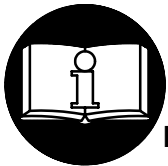


# MAINTENANCE SECTION COVERING DEP30–A756–30 TRANSDUCER for SERIES DEP PISTOL GRIP TORQUE CONTROL WRENCHES

## ⚠ WARNING



**IMPORTANT SAFETY INFORMATION ENCLOSED.  
READ ALL THESE INSTRUCTIONS BEFORE PLACING TOOL IN SERVICE OR  
OPERATING THIS TOOL AND SAVE THESE INSTRUCTIONS.  
IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PLACE THE INFORMATION  
IN THIS MANUAL INTO THE HANDS OF THE OPERATOR.**

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

**Disconnect the Power Cord from the receptacle before performing any maintenance on this tool.**

This symbol is to alert the user and service personnel to the presence of uninsulated dangerous voltage that will cause a risk of electric shock.



This symbol is to alert the user and service personnel to the presence of important operating instructions that must be read and understood to prevent personal injury, electrical shock or damage to the equipment.



**WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD  
ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK  
AND PERSONAL INJURY, INCLUDING THE FOLLOWING.**

### PLACING TOOL IN SERVICE

- Use only with Ingersoll–Rand Series Controllers.
- Always operate, inspect and maintain this tool in accordance with all regulations (local, state, federal and country), that may apply to hand held/hand operated electric tools.
- Inspect tool cords periodically and if damaged, have them repaired by an authorized service facility.
- 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.

- 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.
- **Guard Against Electric Shock.** Prevent body contact with earthed or grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
- **Don't abuse Cord.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- **Keep work area clean.** Cluttered areas and benches invite injuries.

*(Continued on page 2.5–2)*

## NOTICE

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

Have your tool repaired by a qualified person. This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

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

Refer All Communications to the Nearest  
Ingersoll–Rand Office or Distributor.

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## PROFESSIONAL TOOLS






## FAILURE TO OBSERVE THE FOLLOWING WARNINGS COULD RESULT IN INJURY.

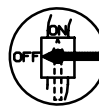


### USING THE TOOL (*Continued*)

- **Consider work area environment.** Don't expose power tools and chargers to water. Keep work area well lighted. Do not use tool in explosive or flammable atmospheres.
- **Keep bystanders and children away.** Do not permit unauthorized personnel to operate this tool, or touch tool or cord.
- **Store idle tools.** When not in use, tools should be stored in a dry, high or locked up place, out of reach of children.
- **Don't force tool.** It will do the job better and more safely at the rate for which it was intended.
- **Use the right tool.** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Do not use a tool for a purpose for which it is not intended.** Example: Do not use a screwdriver as a drill.
- **Dress properly.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- **Secure work.** Use clamps or a vise to hold work. Operators often need both hands to perform job functions.
- **Don't overreach.** Keep proper footing, balance, and a firm grip on the tool at all times.
- **Maintain tools with care.** Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have them repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
- **Remove adjusting keys and wrenches.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- **Avoid unintentional starting.** Don't carry tool with finger on switch.
- **Do not drop or abuse the tool.**
- **Whenever a tool is not being used, position the Power Switch to the "OFF" position and unplug the power cord.**
- **Stay alert.** Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- **Check damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this operation manual.
- **Have defective switches replaced by an authorized service center.**
- **Do not use the tool if the switch does not turn it on and off.**
- **When installing or removing the output device on any tool, ALWAYS grasp a metal component of the tool while tightening or loosening the Coupling Nut or Spindle Cap.** Acceptable clamping locations include, but are not limited to, the hex on the Gear Case, the Tool Hanger, the Torque Reaction Arm or any metal Mounting Plate. NEVER grasp the composite tool body or handle in vise jaws to restrain the torque of the Coupling Nut or Spindle Cap. Such practice will result in damage to the tool.
- **Do not use power units and gear trains that exceed the capability of the output device.**
- **The Torque Reaction Bar must be positioned against a positive stop. Do not use the Bar as a dead handle and take all precautions to make certain the operator's hand cannot be pinched between the Bar and a solid object.**
- **When operated continuously for long periods of time, Series DE Nutrunners may become hot at the spindle end of the tool. Take all precautions necessary to avoid skin contact with the hot surfaces. Prolonged contact may result in burns.**
- **All Series D Torque Control Wrenches and Nutrunners with reverse capability have rotational arrows molded into the housing in the area of the reversing mechanism. When the direction switching device is positioned nearest the molded circular arrow with an "F" in the center, spindle rotation will be forward or clockwise direction. When the direction switching device is positioned nearest the molded circular arrow with an "R" in the center, spindle rotation will be reverse or counter-clockwise direction.**
- **Use only impact sockets and accessories. Do not use hand (chrome) sockets or accessories.**

## WARNING LABEL IDENTIFICATION

	<p><b>▲ WARNING</b></p> <p>Always wear eye protection when operating or performing maintenance on this tool.</p>
	<p><b>▲ WARNING</b></p> <p>Powered 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.</p>
	<p><b>▲ WARNING</b></p> <p>INDOOR USE ONLY.</p>

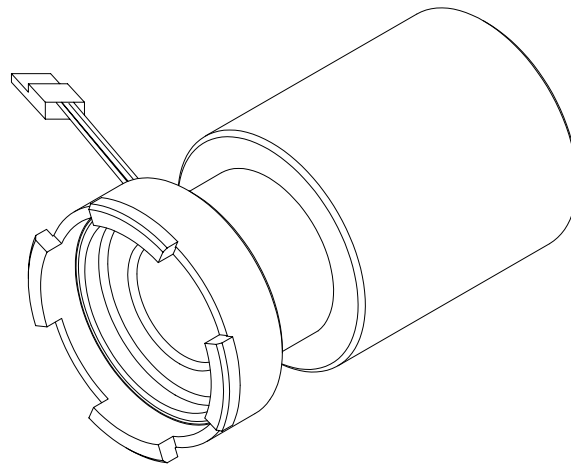
	<p><b>▲ WARNING</b></p> <p>Always wear hearing protection when operating this tool.</p>
	<p><b>▲ WARNING</b></p> <p>Do not carry the tool by the cord.</p>
	<p><b>▲ WARNING</b></p> <p>The Torque Reaction Bar must be positioned against a positive stop. Do not use the Bar as a dead handle and take all precautions to make certain the operator's hand cannot be pinched between the Bar and a solid object.</p>

	<p><b>▲ WARNING</b></p> <p>Always turn off the electrical supply and disconnect the power cord before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool.</p>
	<p><b>▲ WARNING</b></p> <p>Do not use damaged, frayed or deteriorated power cords.</p>
	<p><b>▲ WARNING</b></p> <p>Keep body stance balanced and firm. Do not overreach when operating this tool.</p>

All Series DEP Pistol Grip Titan Wrenches are equipped to monitor torque, and are furnished with a Transducer that functions as a torque sensing strain gage to measure and react to increased torque.

It is inserted between the Spindle and the power unit and becomes the gear case for the gear train contained within it. It will look similar to the unit shown in Drawing TPD1890.

### DEP30-A756-30 TRANSDUCER



(Dwg. TPD1890)

These Transducers have their part number etched onto the surface that is the outside portion of the integral gear case.

The Transducer shown here is currently the only transducer available for pistol grip tools.

To remove the Transducer, proceed as follows:

1. Unscrew the Spindle Bearing Cap from the front of the tool.
2. Pull the splined output Spindle out of the Transducer.
3. Remove the Access Cover or Torque Reaction Arm Cover.
4. Unplug the motor lead connection that is accessible through the slot at the top of the motor unit.
5. Push the transducer connector inward to clear the housing and slide the Transducer out of the spindle end of the power unit. Do not pinch the wire leads between the Transducer and the housing.

## TITAN 30 SERIES PISTOL SETUP PARAMETERS

Model Number	Transducer	Full Scale (Nm)	Gear Case Ratio	Max. Speed (rpm)	Max. Torque (Nm)	TR	ASC
<b>30 SERIES PISTOL</b>							
DEP SERIES 3N—	DEP30-A756-30	30	3.333:1	4500	3	30	9
DEP SERIES 5N—	DEP30-A756-30	30	5.667:1	2650	5.4	30	5.294
DEP SERIES 9N—	DEP30-A756-30	30	11.111:1	1350	9	30	2.7
DEP SERIES 15N—	DEP30-A756-30	30	15.000:1	1000	15	30	2
DEP SERIES 20N—	DEP30-A756-30	30	21.530:1	700	20	30	1.393
DEP SERIES 25N—	DEP30-A756-30	30	25.500:1	590	25	30	1.176
DEP SERIES 30N—	DEP30-A756-30	30	32.115:1	470	30	30	0.934

### NOTICE

**SAVE THESE INSTRUCTIONS. DO NOT DESTROY.**