



SERVICE AND MAINTENANCE MANUAL

TE260 HYDRAULIC DRIFTER

Blast hole and Foundation Drilling

SERVICE AND MAINTENANCE MANUAL FOR TE260 HYDRAULIC DRIFTER

This manual contains instructions for the maintenance, troubleshooting, and field repair of the TEI ROCK DRILLS TE260. It is intended to help you maintain the drill and perform on-site repairs.

Read and understand this manual before operating or servicing this machine.

Keep this manual handy for future reference.



Both operator and service personnel must read this service manual, particularly the warnings and cautions in Section 2, before operating this equipment. Your failure to do so may result in dangerous practices which can cause serious personal injury.

TEI ROCK DRILLS

The Hydraulic Drifter described in this literature is manufactured to TEI ROCK DRILLS exacting standards.

For maximum utilization and efficiency in operating this equipment, we urge you to thoroughly read the entire contents of this manual before you begin to drill.

ADDITIONAL MANUALS ARE AVAILABLE

Additional copies of this manual are available for purchase from TEI ROCK DRILLS. To order please specify equipment model and serial number, quantity desired, type of manual, and remit \$25 per manual with order. Make check payable to TEI ROCK DRILLS and mail to:

TEI ROCK DRILLS
P O Box 1309
Montrose, Colorado 81402
USA

TE260 SERVICE AND MAINTENANCE MANUAL

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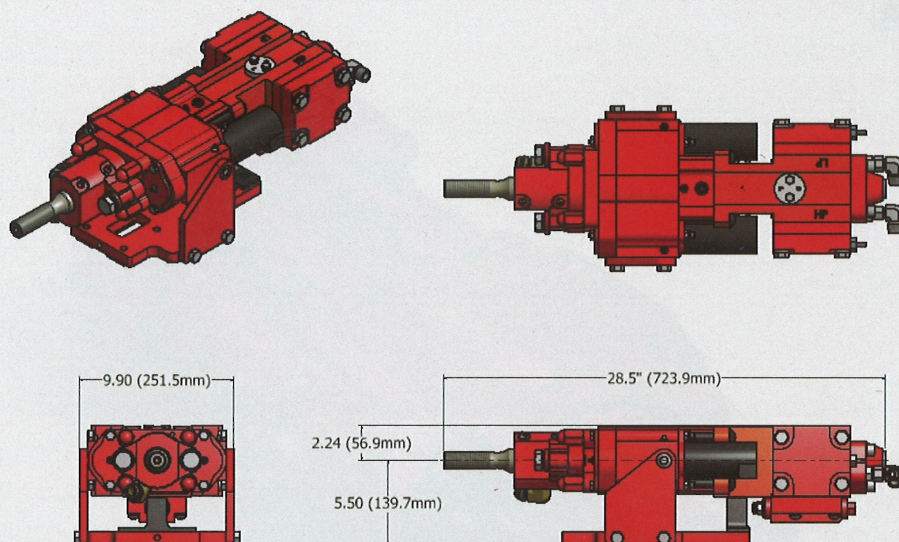
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INTRODUCTION
Section 1

Specifications

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BEFORE ATTEMPTING MAINTENANCE OR REPAIR OF ANY COMPONENTS OF THIS MACHINE, READ THE WARNINGS AND CAUTIONS LISTED IN SECTION 2



	U.S.	Metric
Impact Energy	65-95 ft/lbs	88-129 joules
Impact Frequency	3600-5000 BPM	3600-5000 BPM
Supply Pressure	2250 PSI	155 bar
Percussion Flow	17 GPM	64 LPM
Output Power	9.85 HP	7.35 kW
Rotation Torque	200 ft/lbs	27 daNm
Rotation Speed	Up to 250 RPM	Up to 250 RPM
Rotation Flow	5 GPM	19 LPM
Weight	144 Lbs	65 Kg
Shanks Available	1.0 Rope, 1.25 Rope, 1.50 Rope, T38, Williams 32, Williams 38, Titan 30, Titan 40	

AN ADDITIONAL HYDRAULIC OIL COOLER IS RECOMMENDED FOR PRODUCTION DRILLING. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

HYDRAULIC OIL SPECIFICATIONS

	• Mobile • DTE 24	• Mobile • DTE 25	• Mobile • DTE 26
• Product Number	• 60262-3	• 60263-1	• 60264-9
• Gravity, API	• 30.4	• 28.4	• 27.5
• Specific Gravity	• 0.874	• 0.885	• 0.890
• Pour point, °C (°F), max	• -23 (-10)	• -23 (-10)	• -23 (-10)
• Flash point, °C (°F), min	• 202 (395)	• 202 (395)	• 204 (400)
• Viscosity, • cSt at 40° C • cST at 100° C • SUS at 100° F • SUS at 210° F	• 32 • 5.3 • 165 • 44	• 46 • 6.7 • 238 • 49	• 68 • 8.5 • 335 • 55
• ISO Viscosity Grade	• 32	• 46	• 68
• Viscosity index	• 95	• 95	• 95
• Rust Protection, ASTM D 665, A B	• Pass	• Pass	• Pass
• Color, ASTM D 1500, max	• 3.5	• 4.0	• 4.0

GREASE SPECIFICATIONS

Product:	Primrose #327		
NLGI Grade:	2	SUS @ 100°F:	2752
Non-Soap Base:	Moly-Disulfide	SUS @ 210°F:	160
Penetration@ 77° F, Worked:	280	cSt @ 40°C:	512
Structure:	Smooth/Tacky	cSt @ 100°C:	33
Drop Pt. °F, min:	None (non-melt)	Color Visual	Dark Green

PRECAUTIONARY NOTICES
Section 2

Operator Warnings	2-1
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BEFORE ATTEMPTING MAINTENANCE OR REPAIR OF ANY COMPONENTS OF THIS MACHINE, READ THE WARNINGS AND CAUTIONS LISTED IN SECTION 2



OPERATOR WARNINGS

Your first consideration, when servicing your TE260, must be your personal protection and that of others. Correct servicing is a matter of being completely familiar with your machine and the job it is intended to do. Carefully read and understand the warnings listed below, and most of all remember to apply good common sense at all times.

1. DO NOT OPERATE DRILLING CONTROLS UNLESS YOU ARE THOROUGHLY FAMILIAR WITH FUNCTIONS.
2. DO NOT OPERATE THE TE260 HYDRAULIC DRILL UNLESS ACCUMULATORS HAVE BEEN CHARGED.
3. WEAR A PROTECTIVE HELMET AND EYE PROTECTION WHEN OPERATING OR NEAR THE DRILL CARRIER.
4. WEAR NOISE-REDUCING EAR PROTECTION WHEN NEAR THE MACHINE FOR EXTENDED PERIODS WHILE THE MACHINE IS RUNNING.
5. DO NOT ATTEMPT LUBRICATION OR SERVICE WHILE MACHINE IS RUNNING.
6. BE SURE THE HYDRAULIC AND PNEUMATIC SYSTEMS ARE NOT PRESSURIZED BEFORE LOOSENING ANY CONNECTIONS OR PARTS.
7. REMOVE DRILLSTEEL AND LOWER THE DRILL TO CENTRALIZE BEFORE TRAMMING.
8. BEFORE STARTING THE ENGINE, BE SURE ALL HYDRAULIC CONTROLS ON THE DRILL AND CARRIER ARE IN THE OFF OR NEUTRAL POSITION.
9. BE SURE ALL HYDRAULIC HOSE CONNECTIONS ARE TIGHT, AND HOSE RETAINERS IN PLACE.
10. KEEP ALL PERSONNEL AWAY FROM THE HOLE WHILE DRILLING IS IN PROGRESS.
11. DO NOT REDRILL ANY BLAST HOLE.
12. DO NOT STRIKE THE DRILL STEEL TO DISLODGE IT WHILE THE DRILL IS OPERATING. FRAGMENTATION OF THE DRILL STEEL MAY RESULT.
13. BE SURE THE DRILL STEEL COUPLING DOES NOT UNTHREAD TOTALLY FROM BOTH DRILL STEEL AND SHANK.
14. IF BIT BECOMES PLUGGED, DETATCH BIT FROM STEEL TO REMOVE OBSTRUCTION. NEVER HAMMER ON BIT OR STEEL. FRAGMENTATION CAN PRODUCE SERIOUS INJURY.
15. BEFORE ATTEMPTING TO REMOVE DRILL FROM FEED, RELIEVE STANDING PRESSURE.
16. USE CAUTION WHEN CHECKING FOR LEAKS. FLUID UNDER PRESSURE MAY PENETRATE THE SKIN.
17. DRILL AND FEED MUST BE IN THE HORIZONTAL POSITION FOR DISASSEMBLY.
18. IF RIG IS TO BE OPERATED WITH DRILL DISMOUNTED, SECURE AND CAP ALL LOOSE FITTINGS AND CONNECTIONS.
19. DO NOT REMOVE THE ACCUMULATOR COVERS BEFORE COMPLETELY BLEEDING OFF THE GAS CHARGE IN THE ACCUMULATOR.
20. THOROUGHLY TEST ALL REPAIRS BEFORE PUTTING EQUIPMENT INTO SERVICE.



EQUIPMENT CAUTIONS

The following are good practices to observe for protecting the equipment and drills from damage, and to provide maximum life for the machine:

1. MAINTENANCE OF TE260 HAMMER, BEARINGS, ACCUMULATORS, VALVE ASSEMBLY OR STROKE CONTROL MUST BE PERFORMED IN A CLEAN SHELTERED AREA. THE ONE OVERRIDING RULE IN MAINTAINING HYDRAULIC EQUIPMENT IS CLEANLINESS. PREVENTION OF CONTAMINATION IN HYDRAULIC FLUIDS IS THE MOST IMPORTANT FACTOR IN MAINTAINING HIGH PERFORMANCE IN TODAY'S HYDRAULIC EQUIPMENT. AT ONE TIME WHEN MACHINES OPERATED AT LOW SPEEDS AND LOW TEMPERATURES CLEANLINESS WAS A VIRTUE, TODAY IT IS A NECESSITY.
2. KEEP THE DRILL LUBRICATED. APPLY GREASE DAILY, OR WHEN INDICATED (MORE OFTEN IN HOT CLIMATES) TO THE GREASE FITTINGS AT THE CHUCK END OF THE DRILL.
3. PERIODICALLY INSPECT HOSE RETAINERS AND HOSES FOR INDICATION OF WEAR, LOOSENESS, CRACKING, OR FRAYING.
4. FREQUENTLY CHECK ALL NUTS, BOLTS, AND ADJUSTMENTS FOR PROPER TENSION.
5. BE SURE THE HYDRAULIC RESERVOIR IS ALWAYS FILLED TO THE RECOMMENDED LEVEL WITH THE PROPER TYPE HYDRAULIC FLUID. DO NOT MIX TYPES OF FLUID.
6. KEEP ALL BITS SHARP AND PERIODICALLY CHECK FOR BROKEN OR LOOSE CARBIDES.
7. EXCESSIVELY WORN THREADS ON THE DRILL STRING CAN CAUSE PREMATURE WEAR AND BREAKAGE OF NEW PARTS MATED WITH THE STRING.
8. DO NOT OPERATE THE DRILL ROTATION AND FEED AT FULL THROTTLE UNTIL SURE OF ROCK CONDITIONS. OVER FEEDING AND OVER ROTATION CAN CAUSE BREAKAGE OF DRILL ROTATION PARTS AND THE DRILL STRING.
9. FREE OSCILLATION (DRY FIRING) OF DRILL WILL RESULT IN PREMATURE WEAR OR FAILURE OF CYLINDER AND HAMMER SEALS.
10. BEFORE REMOVING ANY LINES OR HOSES, TAG EACH TO FACILITATE REASSEMBLY.
11. CAP OR PLUG ALL HYDRAULIC AND PNEUMATIC CONNECTIONS AFTER DISASSEMBLY TO PREVENT CONTAMINATION OF THE SYSTEM.
12. CLEAN THE EXTERIOR OF ALL PARTS AND HOSE CONNECTIONS BEFORE REMOVING.
13. DO NOT OPERATE THE TE260 HYDRAULIC DRILL UNTIL ACCUMULATORS HAVE BEEN CHARGED.
14. BEFORE REASSEMBLING HYDRAULIC COMPONENTS, CLEAN ALL METAL PARTS IN A NON-FLAMMABLE CLEANING FLUID.
15. THOROUGH CHECKS MUST BE MADE OF ALL REASSEMBLIES TO BE SURE THEY ARE ASSEMBLED PROPERLY ACCORDING TO INSTRUCTIONS. DO NOT DRILL UNTIL ALL CHECKS HAVE BEEN MADE.

MAINTENANCE
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**BEFORE ATTEMPTING MAINTENANCE OR REPAIR OF ANY COMPONENTS OF THIS
MACHINE, READ THE WARNINGS AND CAUTIONS LISTED IN SECTION 2**

GENERAL TIPS ON DRILL MAINTENANCE

These general instructions will be helpful when using the maintenance and adjustment procedures outlined on the following pages.

1. Cover all hydraulic or air openings with an appropriate dust cover when any hydraulic or air openings are exposed. A clean part in a dirty opening does little good.
2. Carefully examine all filters for evidence of metal or rubber particles. Replace the filters as necessary.
3. Before servicing the drill or any part of the hydraulic system, neutralize the pressure in the complete hydraulic system.
4. Before reassembling hydraulic components, clean all metal parts in a non-flammable cleaning fluid. Carefully lubricate all components to aid in reassembly.
5. Thorough checks must be made of all reassemblies to be sure they are assembled properly according to the instructions. Do not drill until all checks have been made.
6. Frequent inspection of the TE260 is very good practice. A minor adjustment can many times prevent costly repairs later on.
7. Maintenance of hammer, bearings, accumulators, valve assembly or stroke control must be performed in a clean sheltered area.
8. Maintenance of chuck end or rotation assemblies may be performed on a mounted drill.
9. It is not necessary to bleed off nitrogen charge in accumulators unless maintenance is performed on accumulator assemblies.



IMPORTANT

All TEI ROCK DRILL parts are manufactured with care and precision. Each part is carefully inspected before and after assembly. Every step has been taken to provide you with the quality product you expect. Eventually some parts of your drill will become worn. The description of damaged parts in this section is general, and is intended to help the servicemen in the field to service and repair the TE260. It is not meant to imply that all such parts will fail in the described manner, or that damage is due to faulty manufacture.



Before performing any maintenance make certain of the following:

1. Only qualified personnel should perform service on the TE260 Drifter.
2. Use only original TEI factory parts
3. Make certain maintenance is performed in a clean/sheltered area.
4. Only qualified personnel should perform cleaning, lubricating, service and repair of the drill.
5. Make certain all bolts and screws are properly torqued according to manufacturers recommendations.
6. Ensure that all waste is disposed of according to environmental regulations.

DAILY MAINTENANCE

Normal operation of the TE260 requires daily greasing of the front rotation housing every 2 percussion hours using a moly disulfide high temperature type grease. This is most important to prevent galling and failure of the rotation gears and bearings. During the first week of operation or after replacement of the accumulator diaphragm, the charge pressure must be checked daily. In addition all hydraulic hoses must be inspected for chafing and pinched or damaged sections. The hydraulic oil must be checked for proper level and color. A white or milky appearance or foaming of hydraulic oil indicates water contamination. Continued operation with contaminated oil will damage both the drill and pump. Hydraulic oil must be equivalent to mobile DTE-24 through DTE-26 depending on ambient operating temperature.

WEEKLY MAINTENANCE

During the weekly check, the front end cap (TE26234G) and grout/water swivel (TE26823G40) must be removed to check the chuck. Pull the shank from the housing. Remove the thrust washer (TE30835SK), chuck (TE357) and thrust block (TE35161). Check for burning of the splines indicating lack of lubrication. The thrust blocks (TE35161) must be checked for cracks and deformation at the shank spline contact surface. Replace if worn more than 1/16”(2mm) into face. Charge pressure of the accumulator must also be checked weekly. Excessive cab vibration and/or hose jumping and overheating of the hydraulic oil indicates a blown or uncharged accumulator. The high pressure accumulator should be charged between 800 to 950 psi using nitrogen gas. The low pressure accumulator requires 95 to 125 psi charge pressure depending on the system back pressure.

Caution: Remember that disassembly beyond the removal of the chuck end cap or removal of the rotation motor should be done in a clean, dust free area. It is essential that no dirt particles enter the internal part of the drill and especially in the hydraulic fluid.

MONTHLY MAINTENANCE

With the shank removed as above, remove the 4 bolts retaining the front retaining plates (TE25557) to the rotation housing. The front plate (RD25281) is then removed. Check the pinion thrust bearing (RB24338) for wear and breakage. Replace if necessary.

MONTHLY MAINTENANCE cont'd

Push the chuck driver and pinion gear sideways to check bearing wear, if motion is greater than 1/32”(1mm) it requires replacement of the chuck driver and pinion bearings. Check the inner bearings as above.

Every six months or 1,000 percussion hours, the drill must be inspected for hammer and bearing seal wear. **Maintenance of hammer, bearings, accumulators, valve assembly or stroke control must be performed in a clean sheltered area.**

YEARLY INSPECTION AND OR COMPLETE REBUILD

Send to TEI Factory or Authorized TEI Distributor

TE260 Recommended Spare Parts		
PART NUMBER	DESCRIPTION	QTY
TE26778	COMPLETE SEAL KIT	1
TE30706SK	GROUT/WATER SEAL	8
TE30350	DIAPHRAGM	2
1050094	VALVE	1
TE55183SX	BOLT, GROUT SWIVEL	2
TE35161	THRUST BLOCK	1
TE357	CHUCK	1
TE30835SK	THRUST WASHER	1
TE3549----	SHANK, SPECIFY THREAD	1
ST16204	BUSHING, STEEL	2
SB48528	BEARING, BRONZE	1
RB24338	BEARING, ROLLER	2

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Structure:	Smooth/Tacky	cSt @ 100°C:	33
Drop Pt. °F, min:	None (non-melt)	Color Visual	Dark Green

TE260 TROUBLESHOOTING

PROBLEM	PROBABLE CAUSES	REMEDY
A. Drilling rate falls off quickly, supply hoses pulsate excessively, hoses heat up, drill vibrates excessively	High pressure accumulator has lost pressure	Recharge or replace high pressure accumulator diaphragm or fill valve
B. Drill bounces and vibrates excessively	Too little feed pressure	Adjust feed compensator relief valve
	High pressure accumulator has lost pressure	Recharge or replace high pressure accumulator diaphragm or fill valve
C. Rotation speed rapidly drops or rotation fails to work	Hydraulic lines blocked	Check hoses and fittings for leaks, replace
	Failure of rotation motor or drill rotation assembly	Check rotation motor and rotation assembly; replace worn parts
	Broken shank	Replace shank; check related parts for damage
	Lose of pressure due to leakage	Check hoses and fittings for leaks; replace
D. Loss of blowing air	Plugged drill bit	Detach bit from steel and remove obstruction;
	Air line to drill has been interrupted	 WARNING: Do not Hammer on Bit or Steel Check blowing system
E. Drilling rate decreases slowly but steadily	Dull or broken drill bits	Sharpen bits; periodically check for broken or loose carbides
	Accumulators not charged to correct pressures	Check charging pressures; charge if necessary
	Oil temperature too high	Check hydraulic system
	Hydraulic pump not maintaining pressure	Check pump; replace if necessary

TE260 TROUBLESHOOTING

PROBLEM	PROBABLES CAUSES	REMEDY
F. Drilling rate falls off quickly	Hydraulic lines have been torn or crushed	Check hydraulic system
	Severe hydraulic leakage	Check and replace faulty part
	Shank failure	Replace shank and check related parts for damage
G. Hammer oscillation stops immediately or won't start	Hammer inside cylinder is damaged	Inspect cylinder, backhead, and hammer for galling and/or scoring; replace assembly if necessary
	Stuck or broken shuttle valve	Remove tie rod and inspect shuttle valve and valve body
	Stuck or broken hammer (oil will leak from rotation housing and backhead if hammer is broken)	Inspect cylinder, backhead, and hammer for galling and/or scoring; replace assembly if necessary
	Supply or return hose damaged or clogged	Check for drill supply pressure at console
	Hose to rotation collapsed or kinked	Replace
	Coupling failure	Replace
H. Drill will hammer but won't rotate	Rotation motor fouled with foreign material	Clean and inspect; replace worn parts
	Broken shank	Replace
	Worn chuck (splines completely gone)	Replace
	Hydraulic control valve failure	Repair or replace valve
	Rotation gear failure	Replace worn parts

TE260 TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY
I. Drill rotates but won't hammer	Leaky oil hose	Replace
	Broken hammer	Replace complete cylinder and hammer assembly
	Lines are backwards	Check supply and return lines
	Hose to drill collapsed or kinked	Check and replace hose
J. Drill operates inefficiently	Improper feed adjustment	Adjust
	Leaking oil hose	Replace
	Worn bit	Sharpen bit; check for loose or broken carbides
	Hydraulic system out of adjustment	Check pump pressure and flow
	Poor hole cleaning	Check bit and steel for plugged air passage
		 WARNING: DO NOT HAMMER ON BIT OR STEEL
	Hole misalignment (bent drill rod)	Align feed properly
	Low drill pressure	Set high pressure compensator to 2500 psi
	Low feed pressure	Adjust pressure
	Broken shank or drill rod	Replace broken parts
	Thrust collar broken	Replace thrust collar. [check for 1/2"-1" (13-25mm) exposure of shank guiding diameter beyond front seal with shank pushed into drill against the stop.]
	Accumulator not charged correctly	Charge accumulator

TE260 TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY
K. Rapid chuck driver bushing wear	Worn and scored shank	Replace
	Improper feed pressure	Adjust
	Insufficient lubrication	Grease chuck end more frequently
	Contamination in chuck end of drill	Clean parts; check front seal and grout swivel seals, replace
L. Rapid failure of rotation bearings	Bearings dirty	Clean parts; blow all hoses before assembly
	Dull bit	Sharpen bit
	Misapplication	Attempting too large a hole for ground conditions and equipment
M. Oil leak around shank	Shank seals in chuck end worn or ruptured	Remove chuck end cap and chuck end; replace shank seals, ruptured and worn parts
	Hammer seal failure	Replace
N. Oil leak around backhead	O ring on hammer bearing leaking	Replace
	Hammer seal failure	Replace
O. Oil leaking from accumulator charge valve	Accumulator diaphragm ruptured	Replace diaphragm and recharge accumulator
	Valve worn	Replace
P. Hydraulic oil in blowing air	Check hydraulic and air system of rig for leaks	Repair or replace as necessary

TE260 TROUBLESHOOTING

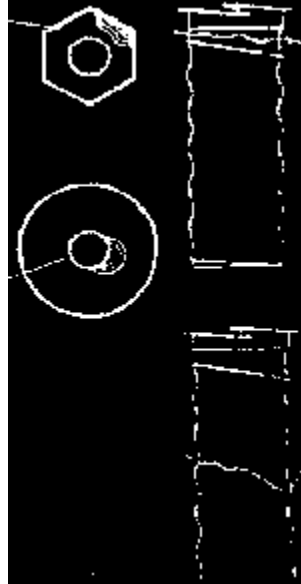
PROBLEM	PROBABLE CAUSE	REMEDY
Q. Supply and return hoses are shaking or bouncing excessively	Accumulators not charged properly	Charge accumulator diaphragm; see chart on page 3-13
	Accumulator diaphragm is ruptured (oil will leak from charging valve when checking pressure)	Change accumulator diaphragm
R. Water leaking from under water swivel housing (water flushing only)	Blown water seals	Replace water seals
	Backhead fitting loose or packing missing	Tighten fitting; replace packing
S. Rotation housing overheating	Insufficient grease in rotation housing	Add grease to rotation housing using zerk fitting
	Shank bearing failed	Check shank for sideways motion and replace bearings if required
	Chuck driver broken or bearings worn	Check and replace worn chuck driver and bearings
T. Rapid chuck wear	Over rotation; over feeding	Reduce rotation and feed load
	Misalignment	Replace worn parts in drill string
	Dull bit	Sharpen bit
	Insufficient lubrication	Grease chuck end more frequently

Common Causes of Failure

Drill Steel

Surface damage caused by hammering or careless use of drill steels

Corrosion originating in bore, Accelerated by high stress conditions



Off-line drilling

Fatigue from surface irregularity, Caused by excessive heat and welding action between coupling and steel

Button Bits

Outer gage wear:

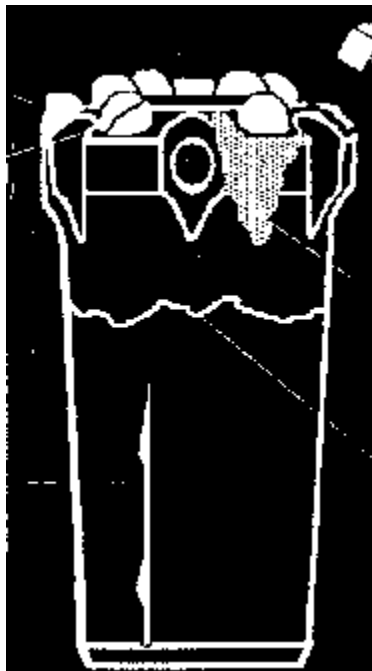
Pinching of bit in hole.
Over rotation, reduce down feed re-sharpen immediately

Fractured/Cracked button:

Improper sharpening

Skirt split/fracture:

Off-line drilling
Worn threads
(Often caused when finishing for bit)
(Check thread on steels and bits)



Flattened carbide top:

Normal wear, re-sharpen immediately

Loose or lost button:

Loose chucking/rattling the string

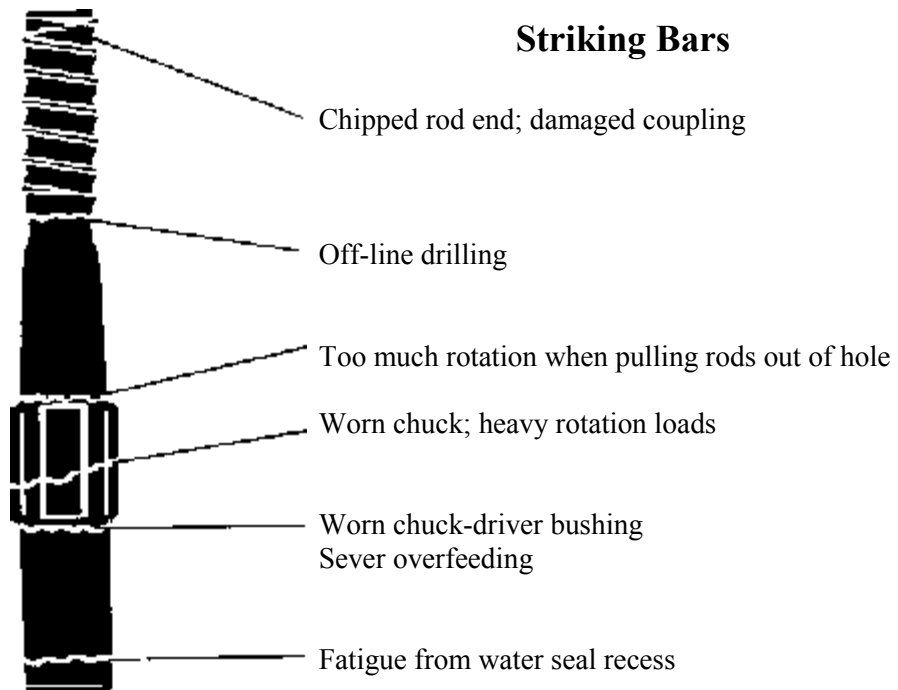
Body deterioration:

Not enough air/water pressure
For proper flushing of bit face

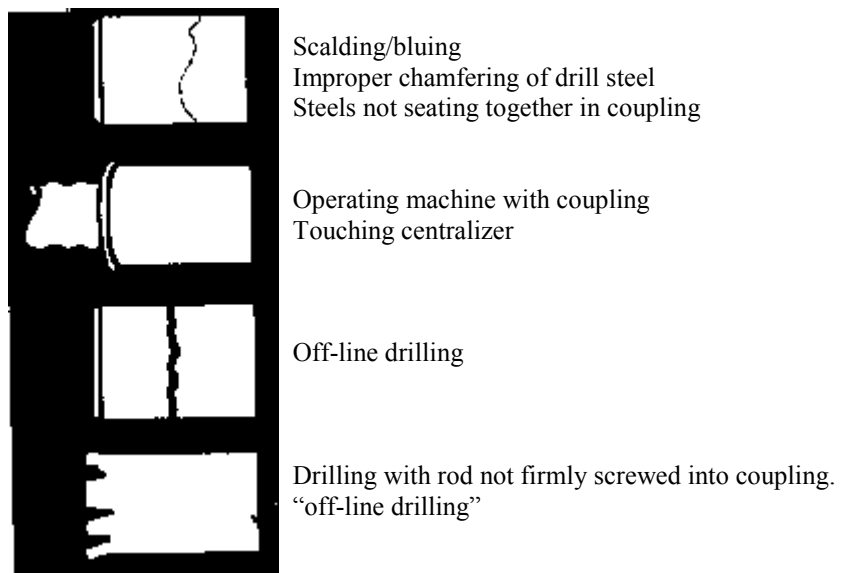
Ring off or broken skirt:

Improper steel chamfer
Off-line drilling

Common Causes of Failure



Couplings

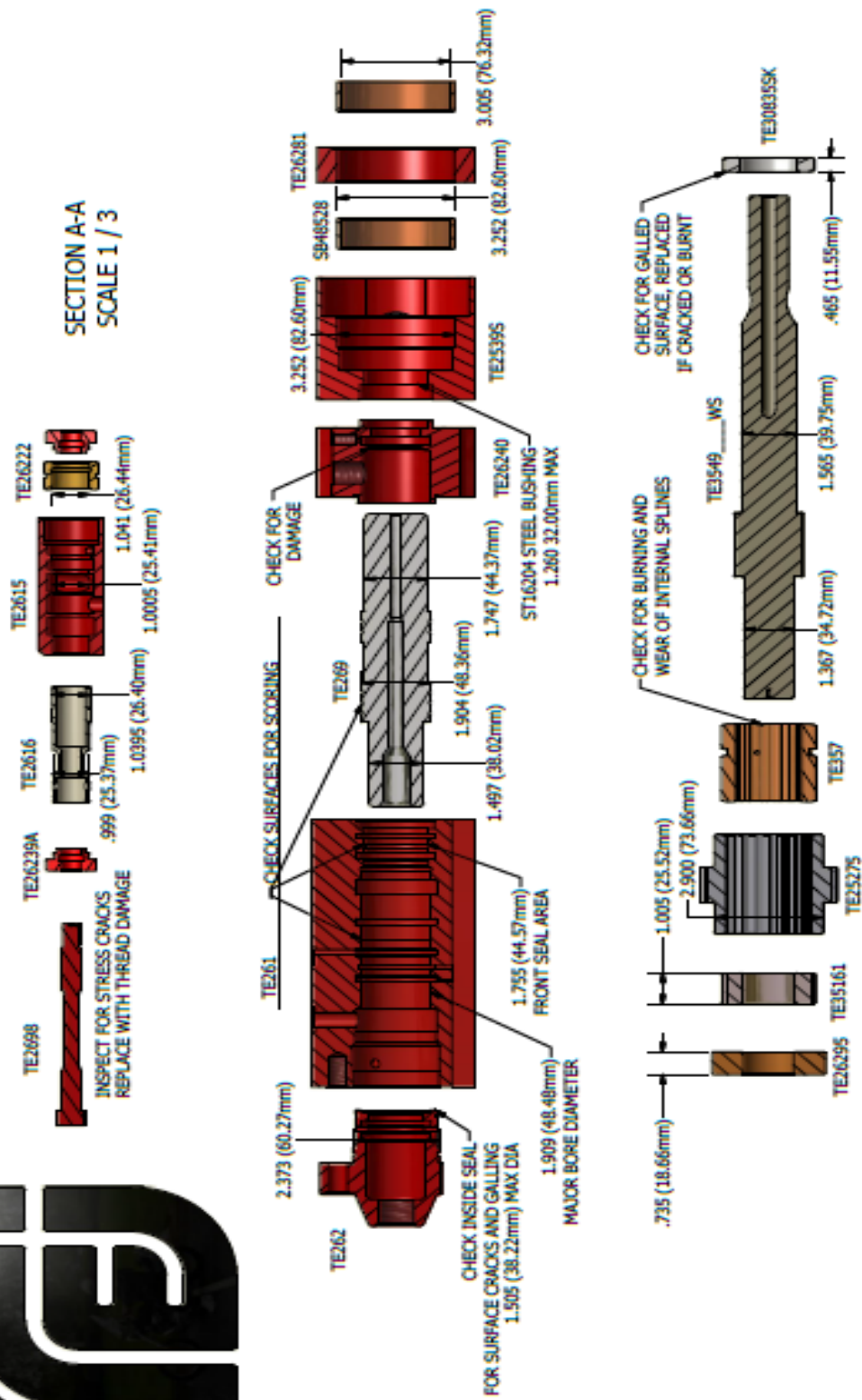


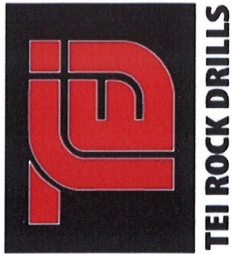
TE260 WEAR TOLERANCES

WEAR LIMITS ARE MAXIMUM,
SOME REDUCTION IN PERFORMANCE CAN
OCCUR BEFORE THESE LIMITS ARE REACHED



SECTION A-A SCALE 1 / 3





PO Box 1309
Montrose, CO 81402
Phone: (970) 249-1515
Fax (970)249-1999
Toll Free 1-800-777-3745
Website: www.teirockdrills.com

ACCUMULATOR CHARGING INSTRUCTIONS

FOR TE260, TE350, AND TE550 SERIES HYDRAULIC DRIFTERS

NORMAL SERVICING PRESSURES:

HIGH PRESSURE ACCUMULATOR 800-900psi (40% OF OPERATING PRESSURE)

LOW PRESSURE ACCUMULATOR 80-100psi (5% OF OPERATING PRESSURE)

1. CLOSE NEEDLE VALVE.
2. ATTACH CHARGING KIT TO NITROGEN BOTTLE.
3. ATTACH ADAPTOR TO ACCUMULATOR VALVE.
OPEN NITROGEN BOTTLE.
4. OPEN NEEDLE VALVE TO 300psi, CHECK FOR LEAKS.
5. OPEN ACCUMULATOR VALVE USING A 3/4" WRENCH.
6. SLOWLY OPEN NEEDLE VALVE TO OBTAIN DESIRED PRESSURE.

NOTE: IF NEEDLE VALVE IS OPENED RAPIDLY, THE RELIEF VALVE WILL OPEN AT 900psi AND NITROGEN WILL BLOW OUT THE BOTTOM OF THE RELIEF VALVE. IF THIS HAPPENS THE RELIEF VALVE NEEDS TO BE RESET.

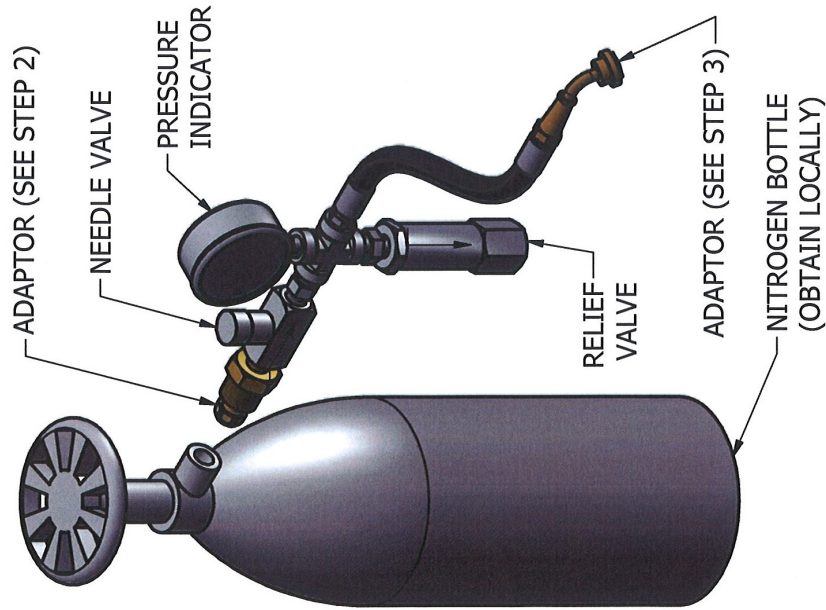
- A) CLOSE THE NEEDLE VALVE.
- B) CLOSE ACCUMULATOR VALVE.
- C) BLEED AND DETACH ADAPTOR FROM ACCUMULATOR VALVE.
- D) GO BACK TO STEP #3.

7. CLOSE ACCUMULATOR VALVE USING 3/4" WRENCH, WHEN THE PRESSURE IS CORRECT.

8. SHUT OFF THE NEEDLE VALVE, BLEED AND REMOVE ADAPTOR FITTING FROM THE ACCUMULATOR.

9. SHUT OFF NITROGEN BOTTLE, BLEED AND REMOVE THE CHARGING KIT.

10. REPLACE NITROGEN BOTTLE SAFETY CAP AND STORE THE BOTTLE PROPERLY.

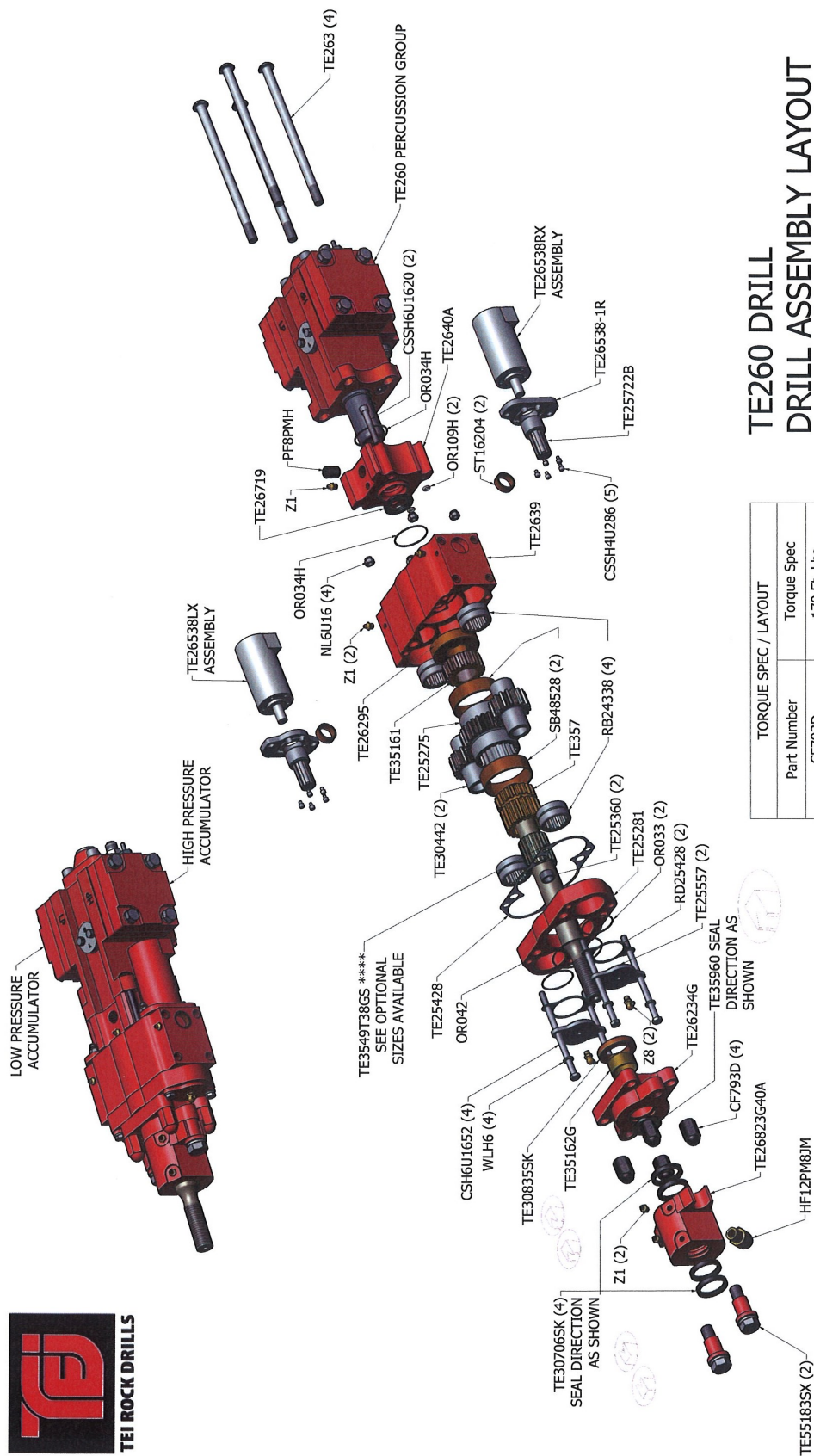


CHARGING KIT

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JB779X Nitrogen Charge Kit	4-7

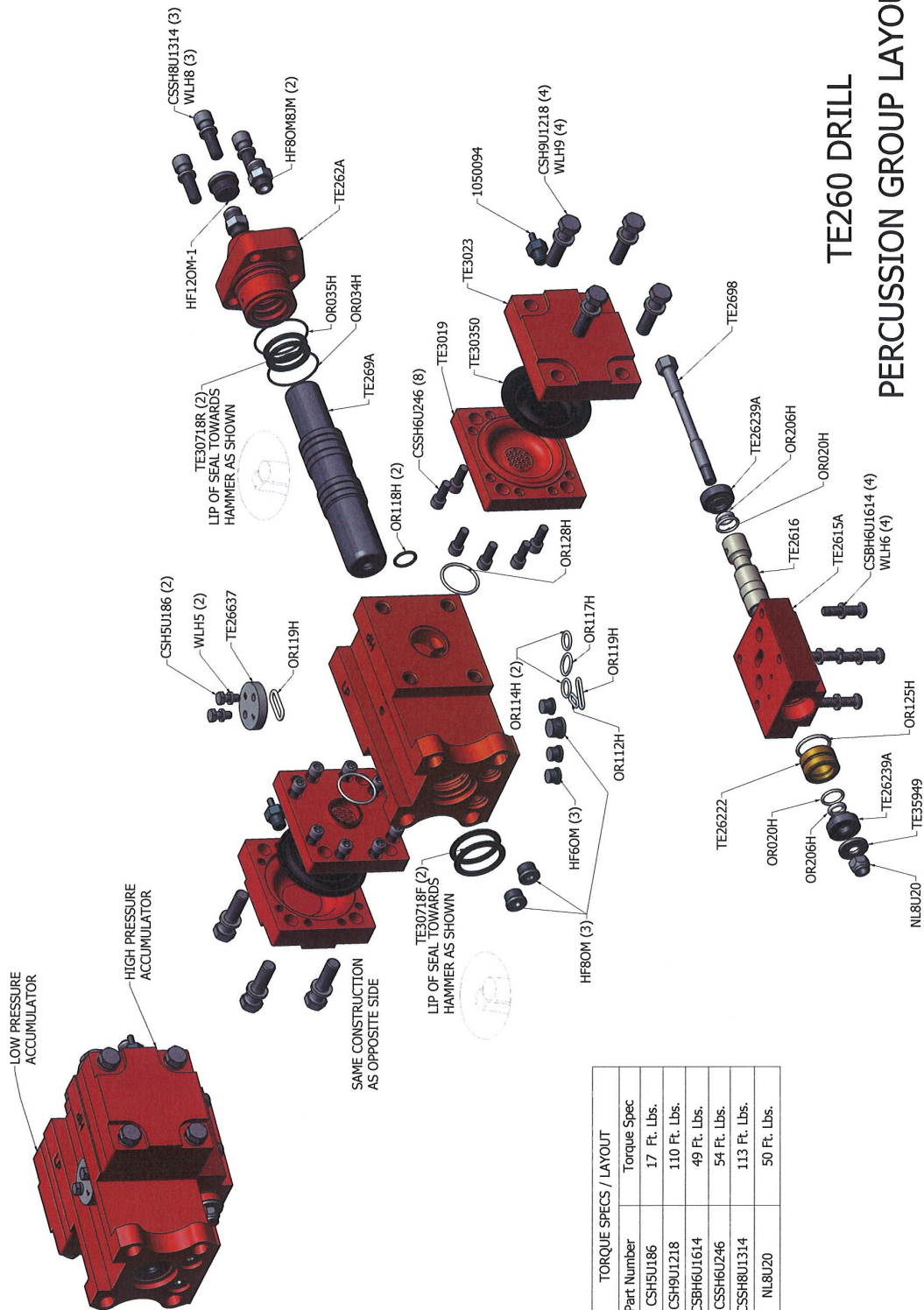
BEFORE ATTEMPTING MAINTENANCE OR REPAIR OF ANY COMPONENTS OF THIS MACHINE, READ THE WARNINGS AND CAUTIONS LISTED IN SECTION 2



TE260 DRILL DRILL ASSEMBLY LAYOUT

UPDATED:
4-11-12: TE2639 WAS TE2539, HF12PM8JM WAS HP12PM8JM90

TORQUE SPEC. / LAYOUT	
Part Number	Torque Spec
CF793D	170 Ft. Lbs.
C55H4U286	14 Ft. Lbs.
C55H6U1620	49 Ft. Lbs.
NLGU16	30 Ft. Lbs.
TEEE19C5C	110 Ft. Lbs.



UPDATED (CSBH6U1614): 3-1-11

TEI ROCK DRILLS ENGINEERING, MONTROSE, CO.
PHONE (970)249-1515 FAX (970)249-1999

TE260 Hydraulic Rock Drill
Bill of Material Listed by Part Number

(*) Items for Grout Swivel Option

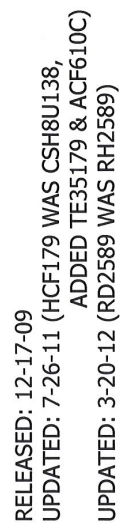
Qty.	Part Number	Description
2	1050094	VALVE HIGH PRESSURE
4	CF793D	NUT, ACORN
4	CSBH6U1614	CAP SCREW, BUTTON SOCKET HEAD
2	CSH5U186	CAP SCREW, HEX HEAD
4	CSH6U1652	CAP SCREW, HEX HEAD
8	CSH9U1218	CAP SCREW, HEX HEAD
2	CSSH6U1620	CAP SCREW, SOCKET HEAD
16	CSSH6U246	CAP SCREW, SOCKET HEAD
3	CSSH8U1314	CAP SCREW, SOCKET HEAD
1	HF4JF4H	FITTING, HYDRAULIC
1	HF4JF4H90	FITTING, HYDRAULIC
1	HF4JF4JM90	FITTING, HYDRAULIC
2	HF6JF6H	FITTING, HYDRAULIC
2	HF6JF6H90	FITTING, HYDRAULIC
3	HF6OM	FITTING, HYDRAULIC
2	HF8JF6JM	FITTING, HYDRAULIC
2	HF8JM8JF8JM	FITTING, HYDRAULIC
3	HF8OM	FITTING, HYDRAULIC
2	HF8OM8JM	FITTING, HYDRAULIC
1	HF12OM-1	FITTING, HYDRAULIC, MODIFIED
1	HF12PM8JM	FITTING, HYDRAULIC
4	NL6U16	NUT, SELF LOCKING
1	NL8U20	NUT, SELF LOCKING
2	OR020H	O-RING
2	OR033	O-RING
2	OR034H	O-RING
2	OR035H	O-RING
1	OR042	O-RING
2	OR109H	O-RING
1	OR112H	O-RING
2	OR114H	O-RING
1	OR117H	O-RING
2	OR118H	O-RING
2	OR119H	O-RING
1	OR125H	O-RING
2	OR128H	O-RING
2	OR206H	O-RING
1	PF8PMH	FITTING, PIPE
4	RB24338	BEARING, ROLLER - PINION
4	RD25428	GASKET, HIGH TEMP
2	ST16204	BUSHING
2	SB48528	BUSHING

TE260 Parts Listing Cont'd

1	TE25275	CHUCK DRIVER
1	TE25281	PLATE, FRONT
2	TE25360	BUSHING, DOWEL
1	TE2639	HOUSING, GEAR
1	TE25428	GASKET, HIGH TEMP
2	TE25557	PLATE, COVER
2	TE25722B	ADAPTER, SHAFT
1	TE261A	CYLINDER, HAMMER
1	TE2615A	VALVE BODY
1	TE2616	VALVE, SHUTTLE
1	TE262A	BACKHEAD
1	TE26222	BUSHING
1	TE26234G	END CAP
2	TE26239A	CAP, VALVE
1	TE26295	BLOCK, ANVIL
4	TE263	SIDE ROD
1	TE2640A	TRANSITION BLOCK
1	TE26538LX	ASSEMBLY, MOTOR, HYDRAULIC, LEFT SIDE
1	TE26538RX	ASSEMBLY, MOTOR, HYDRAULIC, RIGHT SIDE
1	TE26637	SELECTOR, STROKE
1	TE26719	SEAL, O-RING, LOADED
1	TE26823G40A	GROUT SWIVEL
1	TE269A	HAMMER
1	TE2698	TIE BOLT
2	TE3019	BASE, ACCUMULATOR
2	TE3023	COVER, ACCUMULATOR
2	TE30350	DIAPHRAGM
2	TE30442	GEAR, PINION
4	TE30706SK	SEAL, GROUT/WATER SWIVEL, METRIC
2	TE30718F	SEAL, FRONT HAMMER
2	TE30718R	SEAL, REAR HAMMER
1	TE30835SK	PLATE, THRUST - 40MM DIAMETER
1	TE35161	BLOCK, THRUST
1	TE35162G	BEARING, SLEEVE, BRONZE
1	TE357	CHUCK
1	TE35960	SEAL
1	TE35949	WASHER, BELLEVILLE
2	TE55183SX	BOLT, GUIDE
2	WLH5	WASHER, NORD LOCK
8	WLH6	WASHER, NORD LOCK
3	WLH8	WASHER, NORD LOCK
8	WLH9	WASHER, NORD LOCK
5	Z1	ZERK, GREASE, 1/8" NPT STRAIGHT
2	Z8	ZERK, GREASE, 1/8" NPT 90 DEG

TE260 Shank Listing

TE3549R1GS	Grout Swivel Shank, 1.0 Rope	40mm
TE3549R32GS	Grout Swivel Shank, 1.25 Rope	40mm
TE3549R38GS	Grout Swivel Shank, 1.50 Rope	40mm
TE3549T38GS	Grout Swivel Shank, T-38	40mm
TE354932GS	Grout Swivel Shank, Williams 32	40mm
TE354938GS	Grout Swivel Shank, Williams 38	40mm
TE3549T30GS	Grout Swivel Shank, Titan 30	40mm
TE3549T40GS	Grout Swivel Shank, Titan 40	40mm





JB779X ACCUMULATOR CHARGING KIT

RELEASED: 2-21-11
REVISED: 1/13/2015 ECR#10853



LIMITED WARRANTY FOR TEI ROCK DRILLS

TEI ROCK DRILLS' limited warranty is only for products that are manufactured by TEI and only for operational failure caused by defective materials or workmanship. Said limited warranty is for normal and customary use within (12) twelve months from the date of invoice.

TEI's limited warranty obligation is limited only to a replacement of any and all parts for any product that upon inspection by TEI shows that it was defective. This limited warranty excludes all transportation costs from any TEI customer, and any and all other ancillary costs including but not limited to removal or installation of the parts or materials and any other costs directly or indirectly related to the operational failure caused by defective materials or workmanship.

TEI ROCK DRILLS' limited warranty does not include liability for any loss of time, manufacturing cost, labor, material, loss of profits, personal injury, consequential damages because of defective materials or workmanship. TEI ROCK DRILLS' limited warranty does not cover other manufacturers equipment.

If you have to make a claim within the terms of TEI ROCK DRILLS' Limited warranty, you must **write to your TEI ROCK DRILLS supplier within 15 (fifteen) days from the date of defect or fault.** You are to give TEI ROCK DRILLS' staff every facility for inspecting and remedying the claimed defect or fault.

This limited warranty shall not extend to any other damages the customer may experience, including but not limited to any torts or product liability claims.

Prior to the return of any defective materials, written permission must be secured from authorized TEI personnel and, upon return, must include a complete written explanation of the claimed defects and the circumstances relating to the operational failure.

ONLY PRODUCTS MANUFACTURED BY TEI ARE WARRANTED FOR THE LIMITED PURPOSES AS SET FORWARD HEREIN AND ARE LIMITED TO A FITNESS FOR A PARTICULAR PURPOSE FOR THE NORMAL AND CUSTOMARY USE OF SAID PRODUCT.

Effective March 1, 2005

Previous warranties no longer apply

DISCLAIMER

TEI ROCK DRILLS does not accept responsibility for any misprints in this booklet. Prices or numbers may change without written notice to anyone. This manual is not intended to create a contract.