

# INSTRUCTIONS FOR MODEL IR-C215 HEAVY DUTY IMPACT WRENCH

## NOTICE

Model IR-C215 Impact Wrench is designed to handle major service work on brakes, exhaust systems and vehicle front ends.

## ⚠ 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)

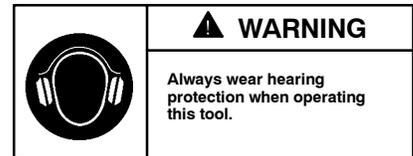
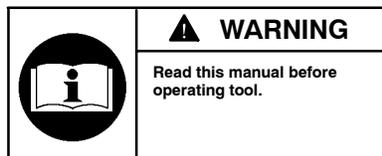
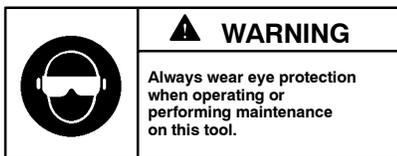
- Keep others a safe distance from your work area, or ensure they use appropriate Personal Protective Equipment.
- Keep hands, loose clothing, long hair and jewelry away from working end of tool.
- Power tools can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be harmful 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



## ADJUSTMENTS

### Setting the Power Regulator

#### WARNING

Impact wrenches are not torque wrenches. Connections requiring specific torque must be checked with a torque meter after fitting with an impact wrench.

Model IR-C215 Impact Wrench incorporates a power regulator into the reverse mechanism. To adjust the power, rotate the Power Regulator (12) until the notch aligns with the number of the desired power setting.

#### NOTICE

The numbers 1 thru 3 on the housing are only for reference and DO NOT denote a specific power output. One (1) designates the lowest power output while three (3) denotes the highest.

## SERVICING THE TOOL

### Lubrication

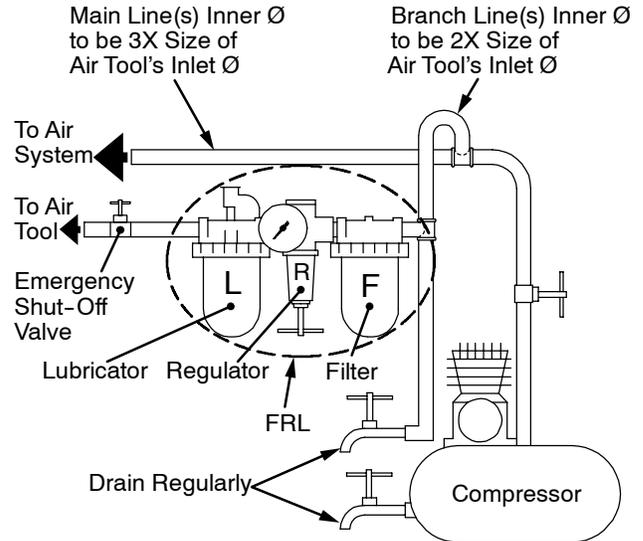


#### Ingersoll-Rand No. 50

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**

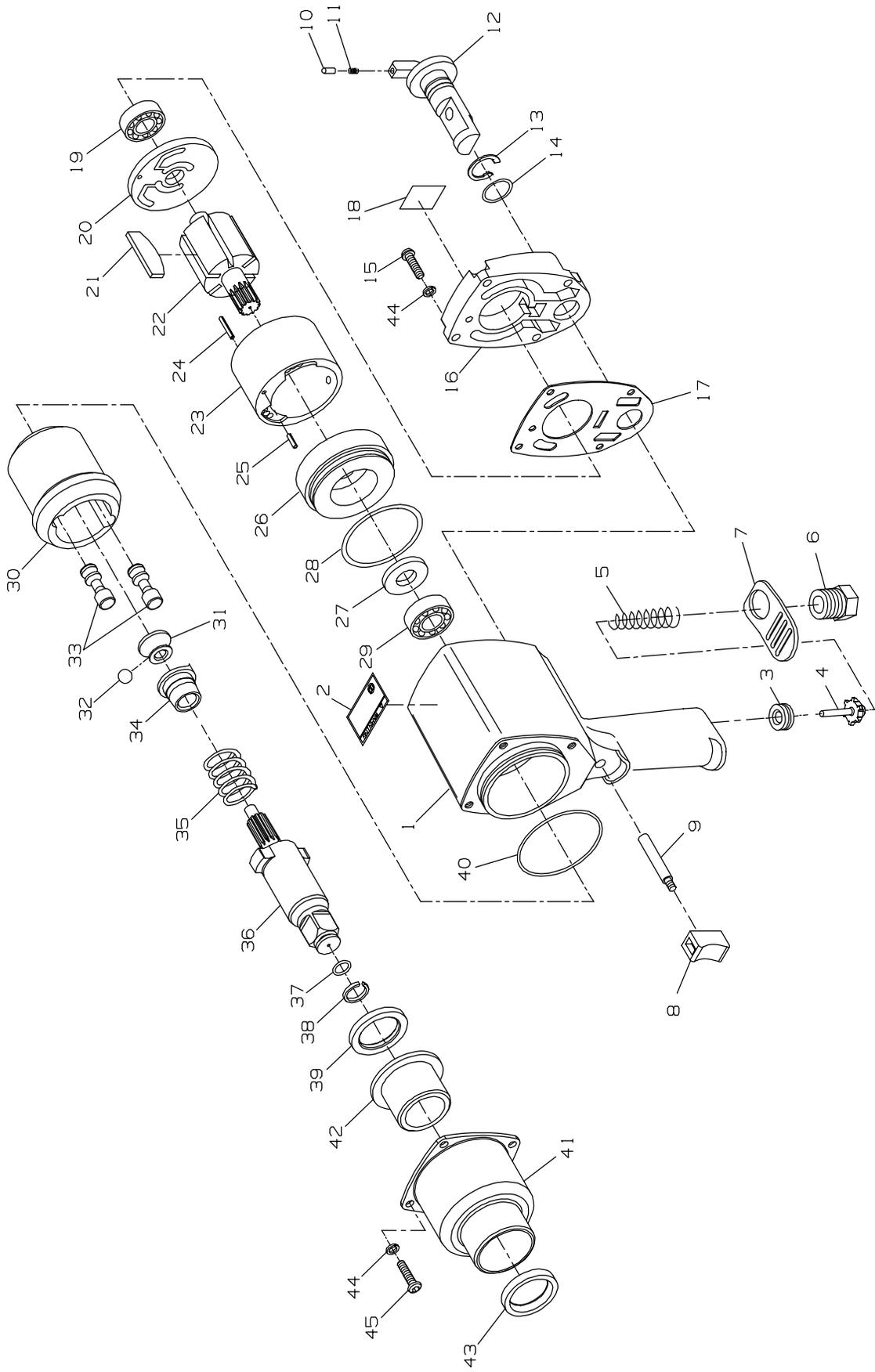
**After each eight hours of operation**, unless an air line lubricator is used, detach the air hose and inject about 1-1/2 cc of Ingersoll-Rand No. 50 Oil into the Inlet Bushing (6).



(Dwg. TPD905-2)

## SPECIFICATIONS

Model	Type of Handle	Drive	Impacts per min.	Recommended Torque Range
		in.		ft-lbs (Nm)
IR-C215	pistol	3/8" sq.	1,600	15-180 (20-244)



(Dwg. TPA1720)

**PART NUMBER FOR ORDERING** →

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1	Motor Housing Assembly .....	IRC215-A40	26	Front End Plate Assembly .....	215-A11
2	Warning Label .....	WARNING-27-99	27	Oil Seal .....	215-708
3	Throttle Valve Seat .....	235-303	28	O-ring .....	215-213
4	Throttle Valve Stem .....	235-50	29	Front Rotor Bearing .....	222-22
5	Throttle Valve Spring .....	235-51	30	Hammer Cage .....	215-724
6	Inlet Bushing .....	235-565	31	Spindle Guide .....	215-630
7	Exhaust Deflector .....	235-EU-23	32	Ball .....	215-722
8	Trigger .....	231H-93	33	Hammer Pin (2) .....	215-704
9	Trigger Pin .....	235-302	34	Hammer Cam .....	215-721
10	Power Regulator Stop Pin .....	235-421	35	Hammer Spring .....	215-728
11	Power Regulator Stop Spring .....	207-334	36	Anvil Assembly .....	215-A626
12	Power Regulator .....	215-329	37	Retainer O-ring .....	205-425
13	Retaining Ring .....	215-168	38	Retainer Ring .....	205-426
14	O-ring .....	215-338	39	Anvil Spacer .....	215-706
15	Motor Cover Cap Screw (4) .....	207-638	40	O-ring .....	215-36A
16	Motor Cover Assembly .....	BNV215-A202	41	Hammer Case Assembly .....	215-A727
17	Motor Cover Gasket .....	215-739	42	Hammer Case Bushing .....	215-641
18	Nameplate .....	IRC215-301	43	Oil Seal .....	223-271
19	Rear Rotor Bearing .....	7804R-22	44	Lock Washer (8) .....	223-58
20	Rear End Plate .....	215-12	45	Hammer Case Cap Screw (4) .....	235-638
21	Vane Packet (set of 6 Vanes) .....	215-42-6			
22	Rotor .....	215-53			
23	Cylinder Assembly .....	215-A3			
24	Cylinder Dowel (rear) .....	251-97			
25	Cylinder Dowel (front) .....	251-98			





