TEI MAST PCFH30 ATTACHMENT

Weight: 6,800 lbs

Total Overall Length:

3 Part Assembly listed as follows shown for informational purposes.

Part 1: PCFH30ED Mast (S/N PCFH30B031206) – TEI Mast with Beretta Hydraulic Double Clamp and Breaker, note model PCFH30 is = to model PCFH25 in push - pull specs.

Part 2: Drill Head - Eurodrill HD 4008 SS#400059 percussion drill head or rotary drill head

Part 3: Rototilt RT80-HS7024VASSY (S/N 080) Mount to Excavator S/N 080/



TEI 30 PCFH Hydraulic Flows and Pressures

Optimal Hydraulic Pressure for drill head - 3000 PSI

Optimal Hydraulic Flow for Rotation - 40 GPM

Optimal Hydraulic Flow for

Percussion - 22.5 GPM

62.5 GPM Total for rotation and percussion

PARTS AND SERVICE MANUAL

Model: PDFH30ED SN#PCFH30B031206 Weight 6850 lb - 32'6" long, 6'6" wide, 5'3" tall



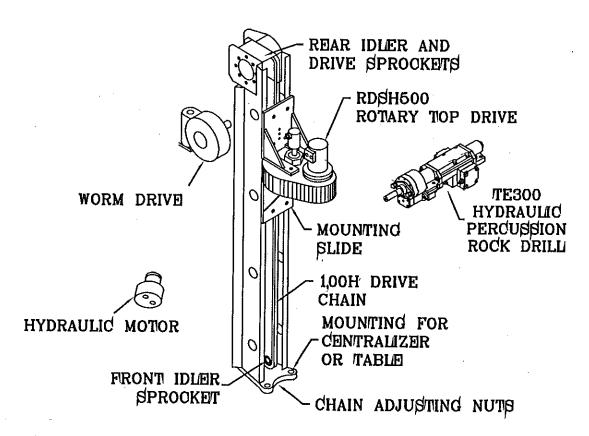


TEI ROCK DRILLS MONTROSE, COLORADO

SERVICE AND MAINTENANCE MANUAL PCFH CHAIN FEEDS

The PCFH series geared chain feeds use a worm gear drive to transmit rotary power from a hydraulic motor to a mounting slide. The mounting slide supports either a rotary top drive or a percussion drill. Thus this one feed design can be used for many different applications.

Operation of the feed is simple. As shown below, a single reduction worm drive is used to mount a hydraulic motor for power. The output shaft has a sprocket drive for the chain. The chain is looped with a mounting slide attached at any point. The mounting slide can be adapted for many different configurations.



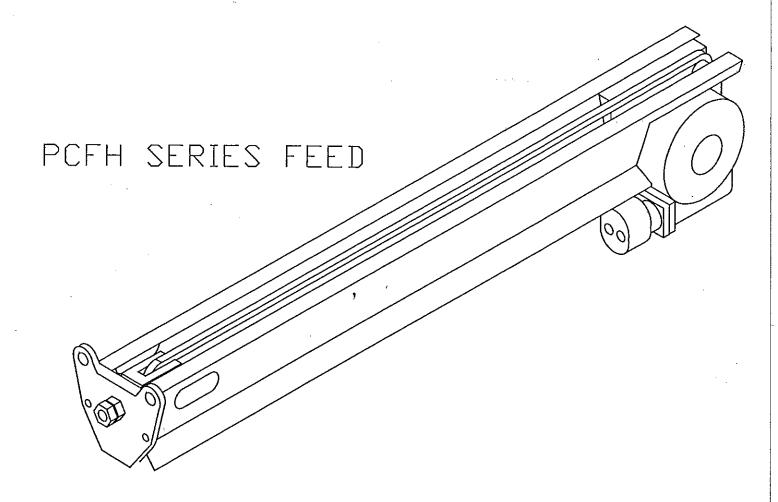
PCFH STYLE FEED SHOWING GENERAL LAYOUT AND SOME OF THE OPTIONS

The drilling feed force is proportional to pressure up to a maximum of 12,000 lbs (5455 kg-f). Retraction force out of the hole is the same as above. Feed force is controlled using pressure. The worm drive cannot be back driven and the feed will hold any load without the use of brakes.

Any drill up to 1000 lbm (454 kg) can be mounted. Contact TEI for specific drill mounting requirements. Rotary drilling of up to 12" (15.2 cm) diameter holes is possible. Percussion drilling of up to 5" (12.7 cm) diameter holes is possible.

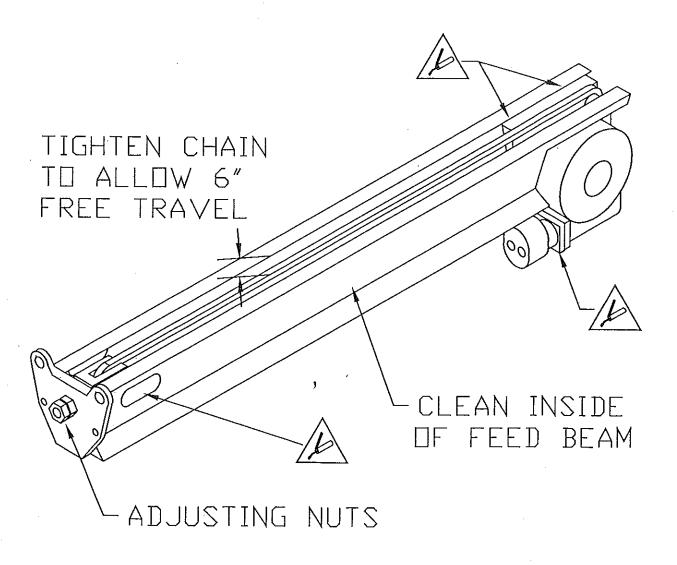
PCFH feeds are designated by length and application. PCFH12 designates a feed having 13 feet (4.0m) of total drill travel. This allows the use of up to 12 foot (3.7m) drill steel during steel change. The total length of the feed is 4' (1.2m) longer than 12' or a total length of 16' (4.9m).

The above feeds are available in drilling steel change lengths from 4' (1.2m) to 20' (6.2m) in 2' (.6m) increments. The length designation is PCFH4 to PCFH20.



DAILY MAINTENANCE

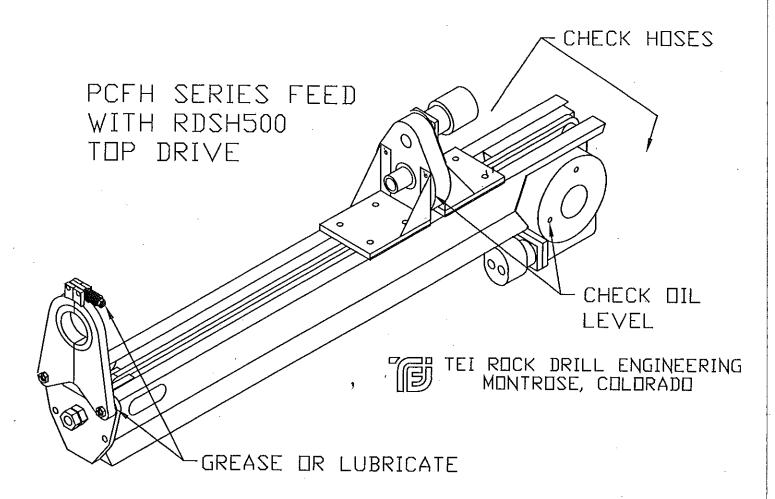
Clean and inspect feed. Check the drive chain tension by moving the drill forward or backward on the feed to either end. With the drill pressure off (wobble the control lever to release all pressure), the chain should be lightly tensioned (be able to lift the chain about 6" (15cm)). If adjustment is required, use a wrench on the adjusting clevis to achieve the recommended chain tension. Remove rocks from inside the feed structure. Check dust shields at centralizer. Grease front and rear idler sprockets. Pump grease until excess flows out around sprocket. Keeping the internal feed beam clean extends slide and chain life. Use a rubber shield to deflect drilling chips and debris from the feed mast and chain.



DAILY MAINTENANCE DIAGRAM

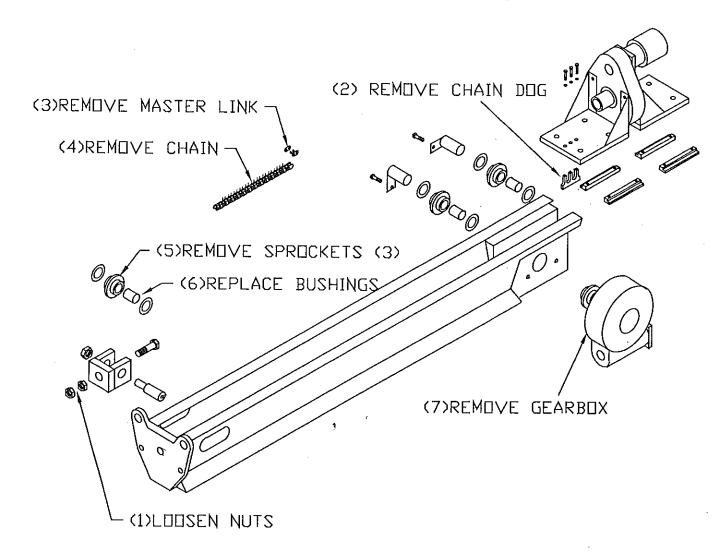
WEEKLY MAINTENANCE

In addition to the daily routine, grease the front centralizer arms (when used). Check pneumatic and hydraulic fittings for leaks and tighten as necessary.

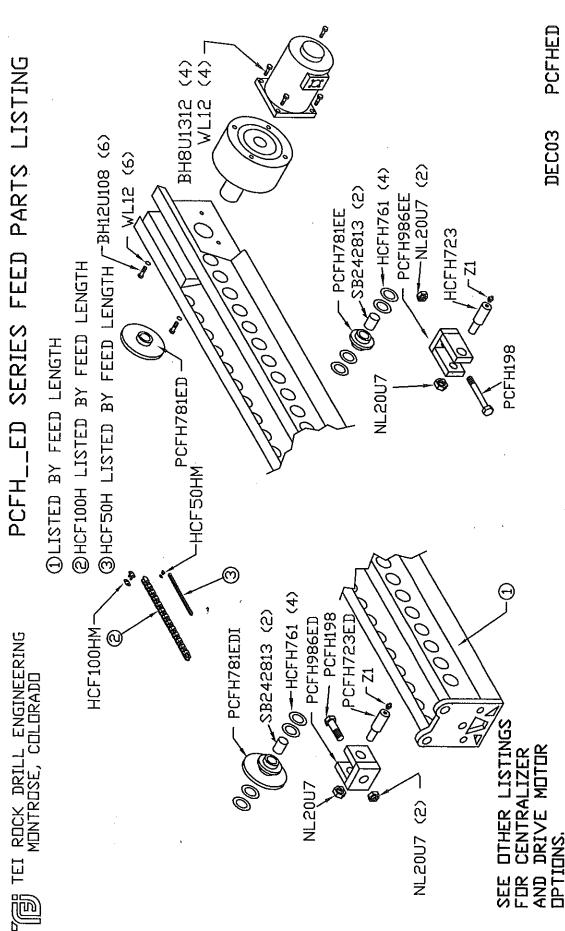


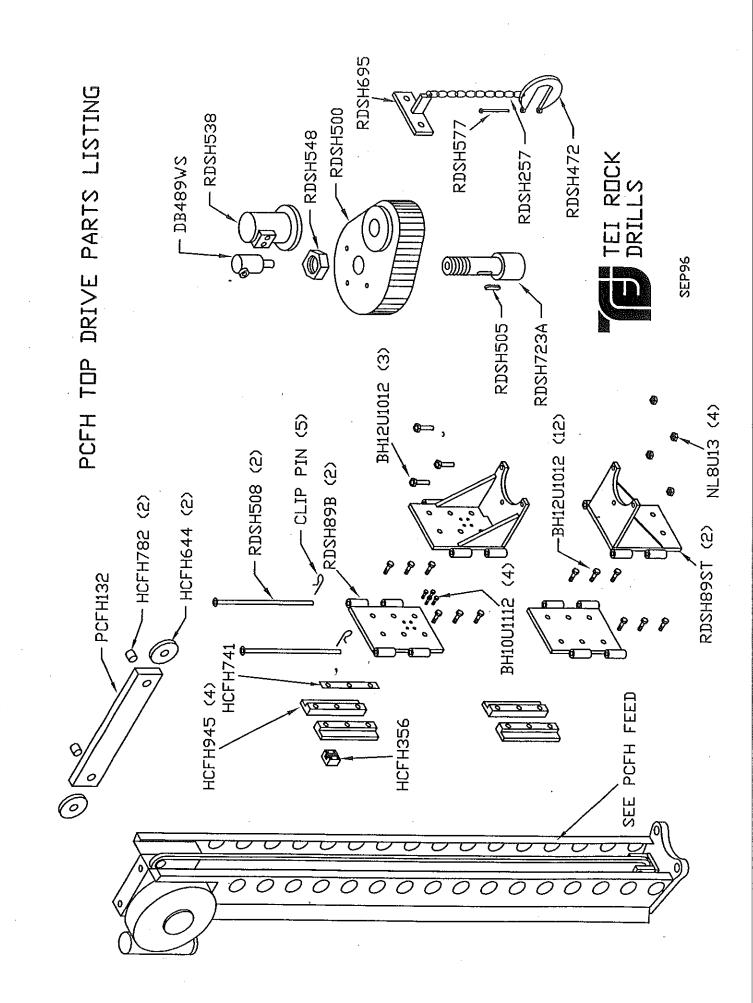
REPLACING/REPAIRING DRIVE CHAIN

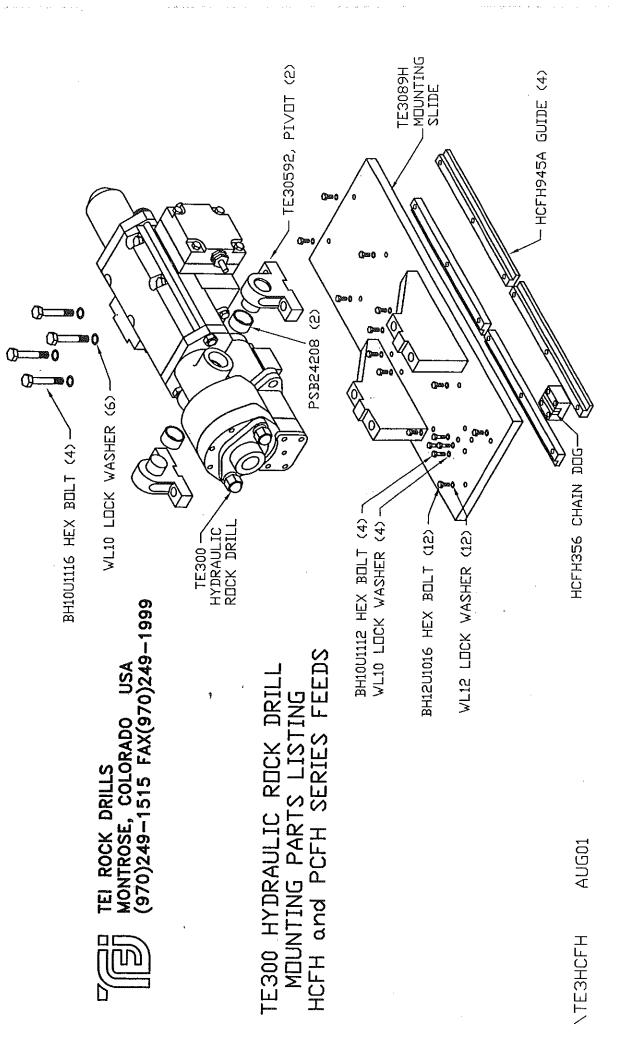
To service the drive chain, clean out the feed frame and remove the drill steel. Move the drill fully forward and shut down the hydraulic system. Neutralize all system pressure by wobbling the control levers. Loosen the chain with the adjusting nuts. Remove the chain dog by loosening the three attaching bolts. Locate the master link in the drive chain. If the master link is not accessible, start the drive system and move the chain to where the master link can be removed. Remove the master link and separate the drive chain. Feed the drive chain out of the drive and idler sprockets.



The front and rear idler sprockets can now be removed for service or replacement. The bushing in the idler sprockets can then be pressed out and replaced with a new bushing. Reassemble in the reverse order.

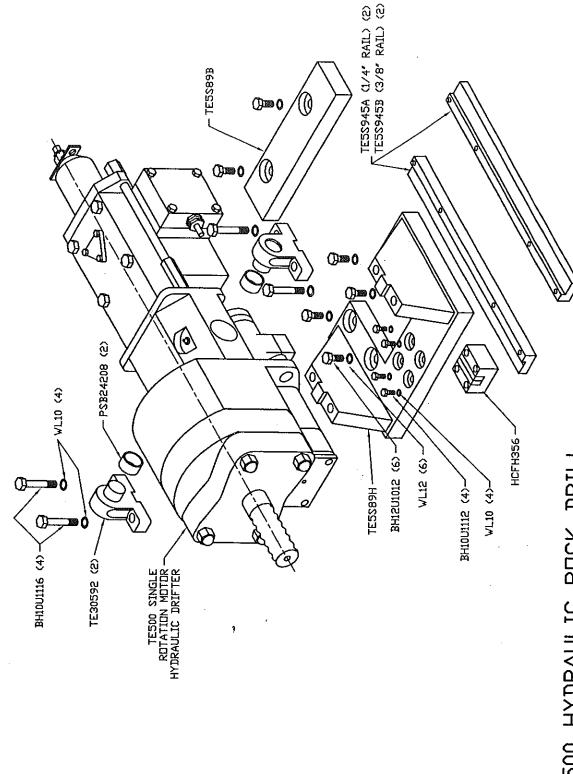






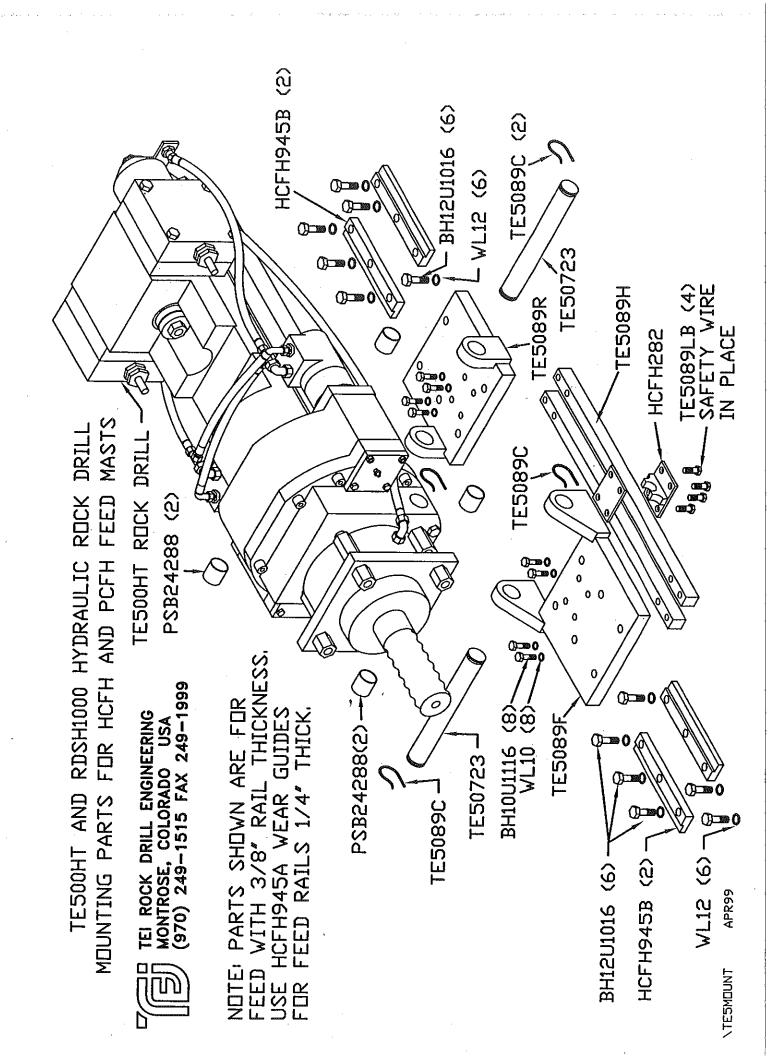
PHONE (970)249-1515 FAX (970)249-1999 TEI ROCK DRILL ENGINEERING





TES00 HYDRAULIC ROCK DRILL HCFH-PCFH MOUNTING PARTS LISTING

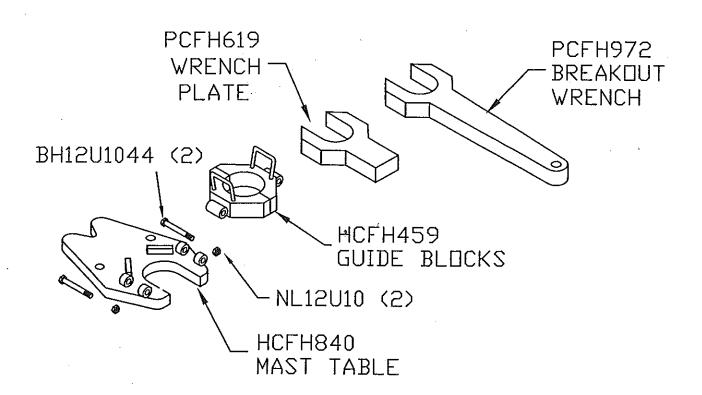
VTESS89H DEC99





TEI ROCK DRILL ENGINEERING MONTROSE, COLORADO USA (970) 249-1515 FAX 249-1999

DRILL TABLE EQUIPMENT FOR PCFH AND HCFH SERIES FEEDS

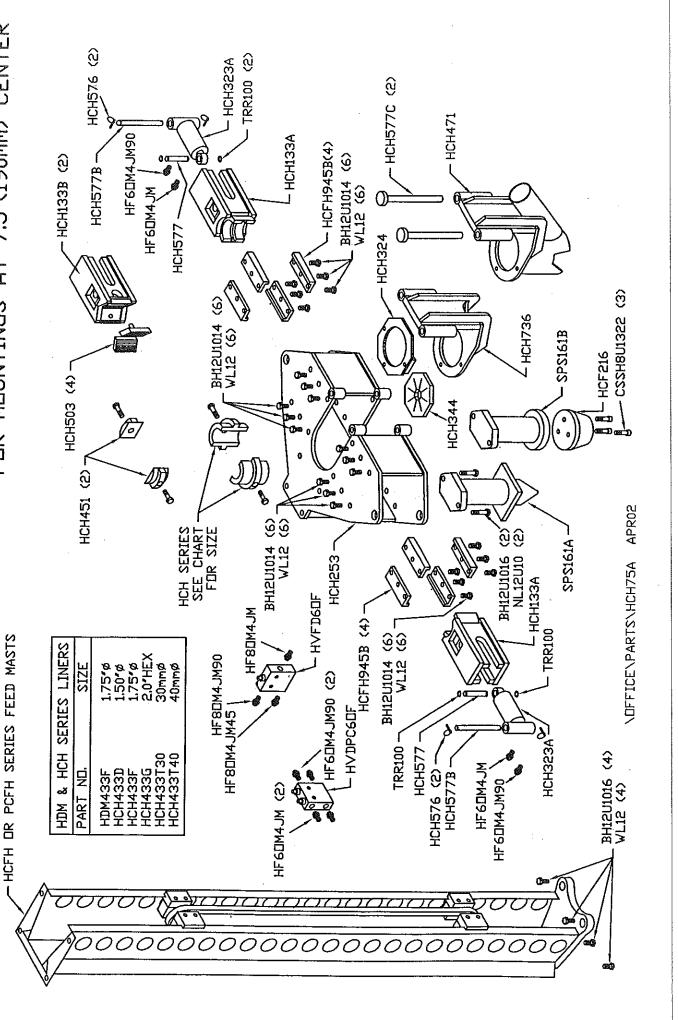


NOTE: SPECIFY THREAD TYPE AND SIZE, PIPE DIAMETER, AND WRENCH FLAT DIMENSIONS WHEN ORDERING

/PCFH840

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HCHC75A HYDRAULIC CENTRALIZER AND SPS EXTENDED STINGER MOUNT FOR MOUNTINGS AT 7.5 (190 mm) CENTER

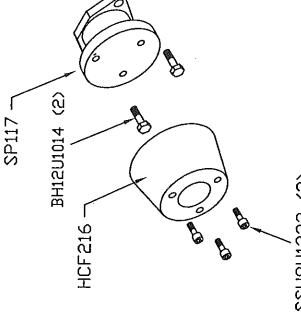




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STINGER POINTS FOR USE WITH PCF AND HCF FEED BEAMS

APRIL01



CSSH8U1322 (3)

SPR STINGER PDINT FDR SURFACE DR UNDERGRDUND APPLICATIONS

SPU SPU BH12U1014 (2)

SPU STINGER PDINT FOR UNDERGROUND APPLICATIONS

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 three months from the date of purchase by TEI's customer or three months from the date the TEI product is first placed into service, which ever is first.

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. Said replacement shall be limited to the lowest round trip transportation costs from the TEI's customer location to Montrose, Colorado, United States of America, and return. This limited warranty excludes all transportation costs from any TEI customers, 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, consequential damages because of defective materials or workmanship.

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.

DISCLAIMER

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