

# **M48 HYUNDAI** OWNERS MANUAL

SERIAL #:\_\_\_\_\_ ENGINE #:\_\_\_\_\_

# **WARNING**

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THIS EQUIPMENT SHOULD NOT BE OPERATED BY ANYONE UNDER THE AGE OF 18.

# LIMITED WARRANTY

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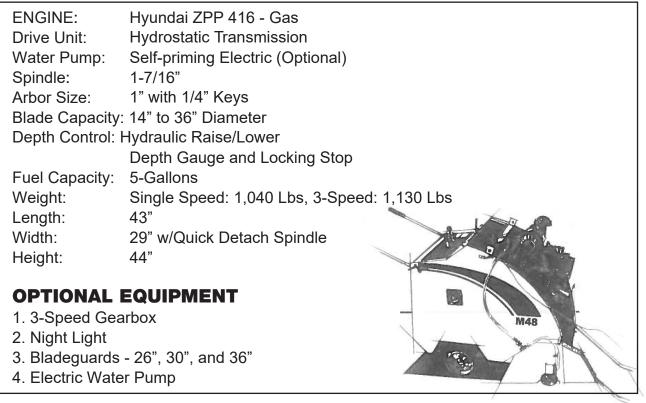
#### **EXCLUSIONS FROM WARRANTY:**

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# **M48 SAW INFORMATION**

1. This Manual provides the basic instructions for the operation and maintenance of the M48 concrete saw. All saw manuals are also available for download on our website at www.morleysaws.com. An engine manual is also provided with each saw.

# 2. M48 - WATERCOOLED:



3. The new machine was test-run before leaving Morley Equipment Company, however, check all fluid levels before operation.

# 4. LUBRICATION/SERVICE CHART

ITEM	CHECK	LUBRICANT
Hydrostatic Drive (F/R)	Monthly	20W-50 Motor Oil
Air Filter	Weekly	Service as required
Hydraulic Pump (R/L)	Monthly	ATF
Spindle Bearings	Daily	Grease
Pivot Axle	Weekly	Grease
Front Wheels	Weekly	Grease
Radiator	Weekly	Check coolant levels
Gear Box	Monthly	85W 140 gear oil

5. To adjust or replace the belts, loosen the 1/2" "pinch" bolts, one on either side at the front of the motor base plate, and the two 5/8" bolts that run vertical at the front of the motor plate. This allows the motor to be raised or lowered, loosening the belts for replacement or tensioning. Then raise the motor and tighten the bolts after belt replacement or to adjust tension. It is important that the tension is just enough to drive without slipping. Too tight shortens bearing life, too loose shortens belt life (Spindleshaft Belts -(6) 3VX425, Single Speed & 3-Speed.)

# **CONTROL OPERATING INSTRUCTIONS**

- 1. **WATER SUPPLY:** Connect the water supply to the inlet fitting, and open the water valve to control the flow.
- 2. **RAISE/LOWER:** By pulling back the Raise/Lower lever, a handle activates a hydraulic pump to raise the saw. Push the lever forward to lower the saw. You can control the lowering speed by opening the valve gradually. For adjusting the handle assembly, see Raise/Lower Valve Adjustment page.
- 3. **SPEED CONTROL:** The Forward/Reverse lever determines forward and reverse speeds, with a "neutral" position in between. By pushing the speed control lever forward, the saw will move forward at variable speeds. Pulling the lever back does the same in reverse.
- 4. **BLADE FITTING:** Remove spindle nut with provided blade wrench. On the right hand side of the machine is the reverse thread. Install blade and tighten nut with wrench and hammer provided. Ensure blade guard is secure before starting.
- 5. **STARTING THE ENGINE:** See Engine Manual.
- 6. **POSITIONING THE SAW:** This is a rear-pivot saw. It's designed to be maneuvered on the rear wheels. Position the handlebars to suit the operator. Pushing down on the handlebars will lift the front wheels off the ground, allowing you to maneuver the saw left or right.

- 7. **CUTTING:** Lay out the cuts using a chalk line or string and paint. Align your pointer guide with the blade, pointer guides do not come aligned from the factory. When aligned and positioned, turn on the water and lower the saw to desired cut depth, then drive the saw forward to a comfortable cutting speed. It is recommended to step-cut i.e. take several passes to reach desired depth. If step-cutting, return the saw to the original insertion point and lower the blade to the secondary depth and repeat the cut.
- 8. **CLEANING:** The entire saw should be thoroughly washed weekly or as required. Use caution when cleaning near the electrical components. Be sure to clear any debris -dust, slurry, etc. out of the radiator's cooling fins as required.
- 9. **STORAGE:** Always lubricate the saw after cleaning. A fine coat of WD40 will help remove future slurry.
- 10. **CALIBRATION:** Always check alignment. The spindleshaft and rear axles must be aligned to insure the saw travels straight and the blade moves parallel to the rear wheels.
- 11. **REPLACEMENT PARTS:** All replacement parts must be ordered from Morley Equipment Company or an authorized distributor to effect Warranty. Please supply saw Model and Serial Number if possible when ordering parts.
- 12. **QUESTIONS AND CONCERNS:** Should you have any questions relative to the operation or servicing of your equipment, do not hesitate to contact **Morley Equipment Company** at **(951) 894-5558**; or Email us at **morleyequipco@gmail.com.** A Parts List for the saw is also available online at **www.morleysaws.com**.

# M48 PARTS LIST

### SPINDLESHAFT ASSEMBLY

PARTS#	REQUIRED	DESCRIPTION
1100-48 1101-48 1115-48 1116-48 1104-48 1105-48	1 2 2 1 1	Spindleshaft Pillow-blocking Bearing 4 1/2" Inner Collar 4 1/2" Outer Collar Left-hand Nut Right-hand Nut
1106-48 1107-48 1120-48 1109-48 1111-48	1 1 1 2 6	Sheave Bushing Key - 3/8" Key - 1/4" 3VX 425 Belt
1118-48 1119-48	1 1	Left-hand Spindle Stud Right-hand Spindle Stud
	FRON	T AXLE ASSEMBLY
5100-48 2112-48 3002-48 5004-48 2104-48 2105-48 2106-48 2114-48	1 2 2 2 1 1 1	Weldment Axle - 1" Front Wheel - 6" x 2" Collar - 1" Pillow-block Bearing - 1" Pin - 5/8"x3.5" Depth Gauge, Cable, and Spring Pin - 5/8"x3"
	HYDRAULIC	RAISE/LOWER ASSEMBLY
3100-48 3101-48	1 1	Pump Motor Flow Control Valve

3102-481Hydraulic Cylinder3103-481Raise/Lower Assembly3106-481Solenoid

# HYDROSTATIC DRIVE ASSEMBLY

PART#	REQUIRED	DESCRIPTION
4100-48 4101-48 4102-48 4103-48 3001-48 4105-48 4105-48 4106-48 4107-48 4201-48 4109-48 4110-48 4111-48 4112-48 4112-48 4113-48 41010-48	1 2 1 2 2 1 1 1 1 2 1 1 2	Pump Wheel Motor Positraction Manifold Wheel Hub Wheel - 10"x3" Filter Assembly Filter - Hydrostatic Oil Reservoir - Plastic Forward/Reverse Lever Assembly Drive Cable 26" Drive Cable 26" Drive Cable 33" Hydrostatic Pump Belt – 4L3400 or A-32 Wheel Motor Bracket Hydrostatic Drive Pump Bracket Cable End - Balljoint
	1	POINTER ASSEMBLY
5100-48 5101-48 5102-48 5103-48 5105-48	1 1 2 1 2	Weldment 3" Pointer Wheel Delrin Bushing Pointer Cable Pointer End
		FRAME CONSOLE
6100-48 6101-48 6102-48 6103-48 3041-48 6106-48 6106-48 6107-48 3022-48 3022-48 3026-48 6115-48 6115-48 6118-48 2111-48 2119-48	1 1 1 1 1 1 1 2 2 1 1 1 1	Mainframe Console Belt Guard - Left Side Belt Guard - Right Side Back Cover Fan Guard - Left Side Access Panel - Electrical Handlebar Locking T - Handle 5 Gallon Fuel Tank Gas Cap Lower Depth Stop Rod Assembly Upper Depth Stop Rod Assembly

## FRAME CONSOLE Continued:

PART#	REQUIRED	DESCRIPTION
6124-48	2	Fuel Tank Hold-down Strap
		ENGINE
7100-48	1	Hyundai 1.6-Liter, Gas
7101-48	1	Bellhousing
7102-48	1	Output Shaft/Drive Assembly
20000-48	2	Bearing - 6208
7102-C	1	Output Drive Shaft
7102-D	1	BoWex Male Coupler
7102-DG	1	BoWex Female Coupler
7103-48	1	Air Filter
7104-48	2	Air Filter Element
4183-48	2	Air Filter Hose - 2" 90° Elbow
7107-48	1	Air Filter Bracket
7108-48	1	Exhaust/Catalytic Converter
7124-48	1	Fuel Pressure Regulator
6117-48	1	Fuel Pump
6114-48	1	Fuel Filter

### **BLADEGUARD ASSEMBLY**

8100-48	1	Water Distribution Block w/Hose Fittings
8181-48	2	Outlet Water Hose - 1/4"
8102-48	1	Inlet Water Hose - 1/2"
9110-48	1	Water Valve
8104-48	1	Mud Flap
8105-48	1	20" Blade Guard
8106-48	1	26" Blade Guard
8107-48	1	30" Blade Guard
8108-48	1	36" Blade Guard

# **COOLING SYSTEM**

7711-48	1	Radiator
3009-48	1	Spal Fan
7774-48	1	Spal Fan Relay
7719-48	1	Spal Fan Relay Harness

### CONSOLE

PART#	REQUIRED	DESCRIPTION
9124-48	1	Tachometer
9101-48	1	Emergency Shutoff Switch, ABB
9106-48	1	Ignition Switch
9117-48	1	Throttle Switch
9104-48	1	Engine Service Indicator Light
9113-48	1	Console Sticker Set

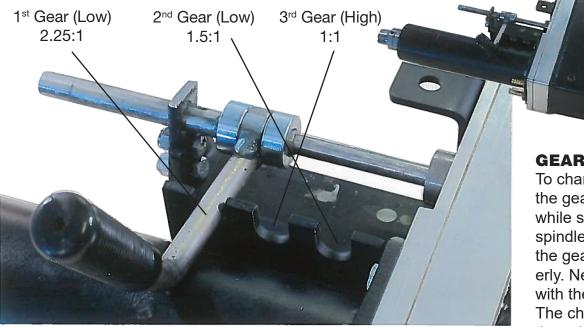


### RAISE FLOW CONTROL VALVE

Inside the rear access panel above the radiator on the left side is a needle valve that allows you to adjust the raising speed. Your saw comes with the raise speed pre-set at the factory. This valve allows you to reset the speed to suit your needs.



# M44D/M48 3-SPEED GEARBOX OPERATION



#### SPINDLESHAFT SPEED W/3 SPEED GEARBOX

#### M44D KUBOTA/M48 HYUNDAI

ENGINE RPM	2600	2700	2800 Optimum	2900	3000
	SPII	NDLESH	AFT SPEE	D – rpm <sup>3</sup>	*
1 <sup>st</sup> GEAR (Low Gear)	1155	1200	1244	1289	1333
2 <sup>nd</sup> GEAR	1733	1800	1867	1933	2000
3 <sup>rd</sup> GEAR (High Gear)	2600	2700	2800	2900	3000

#### **GEAR SELECTION**

To change gears, move the gear selector lever while slightly rotating the spindleshaft. This allows the gears to mesh properly. Never change gears with the engine running. The chart to the left lists the spindleshaft speeds in each of the three gears – 1<sup>st</sup> Gear, Lower Gear – 2.25:1; 2<sup>nd</sup> Gear–1.5:1; and 3<sup>rd</sup> Gear, High Gear – 1:1.

#### LUBRICATION:

85W-140 Multi-Purpose Gear Oil or the equivalent.

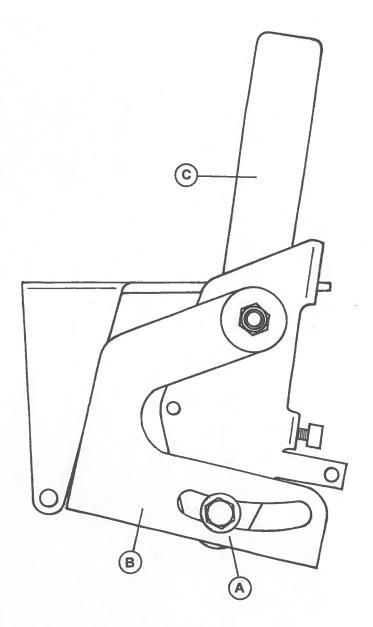
\*Always defer to the blade manufacturer's suggested rpm for safety and best blade performance.

#### **BELT GUIDE**

	DRIVE BELTS	FAN BELT	HYDROSTATIC PUMP BELT
M44D KUBOTA			
Single Speed w/3-Speed	3VX425(6) 3VX400(6)	3VX475 3VX475	3VX315 3VX315
M48 HYUNDAI			
Single Speed w/3 Speed	3VX 425 (6)	NONE NONE	4L3400 4L3400

# RAISE/LOWER VALVE ADJUSTMENT

From time to time your Raise/Lower Assembly may need some minor adjustments. If your saw creeps down when the R/L Lever is returned to it's "neutral" position after being raised, the needle valve is not closing completely.



Needle valves wear over time. To adjust the valve to keep it from dropping, loosen the 5/16" bolt and nut (A) with two half inch wrenches. Rotate the arm (B) forward slightly, and re-tighten (A).

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