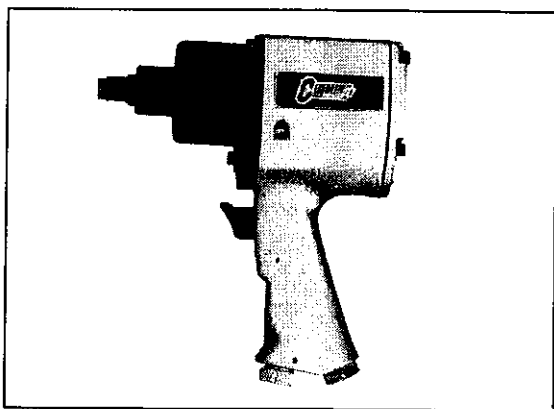




Assembly & Instruction Manual

Heavy Duty Air Impact Wrench 1/2" Drive

Model 1139



Distributed Exclusively By



CUMMINS
INDUSTRIAL TOOLS



THANK YOU FOR BUYING CUMMINS INDUSTRIAL TOOLS

Your new Air Impact Wrench has been engineered and manufactured to Cummins tools high standards for dependability, ease of operation, and operator safety. Properly cared for, it will give you years of rugged, trouble-free performance.

CAUTION: Carefully read through this entire operator's manual before using your new machine.

Pay close attention to the Rules for Safe Operation, Warnings, and Cautions. If you use your machine properly and only for what it is intended, you will enjoy years of safe, reliable service.

SAVE THIS MANUAL FOR FUTURE REFERENCE



WARNING

To reduce risk of injury, never use this tool for anything other than its intended purpose. Always use proper technique when using this tool. Always use proper technique when using this tool. Always use proper technique when using this tool.

Customer Service Postal Address:
7290 35 Road
Minden, NE 68959
Voice: 1-(308) 832-2070
Fax: 1-(308) 832-2069

You can purchase additional
items at www.cumminstools.com

Safety Warnings and Precautions

WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment.

Read all instructions before using this tool!

1. **Keep work area clean.** Cluttered areas invite injuries.
2. **Observe work area conditions.** Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted.
3. **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools, or extension cords.
4. **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
5. **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
6. **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
7. **Use eye protection.** Always wear ANSI approved impact safety glasses underneath a full face shield during use. Also, wear heavy duty work gloves.
8. **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
9. **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. The handles must be kept clean, dry, and free from oil and grease at all times.
10. **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before starting work.
11. **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
12. **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Any part that is damaged should be replaced.
13. **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Cummins Industrial Tools.
14. **Do not operate tool if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.

Warning: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Impact Wrenches

Problem

Tool runs slowly or not at all. Air flows only slightly from exhaust.

Probable Cause

Flow blocked by accumulation of dirt.

Motor parts jammed with dirt particles.

Power regulator may have simply vibrated to a closed position.

Recommended Action

Check air inlet strainer for blockage.

Pour liberal amount of air tool oil in air inlet.

Operate tool in short bursts - quickly reversing rotation back and forth.

Repeat as needed.

If this fails to improve performance, tool should be serviced by an authorized service center.

Problem

Tool will not run.

Exhaust air flows freely.

Probable Cause

One or more motor vanes stuck due to sludge or varnish build-up.

Motor jammed due to rust.

Recommended Action

Pour liberal amount of air tool oil in air inlet.

Operate throttle in short bursts of forward and reverse rotation.

Tap motor housing lightly with plastic mallet.

Disconnect air supply - then attempt to free motor by rotating drive

If tool remains jammed, it should be serviced by an authorized service center.

Problem

Sockets will not stay on.

Probable Cause

Worn socket retainer ring or soft back-up ring.

Recommended Action

Wear safety glasses.

Disconnect air supply.

Using external retaining ring pliers, expand old retaining ring and remove - OR - if retaining ring pliers are not available, clamp tool "lightly" in soft jaw vice.

Holding square drive with appropriate open-end wrench, pry old retainer ring out of groove with small screwdriver.

Always pry off ring away from your body - it can be propelled outward at high velocity.

Replace back-up "O" ring and retainer ring with correct new parts. (See parts list that accompanied tool).

Place retaining ring on table, press tool shank into ring in a rocking motion. Snap into groove by hand.

Problem

Premature shank wear.

Probable Cause

Use of chrome sockets or excessively worn sockets.

Recommended Action

Discontinue use of chrome sockets. Remember that chrome sockets have a hard surface and relatively

soft core. Drive hole will become rounded - but still be very hard. Besides the danger of splitting, they will wear out wrench shanks prematurely.

Problem

Tool gradually losing power but still runs at full free speed.

Probable Cause

Clutch parts worn, perhaps due to lack of lubricant.

Engaging cam of clutch worn or sticking due to lack of lubricant.

Recommended Action**OIL LUBED**

Check for presence of clutch oil (where oil is specified for clutch) and (a) removing oil fill plug. (b) tilt to drain all oil from clutch, (c) refill with 30 weight SAE oil or that recommended by manufacturer, but only the amount specified.

Check for excess clutch oil. Overfilling can cause drag on high speed clutch parts. A typical 1/2" oil-lubed wrench requires only 1/2 ounce of clutch oil.

GREASED LUBED

Check for excess grease by rotating drive shank by hand. It should turn freely. Excess is usually expelled automatically.

If disassembly is required for greasing, it should be done carefully to maintain orientation of mating parts.

Problem

Tool will not shut off.

Probable Cause

Throttle valve "O" ring broken or out of position.

Throttle valve stem bent or jammed with dirt particles.

Recommended Action

Remove assembly and install new "O" ring.

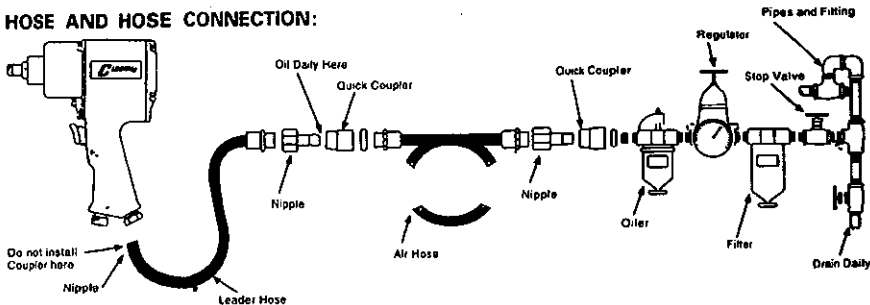
Lubricate with air tool oil and operate trigger briskly. If operation cannot be restored tool should be checked by an authorized service center.

* **NOTE:** Vibration and heat usually indicate insufficient grease in the clutch chamber.

The average greasing interval is specified in the parts list. Severe operating conditions may require more frequent lubrication.

- Use this heavy duty impact wrench with your favorite sockets for a vast range of projects
- 1/2" Square drive
- Free speed: 7000 RPM
- Working air pressure: 90 PSIG
- Air consumption: 4 SCFM
- Max. torque: 230 ft/lbs
- Air inlet: 1/4" N.P.T.
- Hose size: 3/8"
- Length: 7 1/4"
- Uses SAE # 30 oil

AIR HOSE AND HOSE CONNECTION:



OPERATING INSTRUCTIONS

"WARNING"

1. ALWAYS USE APPROVED EYE PROTECTION WHEN OPERATING THIS TOOL.
2. ALWAYS USE IMPACT SOCKETS IN GOOD CONDITION. SOCKETS IN BAD CONDITION REDUCE IMPACT POWER AND COULD ALSO SHATTER AND CAUSE POSSIBLE PERSONAL INJURY. NEVER USE HAND SOCKETS.
3. ALWAYS USE THE SIMPLEST HOOK - UP POSSIBLE. LONG, SPRINGY EXTENSION BARS ABSORB IMPACT AND COULD BREAK LOOSE AND CAUSE POSSIBLE PERSONAL INJURY.
4. ALWAYS DIRECT EXHAUST AWAY FROM YOURSELF AND OTHERS IN THE AREA.
5. ALWAYS DISCONNECT TOOL WHEN NOT IN USE.

LUBRICATION

To flush out gum and dirt:

1. Daily before and after each shift, pour a liberal quantity of gum solvent oil into air line.
2. Connect tool to air line. Operate tool.
3. Repeat procedure before storing.
4. Monthly, check oil in impact unit. This tool holds approximately 3/4 oz. of SAE # 30 oil.

AIR SUPPLY (minimum requirements)

1. Compressor/7hp, 30CFM at 100 psig (6.9bar), 40 gal air tank.
2. See diagram above for Pipe, Hose and Fitting size.
3. When using two or more hoses, all except leader hose should be 3/8" I.D. or larger.

FOR BEST OPERATION: Supply tool with 90 psig (6.2bar) of clean, dry air. Higher pressure drastically reduces tool life and can void warranty.

LOSS OF POWER/ERRATIC ACTION (possible causes)

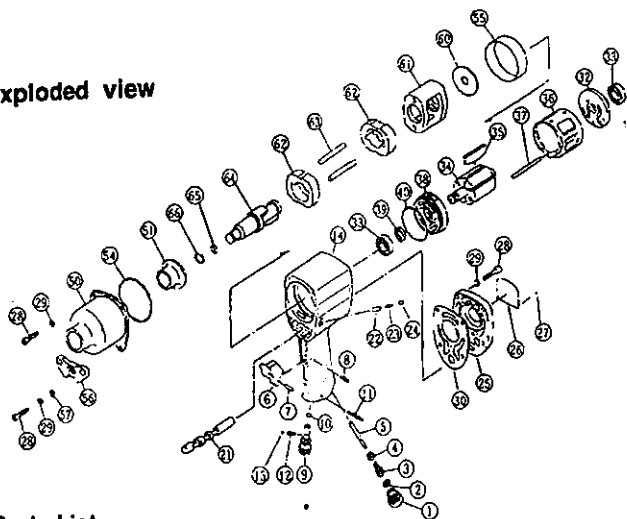
1. Reduced compressor output.
2. Excessive drain on air line.
3. Moisture or restricted pipe, hose or fittings.
4. Improper size or poor condition of pipe, hose or fittings.
5. Dirt or gum deposits cut tool power. To correct this, check and clean air strainer, then repeat lubrication procedure. (If outside conditions are in order, disassemble tool, replace worn or damaged parts, clean, assemble and lubricate.)

REPLACEMENT PARTS

Always use CUMMINS INDUSTRIAL TOOLS Replacement Parts. When replacement parts are required, order Part No. and Description in the Parts List.

No. 1

Exploded view



SPECIFICATIONS:

Square Drive.....	1/2"
Torque(FT/LBS).....	400
Free Speed(RPM).....	7000
Air Pressure(PSIG).....	90
Air Consumption(SCFM).....	3-1/2
Air Inlet(NPTF).....	1/4"
Hose Size(TD).....	3/8"
Length.....	7"
Weight(LBS).....	5

Parts List

Index No.	Part No.	Description	No. Req'd.	Index No.	Part No.	Description	No. Req'd.
1	CM1139-01	Air Inlet (PT)	1	24	CM1139-24	Housing Cover Gasket	1
2	CM1139-02	Air Screen	1	25	CM1139-25	Rear Plate	1
3	CM1139-03	Throttle Valve Spring	1	26	CM1139-26	Bearing	2
4	CM1139-04	Throttle Valve	1	27	CM1139-27	Rotor	1
5	CM1139-05	Throttle Push Pin	1	28	CM1139-28	Rotor Blade	6
6	CM1139-06	Trigger	1	29	CM1139-29	Liner	1
7	CM1139-07	Trigger Pin	1	30	CM1139-30	Liner Pin	1
8	CM1139-08	Spring Pin	1	31	CM1139-31	Front Plate	1
9	CM1139-09	Control Valve	1	32	CM1139-32	Oil Seal	1
10	CM1139-10	O-Ring	1	33	CM1139-33	O-Ring	1
11	CM1139-11	Spring Pin	1	34	CM1139-34	Clutch Housing	1
12	CM1139-12	Spring	1	35	CM1139-35	Shank Bushing	1
13	CM1139-13	Steel Ball	1	36	CM1139-36	O-Ring	1
14	CM1139-14	Motor Housing CP	1	37	CM1139-37	Housing Adaptor Ring	1
15	CM1139-15	Reverse Valve	1	38	CM1139-38	Exhaust Deflector	1
16	CM1139-16	Reverse Valve Stop Pin	1	39	CM1139-39	Washer M5	2
17	CM1139-17	Valve Stop Pin Spring	1	40	CM1139-40	Spacer	1
18	CM1139-18	Allen Set Screw	1	41	CM1139-41	Hammer Frame	1
19	CM1139-19	Housing Cover	1	42	CM1139-42	Hammer	2
20	CM1139-20	Name Plate	1	43	CM1139-43	Hammer Pin	2
21	CM1139-21	Rivet	4	44	CM1139-44	Anvil Shank	1
22	CM1139-22	Allen Screw	8	45	CM1139-45	O-Ring	1
23	CM1139-23	Spring Washer M5	8	46	CM1139-46	Socket Retainer	1

No.2