



IW38HBPLT-4F Special Impact Wrench —Restricted Torque in Forward

Form Z805
Date 2009November10/A
Page 1 of 4

Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in an accessible place.

SAVE THESE INSTRUCTIONS!

Safety Messages

We provide safety messages to cover reasonable situations that may be encountered when operating, servicing or repairing air tools. It is the responsibility of operators and servicing technicians to be knowledgeable about the procedures, tools and materials used, and to satisfy themselves that the procedures, tools and materials will not compromise their safety, that of others in the work place or the tool.

⚠ WARNING



When used improperly power tools can create hazardous situations.
Everyone using, maintaining, changing accessories or working near this tool must read, understand and follow these Safety Instructions!

Improperly used power tools can cause injury or death.

Power Tool Safety Messages



WARNING

Improper use of power tools and accessories can cause broken tools.



- Read instructions before operating power tools.
- Be sure these instructions accompany the tool when passed from one user to a new or inexperienced user.
- Do not remove any labels. Replace all damaged labels.

Broken tools can cause injury.



Power tools can cause flying particles during use.

Wear safety goggles, user and bystanders.

Flying particles can cause injury.



Power tools generate noise.

Wear hearing protection, user and bystanders.

Prolonged exposure to noise can cause hearing loss.



Power tools vibrate.

- Avoid prolonged exposure to vibration, repetitive motions and uncomfortable positions.
- Stop using the tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.

Prolonged exposure to vibration, repetitive motions and uncomfortable positions can cause injury.



Risk of contamination from hazardous dust.

- Wear an approved dust mask or respirator when using power tools that create dust.
- Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm.

Inhaling hazardous dust can cause injury.

Sudden changes in motion or position can occur while using the tool.

- Anticipate and be alert for changes in motion during start up and operation.
- Maintain a secure grip.
- Anticipate reaction force. Adjust your stance and hold tool securely.
- Observe the position of the reverse mechanism before operating the tool and be aware of rotation direction when you press the trigger.

Sudden changes in motion or position can cause injury.



Risk of entanglement.

- Keep body parts away from moving parts.
- Do not wear loose clothing and jewelry while operating tool.
- Wear protective hair covering to contain long hair.
- Do not carry tool with your finger on the trigger.
- Remove adjusting keys or wrenches before turning the tool on.
- Do not lock, tape, wire, etc., the trigger in the ON position.
- Keep handle dry, clean and free from oil and grease.
- Always shut off air supply and disconnect tool from air supply when changing accessories.

Entanglement can cause injury.



Flammable vapors can explode.

- Do not use near flammable vapors or near a gas line or gas tank.
- Direct tool exhaust air away from flames or hot surfaces.
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel.
- Use only recommended lubricants.

Explosion and flames can cause injury.



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Lubricating oil is discharged with exhaust air.

- **Operate tool in a well-ventilated area.**
- **Avoid breathing exhaust air.**

Breathing air with oil mist can cause injury.

Electricity can cause electric shock.

- **Do not use on or near live electrical circuits.**
- **This tool is not insulated against electrical shock.**

Electric shock can cause injury.

Work area can contain hazards.

- **Keep work area clean and well lit.**
- **Stay alert and use common sense when operating tool. Do not operate when fatigued, or under the influence of medication, drugs or alcohol.**
- **Before using the tool, make sure that a shutoff device has been fitted on the supply line and the location is well-known and easily accessible so that the air supply to the tool can be shut off in an emergency.**
- **Never lay a tool down until the attachment has stopped moving.**
- **Do not overreach. Keep proper footing and balance at all times.**
- **Do not allow bystanders to contact tool.**
- **Keep bystanders at a safe distance from the work area.**
- **Wear appropriate protective apparel, users and bystanders.**
- **Direct exhaust air to avoid blowing air or debris from the workpiece onto the user or bystanders.**
- **When operating in heights, be aware of things below and around you.**
- **When tool is not in use, shut off the air supply and press trigger or lever to relieve air pressure.**
- **If tool is not to be used for a period of time, lubricate it, disconnect it from the air supply line and store it in a dry place with moderate temperature.**
- **Store tools when not being used in a high, dry and locked area that can not be accessed by children.**

Work area hazards can cause injury.

Risk of whipping compressed air hoses.

- **Attach air lines securely.**
- **Check the air hose and fittings regularly for wear.**
- **Do not connect quick-connect couplings directly to the tool.**
- **Use a whip air hose no longer than 60" (150 cm).**

Whipping compressed air hose can cause injury.

Untrained users can create hazards.

- **Secure work with a clamp or a vise whenever possible.**
- **Use the right tool. Do not use a tool that is too light or too heavy for the work.**
- **Do not force tool.**
- **Operate air tools at 90 psig (6.2 bar, 620 kPa) maximum air pressure.**
- **It is expected that users adopt safe working practices and observe all local, regional or country legal requirements when installing, using or maintaining this tool.**

Improper use can cause injury.

Improper repairs or lack of maintenance can create hazards.

- **Do not modify or make temporary repairs. Use only genuine Snap-on replacement parts for maintenance and repair. Servicing and repairs should be performed only by trained personnel.**
- **Do not use the tool if it vibrates too much, makes unusual noises, has loose parts, or shows any other sign of damage.**
- **If tool malfunctions, discontinue use and immediately arrange for service and repair. If it is not practical to remove the tool from service, shut off the tool air supply, write a warning tag and attach the tag to the tool.**
- **Do not remove any manufacturer fitted safety devices (e.g., wheel guards, safety trigger, speed governors).**
- **If this tool becomes damaged beyond repair, disassemble and degrease the tool. Then separate all parts by material type and recycle.**

Improper parts, repair or maintenance can cause injury.

Impact Wrench Safety Messages



WARNING

Using damaged and incorrect sockets or accessories can cause flying particles.

- **Do not use chipped, cracked or damaged sockets or accessories.**
- **Use only impact sockets and accessories.**
- **Periodically check the force to pull-off a socket from the square. Inadequate pull-off force may allow the socket to come off when rotating.**
- **Use only ball-joint flexible sockets. Do not use square block type flex sockets.**

Flying particles can cause injury

Specifications

Square Drive Size.....	1/2"
Torque	
Clockwise	50 lbs. ft. (68 N•m)
Counterclockwise	285 lbs. ft. (386 N•m)
Recommended Air Pressure.....	
.....	90 psig (6.2 bar, 620 kPa), maximum
Air Consumption, Free Speed	4.6 cfm (33 SCFM)
Air Consumption, Working	4.2 cfm (30 SCFM)
RPM, Free Speed CCW	9,500
Blows per Minute	1,400
Air Inlet Thread Size	1/4"–18 NPT
Air Supply Hose Size.....	3/8" (9.5 mm) ID min

Maximum Air Supply Hose Length	30' (10 m)
Dimensions	
Height	7.20" (18.3 cm)
Length.....	7.57" (19.2 cm)
Width	2.18" (5.54 cm)
Weight	2.88 lbs (1.3 kg)
*Sound Pressure Level.....	95 dBA
*Sound Power Level	106 dBA
**Vibration Level	5.2 m/s2

Specifications at 90 psig (6.2 bar, 620 kPa)
 *Tested in accordance with ISO Standard 3744 and Pneurop test code PN8NTC1.
 **Tested in accordance with ISO Standard 8662-7

Air Compressor

The air compressor should have sufficient capacity to deliver 4.6 cfm (33 SCFM) at 90 psig (6.2 bar, 620 kPa) at each outlet while the tool is running. The receiver tank should have sufficient capacity to provide surge balance for each air tool.

Air Strainer

An air strainer is built into the removable air inlet bushing located at the rear of the impact wrench. To clean, remove the bushing and use an air hose to blow dirt and other particles from the screen and bushing.

Before reinstalling the air inlet bushing, check the O-ring for damage. If it is damaged, replace it with a new O-ring to prevent air leakage.

Torque reinstalled air inlet bushing to 50–55 lbs. ft. (68–75 N•m).

Air Supply

The pneumatic impact wrench operates best on clean, moisture-free, well-lubricated air at a constant pressure of 90 psig (6.2 bar, 620 kPa) maximum.

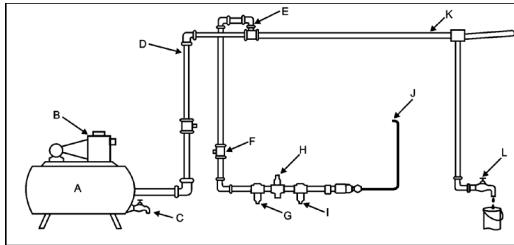


Figure 1: Air Supply

A–Receiver Tank, Minimum 40 Gallons (151.5liters)
 B–Compressor, Sufficient Capacity
 C–Drain, Daily
 D–Pipe and Fittings, Minimum 1/2"
 E–Top Air Intake
 F–Shut Off Valve, Easily Reached
 G–Filter

H–Air Regulator, Set at Working Pressure
 I–Lubricator
 J–Air Tool Connection
 K–Low Spot, Water Trap
 L–Drain, Daily

Piping System

The piping system should be large enough to avoid an excessive pressure drop under maximum flow conditions. All pipe fittings and hose outlets should be 1/2" and should be arranged so there are no low spots that collect water which cannot be drained daily. Do not use an air hose less than 3/8" inside diameter or one that is too long because pressure drop under maximum flow conditions could reduce performance.

Filter

A filter should be used to assure clean air for the air impact wrench. Water, dirt and scale act as abrasives which could damage the air impact wrench. A filter unit should be installed between the compressor and the air regulator and air lubricator.

Air Regulator

Regulated air pressure is necessary for proper performance of the air impact wrench. The regulator will adjust and maintain the recommended air pressure of 90 psig (6.2 bar, 620 kPa). Pressure less than this reduces efficiency, while pressure greater than this increases blows and speed beyond the rated capacity—creating potential hazards and possible damage to the air impact wrench. Check the air pressure at the regulator while using the impact wrench in a normal manner.

Air Line Lubricator

✓ Do not use a heavy grade of oil because stalling and low performance will result.

The preferred method of lubricating the air impact wrench motor is to use an air line lubricator. It should be filled with a good grade of SAE 10W oil.

If an air line lubricator is not used, lubricate the air motor by injecting approximately 1/8 oz (3.75 ml) of air motor oil into the air inlet of the wrench each day before using it.

Oil Reservoir

The impact mechanism chamber is sealed at the factory and should not require any additional oil.

Forward / Reverse Lever

The forward/reverse lever is located in the middle of the wrench above the trigger. For forward (clockwise) anvil rotation, push lever towards front of tool. For reverse (counterclockwise) rotation, push lever towards back of tool.

Air Pressure

✓ Restricted forward torque, always hand torque to final specification

WARNING

Restricted torque is dependent on line pressure.

Do not adjust line regulator after tool is set to desired torque.

Socket Retainer

WARNING

Disconnect the air hose before changing sockets.

This air impact wrench features a steel locking ring for retaining all types of impact sockets. The ring holds them in place by friction. It will be necessary to replace the ring periodically when the force to remove the socket falls below six (6) lbs for a 1/2" square drive.



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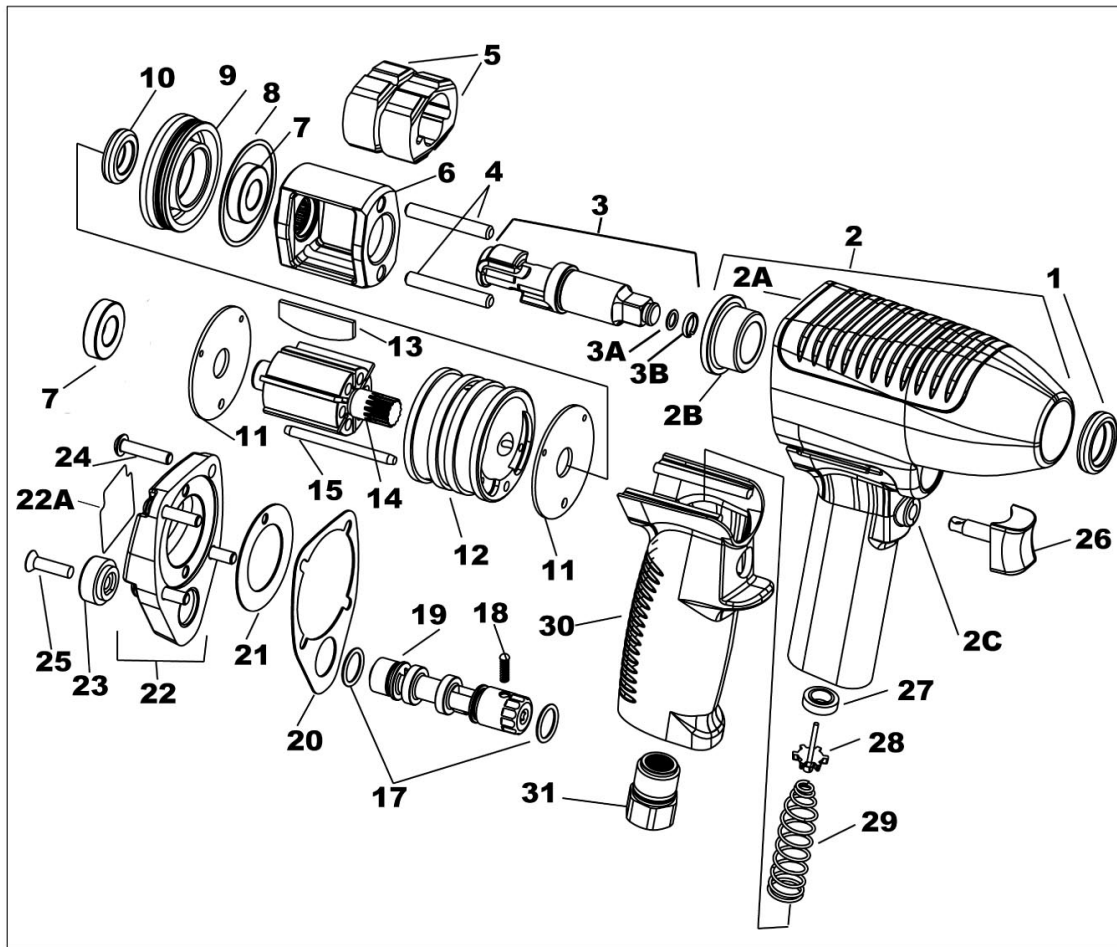


Fig. No.	Part No.	Description	Fig. No.	Part No.	Description
1.	ME6A29	Oil Seal	17.	04250	O-Ring (2)*
2.	MG3151LT1-T	Housing	18.	MG31-300	RV Detent
2A.	MG31-29	Top Grip	19.	MG3151LT9	Reverse Valve
2B.	ME11C10	Nose Bushing	20.	MG31-3	Gasket
2C.	MG31-23	Trigger Bushing	21.	MG31-33	Gasket
3.	MG3151L-12R	Anvil	22.	MG3151LT2-T	End Cap
3A.	ME7B3	O-Ring	22A.	SS2492	Label
3B.	ME7A97	Ring	23.	MG3151LT16	Regulator Knob
4.	IM3100-14	Pin (2)*	24.	ME3R6A	End Cap Screw #10 (4)*
5.	IM3100-13	Engagement Dog (2)*	25.	ME3F79	10-32 FH Screw
6.	MG325-11	Frame	26.	MG31-200	Trigger and Stem Assembly
7.	ME11A46	Ball Bearing (2)*	27.	IM3100-22	Valve Seat
8.	ME7B109	O-Ring	28.	IM3100-20	Trigger Valve
9.	MG31-4	Front End Plate	29.	ME1A226	Spring
10.	ME6A12	Oil Seal	30.	MG31-28	Grip
11.	MG31-501	Wear Plate (2)*	31.	ME6F1A	Adapter Bushing
12.	MG3151LT507	Cylinder Liner			
13.	MG31-530-8V	Vane (8)—Kit			
14.	MG31-506	Rotor			
15.	ME2A149	Alignment Pin			

Available Accessories
IW12LT BOOT Boot



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*Order Quantity As Required
FURNISH CATALOG, SERIAL, AND MODEL
NUMBER WHEN ORDERING PARTS

This pdf incorporates the following model numbers:

IW38HBPLT-4F