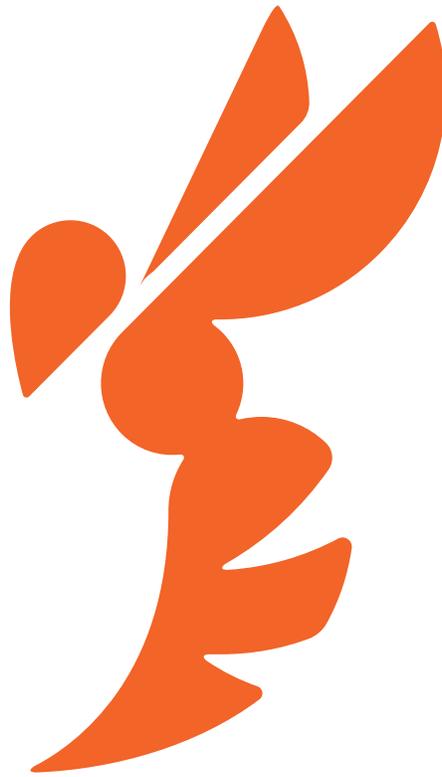




HORNET 24/22
OPERATOR/SERVICE MANUAL



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NOTICE

It is MBW's policy to constantly strive to improve our products. The information, specifications, and illustrations in this publication are based on the information in effect at the same time as approval for printing and publishing. MBW therefore reserves the right to make changes in design and improvements whenever it is believed the efficiency of the machine which has been shipped or curing any obligation to incorporate such improvements in any machine which has been shipped or is in service. It is recommended that users contact MBW or a MBW Dealer for latest revisions.

NOTICE

See engine manual for information pertaining to the engine.

NOTICE

If there are any questions regarding the machine or its application which are not covered in this manual or in other literature accompanying this unit, please contact your MBW Dealer or MBW Inc. at 800-678-5237 or customerservice@mbw.com.

⚠ WARNING

CALIFORNIA PROPOSITION 65

Engine exhaust and some of its constituents, and some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks.
- Arsenic and chromium from chemically treated lumbar.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: ALWAYS work in a well ventilated area, and work with improved safety equipment, such as dust masks that are specifically designed to filter out microscopic particles.

⚠ WARNING



SILICOSIS WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mist containing crystalline silica.

Silica is a basic components of sand, quarts, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory disease, including silicosis. In addition, California and some authorities have listed repairable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

⚠ WARNING

RESPIRATORY HAZARDS



Grinding/cutting/drilling of masonry, concrete, metal and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproduction harm, if you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufactures of suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mist and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by OSHA/NIOSH for the materials being used.

GENERAL SAFETY

Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.

This operation manual has been developed to provide complete instruction for the safe and efficient operation. Refer to the engine manufactures instructions for data relative to its safe operation. Before using, ensure that the operation individual has read and understood all instructions in the manual. The surrounding environment and you, could be damaged if you do not follow instructions.

SAFETY MESSAGES

The four safety messages shown below will inform you about potential hazards that could injure you or others. The safety messages specifically address the level of exposure to the operator and are preceded by one of four words: DANGER, WARNING, CAUTION or NOTICE.

⚠ DANGER

Indicates a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY

⚠ WARNING

Indicates a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY

⚠ CAUTION

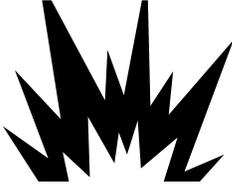
Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE INJURY

NOTICE

Addresses practices not related to personal injury

SAFETY SYMBOLS

Potential hazards associated with the operation of this equipment will be referenced with hazards symbols which may appear throughout this manual in conjunction with safety messages.

SYMBOL	SAFETY HAZARD
	Lethal exhaust gas hazards
	Explosive fuel hazards
	Burn hazard
	Factory Settings

⚠ WARNING

DO NOT USE TOOL IF IT IS IN NEED OF SERVICE!

GENERAL SAFETY

⚠ CAUTION

△ NEVER operate this equipment without proper protective clothing, shatter proof glasses, respirator protection, hearing protection, steel-toes boots and other protective devices required by the job or city and state regulations.



△ Never operate this equipment when not feeling well due to fatigue, illness or when under medication.



△ NEVER operate this equipment under the influence of drugs or alcohol.



△ ALWAYS check the equipment for loosened threads or bolts before starting.

△ NEVER operate around corrosive chemicals or water containing toxic substances. These fluids could create serious health and environmental hazards. Contact local authorities for assistance.

△ DO NOT use the equipment for any purpose other than its intended purpose or applications.

NOTICE

△ This equipment should only be operated by trained and qualified personnel 18 years of age and older.

△ This equipment is for industrial use only. Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.

△ Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modifications will void all warranties. Any modification which it could lead to change in the original characteristics of the machine should be

made only by the manufacturer who shall confirm that the machine is in compliance with appropriate safety regulations.

△ Never use accessories or attachments that are not recommended by MBW for the equipment. Damage to the equipment and/or injury to user may result.

△ Always know the location of the nearest fire extinguisher.



△ ALWAYS know the location of the nearest first aid kit.



△ ALWAYS know the location of the nearest phone or keep a phone on the job site. Also, know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.



⚠ DANGER

△ NEVER operate the equipment in an explosive atmosphere, near combustible materials, or near flammable or low flash point fluids. An explosion or fire could result causing severe bodily harm or even death.



⚠ WARNING

△ NEVER disconnect any emergency or safety devices. These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these will void all warranties.

△ NEVER operate equipment with the covers or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury. Wear clothing that will not likely become caught in the equipment or snag on any moving parts.

⚠ CAUTION

△ ALWAYS be sure the operator is familiar with the proper safety precautions and operating techniques before using.

△ NEVER leave the machine unattended. Turn off when unattended

GENERAL SAFETY

- △ DO NOT expose vibrator to rain.
- △ DO NOT use vibrator motor in damp or wet locations without proper electrical circuits.
- △ DO NOT immerse the motor part in concrete.
- △ ALWAYS keep clear of rotating or moving parts while operating.
- △ NEVER leave the machine unattended while running
- △ ALWAYS disconnect the motor from the power source when not in use, before servicing, and when changing flexible shafting and vibrator heads.

- △ Allow the machine to cool before servicing. Contact with hot components can cause serious burns.



- △ Before Each use, ALWAYS check the motor to make certain that there are no damaged parts and that all parts function properly. If any damage or malfunctioning parts are found, have them repaired or replaced by an authorized service facility.

NOTICE

- △ ALWAYS secure forms. Make sure the form work is well made and braced to withstand the stresses made by vibration.
- △ ALWAYS keep vibrator motor clean for better and safer operation.
- △ ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of reach of children and unauthorized personnel.
- △ Use only factory authorized replacement parts.
- △ Store idle vibrator motor. When not in use, motor should be stored in a dry, safe storage area.

ENVIRONMENTAL SAFETY/DECOMMISSIONING

NOTICE

- △ DO NOT pour waste or oil directly into the ground, down a drain or into any water source.
- △ Contact your country department of Public Works or recycling agency in your area and arrange for proper disposal of any electrical components, waste or oil associated with this equipment.



- △ When the life cycle of this equipment is over, remove battery (if equip) and bring to appropriate facility for lead reclamation. Use safety precautions when handling batteries that contain sulfuric acid.
- △ When the life cycle of this equipment is over, it is recommended that the unit frame and all other metal parts be sent to a recycling center.

Metal recycling involves the collection of metal from discarded products and its transformation into raw materials to use in many Manufacturing a new product.

Recyclers and manufactures alike promote the process of recycling center promotes energy cost savings.

NOTICE

Decommissioning is a controlled process used to safely retire a piece of equipment that is no longer serviceable. If the equipment poses an unacceptable and unrepairable safety risk due to wear or damage or is no longer cost effective to maintain (beyond life-cycle reliability) and is to be decommissioned (demolition and dismantlement), be sure to follow rules below.

- △ ALWAYS observe all applicable compulsory regulations relevant to environmental protection, especially fuel storage, the handling of hazardous substances, and the wearing of protective clothing and equipment. Instruct the user as a necessary, or, as the user, request this information and training.

GENERAL SAFETY

- △ ALWAYS Dispose of hazardous waste properly. Examples of potentially hazardous waste include used motor oil, fuel, and fuel filters.
- △ DO NOT use food or plastic containers to dispose hazardous waste.
- △ DO NOT pour waste or oil directly onto the ground, down or drain or into any waste source.

NOTICE

- △ ALWAYS keep the machine in proper running condition.
- △ ALWAYS become familiar with the components of the machine before operation.
- △ Fix damage to machine and replace any broken parts immediately.
- △ ALWAYS store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.
- △ NEVER lubricate components or attempt service on a running machine

CAUTION

- △ NEVER tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result in operation in speed ranges above the maximum allowability.



BEFORE CONNECTING THE AIR COMPRESSOR:

CAUTION

- △ Install the drill steel and bits into the drill motors and close the latch retainers and rod guides.
- △ Make sure that the air compressor is set at an operating pressure of not more than 120 PSIG (8Bar)
- △ Make sure air line is cleaned out and is of the proper size and pressure rating for the drill unit.
- △ Make sure the lubricator is filled with proper lubricant. See MBW's recommended lubricant below.

- △ Make sure all controls are in the "off" position and the lift lever (if so equipped) is in the "up" position.
- △ Make sure all lock pins are in their locked position.

WARNING

- △ NEVER attempt to loosen any compressed air hose that is pressurized.
- △ KEEP AWAY from all hot or spark generating objects, do not smoke when handling fuel.
- △ So as to facilitate shipment, new or repaired units are not lubricated before delivery to customers.
- △ DO NOT use hydrocarbons and especially do not use fuel oil for lubricating purposes.
- △ DO NOT OPERATE MACHINE WITHOUT GUARDS AND COVERS IN PLACE
- △ ALWAYS disconnect the air supply before changing steel or dismantling the tool for service or repair. For maximum safety we advise the installation of a shut-off valve at the end of the air line.
- △ NEVER operate the engine with heat shields or guards removed.
- △ DO NOT remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the engine crankcase and severely scald any persons in the general area of the machine.



NOTICE

- Δ CLEAR AIR SUPPLY LINE: Before connecting vibrator, clear the compressed air supply line of possible impurities, contaminants and water.
- Δ LUBRICATE: Every day or every four hours of continuous service, pour a ½ teaspoon of non-detergent oil into the quick release coupling. NOTE: An optional oiler/strainer is available.

CONNECT/START

NOTICE

If the vibration intensity drops, check that the filters are not clogged or that hoses are not kinked.

STORAGE

NOTICE

To properly store unit after use, hang the vibrator with the head up and set the handle (variable control assembly) in the open position to permit the discharge of possible impurities, contaminants and water.

PLACEMENT AND CONSOLIDATION

NOTICE

The force exerted by an internal concrete vibrator is controlled by the weight and the speed at which the eccentric rotates. The centrifugal force exerted can be arrived at by various combinations of weight (size of eccentric weight) and the speed at which the weight rotates. For years the most favorable working speed for a vibrator was considered to be around 10,200 RPM (VPM) and consequently this figure is used in many vibrator comparisons. More recently, the optimum speed for compaction has been accepted as being between 7500 and 9000 RPM.

PERSONAL SAFETY

- Δ Stay alert, watch what you are doing, and use common sense when operating the machine.
- Δ DO NOT use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury or death.
- Δ Dress properly. DO NOT wear loose clothing or jewelry. Tie up long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelery, or long hair can be caught in moving parts.
- Δ DO NOT overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control in unexpected situations.

SERVICE

- Δ Tool service must be preformed only by qualified repair personnel. Service or maintained preformed by unqualified personnel could result in injury or death
- Δ When servicing a tool, use only identical replacement parts. Use of unauthorized parts may create a risk of injury or death.

NOTICE

To find the latest revision of this publication, visit our website at: www.mbw.com

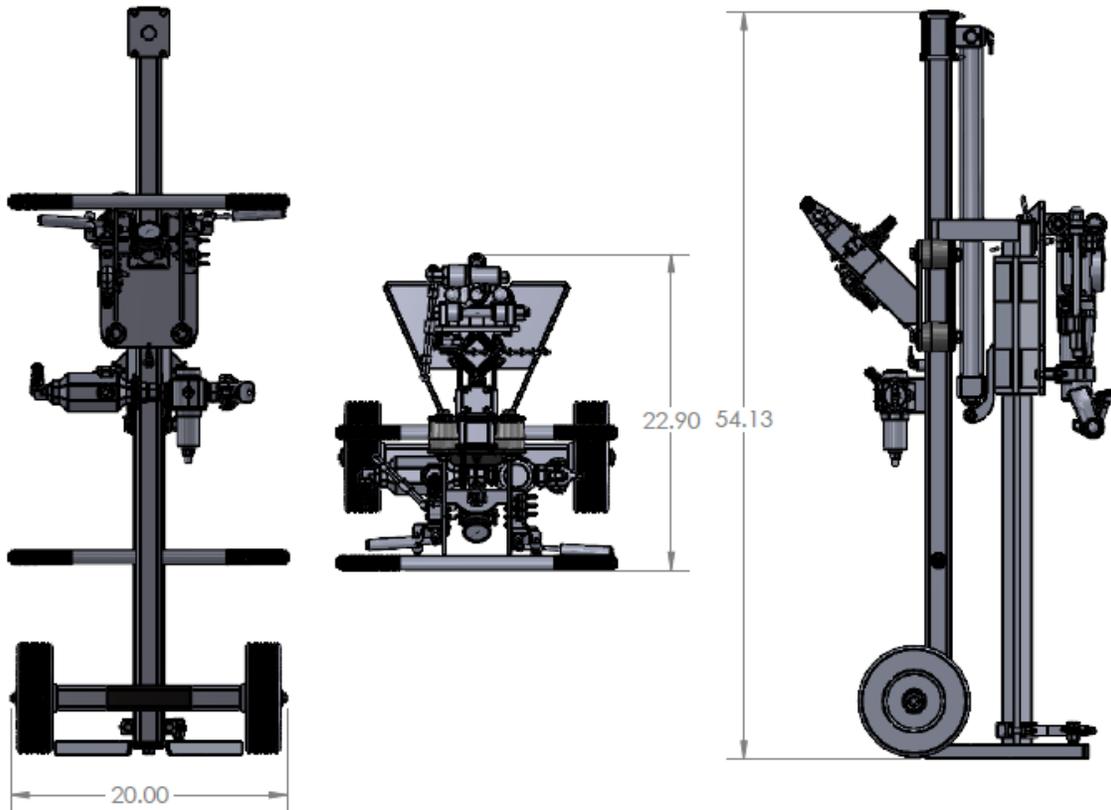
NOTICE

THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

NOTICE

Specifications and part numbers are subject to change without notice.

THE HORNET 24/22



MODEL

HORNET 24/22

Drill Steel Shank (30#)	7/8" x 3-1/4"(22.2mm x 82.5mm)
Drill Steel Shank (50#)	7/8" x 3-1/4" (22.2mm x 82.5mm)
Drill Steel Length Seize Free (UC)	22" (55.9cm) SF
Drill Steel Length Standard Bit (UC)	24" (60.9cm) STD
Maximum Drill Depth Seize Free	18" (45.7cm) SF
Maximum Drill Depth Standard Bit	20" (50.8cm) STD
SCFM Required	92.2 (2.60 m3/min)
Weight (30lb 13.6kg Hammer)	98lbs (44.50kg)
Weight (50lb 23.0kg Hammer)	140lbs (63.50kg)

30# HAMMER SPECIFICATIONS

Net Weight	30lbs. (13.6kg)
Blows Per Minute	2700
Chuck Size	7/8" x 3 1/4" (22.2mm x 82.6mm)
Air Inlet (NPT)	3/4" (19.1mm)
Air Consumption	73cfm (2.12m3/min)

50# HAMMER SPECIFICATIONS

Net Weight	51lbs. (23kg)
Blows Per Minute	2300
Chuck Size	7/8" X 3 1/4" (22.2mm X 82.55mm)
Air Inlet (NPT)	3/4" (19.1mm)
Air Consumption	92.2cfm (2.6m3/min)

NOTICE

All safety labels on MBW Inc. units have been carefully placed so they can be easily seen at all times. There are several different types of labels on the units. Always keep these warnings free of dirt, concrete, or anything else that restricts visibility. Never remove the labels for any reason. If the label on your machine become worn or in any way difficult to read, call our parts department for replacements.

A

<p>WARNING</p>  <p>NOISE MAY DAMAGE HEARING WEAR PROPER HEARING PROTECTION</p>
 <p>FLYING PARTICLES MAY CAUSE EYE INJURIES WEAR PROPER EYE PROTECTION</p>
 <p>DUST CAN CAUSE INJURY TO YOUR HEALTH IF VENTILATION IS INADEQUATE USE AN APPROVED RESPIRATOR</p>
 <p>HIGH PRESSURE KEEP AWAY FROM LEAKS BLEED DOWN BEFORE REMOVING LINES TO SERVICE</p>

B



WARNING

PINCH POINT KEEP AWAY

C



WARNING

BE SURE SUPPLY LINES ARE SECURE DO NOT EXCEED 120 PSI (8.25 BARS) OR DAMAGE TO MACHINE AND/OR BODILY HARM MAY RESULT. 12287-3

D



WARNING

HIGH PRESSURE BLEED AIR PRESSURE BEFORE SERVICING

I



CAUTION

INSTALL LOCK PIN PRIOR TO TRANSPORTING MACHINE 12287-7

H **7/8" HEX x 3 1/4"**

J **Drill**

K **Feed**

M **FEED PRESSURE**

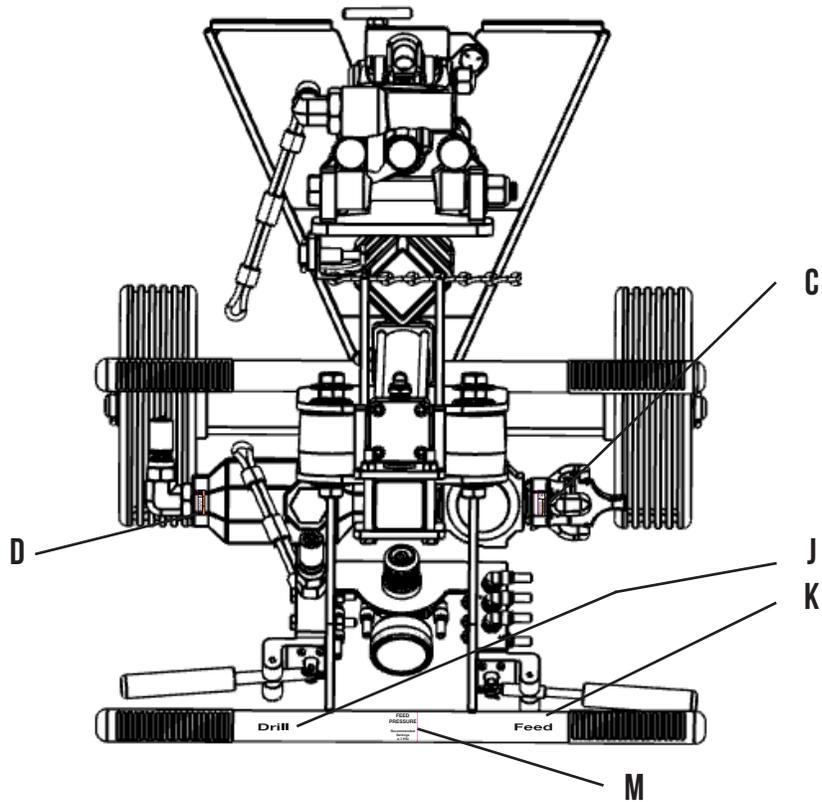
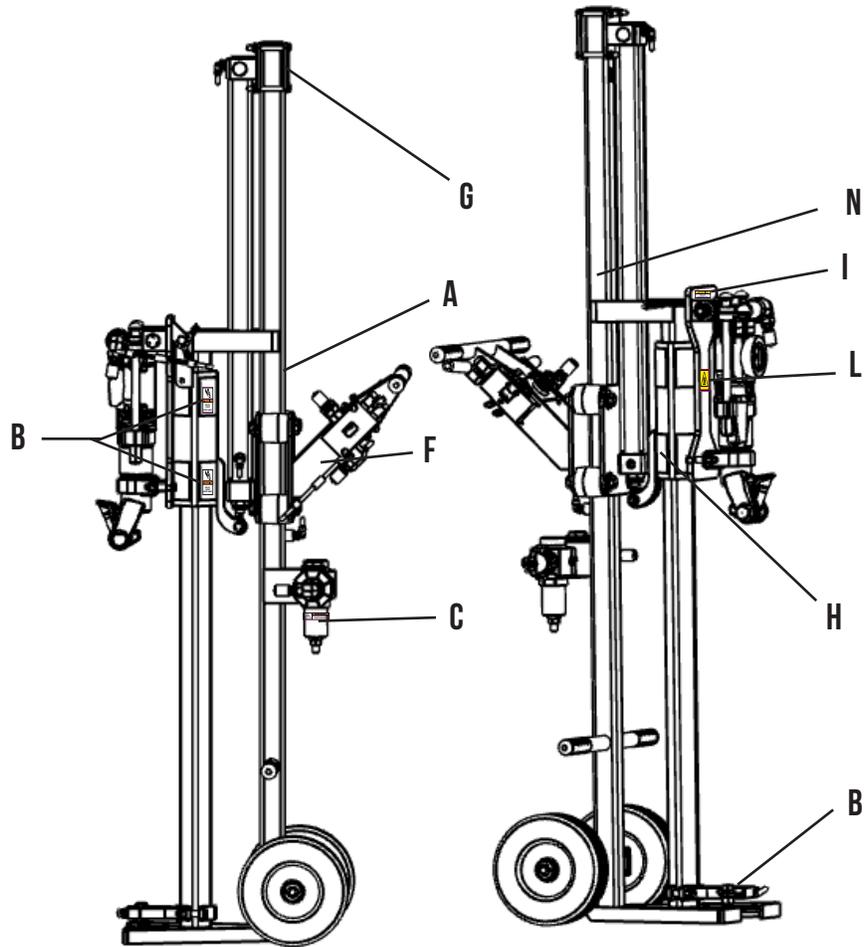
Recommended Settings
4-7 PSI

N **PRIOR TO OPERATION**

- Read and understand owners manual completely.
- Tighten all loose bolts, inspect all lines, pipes, and hoses for damage. Repair as necessary.
- Drill steel must not be binding in guide bearing. Make sure drill steel is straight, free of obstructions, and not binding in any way.
- Fill the oiler per manual. 12287-156



SAFETY DECAL LOCATION



CONTROL & GAUGES

INSTALLATION

Shut off air pressure. Install in air line with air flow in direction of arrow on body.

RECOMMENDED SETTINGS

Regulator should read approximately between 4 and 7 PSI. Some adjustment may be necessary.

ADJUSTMENT

Turn adjustment screw clockwise to increase outlet pressure setting and counterclockwise to decrease outlet pressure setting. To reduce pressure, first reduce to a pressure less than that desired, then increase to the desired outlet pressure.

⚠ WARNING

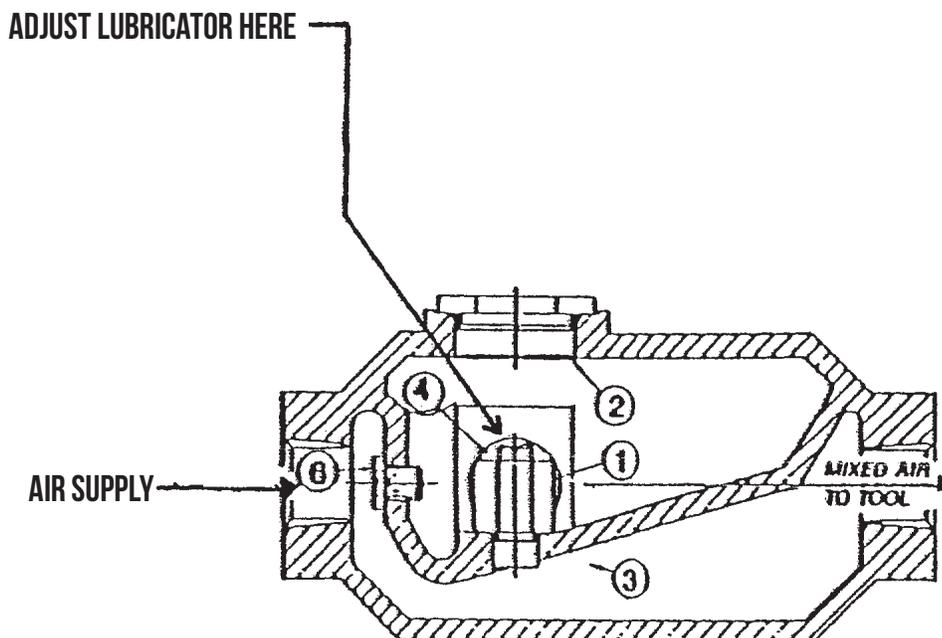
These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed on the product label.

⚠ WARNING

Always disconnect the air supply before changing drill steel or dismantling the tool for service or repair. For maximum safety we advise the installation of a shut-off valve at the end of the air line.

LUBRICATOR IS SET AT 4.5 FROM FACTORY. DIFFERENT TEMPERATURES MAY AFFECT FLOW OR OIL. YOU MIGHT HAVE TO ADJUST LUBRICATOR ACCORDINGLY. BE SURE LUBRICATOR IS SET SO THAT YOU ALWAYS HAVE A LIGHT FILM OF OIL ON EXHAUST DEFLECTOR.

TO ADJUST LUBRICATOR, DISCONNECT AIR PRESSURE FROM DRILL UNIT. PUSH DOWN ON PRESSURE RELIEVING BUTTON ON FILL CAP. REMOVE FILL CAP. USING A SCREW DRIVER, ADJUST LUBRICATOR TO REQUIRED SETTING. TO INCREASE OIL, SET AT HIGHER NUMBER. TO DECREASE OIL, SET AT LOWER NUMBER.



RECOMMENDED LUBRICANTS

- STEP 1** Be sure lubricator is full. See recommended oils below.
- STEP 2** Make sure slab wheels are square against face of slab.
- STEP 3** Using feed control valve, feed bit against slab.
- STEP 4** Using drill control valve, turn drill on and drill until the drill slider is against the stop clamp, which should be set for the required depth of hole.
- STEP 5** Once drill slider is against the stop clamp, leave the drill on and use the feed control valve to retract the drill from the hole. Note: If bit will not retract from hole, feed drill back into hole and retract drill again.

WARNING

DO NOT hit drill slider to retract the bit from the hole. This will damage the drill slider.

MBW Inc. Recommended Rock Drill Oil



**RENEWABLE
LUBRICANTS**

Bio-Rock Drill™ Oil 15W50



PROBLEM: DRILL DOES NOT RUN

CAUSE

REMEDY

DRILL NOT GETTING AIR

1. On Multi Drill units, switch airline with drill that is working properly. If drill now runs check the air control valve. If the valve works, check the drill.
2. Check clave on air compressor and drill unit to be certain they are completely open
3. Check compressor. It should have 100SCFM (47.20m³/sec.) per drill and 110PSI (7.6 BAR) at drill manifold when drilling with large drills.
4. Make certain all fittings are connected properly and not leaking.

COUPLING OR HOSE OBSTRUCTION Remove Obstruction

FAILURE IN THE ELECTRICAL CIRCUIT

Check switches, connections, coils, ground & voltage. If the power unit (backhoes, grader, ETC.) is being jump started, check the AMPS & voltage being jump supplied to coils from the battery, it may be too low.

FAILURE OF DRILL SOLENOID VALVE (MULTI DRILL UNITS WITH REMOTE ELECTRICAL CONTROLS)

Check valve - you should be able to feel the solenoid move when it is actuated. Make sure you have current to the solenoid coil. Replace the solenoid if there is no movement.

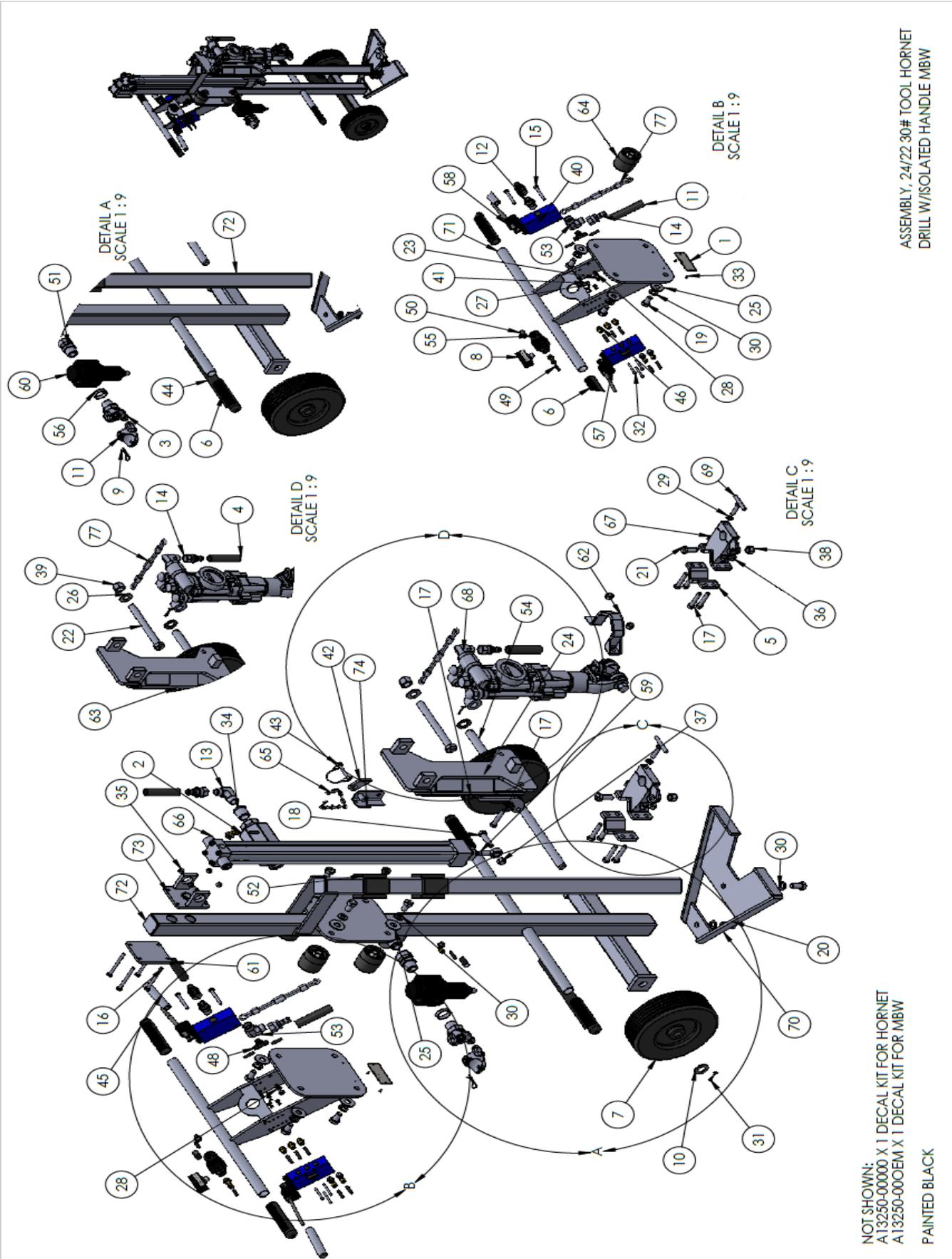
MECHANICAL FAILURE OF DRILL

Disassemble the drill & inspect for damaged parts.

TROUBLESHOOTING AIR DRILL

PROBLEM: DRILL RUNS SLOW OR DOES NOT DRILL EFFECTIVELY

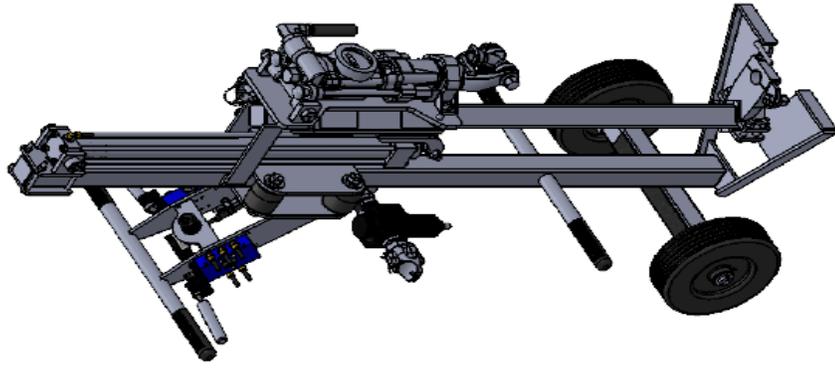
CAUSE	REMEDY
NOT ENOUGH AIR REACHING DRILL. IT SHOULD HAVE 100SCFM (47.2DM ³ /SEC.) PER DRILL AND 110 PSI (7.6 BAR)	On Multi Drill units. Turn off one or two drills. If the remaining drills pick up speed, check the air compressor.
RESTRICTION IN AIR LINE	A foreign object in the air line or possibly a reduction in the air line caused by a reducer fitting.
TOO SMALL AIR LINE	Following are supply line sizes for drilling: A-1 Single Drill 3/4" (19mm) A-2 Two Drills 1-1/4" (38.75mm) A-3& A-4 Three & four drills 1-1/2" (38.1mm) A-5 Five Drills 2" (50.8mm)
AIR PRESSURE TO CYLINDER "FEEDING" DRILL INTO CONCRETE NOT ADJUSTED PROPERLY	Excessive pressure can cause drill to "bind up" in the hole. Pressure that is too low will not "feed" the drill into the concrete. The air pressure required varies with the drill model. Horizontal- all units with large drills use 22-26 PSI (1.5-1.8 bar). Drill units using the 15LB (6.8kg) class drill will use 16-20 PSI (1.1-1.4 Bar). Vertical - all drill units use 5-6 PSI (0.34-0.41 Bar). With the correct air pressure, the drill steel should have a slight rattle.
INSUFFICIENT AIR FLOW TO KEEP HOLE BLOWN CLEAN	Check for obstruction in the blow tube in the drill.
LUBRICATOR PUTTING OUT TOO MUCH OIL TO DRILL	If you notice more than a light film of oil on the air deflector on the bottom of the drill adjust the lubricator, make certain you are using the type of oil called for in the operation and maintenance manual.
MECHANICAL BLINDING OF DRILL CARRIER	Make sure the eight bearing pads are adjusted correctly. The square tube that the drill carrier slides on must be free of rust so that the carrier slides freely, drill steel must not be binding in the guide bearing.
BENT DRILL STEEL, WORN DRILL BIT OR DRILLING INTO REBAR	Replace the drill steel or bit. If drilling into rebar, move the drill.
USING 3 1/4" (8.25CM) SHANK DRILL STEEL IN 4 1/4" (10.8CM) SHANK CHUCK DRILL	The drill steel will rotate but it will not allow the drill piston to hammer properly, replace it with the correct 4 1/4" (10.8cm) drill steel.



ASSEMBLY, 24/22 30# TOOL HORNET
DRILL W/ISOLATED HANDLE MBW

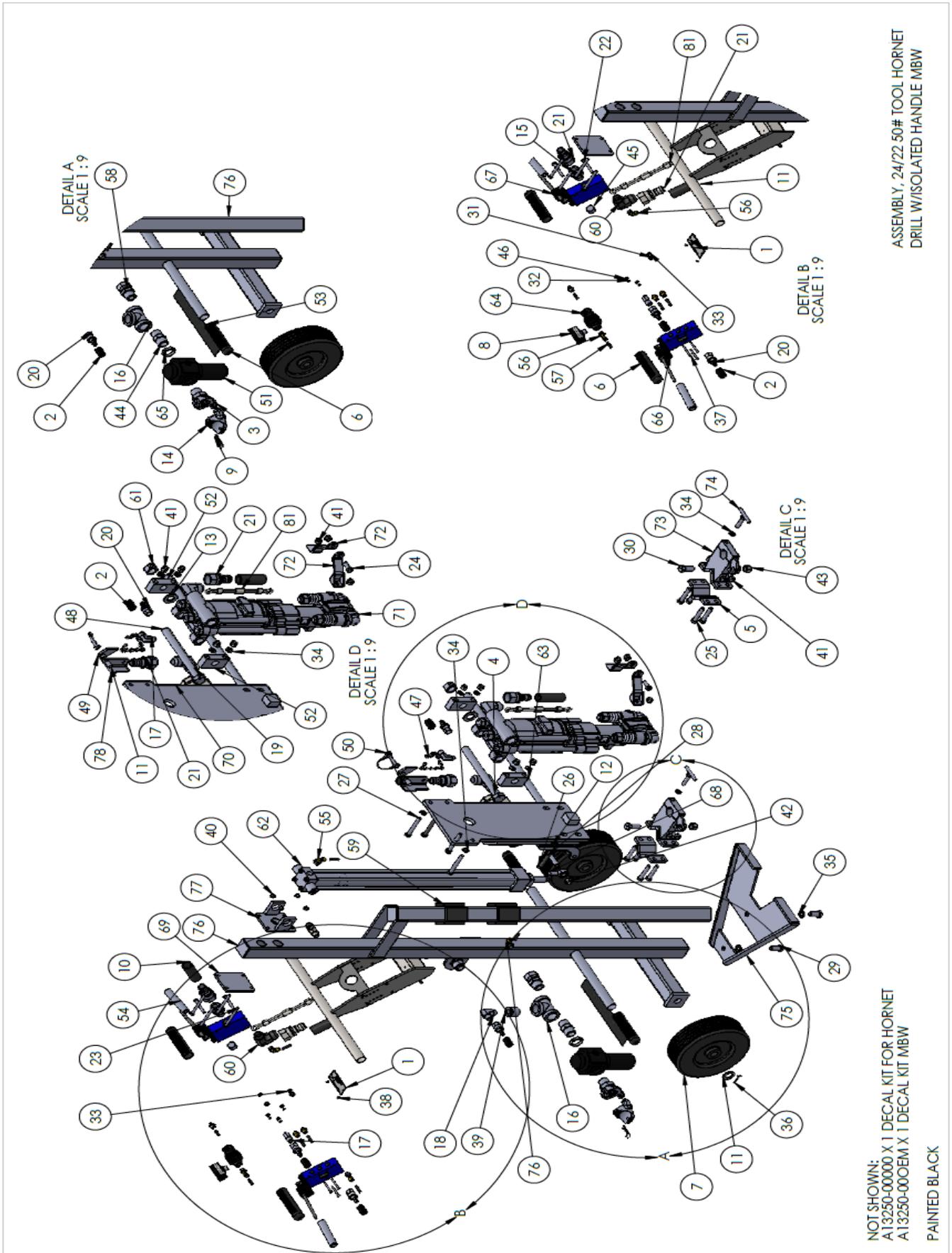
NOT SHOWN:
A13250-00000 X 1 DECAL KIT FOR HORNET
A13250-000EM X 1 DECAL KIT FOR MBW
PAINTED BLACK

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	000708-00004	MODEL & SERIAL # NAME PLATE	1	45	010300-00000	LEVER EXT MBW HD0130000000	2
2	001810-00000	LUBRICATOR	1	46	010829-00110	MALE ELBOW - 1/4" TUBE TO MALE 1/4" NPT BRASS FITTING	8
3	001811-00000	COUPLING - HOSE 2 PRONG/MALE PIPE	1	47	010829-00111	MALE ELBOW - 1/4" TUBE TO MALE 3/8" NPT BRASS FITTING	2
4	002304-01-00000	1/2" I.D. X 6000" GENERAL PURPOSE HOSE	60'	48	010831-00108	MALE BRANCH TEE FITTING - 1/4" TUBE TO MALE 1/4" NPT TO 1/4" TUBE (BRASS)	1
5	002844-00010	HEIGHT ADJUSTMENT CLAMP	1	49	010863-00000	1/4" NYLON TUBING X 210.00"	210"
6	003016-00044	HANDLE GRIP	4	50	010872-1-00000	1/2" EXPANDABLE SLEEVING X 50.00"	50"
7	003017-00019	WHEEL MBW HD00301700019	2	51	011163-00010	12-12 SWIVEL NUT ADAPTER	1
8	003656-00000	PR GAUGE MBW HD00365600000	1	52	011739-00004	DRILL CARRIER BEARING	8
9	003820-00000	SAFETY PIN & LANYARD	1	53	011879-00004	MODIFICATION, 08-08 90 DEG EXT PIPE/ 37 DEG ELBOW	1
10	004674-00000	AXLE WASHER	2	54	013052-00002	AXLE	1
11	005856-00000	AIR HOSE COUPLING PLUG	1	55	013057-00000	REGULATOR MBW HD01305700000	1
12	006007-00017	8&S 37 DEG. MALE PIPE CONNECTOR	1	56	013057-00002	PANEL NUT MBW HD01305700002	1
13	006019-00017	08-08 90 DEG EXT PIPE/ 37 DEG ELBOW	1	57	013058-00000	RETURN VALVE MBW HD01305800000	1
14	006032-00002	08-37° FEMISWIVEL BARBED HOSE END	4	58	013059-00000	VALVE MBW HD01305900000	1
15	006036-2.000	1/4"-20 X 2.000" GRADE 5 H.H.C.S.	2	59	013065-00000	ROD END, REWORKED	1
16	006036-3.000	1/4"-20 X 3.000" GRADE 5 H.H.C.S.	4	60	013089-00000	AIR REGULATOR	1
17	006038-2.000	3/8"-16 X 2.000" GRADE 5 H.H.C.S.	6	61	013213-00005	PRIMED MOUNTING PLATE	1
18	006039-1.750	7/16"-14 X 1-3/4" GRADE 5 H.H.C.S.	1	62	044336-00000	WELDMENT, MOUNTING BRACKET CLAMP	1
19	006040-0.875	1/2"-13 X 7/8" GRADE 5 H.H.C.S.	8	63	0A8399-000037	WELDMENT, DRILL CARRIER FOR 30# DRILL	1
20	006040-1.000	1/2"-13 X 1.000" GRADE 5 H.H.C.S.	2	64	001206-00003	ISOLATOR MBW HD00120600003	4
21	006040-1.250	1/2"-13 X 1-1/4" GRADE 5 H.H.C.S.	1	65	007282-00000	#12 SINGLE JACK CHAIN X 7-50" 7-50"	1
22	006042-6.500	5/8"-11 X 6-1/2" GRADE 5 H.H.C.S.	1	66	013036-00023	1.50" X 23.00" STROKE CYLINDER	1
23	006070-00000	1/4"-20 HEX NUT	2	67	A10876-00000	ROD GUIDE MBW HDA1087600000	1
24	006107-00000	FLAT WASHER, 3/8 SAE	2	68	A11104-00100	30# DRILL MBW HDA1110400100	1
25	006112-00000	FLAT WASHER, 1/2 USS	8	69	A12246-00001	GUIDE BOLT MBW HDA1224600001	1
26	006115-00000	FLAT WASHER, 5/8 SAE	1	70	A13047-00004	WELDMENT, END BRACKET	1
27	006144-00000	LOCKWASHER, #8	3	71	A13056-00005	WELDMENT, HANDLE	1
28	006147-00000	1/4" LOCKWASHER	2	72	A13212-00007	WELDMENT, FRAME 24/22	1
29	006149-00000	LOCKWASHER, 3/8	1	73	A13214-00000	WELDMENT, CYLINDER MOUNT	1
30	006151-00000	LOCKWASHER, 1/2	10	74	A13237-00001	WELDMENT, DRILL TRANSPORT BRACKET	1
31	006174-1.000	1/8" x 1.00" COITER PIN	2	75	A13250-00000	DECAL KIT FOR HORNET	1
32	006256-1.500	RHMS, #8-32 X 1-1/2 SLOTTED	3	76	A13250-000EM	ASSEMBLY, DECAL KIT FOR MBW HORNET	1
33	006262-00001	SCREW, DRIVE HD RD. #4 X 1/4"	2	77	A13270-00004	ASSEMBLY, SPRING WHIP CABLE	2
34	006296-00006	12-08 REDUCER PIPE BUSHING	1				
35	006402-00000	1/4"-20 NYLON LOCKNUT	4				
36	006404-00000	3/8"-16 NYLON LOCKNUT	6				
37	006405-00000	7/16"-14 NYLON LOCKNUT	1				
38	006406-00000	1/2"-13 LOCKNUT	1				
39	006408-00000	5/8"-11 HEX LOCKNUT	1				
40	006471-00004	1/2" HEX SOCKET PIPE PLUG	1				
41	006653-00000	NUT, HEX #8-32 NC THREAD	3				
42	008409-00001	HINGE TAB	1				
43	008479-00001	LOCK PIN MBW HD00847900001	1				
44	010084-00000	NON-SLIP TRACK ADHESIVE BLACK X 12.50"	12.50"				



302422HD
 ASSEMBLY, 24/22 30# TOOL HORNET
 DRILL W/ISOLATED HANDLE FOR MBW
 NOT SHOWN:
 A13250-00000 X 1 DECAL KIT FOR HORNET
 A13250-000EM X 1 DECAL KIT MBW
 PAINTED BLACK

ROCK DRILL OIL
 MBW HD01091500001 - 010915-00001 LUBRICANT, ROCK DRILL, 1QT
 MBW HD01091500000 - 010915-00000 LUBRICANT, ROCK DRILL, 5-GAL



ASSEMBLY, 24/22 50# TOOL HORNET
DRILL W/ISOLATED HANDLE MBW

NOT SHOWN:
A13250-00000 X 1 DECAL KIT FOR HORNET
A13250-000EM X 1 DECAL KIT MBW
PAINTED BLACK

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	000708-00004	MODEL & SERIAL # NAME PLATE	1	36	006147-00000	1/4" LOCKWASHER	2	66	013052-00002	AXLE	1
2	001206-00003	ISOLATOR MBW HD00120600003	4	37	006149-00000	LOCKWASHER, 3/8	9	67	013057-00000	REGULATOR MBW HD01305700000	1
3	001807-00000	3/8" AIR HOSE X 42.00"	42"	38	006151-00000	LOCKWASHER, 1/2	9	68	013057-00002	PANEL NUT MBW HD01305700002	1
4	001811-00000	COUPLING - HOSE 2 PRONG/MALE PIPE	1	39	006174-1.000	1/8" x 1.00" COTTER PIN	2	69	013058-00000	RETURN VALVE MBW HD01305800000	1
5	001864-00000	LUBRICATOR	1	40	006256-1.500	RHMS, #8-32 X 1-1/2 SLOTTED	3	70	013059-00000	VALVE MBW HD01305900000	1
6	002844-00010	HEIGHT ADJUSTMENT CLAMP	1	41	006262-00001	SCREW, DRIVE HD RD. #4 X 1/4"	2	71	013065-00000	ROD END, REWORKED	1
7	003016-00044	HANDLE GRIP	4	42	006296-00005	12-06 REDUCER PIPE BUSHING	1	72	013213-00005	PRIMED MOUNTING PLATE	1
8	003017-00019	WHEEL MBW HD00301700019	2	43	006402-00000	1/4"-20 NYLON LOCKNUT	4	73	0A8399-00040	WELDMENT, DRILL CARRIER FOR 50# DRILL ON UTILITY	1
9	003656-00000	PR GAUGE MBW HD00365600000	1	44	006404-00000	3/8"-16 NYLON LOCKNUT	11	74	0A9350-00100	50# DRILL MBW HD0A935000100	1
10	003820-00000	SAFETY PIN & LANYARD	1	45	006405-00000	7/16"-14 NYLON LOCKNUT	1	75	0A9383-00000	WELDMENT, FRONT MOUNTING CLAMP	2
11	003997-01-00000	3/4" I.D. X 60.00" HOSE	60"	46	006406-00000	1/2"-13 LOCKNUT	1	76	A10876-00000	ROD GUIDE MBW HDA1087600000	1
12	004674-00000	AXLE WASHER	2	47	006466-00010	12-12S PIPE NIPPLE	1	77	A12246-00001	GUIDE BOLT MBW HDA1224600001	1
13	006107-00000	FLAT WASHER, 3/8 SAE	2	48	006471-00004	1/2" HEX SOCKET PIPE PLUG	1	78	A13047-00004	WELDMENT, END BRACKET	1
14	006112-00000	FLAT WASHER, 1/2 USS	7	49	006653-00000	NUT, HEX #8-32 NC THREAD	3	79	A13056-00005	WELDMENT, HANDLE	1
15	006117-00000	FLAT WASHER, 3/4 SAE	2	50	007282-00000	#12 SINGLE JACK CHAIN X 7.50"	7.50"	80	A13212-00002	WELDMENT, FRAME 24/22	1
16	005856-00000	AIR HOSE COUPLING PLUG	1	51	007667-8.000	3/4"-16 X 8.00" GRADE 8 BOLT	1	81	A13214-00000	WELDMENT, CYLINDER MOUNT	1
17	006007-00019	8-12S 37 DEG. MALE PIPE CONNECTOR	1	52	008409-00001	HINGE TAB	1	82	A13237-00001	WELDMENT, DRILL TRANSPORT BRACKET	1
18	006015-00005	12-12S INTERNAL PIPE TEE	1	53	008479-00001	LOCK PIN MBW HD00847900001	1	83	A13250-00000	DECAL KIT FOR HORNET	1
19	006019-00007	04-06 90 DEG EXT PIPE/ 37 DEG ELBOW	2	54	009626-00010	AIR REGULATOR - PRESET 96 PSI	1	84	A13250-00000	ASSEMBLY, DECAL KIT FOR MBW HORNET	1
20	006019-00011	06-06 90 DEG EXT PIPE/ 37 DEG ELBOW	2	55	010066-00003	DRILL HANDLE BRACKET	2	85	A13270-00004	ASSEMBLY, SPRING WHIP CABLE	2
21	006019-00024	12-12 90 DEG EXT PIPE/ 37 DEG ELBOW	1	56	010084-00000	NON-SLIP TRACK ADHESIVE BLACK X 12.50"	12.50"				
22	006032-00005	06 37° FEM/SWIVEL BARBED HOSE END	4	57	010300-00000	LEVER EXT MBW HD01030000000	2				
23	006032-00006	12 37° FEM/SWIVEL BARBED HOSE	4	58	010829-00111	MALE ELBOW - 1/4" TUBE TO MALE 3/8" NPT BRASS FITTING	2				
24	006036-2.000	1/4"-20 X 2.00" GRADE 5 H.H.C.S.	2	59	010829-00110	MALE ELBOW - 1/4" TUBE TO MALE 1/4" NPT BRASS FITTING	7				
25	006036-3.000	1/4"-20 X 3.00" GRADE 5 H.H.C.S.	4	60	010863-00000	1/4" NYLON TUBING X 110.00"	110"				
26	006038-1.000	3/8"-16 X 1.00" GRADE 5 H.H.C.S.	1	61	011163-00010	12-12 SWIVEL NUT ADAPTER	1				
27	006038-2.000	3/8"-16 X 2.00" GRADE 5 H.H.C.S.	4	62	011739-00004	DRILL CARRIER BEARING	8				
28	006038-2.500	3/8"-16 X 2-1/2" GRADE 5 H.H.C.S.	2	63	011879-00006	08-12 90 DEG EXT PIPE/37 DEG ELBOW MODIFIED	1				
29	006038-2.750	3/8"-16 X 2-3/4" GRADE 5 H.H.C.S.	4	64	012300-00000	3/4"-16 TORQUE LOCKNUT	1				
30	006039-1.750	7/16"-14 X 1-3/4" GRADE 5 H.H.C.S.	1	65	013036-00023	1.50" X 23.00" STROKE CYLINDER	1				
31	006040-0.875	1/2"-13 X 7/8" GRADE 5 H.H.C.S.	8								
32	006040-1.000	1/2"-13 X 1.00" GRADE 5 H.H.C.S.	2								
33	006040-1.250	1/2"-13 X 1-1/4" GRADE 5 H.H.C.S.	1								
34	006070-00000	1/4"-20 HEX NUT	2								
35	006144-00000	LOCKWASHER, #8	3								

50242HD

ASSEMBLY, 24/22 50# TOOL HORNET
DRILL W/ISOLATED HANDLE FOR MBW

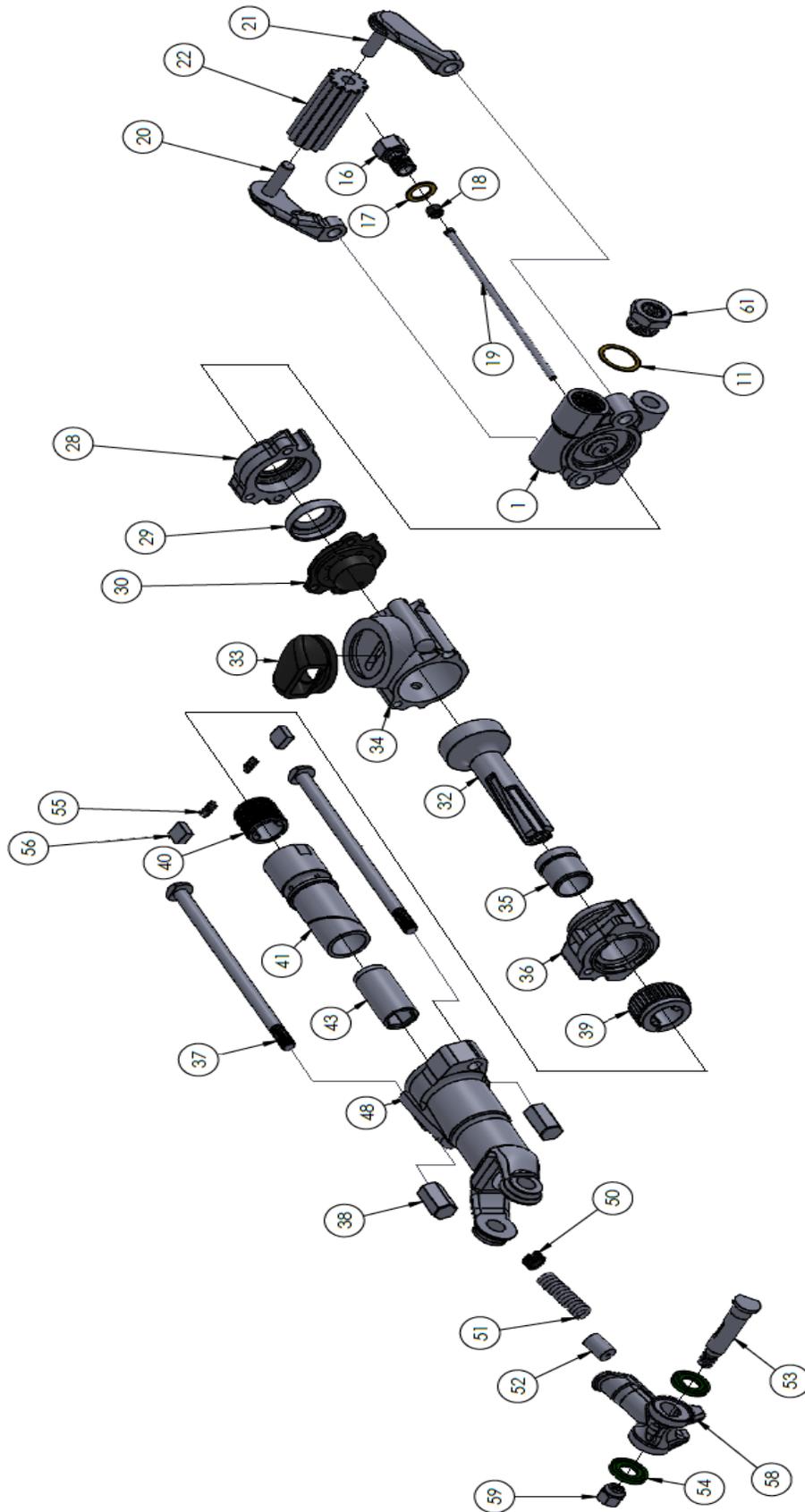
NOT SHOWN:
A13250-00000 X 1 DECAL KIT FOR HORNET
A13250-00000 X 1 DECAL KIT MBW

PAINTED BLACK

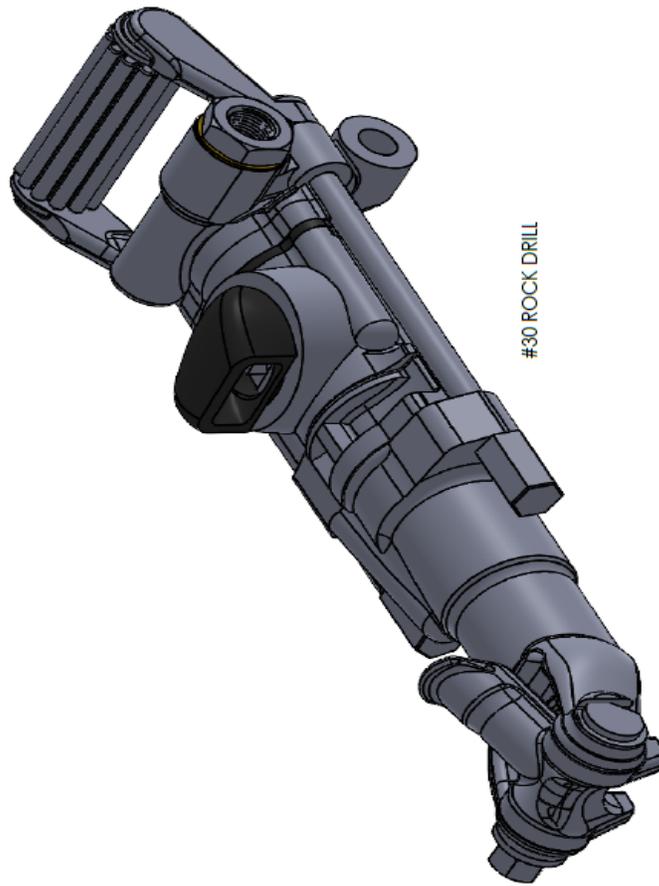
ROCK DRILL OIL
MBW HD01091500001 - 010915-00001 LUBRICANT, ROCK DRILL, 1QT
MBW HD01091500000 - 010915-00000 LUBRICANT, ROCK DRILL, 5-GAL

30# (13.2KG) ROCK DRILL
A11104-00100

#30 ROCK DRILL



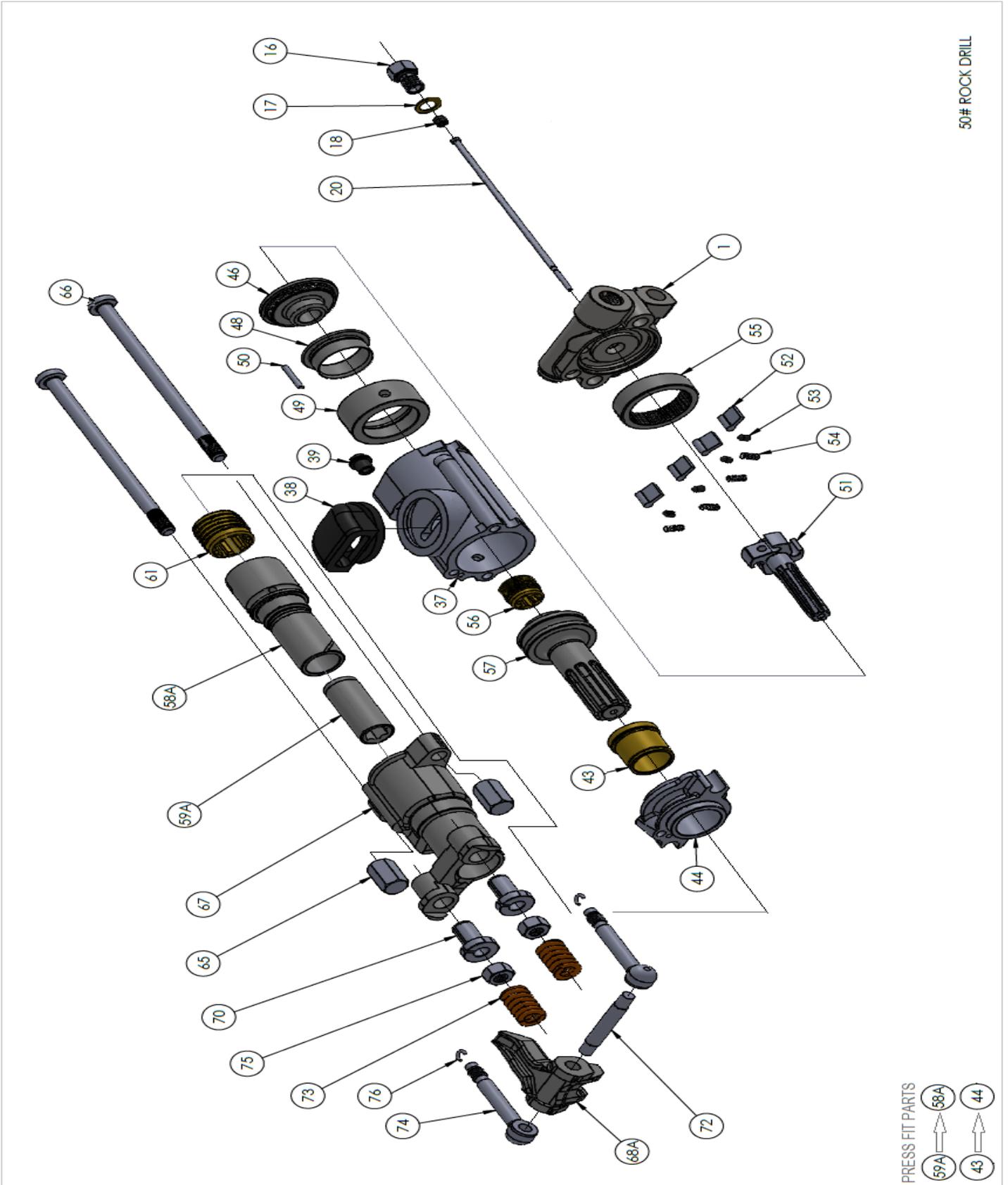
WHEN ORDERING REPLACEMENT PARTS YOU NEED TO FURNISH THE MODEL AND SERIAL NUMBER OF THE DRILL TOOL



#30 ROCK DRILL

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	011104-00001	BACKHEAD	1
11	011104-00011	AIR CONNECTION WASHER	1
16	011104-00016	BLOW TUBE GLAND FOR: 319 ROCK DRILL	1
17	011104-00017	TUBE GLAND GASKET	1
18	011104-00018	TUBE GASKET	1
19	011104-00019	BLOW TUBE 9" LONG	1
20	011104-00020	RIGHT GRIP SUPPORT	1
21	011104-00021	LEFT GRIP SUPPORT	1
22	011104-00022	CENTER GRIP	1
28	011104-00028	VALVE CHEST	1
29	011104-00029	VALVE	1
30	011104-00030	VALVE COVER	1
32	011104-00032	PISTON	1
33	011104-00033	EXHAUST DEFLECTOR	1
34	011104-00034	CYLINDER	1
35	011104-00035	FRONT WASHER BUSHING	1
36	011104-00036	FRONT WASHER	1
37	011104-00037	THROUGH BOLT	2
38	011104-00038	THROUGH BOLT NUT	2
39	011104-00039	RATCHET RING RIFLE NUT	1
40	011104-00040	SLEEVE NUT	1
41	011104-00041	ROTATION SLEEVE	1
43	011104-00043	SLEEVE BUSHING (FOR 7/8" X 3-1/4" SHANK)	1
48	011104-00048	FRONT HEAD	1
50	011104-00050	STEEL HOLDER SCREW	1
51	011104-00051	HOLDER SPRING	1
52	011104-00052	STEEL HOLDER PLUNGER	1
53	011104-00053	STEEL HOLDER BOLT	1
54	011104-00054	STEEL HOLDER PACKING	2
55	011104-00055	PAWL SPRING	2
56	011104-00056	ROTATIONAL PAWL	2
58	011104-00058	STEEL HOLDER	1
59	011104-00059	NUT	1
61	011104-00061	ADAPTOR PLUG	1

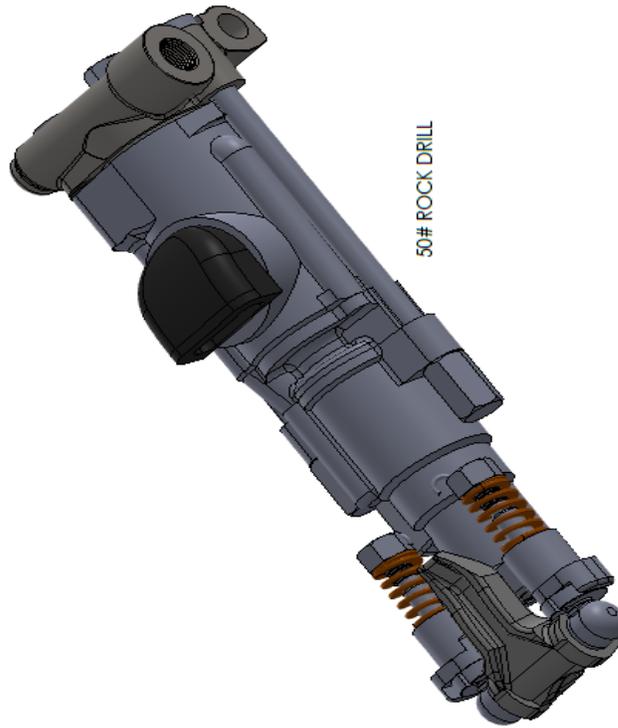
50# (23KG) ROCK DRILL
0A9350-00100



50# ROCK DRILL

HAMMER BOM (50#)

WHEN ORDERING REPLACEMENT PARTS YOU NEED TO FURNISH THE MODEL AND SERIAL NUMBER OF THE DRILL TOOL



50# ROCK DRILL

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	009350-00001	BACKHEAD	1
16	009350-00016	BLOW TUBE GLAND	1
17	009350-00017	TUBE GLAND GASKET	1
18	009350-00018	GLAND GASKET	1
20	009350-00020	BLOW TUBE	1
37	009350-00037	CYLINDER	1
38	009350-00038	EXHAUST DEFLECTOR	1
39	009350-00039	CYLINDER GASKET	1
43	009350-00043	BUSHING	1
44	009350-00044	CENTER WASHER	1
46	009350-00046	VALVE CHEST COVER	1
48	009350-00048	AUTOMATIC VALVE	1
49	009350-00049	VALVE CHEST	1
50	009350-00050	VALVE DOWEL PIN	1
51	009350-00051	RIFLE BAR	1
52	009350-00052	ROTATION PAWL	4
53	009350-00053	ROTATION PLUNGER	4
54	009350-00054	PAWL SPRING	4
55	009350-00055	RATCHET RING	1
56	009350-00056	RIFLE NUT	1
57	009350-00057	PISTON	1
58	009350-00058	ROTATION SLEEVE 7/8" X 3-1/4"	1
58A	009350-00058A	ROTATION SLEEVE 7/8" X 4-1/4"	1
59	009350-00059	SLEEVE BUSHING 7/8" X 3-1/4"	1
59A	009350-00059A	SLEEVE BUSHING 7/8" X 4-1/4"	1
61	009350-00061	SLEEVE NUT	1
65	009350-00065	SIDE ROD NUT	2
66	009350-00066	SIDE ROD	2
67	009350-00067	FRONTHEAD	1
68	009350-00068	STEEL RETAINER 7/8" X 3-1/4"	1
68A	009350-00068A	STEEL RETAINER 7/8" X 4-1/4"	1
70	009350-00070	FRONTHEAD BUSHING	2
72	009350-00072	STEEL RETAINER PIN	1
73	009350-00073	STEEL RETAINER SPRING	2
74	009350-00074	STEEL RETAINER BOLT	2
75	009350-00075	STEEL RETAINER NUT	2
76	009350-00076	RETAINER BOLT LOCK CLIP	2

WARRANTY

1. **IN GENERAL** - The warranties described in this document are provided by M-B-W, INC. and MBW EUROPE, LTD. ("MBW") to define what is, what is not, and for how long machines and parts are covered against material defects and/or defective workmanship. To obtain warranty service, the purchaser must, within the Warranty Period (defined in Paragraph 3): (i) report the product defect to an authorized repair center, (ii) make a written request for repair, (iii) provide proof of purchase to the authorized repair center, and (iv) deliver the equipment to the authorized repair center. A list of authorized repair centers is available on the MBW website (mbw.com) or by contacting MBW at 800-678-5237.
2. **COVERED** - MBW's obligation under this limited warranty is limited to the cost of the parts and the labor to repair any defect in material and/or workmanship at an authorized MBW repair center. Transportation charges are not covered by this limited warranty.
3. **WARRANTY PERIODS** - The Warranty Period begins on, as applicable: (i) the product purchase date by an end user or (ii) the first day the product is put into rental or two years after invoice date from MBW to Dealer, whichever starts the warranty period first. To insure that your warranty is in place, fill out the warranty card and mail it in or register your product online at www.mbw.com/service-support/warranty-registration. The warranty is nontransferable.
The Warranty Period ends after:
 - A. New Ground compaction equipment - 2 years.
 - B. New Concrete finishing equipment - 1 year.
 - C. New Utility equipment - 1 year.
 - D. Demonstration equipment - 6 months.
 - E. Wear parts: lubricants, filters, belts and shock mounts - 30 days.
4. **NOT COVERED**- This warranty does not include, and MBW specifically excluded from any warranty:
 - A. Used equipment - all used equipment is not warranted and is sold 'as is' 'where is' with all defects.
 - B. Replacement electrical parts, including but not limited to: electric motors, circuit boards, switches, are not warranted or returnable.
 - C. OEM: engines, batteries, and chargers. Those warranties are covered by the manufacturer.
 - D. Consumable parts: trowel and screed blades.
 - E. Equipment that has been: altered, abused, neglected, not maintained, or modified to run outside its specifications. Any modification to the machine or its parts makes this warranty null and void.
 - F. Other: damage to a product from normal wear, air freight, overtime, pickup and delivery, temporary replacement rentals, freight damage, or other similar incidents.
 - G. Product used in a fashion it was not designed for.
 - H. Parts and labor not performed by authorized dealers.

It is at MBW's discretion if warranty applies and has the right to adjust labor rates on a claim by claim basis.

5. OTHER - IT IS EXPRESSLY AGREED THAT THIS SHALL BE THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. UNDER NO CIRCUMSTANCES SHALL MBW BE LIABLE FOR ANY COSTS, LOSS, EXPENSE, DAMAGE, SPECIAL DAMAGES, DIRECT DAMAGES, INCIDENTAL DAMAGES, EXEMPLARY, CONSEQUENTIAL, OR PUNITIVE DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF MBW PRODUCT OR DAMAGES FOR LOSS OF USE, LOSS OF ANTICIPATED PROFITS, INCOME, OR ECONOMIC LOSSES OF ANY KIND. MBW'S LIABILITY TO BUYER UNDER THESE WARRANTIES FOR THE PRODUCT IS LIMITED AS SET FORTH HEREIN, WHETHER BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, INCLUDING BUT NOT LIMITED TO FRAUD, MISREPRESENTATION, BREACH OF CONTRACT, PERSONAL INJURY, PRODUCTS LIABILITY OR ANY OTHER THEORY.

MBW'S LIABILITY UNDER ANY WARRANTY HEREUNDER, WHETHER EXPRESS OR IMPLIED, SHALL NOT EXCEED THE COST OF REPAIR OR REPLACEMENT OF DEFECTIVE PARTS OF THE PRODUCT OR THE PRODUCT. BUYER MAY NOT BRING ANY ACTION UNDER THESE WARRANTIES MORE THAN ONE YEAR AFTER THE CAUSE OF ACTION HAS ACCRUED.

THE FORGOING WARRANTY IS EXPRESSED IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER OBLIGATIONS OR LIABILITY ON MBW'S PART. MBW SPECIFICALLY DISCLAIMS AND EXCLUDES ANY AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

MBW NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME ON BEHALF OF MBW ANY OTHER LIABILITY OR WARRANTY IN CONNECTION WITH THE SALE OR SERVICE OF ANY MBW PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.