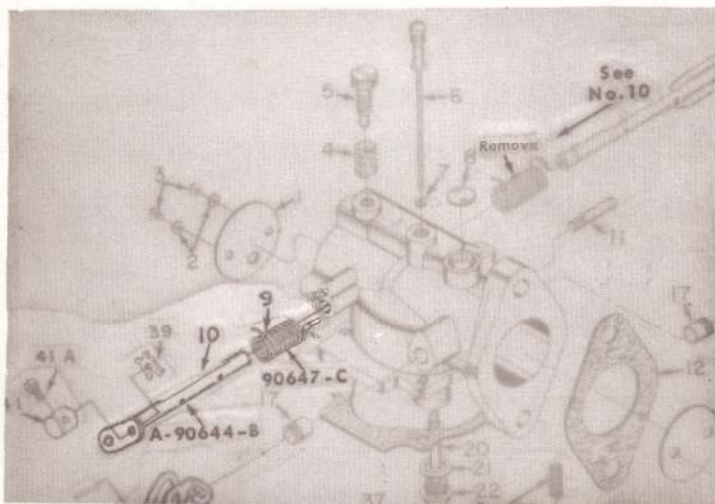
Modified Model - #MD 120B



Original accelerator pump (index #33) replaced by #90805-A. When new pump assembly is installed, original stop screw (index #26) must also be replaced with longer stop screw #90997.

Original check valve and spring assembly (index #23) superseded by check valve #56624 only. If original valve is still serviceable simply remove original spring.

Original choke shaft and lever (index #10) replaced by A-90644-B mounted on opposite side, as shown below. New shaft and lever no longer requires original choke actuating lever (index #40), lockwasher, or screw.



Original choke return spring (index #9) replaced by #90647-C mounted on opposite side, as shown. Old spring can be taken off without removing choke shaft; install new spring between original choke lever (index #40) and carburetor body.

REPAIR KIT (index #43) superseded by #90813-A which includes new accelerator pump and check valve.



PORT CHESTER, NEW YORK



DATE: May 20, 1963

FILE: Literature

TO: All Homelite Branches and Marine Dealers

SUBJECT: Carburetor MD-120B Parts Sheet #23604-A (Rev. 4-63)

This Carburetor Parts Sheet #23604-A replaces the following Marine Carburetor Parts Sheets:

- #23604 - Covered the MD-120A carburetors installed up to engine S/N 1374749.
- #23604 Suppl. #1 - Listed the parts changes when factory production went from MD-120A to MD-120B carburetor usage.

Manual Filing Instructions: Discard Carburetor Parts Sheet #23604 and Supplement #1 which follow Marine Service Bulletin #3-400 and file carburetor parts sheet #23604-A in their place.

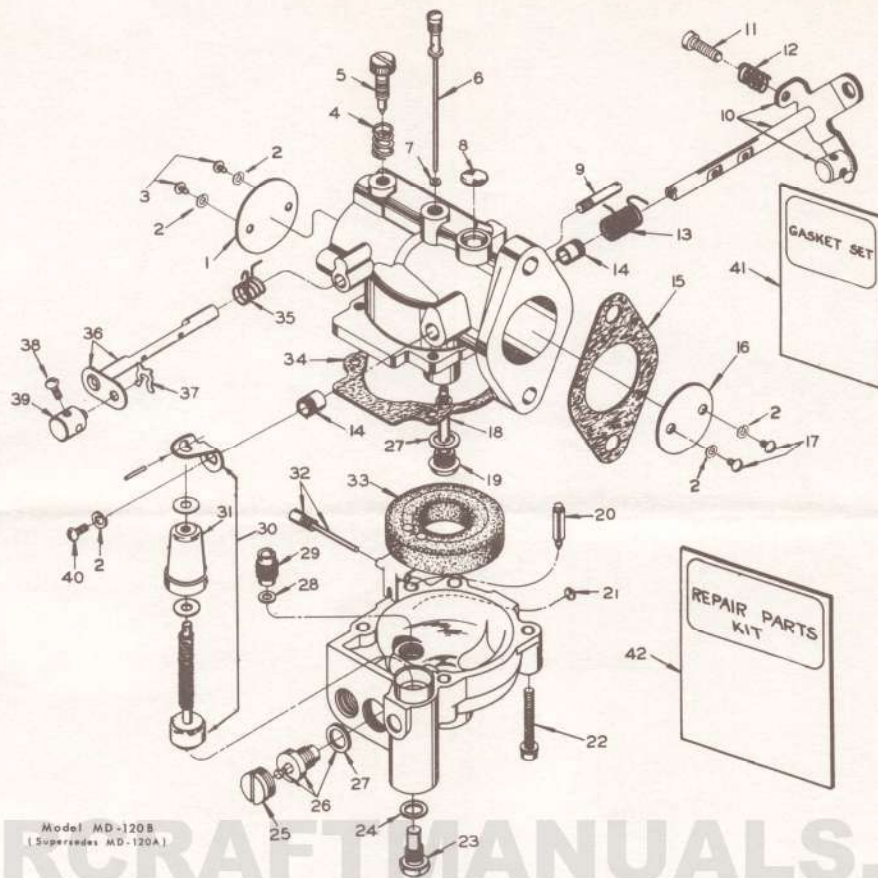
Rod Ferguson, Supervisor
Technical Publications

dm

CARBURETOR PARTS

HOMELITE 4-CYCLE - - 55 OUTBOARD

Assembly Number
A - 90250



Model MD-120B
(Supersedes MD-120A)

WATERCRAFTMANUALS.COM

Index No.	Part No.	Description	No. Required
1	90626-A	CHOKE SHUTTER	1
2	*83008-1	WASHER - lock, #4	5
3	80658	SCREW - choke shutter	2
4	*90806	SPRING - idle adjusting screw	1
5	*71507	SCREW - idle mixture	1
6	*90807	IDLE TUBE	1
7	**71511	GASKET - idle tube	1
8	*30818	WELCH PLUG	1
9	28126	PIN - throttle stop lever	1
10	A-90643	THROTTLE SHAFT & LEVER <u>Includes</u>	1
11	*71509	SCREW - idle stop	1
12	*28064	SPRING - idle stop screw	1
	90281	PIVOT - lever	1
	90277	WASHER - pivot	2
	90618	RING - pivot retaining	1
	80797	SCREW - 10 - 32 x 3/16	1
13	90646	SPRING - throttle return	1
14	90814	BUSHING - throttle shaft	2
15	*90007	GASKET - flange	1
16	90943	THROTTLE SHUTTER	1
17	*80591	SCREW - throttle shutter	2
18	*90810	MAIN NOZZLE	1
19	*90809	MAIN JET	1
20	*56624	CHECK VALVE	1
21	*56642	WELCH PLUG - float bowl channel	1

Index No.	Part No.	Description	No. Required
22	71493	SCREW & LOCKWASHER	4
23	90997	PUMP STOP SCREW	1
24	*90803	GASKET - pump stop screw	1
25	71506	SCREWPLUG - float bowl	1
26	*90808	INLET NEEDLE & SEAT <u>Includes</u>	1
27	**71513	GASKET - seat	2
28	**73270	GASKET - inlet check valve	1
29	*55314	CHECK VALVE - pump inlet	1
30	*90805-A	ACCELERATOR PUMP ASSY. <u>Includes</u>	1
31	91231	BOOT - pump	1
32	*71503	PINION SCREW - float lever	1
33	31855	FLOAT ASSEMBLY	1
34	*90804	GASKET - float bowl	1
35	90647-C	SPRING - choke return	1
36	A-90644-B	CHOKE SHAFT & LEVER <u>Includes</u>	1
37	90666	"X" WASHER - pivot retaining	1
38	80795	SCREW - fil. hd., 6-32x3/16	1
39	90665	SWIVEL - choke lever	1
40	*71521	SCREW - throttle shaft to pump	1
41	*90812	GASKET SET - (Til. GS-152)	1
42	90813-A	REPAIR KIT - (Til. RK-478)	1

* Included in REPAIR PARTS KIT
** Included in GASKET SET

Model MD-120B used on all engines above Serial No. 1374749.

Refer to Marine Service Bulletin #3-490 for modification of early Model MD-120A carburetor.

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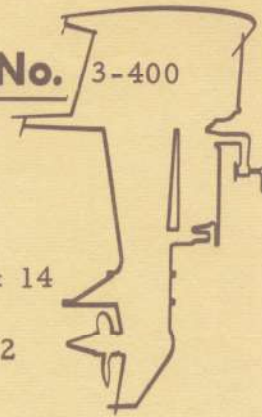
Part No. 23604-A
AM - Revised 4-63
Printed in U.S.A.

PERFORMANCE · DEPENDABILITY
SERVICE

HOMELITE

A **Textron** DIVISION

MARINE SERVICE BULLETIN No. 3-400



Distribution: 5 & 14

DATE: 3/19/62

TO: All Marine Dealers

SUBJECT: Carburetor - 460A Outboard

The parts shown on the left in the picture below are replaced by the parts shown on the right.

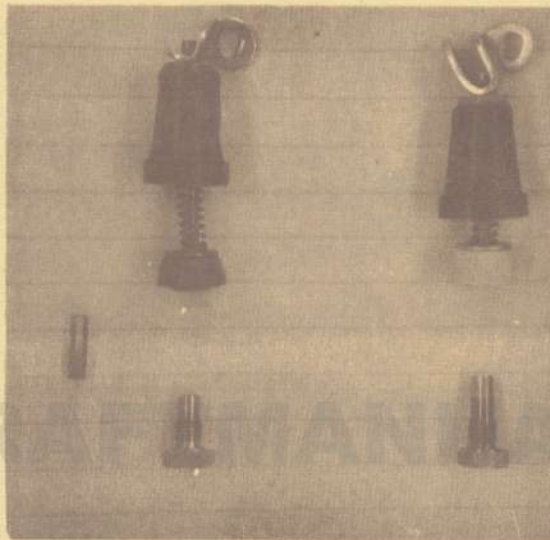
Old Plunger

New Plunger
90805-A

Spring

Short Stop Screw
(5/8" overall)

New Long
Stop Screw
90997
(3/4" overall)



The new plunger and longer stop screw combine to give still quicker acceleration when the throttle is advanced. With the new set-up, the spring which is housed in the flange of the float bowl is not used.

All engines above serial number 1374749 are assembled with the new components. Use the new parts to service all earlier carburetors. Also use new, lighter choke return springs Part No. 90647-C and new choke shaft and lever Part No. A-90644-B to service all earlier carburetors.

The above changes are incorporated in the attached Marine Engine Carburetor Parts List Supplement #1 and are summarized here for your convenience:

For carburetor service use new quick acting pump plunger 90805-A together with long stop screw (3/4" overall) 90997 but without spring in bowl flange.

Use new choke spring
and new choke shaft lever
Repair Kit with latest parts

90647-C
A-90644-B
90813-A

Walter N. Herold
Walter N. Herold
Service Manager

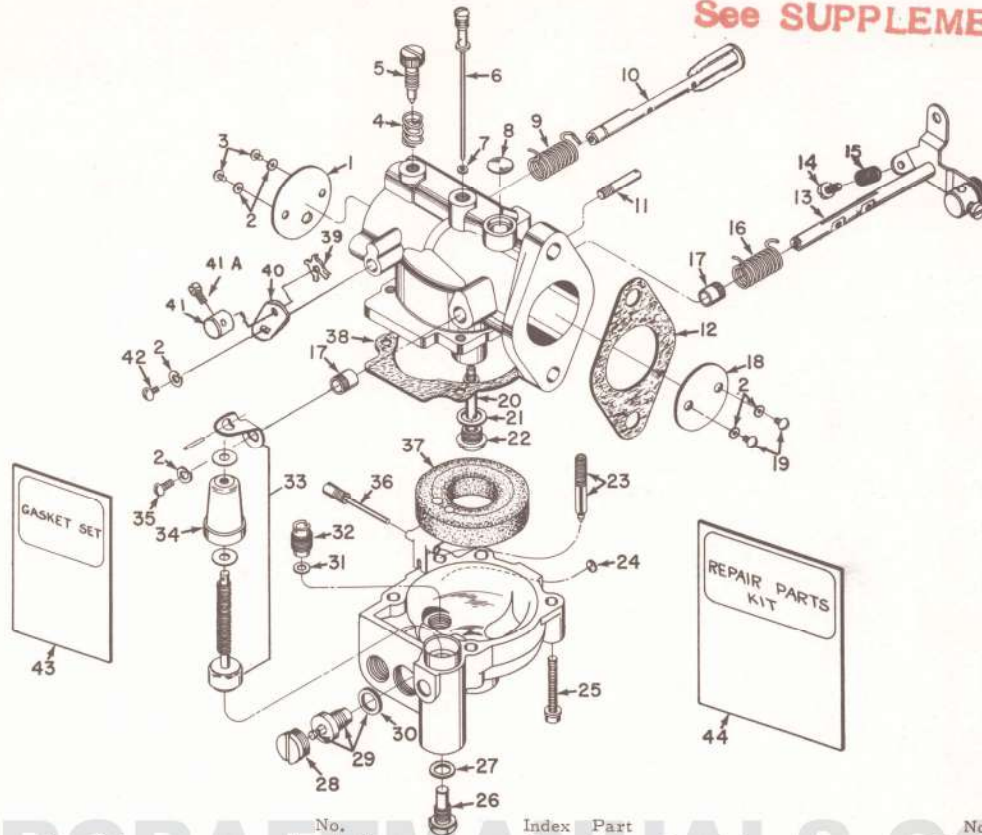
dm

CARBURETOR PARTS

HOMELITE 4-CYCLE - - 55 OUTBOARD

A-90250

See SUPPLEMENT I 



Index No.	Part No.	Description	No. Required	Index No.	Part No.	Description	No. Required
1	90626-A	CHOKE SHUTTER	1	25	71493	SCREW & LOCKWASHER	1
2	*83008-1	WASHER - lock, #4	5	26		PUMP STOP SCREW - (not available)	1
3	80658	SCREW - choke shutter	2	27	**90803	GASKET - pump stop screw	1
4	*90806	SPRING - idle adjusting screw	1	28	71506	SCREW PLUG - float bowl	1
5	*71507	SCREW - idle mixture	1	29	*90808	INLET NEEDLE & SEAT Includes GASKET - seat	1
6	*90807	IDLE TUBE	1	30	**71513	GASKET - inlet check valve	1
7	**71511	GASKET - idle tube	1	31	**73270	GASKET - pump inlet	1
8	*30818	WELCH PLUG	1	32	*55314	CHECK VALVE - ACCELERATOR PUMP ASSEMBLY Includes BOOT - pump	1
9	90647-B	SPRING - choke return	1	33	*90805	SCREW - throttle shaft to pump	1
10	A-90644-A	CHOKE SHAFT & LEVER	1	34	90636	PINION SCREW - float lever	1
11	28126	PIN - throttle stop lever	1	35	*71503	FLOAT ASSEMBLY	1
12	**90007	GASKET - flange	1	36	*31855	GASKET - float bowl	1
13	A-90643	THROTTLE SHAFT & LEVER Includes SCREW - 10-32 x 3/16	1	37	90666	"X" WASHER - pivot retaining	1
14	*71509	SCREW - idle stop	1	38	**90804	LEVER - choke actuating	1
15	*28064	SPRING - idle stop screw	1	39	90665	SWIVEL - choke lever	1
	90281	PIVOT - lever	1	40	80795	SCREW - fil. hd., 6-32 x 3/16	1
	90277	WASHER - pivot	2	41	80006-1	SCREW - rd. hd., 4-36 x 1/4	1
	90618	RING - pivot retaining	1	42	*90812	GASKET SET (Til. GS-152)	1
	80797	SCREW - 10-32 x 3/16	1	43	90813	REPAIR KIT (Til. RK-478)	1
16	90646	SPRING - throttle return	1				
17	90814	BUSHING - throttle shaft	2				
18	90943	THROTTLE SHUTTER	1				
19	*80591	SCREW - throttle shutter	2				
20	*90810	MAIN NOZZLE	1				
21	**71513	GASKET - main jet	1				
22	*90809	MAIN JET	1				
23	*90821	CHECK VALVE & SPRING pump outlet	1				
24	*56642	WELCH PLUG - float bowl channel	1				

* Included in REPAIR PARTS KIT

** Included in GASKET SET

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CARBURETOR PARTS

HOMELITE 4-CYCLE - 55 OUTBOARD

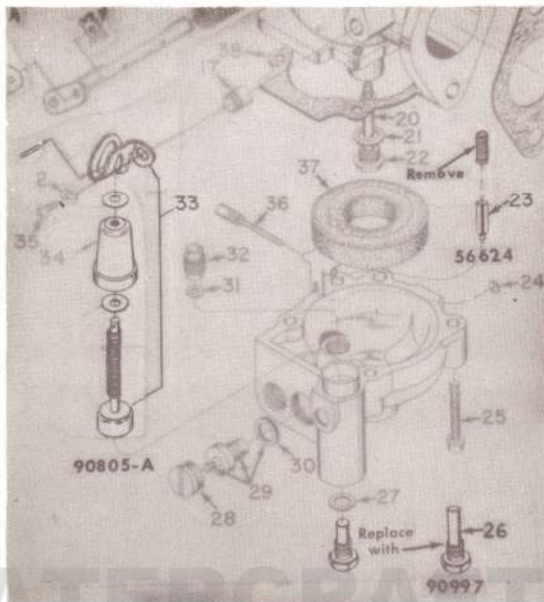
A- 90250

SUPPLEMENT #I

Recommended modifications when installing current service replacement parts. These parts supersede the original ones - PLEASE CHANGE PARTS LIST ACCORDINGLY.

Original Model - #MD 120A

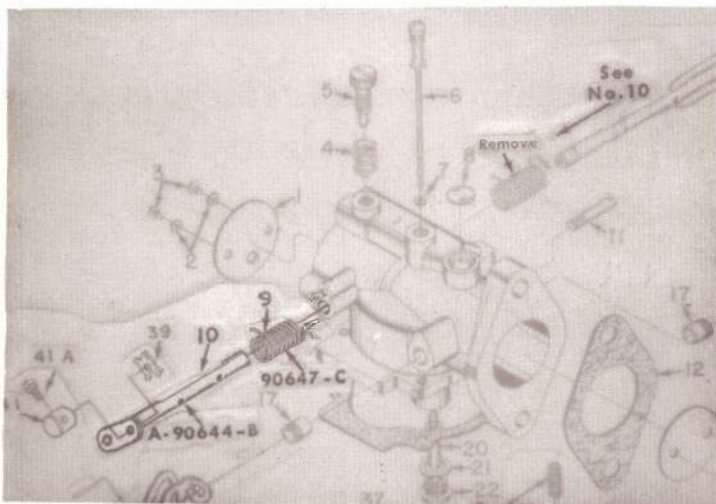
Modified Model - #MD 120B



Original accelerator pump (index #33) replaced by #90805-A. When new pump assembly is installed, original stop screw (index #26) must also be replaced with longer stop screw #90997.

Original check valve and spring assembly (index #23) superseded by check valve #56624 only. If original valve is still serviceable simply remove original spring.

Original choke shaft and lever (index #10) replaced by A-90644-B mounted on opposite side, as shown below. New shaft and lever no longer requires original choke actuating lever (index #40), lockwasher, or screw.



Original choke return spring (index #9) replaced by #90647-C mounted on opposite side, as shown. Old spring can be taken off without removing choke shaft; install new spring between original choke lever (index #40) and carburetor body.

REPAIR KIT (index #43) superseded by #90813-A which includes new accelerator pump and check valve.

HOMELITE PROPELLER SELECTION CHART

A CUSTOM MATCHED PROPELLER IS THE MOST CRITICAL SINGLE FACTOR IN ACHIEVING BETTER PERFORMANCE. It should be carefully selected for your Engine, Boat and Purpose. A propeller should permit your Homelite engine to turn at rated 5500 RPM. This is very important since excessive RPM can accelerate wear.

In Water Skiing the propeller makes all the difference. A skier when under way has about the same load effect as a passenger. On the pick-up, take-off or when up on a sharp turn, the load is much greater. For easier pick-up, maintenance of speed and pull out on turns, the special "loads and ski" wheels shown on recommendation chart are invaluable. For two or more skiers, select a pitch 1" lower than wheel recommended.

	<u>Homelite Part No.</u>	<u>No. of Blades</u>	<u>Diameter and Pitch</u>	<u>Boat Size</u>	<u>Application Recommendation</u>
One Engine	90853-17	2	11 1/2 x 17	Light Boats	Light Loads
	90853-16	2	11 1/2 x 16	Light Boats	Light Loads
	90853-15	2	11 1/2 x 15	Light Boats	Light Loads
One Engine	90852-14	3	11 1/2 x 14	Very Light Boats	Light Loads
	90852-13	3	11 1/2 x 13	15'-16' Runabouts	1-4 Passengers
	90852-12	3	11 1/2 x 12	15'-16' Runabouts	Loads & Skis
	90852-11	3	11 1/2 x 11	16'-17' Runabouts	Loads & Skis
	90852-10	3	11 1/2 x 10	18'-20' Offshore, Cruisers	All Loads
	90852-9	3	11 1/2 x 9	21'-22' Cruisers	All Loads
Two Engines	90852-12	3	11 1/2 x 12	18'-20' Offshore Cruisers	2 Engines
	90852-11	3	11 1/2 x 11	21'-24' Cruisers	2 Engines

HOMELITE 4-CYCLE -55
PROPELLER SELECTION CHART

Homelite Part Number	Michigan Part Number	Number of Blades	Diameter and Pitch	Application
90853-12	AJC-126	2	11 1/2" x 12"	16 - 17 foot standard runabouts
90853-13	AJC-127	2	11 1/2" x 13"	Light runabouts
90853-14	AJC-119	2	11 1/2" x 14"	Very light runabouts
90852-09	SMC-615	3	11 1/2" x 9"	20 - 22 foot cruiser or runabout
90852-10	*SMC-616	3	11 1/2" x 10"	18 - 20 foot cruiser or runabout
90852-11	*SMC-631	3	11 1/2" x 11"	16 - 18 foot cruiser, runabout, or ski boat
90852-12	*SMC-627	3	11 1/2" x 12"	15 - 16 foot runabout or ski boat
90852-13	*SMC-621	3	11 1/2" x 13"	Light runabouts
90852-14	SMC-623	3	11 1/2" x 14"	Very light runabouts

* Suitable for dual engine installation on 18' and larger boats.

Select a propeller which will allow the engine to operate at 5500 RPM. in no case should engine speed exceed 6000 RPM. The lower the full throttle RPM, the lower the fuel consumption will be.

Prober

HOMELITE PROPELLER SELECTION CHART

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