



41161 Sandalwood Circle • Murrieta, CA 92562

# WARNING

- If operated improperly, this machine may cause serious injury.
- Do not wear loose clothing when operating this machine as it may become entangled in the equipment.
- Stay clear of all moving parts when this machine is running.
- DO NOT work on this machine while it running and NOT properly secured.
- ALWAYS wear safety glasses, sound protection (ear plugs), hand protection (gloves), and steel-toed boots when operating this machine.
- NEVER stand in water while operating this machine (ELECTRIC MODEL).
- ALWAYS use properly grounded power cords (ELECTRIC MODEL).
- Power cords should ALWAYS be the proper wire gauge each particular application (ELECTRIC MODEL).
- ALL extension cords should be plugged into a "ground fault interrupter" (ELECTRIC MODEL).
- NEVER use extension cords that are in any way damaged, frayed or cut (ELECTRIC MODEL).
- ALWAYS use the proper cutting RPM specified by your blade manufacturer.
- ALWAYS shut off the machine before changing the blade (UNPLUG ELECTRIC MODEL).
- Insure proper position and security of ALL safety guards before operating this machine.
- ALWAYS inspect machine before use for safe operation.
- FIRE HAZARD! Inspect for any leaking fluids (gas, oil and etc.) operation of this machine.

## **WARNING Continued**

 DO NOT attempt to off-load any piece of equipment on uneven ground of any degree of slope. DO NOT leave equipment unattended on uneven ground. Injury or death may occur.

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

• DO NOT jump-start a dead battery on this machine. The process of jump-starting a discharged (dead) battery can, under certain conditions, result in a battery explosion from the ignition of hydrogen gas, resulting in injury or death.

## **LIMITED WARRANTY**

### WARRANTY:

Morley Equipment Company Warrants that at the time of shipment, the product manufactured by Morley Equipment Company and sold hereunder shall be free from defects in material and workmanship.

### WARRANTY ADJUSTMENTS:

Morley Equipment Company agrees to repair or furnish any faulty component within 30days from date of purchase provided the machine is operated and maintained in accordance with Morley Equipment Company Owners and Engine Manuals and Operating Instructions.

If examination by Morley Equipment Company proves a defect within Warranty, receipt verifying purchase date and serial number are required to obtain Adjustment. One year Warranty on major components (such as engine, drive motors, hydraulic pump, hydraulic motor and etc.) with an authorized service facility. See Owners Manual for Warranty from the manufacturer of that product.

No product will be accepted for return or replacement without prior authorization by Morley Equipment Company. Products returned are addressed to: **Morley Equipment Company, 41161 Sandalwood Circle, Murrieta, CA 92562;** (951) 894-5558.

### **EXCLUSIONS FROM WARRANTY:**

This Warranty does not extend to any product supplied by Morley Equipment Company which has been subjected to misuse, neglect, accident, improper installation or used in violation of instructions provided by Morley Equipment Company.

## **SAW INFORMATION**

1. This Manual provides the basic instructions for the operation and maintenance of the M62-D concrete saw. An Engine Manual is also provide with each saw.

### 2. M62 WATERCOOLED DIESEL:

ENGINE: Drive Unit: Water Pump: Spindle: Arbor Size: Blade Capacity: Depth Control: Fuel Capacity: Weight: Length: Width:	Perkins 404D-22T Watercooled Diesel - 62hp Hydrostatic Transmission Self-priming Electric (Optional) 1-1/2" 1" with 5/16-inch Keys 14" to 48" Diameter Hydraulic Raise/Lower, Depth Gauge and Locking Stop 7 Gallons 1,310 lbssingle speed / 1,450 lbs3 speed 53" 35" w/ Quick Detach Spindle Studs			
Height:	46"			
OPTIONAL EQU	OPTIONAL EQUIPMENT:			
1. 3-Speed Gearbo		3. Night Light		
2. Bladeguards: 26, 30, 36, 42, 48"		<ol> <li>Electric Water pump</li> </ol>		

1. The new machine was test-run before leaving Morley Equipment Company, however, the engine should be checked with the Engine Manual so that the correct routine is followed at all times. Check all fluid levels. This is very important during the initial running-in of the engine as specified in the Engine Manual.

### 4. LUBRICATION/SERVICE CHART

ITEMCHECKHydrostatic TransmissionMonthlyAir FilterWeeklyHydraulic PumpMonthlySpindle BearingsDailyPivot AxleWeeklyFront WheelsWeeklyRadiatorDaily	LUBRICANT 20W-50 Motor Oil Service as required ATF Grease Grease Grease Squirt debris out of cooling fins
---	---

#### 5. To adjust belts:

Loosen two locking nuts on turnbuckle. Rotate the turnbuckle to tension belts. Do not over-tighten. Re-tighten locking belts.

## **CONTROL OPERATING INSTRUCTIONS**

1. **WATER SUPPLY:** Connect the water supply to the "inlet hose (1/2")," open the water valve and make sure that the "outlet (1/4")" hoses mounted in the bladeguard are free of obstructions. Blow out the water lines before operation in freezing conditions.

2. **RAISE/LOWER:** By pulling back the Raise/Lower lever a momentary switch activates an electric-over-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 accompanying instruction.

3. **SPEED CONTROL:** The Forward/Reverse lever determines forward and reverse speeds. 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:** Raise the saw to accommodate your choice of blades - 14" to 48". Lift off the bladeguard with engine off. Remove the spindle nut with the spindle nut wrench provide with the saw and then the outer blade collar. Inspect both collars so they will seat flush with the blade. Place blade on spindleshaft and align with collar pin in inner collar, now replace outer collar and spindle nut - tighten by striking spindle nut wrench with provided hammer and finally, replace bladeguard.

5. **STARTING THE ENGINE:** This should be done as explained in the Engine Manual.

6. **POSITIONING THE SAW:** The saw may be maneuvered in several ways. Position the handle bars to suit the operator's leverage (Note: this is a rear-pivot saw). The independent drive motors, that function as a differential, allow the saw to be rotated by lifting the front wheels off the ground by pushing down on the handle bars and

## **CONTROL OPERATING INSTRUCTIONS Continued:**

the saw on the rear wheels in the desired direction, left or right, and positioning for the next cut. The saw may also be positioned by using the "wheel-borrow" approach - lift the rear wheels and rotate to the desired position using the front wheels to pivot the saw.

- 7. **CUTTING:** Lay out the cuts using a chalk line or string and paint. Use the pointer guide as your saw cut "gun site." Bring the engine to the blade manufacturer's recommended RPM. Position the saw to initiate the cut. When aligned and positioned, turn-on the water and lower the saw to desired cut depth, then move the saw forward to a comfortable cutting speed don't "labor" the blade. Water amount is an acquired science ask your blade manufacturer for recommendations. Reading the slurry is your key to cost-effective cutting just the right amount of water is needed for cutting speed and blade life (a blade's accumulated inch-feet cut). It is recommended to step-cut take several passes to reach desired depth this also benefits blade life. Once the chalked-out cut has been completed, return the Forward/Reverse lever to the "neutral" position and using the Raise/Lower lever, raise the saw out of the cut. If step-cutting, return the saw to the original insertion point and lower the blade to the secondary depth and repeat the cut, then raise the blade as before and position the saw for the next cut.
- 8. **CLEANING:** The entire saw should be thoroughly washed weekly or as needed depending on use. Use caution to prevent water from association with the gas tank and electric system. WD40 works well as a water dispersant. Be sure to squirt any debris dust, slurry, etc. out of the radiator's cooling fins.
- 9. **STORAGE:** Always lubricate the saw after cleaning.
- 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. **REPLACEMANT PARTS:** All replacement parts must be ordered from Morley Equipment Company to effect Warranty. Always supply Model and serial number when ordering parts.
- 13. **QUESTIONS AND CONCERNS:** Should you have any questions relative to the operation or servicing your equipment, do not hesitate to contact Morley Equipment Company at (951) 894-5558; or Email us at morleyequipco@gmail.com. An M-62 Parts List is also available at: www.morleysaws.com

## **M62D PARTS LIST**

## SPINDLESHAFT ASSEMBLY

PART#	REQUIRED	DESCRIPTION		
1112-62D	1	Spindleshaft		
1101-62D	2	Pillow-block Bearing		
1113-62D	2	Inner Collar		
1114-62D	2	Outer Collar		
1104-62D	1	Left-hand Nut		
1105-62D	1	Right-hand Nut		
1115-62D	1	Sheave		
1116-62D	1	Bushing		
1108-62D	1	Key - 3/8"		
1109-62D	2	Key - 5/16"		
1117-62D	9	3VX 520 Belt (3-Speed)		
3030-62D	1	Left-hand Spindle Stud		
3030-62D	1	Right-hand Spindle Stud		
FRONT AXLE ASSEMBLY				
2100-62D	1	Weldment		
2101-62D	2	Axle - 1-inch		
2102-62D	2	Wheel - 8 X 2.5"		
2103-62D	2	Collar - 1"		
2104-62D	2	Pillow-block Bearing - 1 1/4"		
2105-62D	2	Pin - 5/8 x 4"		
2106-62D	1	Depth Gauge, Cable, Spring		

## **HYDRAULIC RAISE/LOWER ASSEMBLY**

3100-62D	1	Pump Motor
3101-62D	1	Flow Control Valve
3102-62D	1	Hydraulic Cylinder
3103-62D	1	Needle Valve,
		Raise/Lower Handle
3104-62D	1	Assembly Solenoid
		M62
		INIOZ
		DIESEL
		OWNERS
		MANUAL

## HYDROSTATIC DRIVE ASSEMBLY

PART#	REQUIRED	DESCRIPTION
4100-62D 4101-62D 4102-62D 4103-62D 4104-62D 4105-62D 4106-62D 4106-62D 4107-62D 4108-62D 4109-62D 4110-62D 4116-62D 4112-62D	1 2 1 2 2 1 1 1 1 1 2 2 1	Pump Drive Motor Positraction Manifold Wheel Hub Wheel - 10 x 3" Filter Assembly Filter Reservoir - Plastic Forward/Reverse Friction Lever Assembly Drive Cable Cable End - Ball joint 3VX 350 Belt Wheel Motor Bracket
4117-62D	1	Hydrostatic Drive Pump Bracket
5101-62D	<b>POI</b>	NTER ASSEMBLY 3" Caster
5102-62D 5103-62D 5104-62D 5106-62D	2 2 1 1	Delrin Bushing Pointer Ends Lift Cable Pointer Weldment
	FR	AME CONSOLE
6117-62D 6118-62D 6119-62D 6120-62D 6121-62D 6106-62D 6108-62D 6109-62D 6122-62D 6122-62D 6123-62D 6126.62D 6127-62D	1 1 1 1 1 2 2 1 1 1 1	Mainframe Console Belt Guard - Left Side Belt Guard - Right Side Air Intake - Rear Air Exhaust - Right Side Handlebar Locking T-Handle Fuel Tank – 7-Gallon Fuel Tank Cap Depth Stop Rod Assembly Depth Stop Handle Assembly

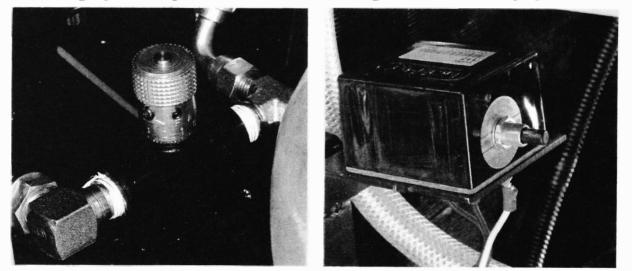
## FRAME CONSOLE Continued:

PART#	REQUIRED	DESCRIPTION
6124-62D 6125-62D	2 1	Fuel Tank Hold-down Strap Fuel Filter (Perkins) <b>ENGINE</b>
7112-62D 7113-62D 7114-62D 7102-62D-A 7115-62D-B	1 1 2 1	Perkins 404D-22T Diesel Bellhousing - Outer Plate Output Shaft/Drive Assembly Bearing - Output/Drive Assembly Shaft - Output/Drive Assembly
7102-62D-D 7116-62D-Е	1 1	Bowex Male Coupler Output/Drive Assembly BoWex Female Coupler
7103-62D 7104-62D 7117-62D	1 2 1	Output/Drive Assembly Air Filter Air Filter Elements Hose - 90-Degree Elbow – 2'' - 1-5/8'' Reducer
7119-62D 7110-62D	1 1	Air Filter Bracket Murphy Switch - Overheat Reset Switch
7123-62D 7120-62D 7121-62D 7122-62D 7114-62D	1 1 1 1	COOLING SYSTEM Fan Shaft Radiator Fan Blade Fan Belt – 3VX 425 Spring Idler Pulley
	BL	ADEGUARD ASSEMBLY
8100-62D	1	Water Distribution Block W/ Hose Fittings Outlet Water Hose - 1/4''
8181-62D 8102-62D	2 1	Inlet Water Hose - 1/2"

#### **BLADEGUARD ASSEMBLY Continued**

PART#	REQUIRED	DESCRIPTION
8103-62D 8104-62D 8105-62D 8106-62D 8107-62D 8108-62D	1 1 1 1 1	Water Valve Mud Flap 20'' Bladeguard 26'' Bladeguard 30'' Bladeguard 36'' Bladeguard
		CONSOLE
9101-62D 9107-62D 9108-62D 9109-62D 9110-62D 9111-62D 9112-62D 9113-62D 9115-62D	1 1 1 1 1 1 1	Emergency Shutoff Switch - Ignition Tachometer/Hour Meter Start Toggle Switch w/Preheat detent Push/Pull Engine Speed Control Cable Temperature Gauge Amp Indicator Light Oil Pressure Indicator Light Upper Console Sticker Lower Console Sticker

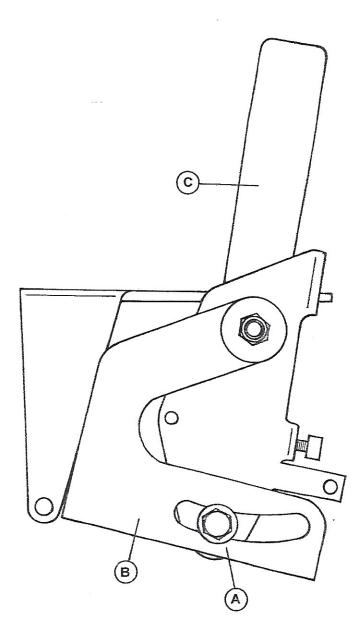
**Raising speed adjustment Valve and engine restart Murphy Switch** 



Just inside the right front side panel is a needle valve (left photo) that allows you to adjust the raising speed imparted by the Raise/Lower Lever. Your saw comes with the raise speed pre-set at the factory. This valve allows you to reset the speed to suit your needs. Inside the rear access panel on the left side is a Murphy Switch (right photo) that prevents engine overheating. When the Temperature Gauge senses excessive engine heat, the magnetic "trip" switch shuts off the fuel supply, killing the engine. When the engine has cooled sufficiently, hit this reset button and the engine will restart.

RAISE/LOWER VALVE ADJUSTMENT

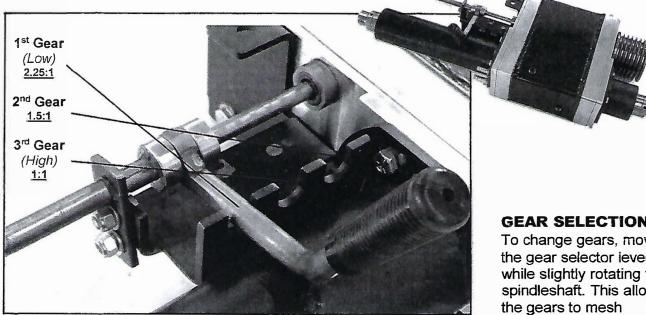
From time to time your Raise/Lower Assembly may need some minor adjustments. If your saw creeps down when the R/L Lever is returned to its "neutral" position after being raised, the needle valve is not closing completely. The following adjustment is an easy fix:



Needle valves are known to take a "set" after continued use, meaning the stops (open/close) change slightly so the R/L Lever (C) doesn't completely close the valve or open the valve when the Lever reaches its stops. Opening the valve to lower the saw is not the issue, it's the valve not closing completely that presents the problem.

By loosening this 7/16-inch nut (A) you can rotate the adjusting arm (B) to close the needle valve. Once that adjustment has been made, tighten the nut. Now, when the R/L Lever is pulled all the way back as the saw is raised and a spring then returns the Lever back to its original "neutral" position, the saw will no longer creep down.

## M62D 3-Speed Gearbox Operation



SPINDLESHAFT SPEED w/3-SPEED GEARBOX **M62D PERKINS DIESEL** 

ENGINE RPM	2600	2700	2800 Optimum	2900	3000
SPINDLESHAFT SPEED – rpm*					
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 properly. Never change gears with the engine running. The Chart to the left, lists the spindleshaft speeds in each of the three gears - 1st Gear, Low Gear - 2.25:1; 2nd Gear - 1.5:1; and 3rd Gear, High Gear - 1:1.

#### **LUBRICATION:**

85W-140 Multi-Purpose Gear Oil or the equival

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

DRIVE BELTS		FAN BELT	PUMP BELT	
3-SPEED	3VX520(9)	3VX425	3VX350	
SINGLE SPEED	3VX500(9)	3VX425	3VX350	

#### M62D PERKINS DIESEL BELT GUIDE