

# INSTRUCTIONS FOR MODEL IR-C107XP RATCHET WRENCH

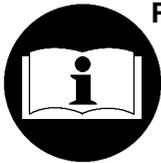
## NOTICE

Model IR-C107XP Ratchet Wrench is designed for body shop work, removing or replacing radiators, spark plugs, air conditioning units, and water pumps in automotive applications.

## ⚠ WARNING

**IMPORTANT SAFETY INFORMATION ENCLOSED - SAVE THESE INSTRUCTIONS**

**READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THIS PRODUCT**



**IT IS YOUR RESPONSIBILITY TO MAKE THIS SAFETY INFORMATION  
AVAILABLE TO OTHERS THAT WILL OPERATE THIS PRODUCT**

**FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD  
RESULT IN INJURY**

### PLACING TOOL IN SERVICE

- Always install, operate, inspect and maintain this product in accordance with all applicable standards and regulations (local, state, country, federal, etc.).
- Always use clean, dry air at 90 psig (6.2 bar/620 kPa) maximum air pressure at the inlet. Higher pressure may result in hazardous situations including excessive speed, rupture, or incorrect output torque or force.
- Be sure all hoses and fittings are the correct size and are tightly secured. See Dwg. TPD905-2 for a typical piping arrangement.
- Ensure an accessible emergency shut off valve has been installed in the air supply line, and make others aware of its location.
- Do not use damaged, frayed or deteriorated air hoses and fittings.
- Keep clear of whipping air hoses. Shut off the compressed air before approaching a whipping hose.
- Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool.
- Do not lubricate tools with flammable or volatile liquids such as kerosene, diesel or jet fuel. Use only recommended lubricants.
- Keep work area clean, uncluttered, ventilated and illuminated.
- Do not remove any labels. Replace any damaged label.

### USING THE TOOL

- Always wear eye protection when operating or performing maintenance on this tool.
- Always wear hearing protection when operating this tool.
- Always use Personal Protective Equipment appropriate to the tool used and material worked. This may include dust mask or other breathing apparatus, safety glasses, ear plugs, gloves, apron, safety shoes, hard hat and other equipment.
- This tool is not designed for working in explosive environments, including those caused by fumes and dust, or near flammable materials.
- This tool is not insulated against electric shock.
- Be aware of buried, hidden or other hazards in your work environment. Do not contact or damage cords, conduits, pipes or hoses that may contain electrical wires, explosive gases or harmful liquids.
- Prevent exposure and breathing of harmful dust and particles created by power tool use.  
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. Some examples of these chemicals are:
  - lead from lead based paints,
  - crystalline silica from bricks and cement and other masonry products, and
  - arsenic and chromium from chemically treated lumber.
 Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Refer All Communications to the Nearest  
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**Using the Tool (Continued)**

- Keep others a safe distance from your work area, or ensure they use appropriate Personal Protective Equipment.
- Keep hands, loose clothing, long hair and jewelry away from working end of tool.
- Power tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.
- Keep body stance balanced and firm. Do not overreach when operating this tool. Anticipate and be alert for sudden changes in motion, reaction torques, or forces during start up and operation.
- Tool and/or accessories may briefly continue their motion after throttle is released.
- To avoid accidental starting - ensure tool is in "off" position before applying air pressure, avoid throttle when carrying, and release throttle with loss of air.
- Ensure work pieces are secure. Use clamps or vises to hold work piece whenever possible.
- Do not carry or drag the tool by the hose.
- Do not use power tools when tired, or under the influence of medication, drugs, or alcohol.
- Never use a damaged or malfunctioning tool or accessory.
- Do not modify the tool, safety devices, or accessories.
- Do not use this tool for purposes other than those recommended.
- Use accessories recommended by Ingersoll-Rand.
- Note the position of the reversing mechanism before operating the tool so as to be aware of the direction of rotation when operating the throttle.
- Use only impact sockets and accessories. Do not use hand (chrome) sockets or accessories.
- Impact Wrenches are not torque wrenches. Connections requiring specific torque must be checked with a torque meter after fitting with an impact wrench.
- Periodically check the drive end of the tool to make certain that the socket retainer functions correctly, and that sockets and drive ends are not excessively worn which may allow the socket to come off when rotating.

**NOTICE**

The use of other than genuine Ingersoll-Rand replacement parts may result in safety hazards, decreased tool performance, and increased maintenance, and may invalidate all warranties.

Repairs should be made only by authorized trained personnel. Consult your nearest Ingersoll-Rand Authorized Servicenter.

**WARNING SYMBOL IDENTIFICATION**

	<b>⚠ WARNING</b>
Always wear eye protection when operating or performing maintenance on this tool.	

	<b>⚠ WARNING</b>
Read this manual before operating tool.	

	<b>⚠ WARNING</b>
Always wear hearing protection when operating this tool.	

## SERVICING THE TOOL

### Lubrication



**Ingersoll-Rand No. 50**



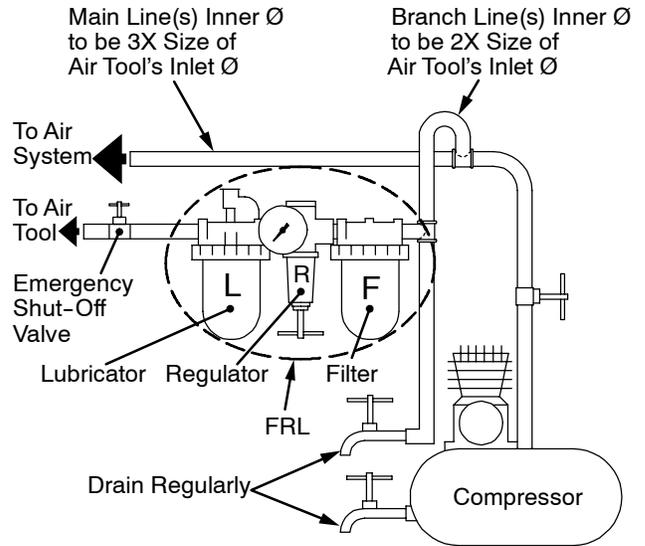
**For the Gearing -  
Ingersoll-Rand No. 28  
For the Ratchet Housing  
Ingersoll-Rand No. 66**

Always use an air line lubricator with these tools.  
We recommend the following Filter-Regulator-Lubricator (FRL) Unit:

**For USA use Unit Number C28-04-FKG0-28  
For International use Unit Number C28-C4-FKG0**

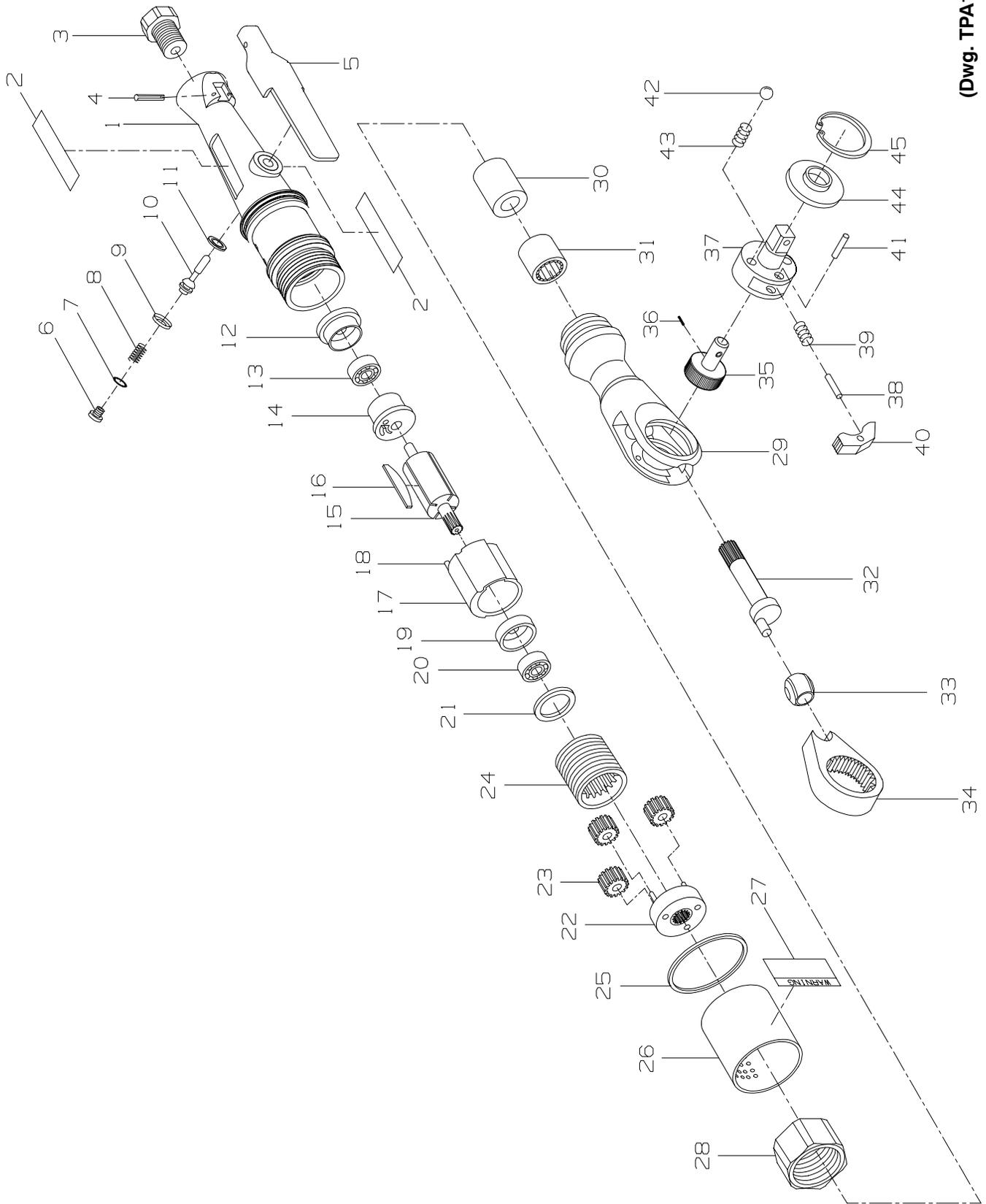
**Before starting the tool and after each two or three hours of operation, unless the air line lubricator is used, pour approximately 1.5 cc of Ingersoll-Rand No. 50 Oil into the air inlet.**

**Periodically, inject several drops of Ingersoll-Rand No. 50 Oil between the Ratchet Housing (29) and Ratchet Yoke (34) to lubricate the Drive Bushing (33).**



## SPECIFICATIONS

Model	Drive	Free Speed	Recommended Torque Range
	in.	rpm	Ft-lb (Nm)
IR-C107XP	3/8"	160	10 to 45 (14 to 61)



(Dwg. TPA1766)

**PART NUMBER FOR ORDERING**

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1	Motor Housing Assembly	IRC107XP-A40	25	O-ring	107XP-167
2	Nameplate (2)	IRC107XP-301	26	Exhaust Deflector Assembly	107XP-A123
3	Inlet Bushing	107-465	27	Warning Label	WARNING-7-99
4	Throttle Lever Pin	223-554	28	Coupling Nut	107-27
5	Throttle Lever	107XP-273	29	Ratchet Housing Assembly	107XP-A322
6	Valve Screw Assembly	107-A229A	30	Bushing	107XP-467
7	Valve Screw O-ring	107-259	31	Needle Bearing	107-32
8	Throttle Valve Spring	107-51	32	Crank Shaft	107XP-35
9	Throttle Valve Spring Seat	107-710	33	Drive Bushing	107-36
10	Throttle Valve Assembly	107-A302	34	Ratchet Yoke	107-37
11	Throttle Valve O-ring	107-314	35	Reverse Button Assembly	107XP-A38
12	Rear Rotor Bearing Cap	107-624	36	Reverse Button Pin	107-39
13	Rear Rotor Bearing	107-24	37	Ratchet Anvil	107XP-44
14	Rear End Plate	107-12	38	Ratchet Lock Pin	107-49
15	Rotor	107XP-53	39	Ratchet Spring	107XP-41
16	Vane Packet (set of 4 Vanes)	107XP-42-4	40	Ratchet Pawl	107-43
17	Cylinder Assembly	107-A3	41	Pawl Retaining Pin	107-34
18	Cylinder Dowel	107-98	42	Detent Ball (2)	107-696
19	Front End Plate	107-11	43	Detent Spring (2)	107-45
20	Front Rotor Bearing	107-97	44	Thrust Washer	107-46
21	Spacer	107-18	45	Retaining Ring	107-426
22	Spindle Assembly	107XP-A8			
23	Spindle Planet Gear (3)	109-9			
24	Ring Gear	107XP-99			





