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C.W.F. HAMILTON & CO. LTD.

EDITION FOR 772 & 773 MODELS WITH T3 STEERING (Identified by letters 'T3' cast on sides of steering deflector)

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1 Introduction

This manual contains important information regarding the operation, care and maintenance of your Hamilton 770 Series Jet Unit. Its new features include a single deflector for light, positive steering, a removeable inspection cover to allow easy access for removing any debris which may find its way into the intake and a new 2 position nozzle which allows a trim change for a boat. In order to obtain the maximum benefit from your jet unit, we suggest that you familiarise yourself with the contents of this manual and follow the recommendations laid down.

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication. The right is reserved to make changes at any time without notice, so always quote both model and serial numbers in any correspondence regarding your jet unit.

We would like you to obtain the utmost performance and satisfaction from your 770 Jet Unit, so if you intend to install it into a boat yourself, we strongly recommend that you obtain 770 Series "Workshop Manual" from your Hamilton Jet Dealer. The information includes the selection and matching of a suitable hull, engine, coupling and control system, installation etc.

2 Scope of Use

The 770 Series Marine Jets are designed for the efficient propulsion of small and medium sized high speed (over 20 knots) planing craft, and to be driven by conventional gasoline inboard engines. If used as recommended, they will give brisk acceleration, excellent power for water-skiing, and economical load-carrying for family, sporting and utility purposes of all descriptions.

These units can be used on heavier and larger boats, displacement craft, and a variety of special purpose vessels, with approximately equal efficiency to a direct-drive propeller. However, at these low speeds, efficiency is reduced. If the units are to be used outside their design range, the manufacturers should be consulted for guidance.

IMPORTANT

Generally, therefore, it is recommended that they be confined to the lighter, fast class of craft usually trailered (or slipped) when not in use. The units are built from lightweight materials for high performance. They can be used freely in the sea but to avoid problems with fouling and excessive corrosion, it is recommended that they are slipped or trailered when not in use.

3 Specification

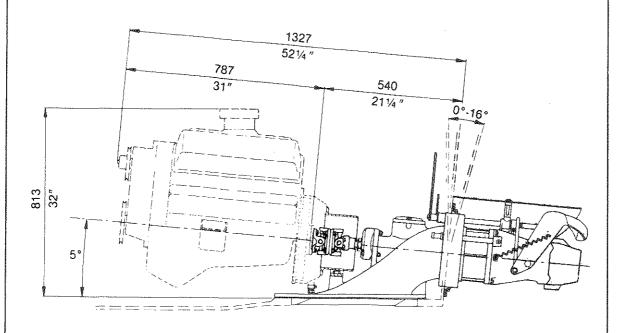
MODEL	771	772	773
No. of stages Impeller Diameter Nozzle Numbers (std) Nozzle Options Engine Size Horsepower Range Drive adaption Jet Unit Weight Boat Size Unladen Boat Weight (Maximum) Rotation Impeller Options		2 190mm 7½" 106mm 96mm 3-5.7 litres 180-350 C.I.D. 100-240	3 190mm 7½" 96mm 106mm 4-8 litres 250-500 C.I.D. 130-300* SAE spline 59 kg 130 lb 4.9-8m 16'-26' 1600 kg 3500 lb Left Hand Standard Coarse
*for applica	ations over 300 hp a	racing version is a	vailable

NOTE: Only use high H.P. and high R.P.M. (over 4500 r.p.m.) on light high performance pleasure craft. Use lower R.P.M., and move up one stage for heavier craft and commercial operation. For heavy duty and commercial work requiring over 250 H.P., use a racing version.

Standard nozzles are fitted unless options are requested. Standard pitch impellers are fitted unless optional fine or coarse impeller options are requested.



Typical Assembly



Typical assembly showing 302 c.i.d. Ford V-8 short 'H-Bar' drive shaft, rear engine mount kit and Hamilton 772 jet unit

5 Pre-Start Check

Although most of the settings are done at the factory, the following points should be checked after the unit has been installed in the boat. It is also advisable to go through all the checks listed in the Owner's Manual of the engine you are using.



LEAKS

With boat well laden at the back, check for leakage at the transom seal and intake joint. Well prepared surfaces and proper use of sealing cement provide leak proof joints.



STEERING

The steering wheel should have no undue slack. If it has, check that the steering wires are taut, and adjust if necessary.



REVERSE BUCKET

Make sure that the reverse bucket operates freely.



DRIVE SHAFT

The drive shaft universals should be greased sparingly. (See Section 7—Maintenance).



BEARING

The thrust bearing should be greased with a water repellant, Lithium based grease, using an ordinary grease gun on the nipple provided. DO NOT OVERGREASE. (See Section 7—Maintenance).



ELECTRICAL AUXILIARIES

Batteries, radio transmitters, or other electrical equipment should NOT be earthed to the Jet Unit. It is safer to use an independent grounding plate which is electrically isolated from both the Jet casing and from the engine.



INSULATION

The rotating parts of the Jet units are electrically insulated from the aluminium casing to prevent electrolytic corrosion in sea water. Insulation is by tufnol washers, insulating film on the front bearing housing, and rubber in the rear bearing.

When a new boat is being fitted out, it is most important that the insulation should not be short-circuited by external fittings such as control links, fuel lines, steering cables or engine mountings which could provide an electrical circuit from the rotating shaft, through the engine, and back to the aluminium Jet casing. The use of rubber couplings insulates the engine from the jet shaft.

To check the insulation, use an ohm-meter or a bulb and battery (3-12 volt) between the casing and the mainshaft of the Jet Unit while it is out of the water and the engine is stationary. The resistance under these conditions should not be less than 1000 ohms (or, if you are using a bulb it should not light). A rear bearing, damp with sea water, may show a slightly lower resistance, but a metallic short circuit, which is dangerous, usually shows a very low resistance (under 10 ohms) and a test light will glow.

If there is a short circuit, find the cause and remove it.

To test the Jet Unit alone, remove the coupling shaft and repeat the test, revolving the shaft slowly by hand.



LOADING

Do not carry more weight aboard than is absolutely necessary. Remember, a high speed planing hull is very sensitive to weight.

STARTING OFF & STOPPING

Find a suitable place to launch the boat. Drive the trailer back enough to submerge the jet intake into the water. (If there is a proper launching ramp then there is nothing to worry about but if you are launching at a lake shore or river bed, make sure that you can drive the trailer out with the boat on it).

Start the engine, engage reverse and open throttle slowly to get the boat in the water. If you are in shallow water with a shingle bed, do not open full throttle to take off as this will suck the shingle into the unit damaging the impeller blades.

With the engine idling, or with small throttle opening, manoeuvre into deep water. Now open throttle fully until the craft is planing clear and then ease the throttle back to economical cruising revolutions (generally 75% of Max.), and maintain planing speed. Avoid driving in the 10-15 m.p.h. range as at these speeds, the draught and drag are at maximum.

STEERING

Try your steering and make sure you get the feel of it. Steering is achieved by deflecting the jet, so the engine must always be running to get any steering. The larger the throttle opening, the greater the steering effect.

NEVER—repeat NEVER stop the engine when approaching a mooring, rapid or any situation when steering would be required. With the engine stopped, there will be NO steering available.

REVERSING

Reverse thrust is obtained by directing the jet stream forward under the boat hull. Once again, reverse is only available when the engine is running. The boat can be brought to a stop from speed by engaging reverse with throttle closed and then opening the throttle slowly. FULL THROTTLE OPENING could be dangerous in this condition, as instant reverse thrust is obtained.

It is possible to creep forward or backward by moving the reverse lever towards forward or reverse. It is also possible to steer the boat in reverse and neutral. It must be noticed that the steering in reverse is opposite to that of car steering, a feature that can be used to advantage when manoeuvring. An easy way to remember is that "the bow goes in the same direction as the steering wheel is turned" or "whichever way the wheel is turned—the bow will go the same way".

It is also possible to rotate the boat when neutral is engaged.

These manoeuvres need some practice but with experience they will enable you to handle the boat in extremely difficult conditions which would prove almost impossible in a conventional propeller driven boat.

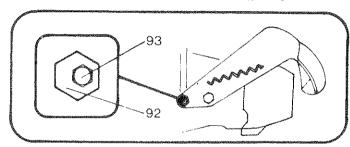
After the boat is launched, the neutral position should be checked as follows:-

(a) Select the neutral position on the reverse lever.

(b) Run the boat at a fast idle in open water with no current or wind, with the steering straight ahead.

(c) If the boat moves forward, rotate the adjusting sleeves to lower the reverse bucket a little.

(d) If the boat moves astern, rotate the adjusting sleeves to raise the bucket.



- (a) Loosen bolt (93)
- (b) Rotate both adjusting sleeves (92) to raise or lower the reverse bucket.

Important: Take care that the eccentric sleeves are set in identical positions on either side.

(c) Hold adjusting sleeve in position and tighten holt

BLOCKED INTAKE SCREEN

During operation in debris laden water, the intake screen of the jet unit might get clogged. Floating sticks, weeds and leaves are the worst offenders. The effect is falling off in thrust and speed, and in extreme cases, increased noise from the jet unit. Close the throttle momentarily and switch off the engine for a few seconds. In most cases it will fall from the screen bars. If this fails, stop the engine and remove the blockage manually with the rake provided, or by removing the inspection cover to gain access to the intake.

CAUTION: Before removing the cover, make sure that it is above the water-line and if

not, shift ballast to the bow of the boat.

In shallow waters over shingle beds, full throttle sucks in the shingle and blocks the screen. Once again, the engine should be stopped for a short time to drop off the shingle. However, this problem will not be encountered while running at a reasonable speed over shallows or weeds.

Two types of intake screens are available:—

(a) Solid bar screen for stony conditions, and where the bottom may be encountered frequently.

(b) Free-finger "comb" intake screens for weedy conditions. NOTE: This screen should not be used if a stony bottom is to be encountered, as stones can pass the flexible bars and can seriously damage the interior of the unit.

BLOCKED WATER DELIVERY TUBE

Lack of cooling water flow is sometimes caused by a blocked water delivery tube, and can often be noticed by the increase in exhaust noise even before it shows on the temperature gauge. Switch off the engine and clear debris from water delivery tubes (58).

7 Maintenance

This unit has been designed to require the absolute minimum of maintenance. The main moving parts which may require occasional attention are described below. Routine checks and lubrication at regular intervals will ensure a long trouble-free life.

THRUST BEARING

This is a special high thrust capacity duplex ball bearing with separate grease seals. The bearing should be lubricated after every 30 hours' use with a water repellant Lithium based grease (Shell Alvania R2 or equivalent).

REAR BEARING

This is a water lubricated, Cutless rubber bearing. It requires no attention. DO NOT RUN THE UNIT OUT OF WATER as this will damage the bearing. Because there will be no cooling water, the engine could also be damaged.

DRIVE SHAFT UNIVERSALS

Grease the joints sparingly after every 30 hours' use, as for Thrust Bearing. Do not overgrease.

MAINSHAFT SPLINE

This should be smeared with water repellant lithium based grease prior to assembly with mating spline on 'Drive shaft' or 'Companion flange'. Inspect regularly that spline is not dry of grease. Strip and repack with grease as necessary or annually.

REVERSE & STEERING MECHANISMS

Occasionally check all bolts for tightness. Make sure the cotter pins are tight when reassembled. Check bushes for wear.

ROMET SHAFT SEAL

This is a carbon face seal with a bronze counterface and needs no attention. If a leak appears below the bearing housing, this is an indication of a cracked or chipped carbon face. Replace it with another seal. For details see Service Information, Section 8.

TRANSOM SEAL

Occasionally inspect the rubber to check that it is sealing effectively and is in sound condition.

SALT WATER OPERATION

This unit is designed for high speed planing craft where light weight is important. Therefore aluminium alloy components have been used. Use freely in the sea, but the boat should be trailered or slipped and flushed with fresh water or given a short run in fresh water before extended storage.

If it is used extensively in salt water, it is recommended that all casings and seals be inspected regularly. Occasionally dismantle and inspect all internal and external surfaces for corrosion. Rubber seals should be replaced where required. Protective spray on machinery, fittings, wirings, instruments, etc is recommended.

STORAGE

Always clean down the whole boat, and wash inside and out with fresh water (and detergent if desired). Hose out interior of jet unit through the intake and the nozzle. Allow to dry completely, and spray with a suitable corrosion protection liquid. Oil and lubricate all moving parts, including the steering gear and deflector pins and pivots. Keep well aired in storage to avoid condensation.

CORROSION PROTECTION

For salt water operation, the protective sacrificial ZINC ANODE (136) is provided. Check constantly the condition of the anode and replace when approximately half original size.

NOZZLE TRIM

NOZZLE DOWN (standard position)—tips jet stream downwards. This gives best all round boat performance.

NOZZLE UP—tips jetstream up. This normally gives maximum boat speed. To assemble with nozzle up—remove the cotter pin (79) from the steering crank (84), pushing the steering shaft forward to remove the crank. Remove the nozzle (68) and steering deflector (90) assembly by removing 4 nuts (63).

Remove the split pins (89) and pivot pins (88) to separate nozzle and deflector. Turn the nozzle upside down and reassemble into steering deflector. Reverse above procedure to reassemble unit.

The adjustment of the reverse bucket now has to be altered by adjusting the eccentric bushes (92). (On early model 770 units, reverse bucket adjustment was achieved by refitting the two bolts (93) into the alternative holes in the reverse yoke (91). Later model units only have one hole).

WARNING—with the nozzle up the jetstream may cause annoyance to other boats nearby. The up position is not recommended for water skiing.

Service Information

THRUST BEARING, GREASE SEAL & CARBON SEAL: REMOVAL

Undo the two nuts and remove the inspection cover (9) to withdraw split pin (135) inside the intake. Remove the drive shaft. Back off the set screw (130) and unscrew the retaining nut (129). The retaining nut can now be removed by engaging it with the spline on the shaft and sliding it forward. Carefully remove the front bearing spacer (127). Undo the three nuts and bolts (22 and 24) and carefully remove the bearing housing (120) with the bearing inside. One half of the bearing race will probably stay on the shaft. Remove this and keep with the bearing. DO NOT EXCHANGE THE BEARING INNER RACE HALVES. KEEP THE BEARING CLEAN. Remember with this type of thrust bearing, even a new one will have considerable slack. Therefore, excessive noise, obvious water damage or wear on the inner races and balls should be the only reason to replace the bearing. The bearing is locked tight inside the housing for insulation purposes and if it needs replacing it can be bought as a unit from the factory or your Hamilton dealer.

To remove the grease seals continue by removing the O-ring (125), locating ring (126) and the rear bearing spacer (127). Check the bearing spacers for wear caused by the seals (124). Check the seals in the bearing housing and locating ring for wear and

replace if necessary.

A worn or damaged carbon seal is indicated by water leakage from the hole beneath the bearing housing. To remove the carbon seal continue by removing the shaft slinger (132). The seal face (133) and carbon seal assembly (134) can now be removed by reaching into the intake and pushing them off the shaft. If the seal face is difficult to remove, two bolts (22) may be screwed into the tapped holes in the seal face to allow it to be pulled out. Inspect the sealing faces carefully and if they are scored or chipped they should be replaced. The seal can be bought from the factory or dealer as a unit.

ASSEMBLY

Assembly is the reverse of removal. Oil or grease the shaft surface before sliding the carbon seal assembly on the shaft with spring retainer, spring, flat washer. O-ring, carbon seal in that order. When replacing the bearing housing some difficulty may be experienced with one inner race half, which may need to be pushed on with the retaining nut. Tighten the retaining nut to 70-80 lb. ft. torque. Retighten the set screw. Refit the split pin, and inspection cover. Check that the shaft turns freely, regrease the shaft spline and the bearing with Lithium based water repellant grease, then refit the drive shaft.

IMPELLER: REMOVAL

Remove the two nuts and bolts (111 and 109). Then remove bolt (107), splash guard (113), and support (106). Remove bucket spring (86). Remove nuts and cotter pins (79) from the reverse and steering cranks (77 and 84) and remove both cranks by pushing the shafts forward slightly. Remove the six stud nuts (13) and withdraw the tailpipe (62). The two water delivery tubes (58) will now be free and care should be taken of the four O-rings (61). Prevent the mainshaft from rotating and undo the mainshaft nut (49) and remove washer (44), bearing sleeve (128), impeller (41), and key (48). (For two or three stage units, continue with stator casing (59) next bearing sleeve, impeller and key etc.) Take care not to damage the large O-ring in the tailpipe and stator casing recesses. Blunt leading edges on impellers can reduce performance considerably, so the edges should be kept reasonably sharp, but take care to sharpen only as shown in the diagram. Tip clearance of impeller blades should not be more than .060" (about 1-16")

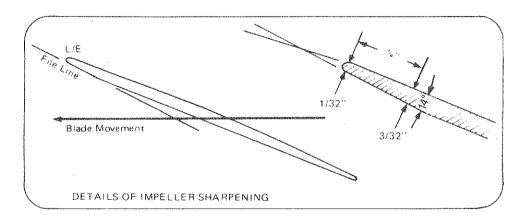
for best performance.

ASSEMBLY

IMPORTANT. Clean all traces of grease from the bearing sleeves. It is often helpful to dust the sleeve with French Chalk to act as a lubricant for the bearings during assembly. When the sleeve measures about .007" under 1½" diameter by micrometer, replacement is advised. The cutless rubber bearing should be replaced if wear is apparent on the fluted surfaces by eye, and the new sleeve is excessively slack. Make sure all parts are clean, and grease all mating surfaces. Fit keys in keyways in shaft, and slide impellers over shaft and key. Slide on bearing sleeves and when tightening the nut, ensure that the washer is central, otherwise it can prevent the tailpipe from fitting on.

Tightening torque for the mainshaft nut is 70 lb.ft.

Note: Both the steering and the reverse crank cotter pins are fitted from left to right looking forward i.e. from port to starboard (nut on starboard side).



GENERAL

If you dismantle the unit, it is generally worthwhile examining the seals, bearings, grease seals and impeller at the same time. A complete check just before the start of the season usually pays dividends in terms of assured reliability and peak performance.

OPTIONAL EQUIPMENT

The following parts are available extras for your 770 series jet unit:

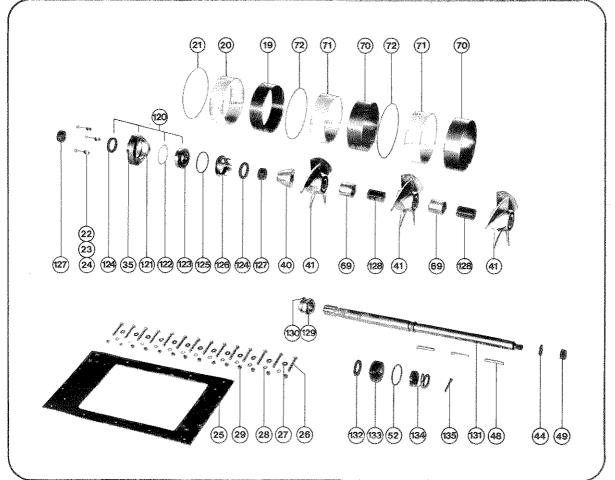
Hatch Extension — use where waterline is above intake inspection hatch level.

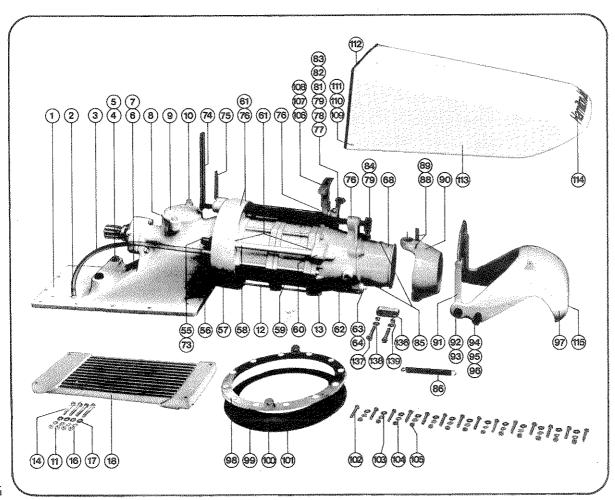
Free Finger intake screen — use in weedy conditions, but not suitable in stony conditions.

Aluminium bar intake screen — for sea water use.

Fin — aids directional stability if needed.

To to





Intake Assembly

Note — Always supply the serial number of your jet unit when ordering parts.

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		771		772	***************************************	773	
Item	Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Intake Housing Male hose connector Hose Bolt Washer Name plate Patent Plate 'O' ring Inspection cover Inspection cover stud Lock Nut Intake tailpipe stud Nut Bolt Washer Fibre washer Intake screen * Wear ring Wear ring Wear ring insulator 'O' ring Bolt Flat washer Nut Intake gasket M/C screw Washer Fibre washer Nut * Optional Screens: Free finger Aluminium bar			102319 63370 63373 HZJC ABQ JELK AAH 63097 63135 HMHO BHO 102320 102321 JDQS AAD 102324 JDJC AAC HYJC AAR JELK AAD 61213 103113 JE 185 JE 147 HMHO BEH HYJC ABF JELK AAE JDJC AAD 103149 HZJW AAX JELK AAD 61213 JDJC AAC	1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 4 + 2 6 6 4 4 4 4 4 1 1 1 1 1 3 3 3 3 1 1 1 1 4 1 4	JEJC AAD 103149 HZJW AAX JELK AAD	2 1 1 1 2 1 4 + 2 6 6 6 4 4 4 1 1 1 1 1 3 3 3 3 1 1 1 4

Shaft and Bearing Housing Assembly

		771		772		773	
Item	Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
125 126 124 127 40 41 128 129 130 131 48 44 49 132 133 52 134 135	Bearing Assembly Consists of:— 121 — Housing 122 — Tufnol washer 123 — Bearing 35 — Grease nipple 124 — Seal 'O' ring Locating ring Oil seal Bearing spacer Thrust collar/fairing Impeller (standard)* Bearing sleeve Retaining nut Set screw Shaft Key impeller Washer Nut Shaft slinger Seal face 'O' ring Carbon seal Split pin * Optional Impellers: Fine pitch Coarse pitch			103377SY 103376 JH 209 JNOD ACG HEID AAA 61315 HMHO BCN JH 252 61315 JH 204 JH 107 JH 106 JH 159 103848 JAJM PAK 103374 JH 239 JH 117 JDLA AAG JH 251 JH 250 HMHO BCF 61318 HUIL AAZ	1 1 1 1 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	JNOD ACC HEID AAA 61315 HMHO BCV JH 252 61315 JH 204 JH 107 JH 106 JH 159 103848 JAJM PAK 103375 JH 239 JH 117 JDLA AAG JH 251 JH 250 HMHO BCF 61318	111273271337711111111111111111111111111

Booster Assembly

(T3 Steering Models - 'T3' cast on sides of Steering Deflector)

-	TO COMMUNICATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION		*	
		771	772	773
Item	Description	Part No. Qty.	Part No. Qty.	Part No. Qty.
55 56 57 58 59 60 61 62 63 64 136 139 68 69 70 71 72 73	Water off-take Male hose connector Seal plate Water delivery tube Stator Screen spring 'O' ring Tailpipe Nut Stud (tailpipe to nozzle) Anode Bolt Washer Nut Nozzle (standard) — T3 * Bearing (cutless) Wear ring Wear ring insulator 'O' ring Plug * Optional Nozzles — T3 Smaller Larger		102333 2 102326 1 JE 309 2 HMHOBCC 2+4 103358 1 JDJC AAC 4 103250 4 103359 1 HYIU PAX 2 JELH PAD 2 JDKB PAD 2 104708 1 JH 160 2 JE 185 1 JE 147 1 HMHO BEH 1	1

Control Assembly

(T3 Steering Models — 'T3' cast on sides of Steering Deflector)

		771		772	773
Item	Description	Part No.	Qty.	Part No. Qty.	Part No. Qty.
74 75 76 77	Steering shaft assembly Reverse shaft assembly Bush (control shaft) Reverse crank assembly Consists of:— 78 — Reverse crank & pin			103223 1 103229 1 JE 248 1+1 103476·SY 1	103222 1 103228 1 JE 248 1+1 103476 SY 1
84 85 86 88 89 90 91 92 93 94 95 96 97	79 — Cotter pin assembly: 81 — Split pin 82 — Roller 83 — Washer Steering crank Deflector bush — T3 Spring Deflector pivot pin — T3 Split pin — T3 Steering deflector — T3 Reverse yoke Yoke eccentric bush Screw Bucket pivot sleeve Bolt Flat washer Reverse bucket			HUIL AAC 1 102876 1 63368 2 103169 1 104719 2 102364 1 104713 2 HUIL AAZ 2 104711 1 103175 1 103176 2 HZJC AAV 2 103181 2	HUIL AAC 1 102876 1 63368 2 103169 1 104719 2 102364 1 104713 2 HUIL AAZ 2 104710 1 103175 1 103176 2 HZJC AAV 2 103181 2 HZJC ABR 2

Transom Seal Assembly

		771		772		773	
Item	Description	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.
98 99 100 101 102 103 104 105 106 107	Insulating bush Transom plate Transom seal Seal spring M/C screw Flat washer Fibre washer Nut Splash guard support Bolt Flat washer			JE 262 102331 102330 102336 HZJX AAT JELK AAC 61213 JDJC AAC 103182 HYJC ABI JELK AAE	1 1 12 12 12 12 12 11	JE 262 102331 102330 102336 HZJX AAT JELK AAE 61213 JDJC AAC 103182 HYJC ABI JELK AAE) 12 12 12 12

Miscellaneous Parts

		771		772		773	
Item	Description	Part No.	Qty.	Part No.	Qty.	Part No. (Qty.
109 110 111 112 113 114 115 116 117	Bolt Flat washer Lock nut Sealing strip Splash guard Hamilton jet sticker (transom) 770 jet sticker Foil sticker* Screen rake*			HYJC AAN JELK AAD JDQR AAC 102543 102978 63349 63383 63234 J 656 SY	2 2 1 1 1	HYJC AAN JELK AAD JDQR AAC 102543 102979 63349 63383 63234 J 656 SY	2 2 2 1 1 1 1 2