

CONTINENTAL MODEL 2B
PIPE AND TUBE CUT-OFF MACHINE
SERIAL NO. _____
INSTRUCTION AND PARTS MANUAL

**CONTINENTAL MODEL 2B
PIPE AND TUBE CUT-OFF MACHINE
INSTRUCTION AND PARTS MANUAL**

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SECTION A. SAFETY INSTRUCTIONS

1. Read and understand this manual before operating this machine.
2. NEVER operate this machine with any guard or cover open or removed.
3. This machine must be bolted to a workbench which is attached to the floor or wall.
4. NEVER reach into the work area of the machine while the cuttershaft is turning.
5. This machine will cut a wide range of tubing diameters and lengths. Each customer's layout, method of supporting the tubing, and material flow into and out of the machine, is different. As such, it is impossible for the manufacturer to provide a universal guard to keep operator's hands out of the machine. It is the customer's responsibility to:
 - provide a method to catch and collect cut pieces.
 - provide guards to prevent the operator from accidentally placing hands in the cutting area.
 - install guards along the tube being cut to prevent injury.
6. Movement of various parts may create pinch points. Operator must avoid these points.
7. NEVER wear loose clothing or jewelry that could become entangled in the machine or workpiece.
8. When changing a cut-off blade, turn off power at the customer supplied disconnect switch.
9. Be certain to remove wrench after replacing cut-off blade. NEVER leave wrench hanging from the cuttershaft.
10. NEVER push pipe or tube into the cutting area from the front of the machine. A turning cut-off blade may catch and throw it possibly causing personnel injury and equipment damage. ALWAYS slide the tube into the cutting area from the cut-off blade side of the machine.
11. ALWAYS feed pipe or tube into the cutting area from the cut-off blade side of the machine. Feeding material from the opposite side can result in the operator's hand being pinched between the pipe or tube and the underside of the Cutter Arm as the cut is being made.
12. NEVER attempt to cut material that is bent, twisted, or otherwise distorted.
13. The cutting operation may produce sharp edges and considerable heat. NEVER attempt to catch work pieces as they are cut. Take precautions when handling cut pieces.

SECTION B. INSTALLATION

SET-UP

1. Unpack the Model 2B and all parts. Check against parts list to make certain all parts are received.
2. Mount Model 2B on a sturdy work surface and bolt in place. NOTE: The worktable should be securely bolted to the floor, or a wall, to prevent overturning when cuts are made.
3. Slide #5584 Handle into the #6220 Fulcrum Lever and tighten set screws to lock it in place.

CUTTER BLOCKS

Cutter blocks are available for tube sizes within the range of the Model 2B (see current Continental Catalog).

Select the appropriate cutter block for the tube size to be cut, and bolt it to the cutter block bracket on the machine. Note that slots are provided on the cutter block base for front-to-back adjustment. Locate the cutter blocks so that the cut-off blade contacts the top of the tube to be cut. (This point will change for different tube sizes). NOTE: If the cutter block engages the tube substantially in front of, or behind, the top of the tube, it may throw the tube. This can cause personnel injury or equipment damage.

The cutter block must be set perpendicular to the cut-off blade or "threading" will occur. Threading is a condition where the tube moves sideways as the cut-off blade contacts it. To correct threading, loosen the front cutter block bolt slightly, then tap the cutter block to move it in the opposite direction of the threading. (If tube is threading to the right move the front of the cutter block to the left, and vice versa); .then, re-tighten the cutter block bolt. Repeat until threading is eliminated.

TUBE SUPPORTS

If a Model #425 or #426 Tube Support Table is to be used with this machine, it should be assembled and installed according to the instructions provided with it.

If pipe supports are to be used, they must be carefully aligned with the machine, and bolted to the floor. First, set the supports in place. They should be spaced so that the tube to be cut does not sag between the supports.

NOTE: If short pieces are to be cut, place one of the supports close to the machine. Place a length of tube or barstock in the supports and the cutter block rolls. Adjust the supports so that the tube is touching the entire length of both cutter block rolls (front and back), and all pipe support rolls.

At this point, the pipe supports should be bolted to the floor. Carefully mark the center of each hole in the pipe support bases. Then, drill and bolt to floor using 3/8" lag bolts with anchors.

Rotate the Pipe Support Heads so they are perpendicular to the tube (rolls will be aligned with tube). If the heads are not perpendicular to the tube, threading of the tube can result, particularly if polyurethane coated pipe support rolls are used.

Recheck alignment of pipe supports with the cutter block rolls. Misalignment may result

in cut-off blade breakage, tube threading and poor cuts.

LENGTH GAUGE

The Model #442 Length Gauge is available as an accessory for the Model 2B. This Length Gauge is designed to provide a length stop for the work, then automatically move out of the way as the cut is made.

Assemble the Length Gauge and slide it onto the #5583 Pivot Bar. NOTE: The #5354 Gauge Pin may be set up with either the round pipe stop or the blade shaped end facing the work. To adjust the Length Gauge for a particular size, loosen the back of the #5933 Gauge Support so that the pipe stop or blade catches the edge of the tube and clears the tube just AFTER the cut-off blade engages the work. This prevents the work from moving as the Length Gauge clears the work. NOTE: If the Length Gauge does not clear the work soon enough, binding will occur. This can cause damage to the cut-off blade.

SECTION C. OPERATION

CAUTION: BEFORE ATTEMPTING TO OPERATE THE MODEL 2B, READ AND UNDERSTAND THIS SECTION COMPLETELY.

Follow the steps below to set-up and operate the Model 2B for the various size pipe and tubes to be cut.

1. Install the appropriate cut-off blade for the tube to be cut. See Figure 1 and 2, or a current Continental Catalog for a description of cut-off blade models. First, remove the #5947 Wheel Guard. Then, remove the #5723 Cuttershaft Nut and #5326 Clamp Collar and place the cut-off blade on the Cuttershaft. Replace the Clamp Collar and Nut and tighten. Seat the nut securely by tapping the end of the wrench with a mallet.
2. Select the appropriate Cutter Block for the tubing size to be cut. See the current Continental Catalog for a list of Cutter Blocks.
3. Mount the Cutter Block on the machine as described under INSTALLATION.
4. Place a length of the tube to be cut in the Cutter Block Rolls and the Pipe Support or Support Table Rolls. Adjust the Pipe Supports or Support Table vertically to align with the Cutter Block Rolls. It may be necessary at this point to slide the Cutter Block forward or backward slightly to achieve this alignment. The Cutter Block must remain aligned with the cut-off blade.
5. Set the depth of the cut-off stroke by adjusting the Bottom Stop Nut on the #6225 Depth Gauge Screw. The upper nut on the Depth Gauge Screw may be adjusted to limit the upward travel of the cut-off blade when cutting small diameter tubing.

NOTE: DO NOT ALLOW THE CUT-OFF BLADE TO CONTACT THE CUTTER BLOCK ROLLS. THIS WILL RESULT IN IMMEDIATE DAMAGE TO THE BLADE AND ROLLS.

6. Place the material to be cut in the machine and run trial cuts. Adjust as required. Although the characteristics of the cutting process will vary significantly with tube size, wall thickness, and particularly material, the following will generally apply:
 - A faster cut will reduce the O.D. burr, and a slower cut will reduce the I.D. burr.
 - Spreading the rolls apart will reduce the O.D. burr; moving them closer together will reduce the I.D. burr.
 - Generally, the best cut is the fastest cut that will produce the desired end conditions. A fast cut produces less heat and less wear on the blade.
 - See the CUT-OFF BLADES NOTES section for additional information concerning adjustment of the cutting process.

CAUTION: NEVER PUSH PIPE OR TUBE INTO THE CUTTING AREA FROM THE FRONT OF THE MACHINE. THE CUT-OFF BLADE CAN CATCH AND THROW THE MATERIAL, CAUSING PERSONAL INJURY AND EQUIPMENT DAMAGE. ALWAYS SLIDE THE MATERIAL INTO THE CUTTING AREA FROM THE CUT-OFF BLADE SIDE OF THE MACHINE.

CAUTION: ALWAYS FEED PIPE OR TUBE INTO THE CUTTING AREA FROM THE CUT-OFF BLADE SIDE OF THE MACHINE. FEEDING MATERIAL FROM THE OPPOSITE SIDE CAN RESULT IN THE OPERATOR'S HAND BEING PINCHED BETWEEN THE PIPE OR TUBE AND COMPONENTS ON THE UNDERSIDE OF THE MOTOR PLATE, AS THE CUT IS BEING MADE.

7. Lock all adjustments so that they do not change during production.

CUT-OFF BLADE NOTES

Continental Cut-Off Blades are available for almost all tube sizes and wall thicknesses. These blades are manufactured from S-7 Tool Steel. They are held to precise tolerances and heat treated to provide a long life. They may be resharpened using one of the Continental Grinders (see current catalog), or sent to Continental Pipe & Tube Cut-Off Machines for resharpening. With proper care, Continental Cut-Off Blades will provide thousands of cuts.

Following is a checklist of circumstances that can result in shortened blade life. Review this list when blade life is shorter than expected, or when unsatisfactory cutting action is encountered.

1. Make certain correct blade model is being used. Check current Continental Catalog for applications.
2. #5723 Nut must be tightened securely to make certain the Cut-Off Blade is clamped flat and cannot slip.
3. Make certain that the blade does not touch the cutter block rolls at the end of the stroke. This will immediately damage both the blade and the rolls.
4. Check alignment of the tubing in the pipe supports and cutter block roll (see OPERATION Section). This alignment is critical for smooth cuts and long blade life.
5. Make certain that the tube spins freely on the supports. Any drag or binding can cause the Cut-off Blade to slip against the pipe as it cuts.
6. Check adjustment of the Length Gauge to make certain it clears the tube shortly after the Cut-Off Blade engages the cut. As the cut is made, the end of the tube is actually moved towards the Length Gauge. If the gauge has not cleared the end of the tube it will cause binding.
7. On air powered machines, check to be sure the Hydrocheck engages BEFORE the Cut-Off Blade contacts the tube.
8. Make sure that the tubing is not striking the side of the Cut-Off Blade as it is advanced into position.
9. On tough or heavy wall material, a lubricating oil may be required to assist the cut. Use LUBRICATING oil, NOT cutting oil.
10. Do not attempt to cut excessively bent, twisted or otherwise distorted material.
11. Tubing material can vary significantly, even within one lot. Hard areas may be encountered, which can shorten blade life.
12. If material is long (over 20 ft.) or very heavy, the Cut-Off Blade may have difficulty spinning it. This will cause the blade to slip, shortening blade life.
13. During resharpening, the edge of the blade must not become overheated. This will cause the edge to soften.

14. After resharpening, the edge of the blade should be honed with a stone (available as Continental Part No. #5959) to remove the sharp edge, and provide a rounded edge. The sharper the edge the more fragile it is.

NOTE:

- A. If a sharper edge is left on the blade (less honing), the blade will cut faster and with less pressure, but will not last as long between resharpenings. This is more appropriate for thin-walled, softer, materials.
 - B. If a more blunt edge is left on the blade (more honing), the blade will require more pressure to cut, but will last longer between resharpenings. This is more appropriate for heavier walled, tougher materials.
15. If a Cut-Off Blade becomes dull or nicked during use, remove it immediately and have it resharpened. If it is left in service, the damage will become worse. In a relatively short time, the blade will be ruined.

FIG. 1 — RECOMMENDED CUT-OFF BLADE BEVELS

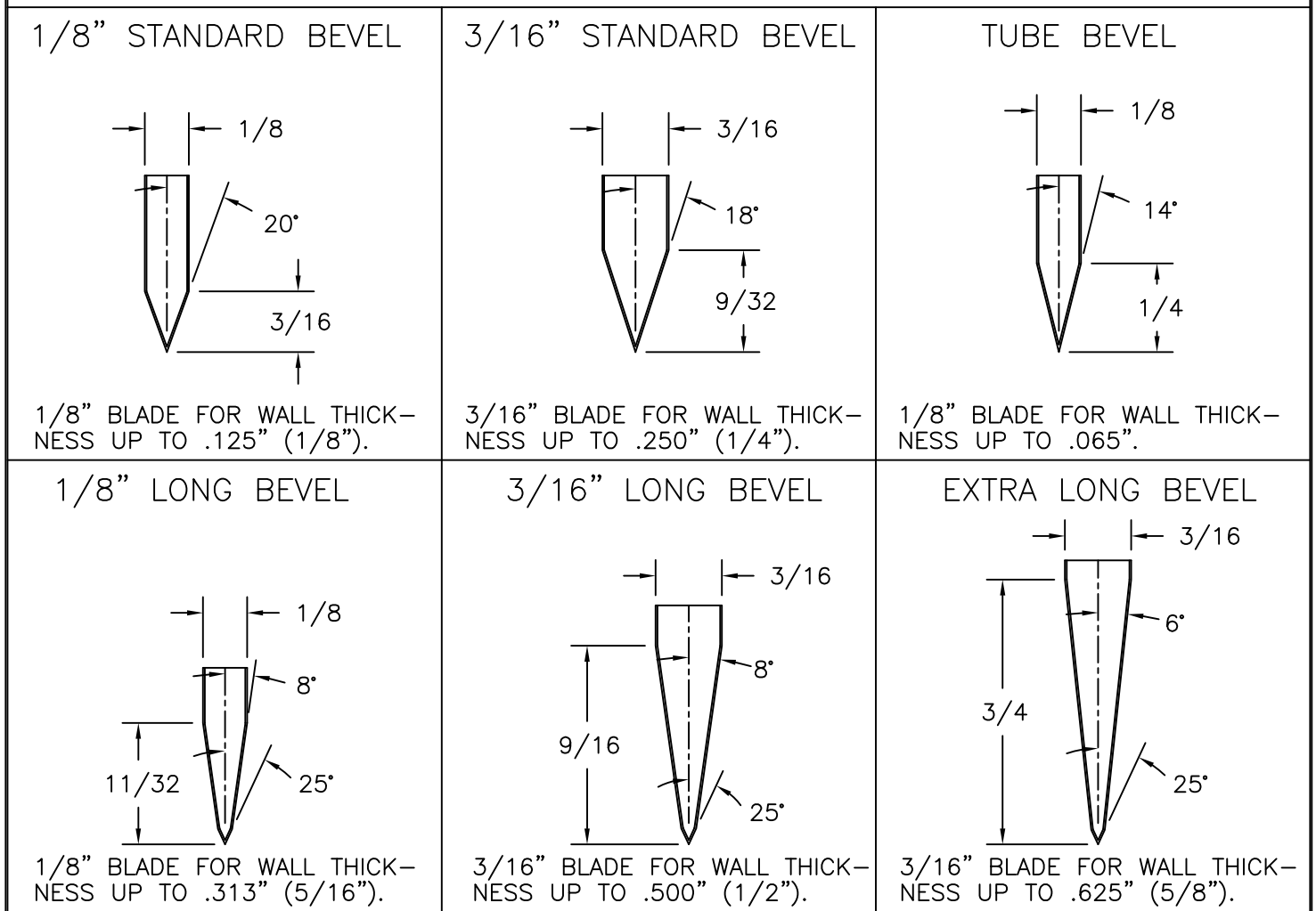


FIG. 2 — CONTINENTAL CUT-OFF BLADE MODELS

| MODEL NO. | BORE (IN.) | THICKNESS (IN.) | DIA. (IN.) | BEVEL (SEE FIG. 1) | REMARKS |
|-----------|------------|-----------------|------------|--------------------|---|
| 7170 | 1-7/16 | 1/8 | 7 | STD. | FOR USE ON CONTINENTAL MODEL 2B, 2A, 3H, 3A, 6H, & 6A. NO PIN HOLES OR KEYWAYS. |
| 7171 | 1-7/16 | 1/8 | 7 | TUBE | |
| 7172 | 1-7/16 | 1/8 | 7 | LONG | |
| 7370 | 1-7/16 | 3/16 | 7 | STD. | |
| 7372 | 1-7/16 | 3/16 | 7 | LONG | |
| 7373 | 1-7/16 | 3/16 | 7 | EXTRA LONG | |
| 7120 | 1-1/2 | 1/8 | 7 | STD. | ONE (1) 13/32 DIA. PIN HOLE ON 1-1/8" RADIUS. |
| 7121 | 1-1/2 | 1/8 | 7 | TUBE | |
| 7122 | 1-1/2 | 1/8 | 7 | LONG | |
| 7320 | 1-1/2 | 3/16 | 7 | STD. | |
| 7322 | 1-1/2 | 3/16 | 7 | LONG | |
| 7140 | 1-3/4 | 1/8 | 7 | STD. | TWO (2) 13/32 DIA. PIN HOLES, ONE (1) ON 1-13/32" RADIUS, ONE (1) ON 1-29/64" RADIUS. |
| 7340 | 1-3/4 | 3/16 | 7 | STD. | |
| 7342 | 1-3/4 | 3/16 | 7 | LONG | |
| 8140 | 1-3/4 | 1/8 | 8 | STD. | |
| 8340 | 1-3/4 | 3/16 | 8 | STD. | |

SECTION E. MAINTENANCE

This machine is completely adjusted and lubricated at the factory. Performing the following maintenance checks will assure trouble-free operation and a long service life. Use an N.L.G.I. #2 Lithium based, Extreme Pressure (EP) grease where indicated.

Change gearbox oil after first 100 hours of operation. Use lubricant indicated on gearbox manufacturer's instructions.

DAILY CHECKS

1. Lubricate cutter block bearings, using #2 EP grease in the fittings provided.

WEEKLY CHECKS

- 1 Lubricate the #5583 Pivot Bar, using #2 EP grease in the fittings provided

SIX MONTH CHECKS

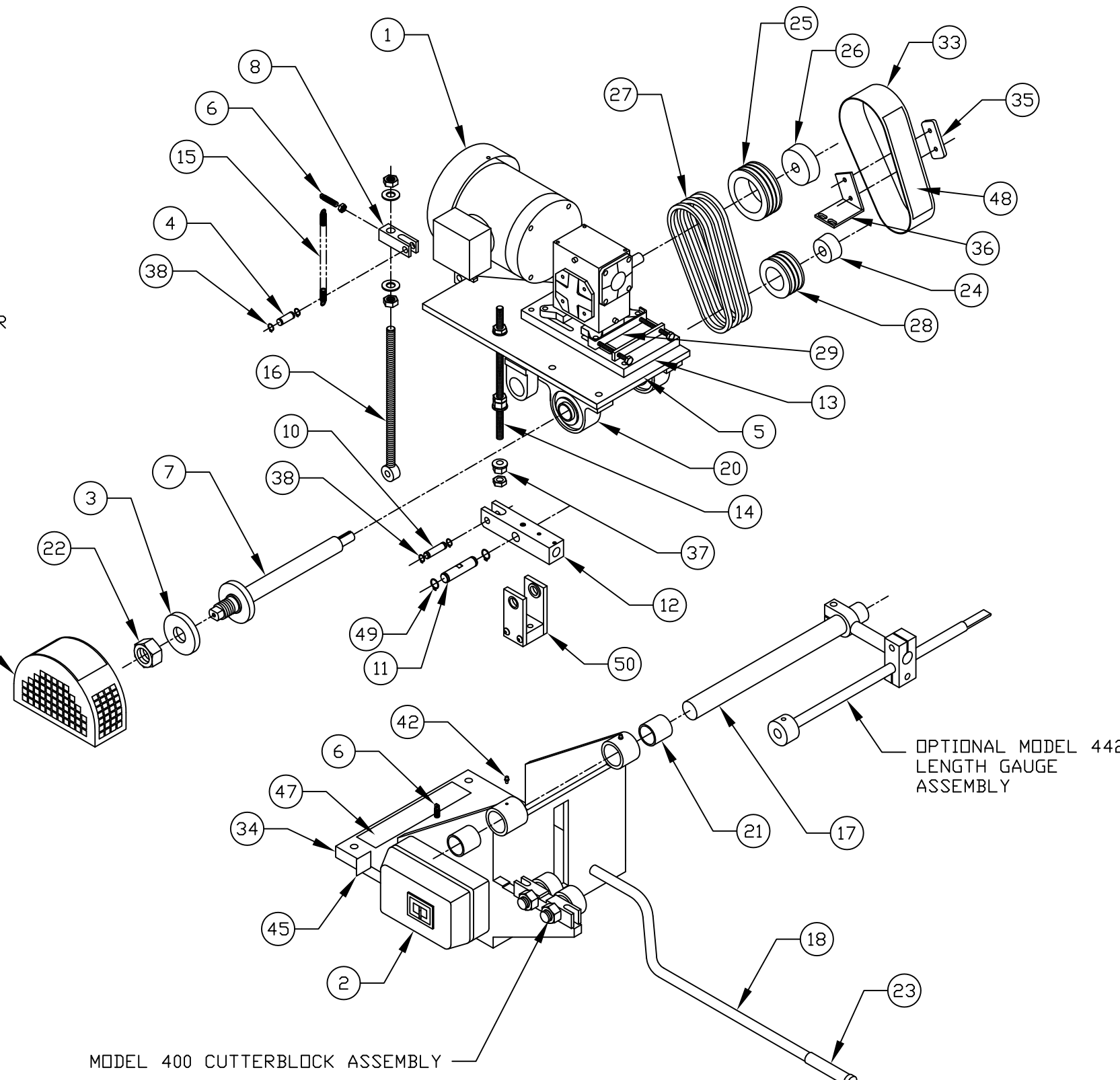
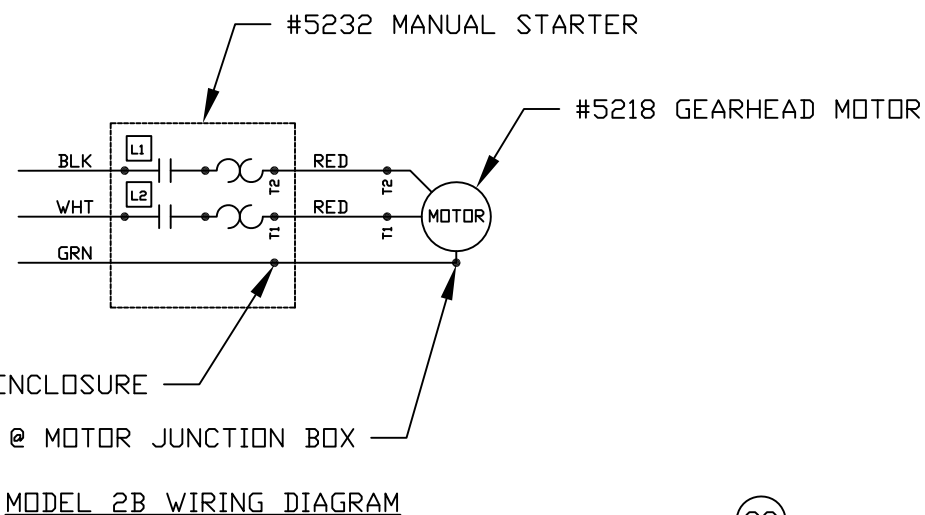
1. Drain oil from gearbox and replace with a 7 EP or 8 EP lubricant indicated on gearbox manufacturer's instructions. (DO NOT use a 5 EP or 6 EP lubricant as this can lead to excessive foaming). Fill gearbox to level indicated on gearbox for "CONTINUOUS" use.
2. Check drive belts for wear and tightness. Adjust accordingly. All three belts should be tightened evenly.

SECTION F

PARTS ILLUSTRATIONS

REVISIONS

| REV | DESCRIPTION | DRWN | DATE |
|-----|---------------------|------|--------|
| | CURRENT REVISION: P | | 3/1/05 |



| 25 | 5764 | TAPERLOCK SHEAVE | 1 | 50 | 6219 | FULCRUM | 1 |
|------|----------|---------------------------|------|------|------------|---------------------------------|------|
| 24 | 5761 | TAPERLOCK SHEAVE BUSHING | 1 | 49 | 241-62035 | SNAP RING | 2 |
| 23 | 5741 | PLASTIC HANDLE | 1 | 48 | 5879 | TAG, CAUTION | 1 |
| 22 | 5723 | CUTTERSHAFT HEX NUT | 1 | 47 | 5881 | TAG, CAUTION | 1 |
| 21 | 5657 | OILITE BUSHING | 2 | 46 | | | |
| 20 | 5652 | PILLOW BLOCK BEARING | 2 | 45 | 5875 | TAG, ELECTRICAL CHARACTERISTICS | 1 |
| 19 | | | | 44 | MANUAL-2B* | INSTRUCTION MANUAL | 1 |
| 18 | 5584 | HANDLE | 1 | 43 | 5702* | WRENCH, CUTTERSHAFT NUT | 1 |
| 17 | 5583 | PIVOT BAR | 1 | 42 | 300-01129 | GREASE FITTING | 2 |
| 16 | 6224 | CLEVIS ROD | 1 | 41 | | | |
| 15 | 6226 | EXTENSION SPRING | 1 | 40 | 04-1778* | SEALTITE CONNECTOR, STR-1/2" | 2 |
| 14 | 6225 | DEPTH GAUGE SCREW | 1 | 39 | 04-1556* | SEALTITE CONDUIT - 1/2" | 2.5' |
| 13 | 5867 | GEARHEAD ADJUSTMENT PLATE | 1 | 38 | 241-62027 | SNAP RING | 4 |
| 12 | 6220 | FULCRUM LEVER | 1 | 37 | 5964 | SPHERICAL FLANGE NUT | 2 |
| 11 | 6221 | FULCRUM PIN | 1 | 36 | 5963 | MOUNTING BRACKET | 1 |
| 10 | 6222 | SWIVEL PIVOT | 1 | 35 | 5962 | CLAMPING WASHER | 1 |
| 9 | | | | 34 | 5950 | BASE | 1 |
| 8 | 6223 | CLEVIS | 1 | 33 | 5948 | V-BELT GUARD | 1 |
| 7 | 5556 | CUTTERSHAFT - 1-7/16 DIA. | 1 | 32 | 5947 | BLADE GUARD | 1 |
| 6 | 5542 | SPRING SCREW | 2 | 31 | 5849* | LIQUID-TIGHT FITTING | 1 |
| 5 | 5422 | MOTOR PLATE | 1 | 30 | 5848* | POWER CORD | 1 |
| 4 | 5405 | AIR CYLINDER PIN | 1 | 29 | 5842 | GEARHEAD PUSH BAR | 1 |
| 3 | 5326 | CUTTERSHAFT CLAMP COLLAR | 1 | 28 | 5767 | TAPERLOCK SHEAVE | 1 |
| 2 | 5232 | MANUAL STARTER SWITCH | 1 | 27 | 5766 | V-BELT | 3 |
| 1 | 5218 | GEARHEAD MOTOR | 1 | 26 | 5765 | TAPERLOCK SHEAVE BUSHING | 1 |
| ITEM | PART No. | DESCRIPTION | QTY. | ITEM | PART No. | DESCRIPTION | QTY. |

BILL OF MATERIALS

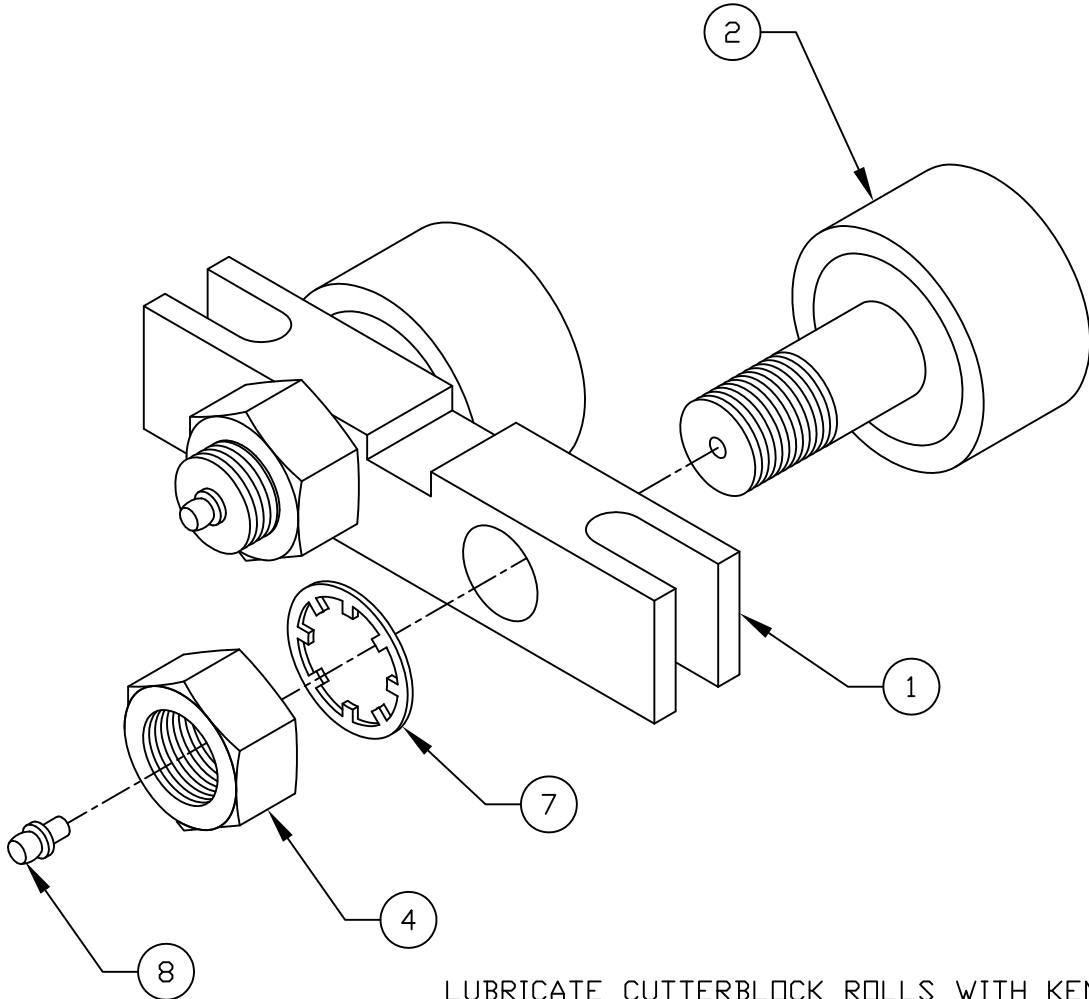
NOTE: ITEMS MARKED (*) ARE NOT ILLUSTRATED.

CONTINENTAL PIPE & TUBE CUT-OFF MACHINES
A DIVISION OF KIENE DIESEL ACCESSORIES, INC.
325 S. FAIRBANKS ST., ADDISON, IL., 60101

| | | |
|---|--------------------------------|--------------------|
| TOLERANCE UNLESS OTHERWISE SPECIFIED: FRACTIONS: +/- 1/64 DECIMALS: +/- .005 ANGLES: +/- .5° | PARTS ILLUSTRATION MODEL 2B | |
| FILE NAME: PI2B | DATE: 3/15/94 | PART NUMBER: PI 2B |
| SCALE: 1:12 | DRWN: GFK | |

REVISIONS

| REV | DESCRIPTION | DRWN | DATE |
|-----|---------------------|------|------|
| | CURRENT REVISION: B | | |



LUBRICATE CUTTERBLOCK ROLLS WITH KENDALL SUPER BLU HIGH TEMP EP L-427 GREASE (CONTINENTAL PART NO. 5960). PUMP A SUFFICIENT QUANTITY INTO EACH CUTTER BLOCK ROLL THROUGH THE FITTING SO THAT GREASE IS FORCED OUT BETWEEN THE STUD AND OUTER RING. REMOVE EXCESS GREASE.

BILL OF MATERIALS

| ITEM | PART NO. | DESCRIPTION | QTY. |
|------|----------|-------------------------------------|------|
| 1 | 5578 | CUTTER BLOCK | 1 |
| 2 | 5656 | CUTTER BLOCK ROLL | 2 |
| * | 3 | 201-64280 3/8-16 X 1-3/4 HHCS, GR 5 | 2 |
| | 4 | 202-63780 7/8-14 HEX NUT, ZINC | 2 |
| * | 5 | 205-61024 3/8 FLAT WASHER | 2 |
| * | 6 | 207-61024 3/8 SPLIT LOCKWSHR | 2 |
| | 7 | 208-63040 7/8 INTERNAL LOCKWSHR | 2 |
| | 8 | 300-01129 GREASE FITTING | 2 |

NOTE: ITEMS MARKED (*) ARE NOT ILLUSTRATED.

CONTINENTAL PIPE & TUBE CUT-OFF MACHINES
A DIVISION OF KIENE DIESEL ACCESSORIES, INC.
325 S. FAIRBANKS ST., ADDISON, IL., 60101

MATERIAL:

AS SHOWN

TOLERANCE UNLESS OTHERWISE SPECIFIED:
FRACTIONS: +/- 1/64
DECIMALS: +/- .005
ANGLES: +/- .5°

PARTS ILLUSTRATION
MODEL 400 CUTTER
BLOCK ASSEMBLY

FILE NAME: PI400

DATE: 3/15/94

PART NUMBER:

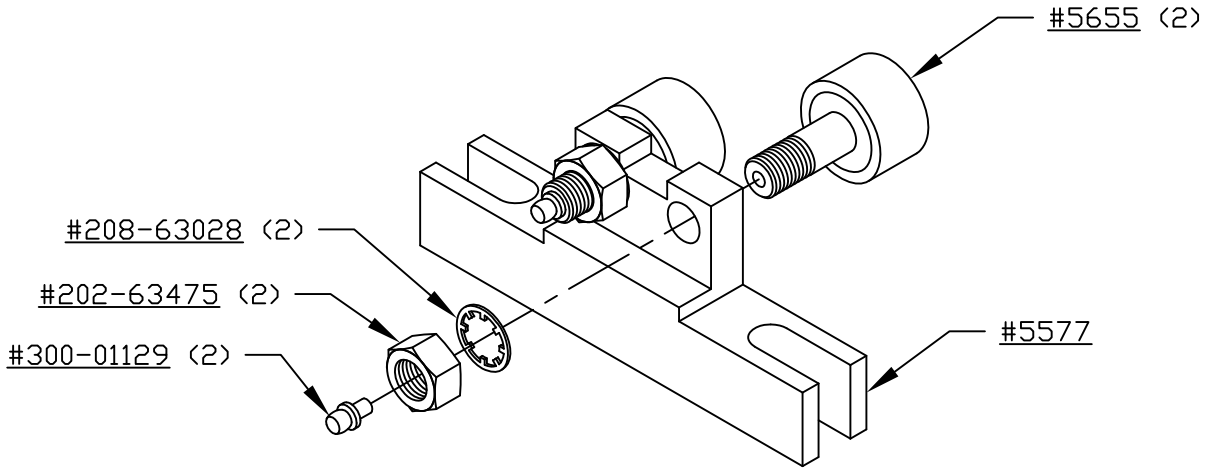
FINISH: SEE DETAIL DWGS.

SCALE: NONE

DRWN: GFK

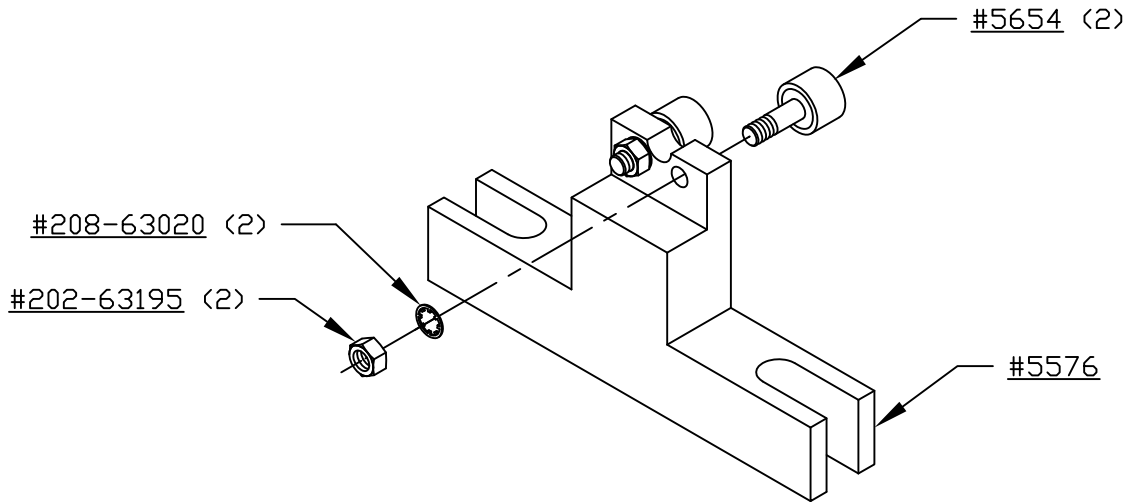
PI 400

| REVISIONS | | | |
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| REV | DESCRIPTION | DRWN | DATE |
| | CURRENT REVISION: A | | |



MODEL 401 CUTTERBLOCK ASSEMBLY

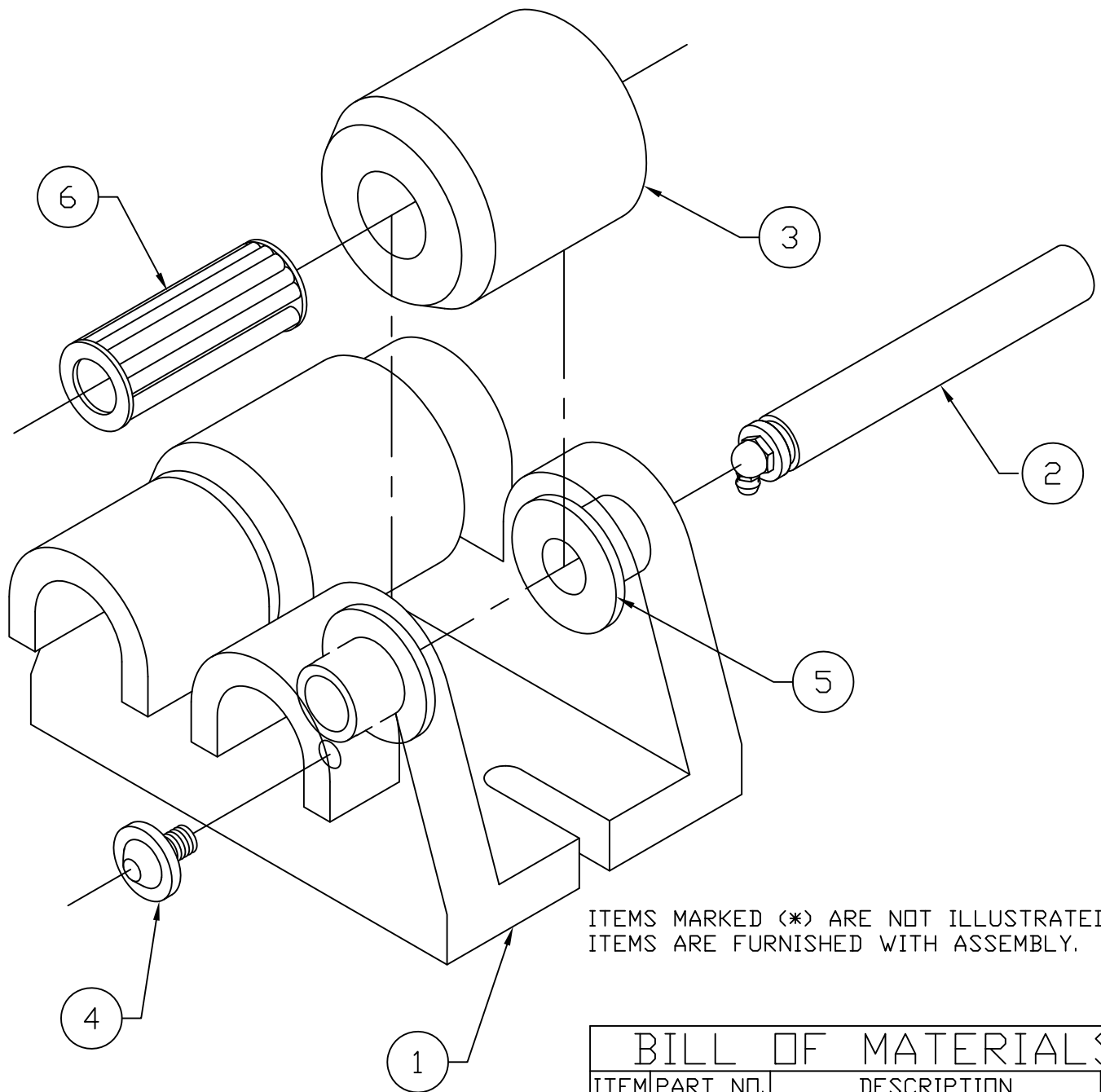
LUBRICATE CUTTERBLOCK ROLLS WITH KENDALL SUPER BLU HIGH TEMP EP L-427 GREASE (CONTINENTAL PART NO. 5960). PUMP A SUFFICIENT QUANTITY INTO EACH CUTTER BLOCK ROLL THROUGH THE FITTING SO THAT GREASE IS FORCED OUT BETWEEN THE STUD AND OUTER RING. REMOVE EXCESS GREASE.



MODEL 402 CUTTERBLOCK ASSEMBLY

CONTINENTAL PIPE & TUBE CUT-OFF MACHINES
A DIVISION OF KIENE DIESEL ACCESSORIES, INC.
325 S. FAIRBANKS ST., ADDISON, IL., 60101

| | | | |
|---------------------------|--|---|--------------|
| MATERIAL: AS SHOWN | TOLERANCE UNLESS OTHERWISE SPECIFIED: FRACTIONS: $\pm 1/64$ DECIMALS: $\pm .005$ ANGLES: $\pm .5^\circ$ | PARTS ILLUSTRATION MODEL 401 AND MODEL 402 CUTTERBLOCK ASSEMBLIES | |
| | FILE NAME: PI401-02 | DATE: 12/15/98 | PART NUMBER: |
| FINISH: SEE DETAIL DWGS. | SCALE: NONE | DRWN: GFK | PI401, PI402 |



ITEMS MARKED (*) ARE NOT ILLUSTRATED.
ITEMS ARE FURNISHED WITH ASSEMBLY.

LUBRICATE ROLLERBEARINGS WITH KENDALL SUPER BLU HIGH TEMP EP L-427 GREASE (CONTINENTAL PART NO. 5960). PUMP A SUFFICIENT QUANTITY INTO EACH BEARING THROUGH THE FITTING SO THAT GREASE IS FORCED OUT BETWEEN THE BEARING AND CUTTER BLOCK ROLL. REMOVE EXCESS GREASE.

| BILL OF MATERIALS | | | |
|-------------------|----------|-----------------------|------|
| ITEM | PART NO. | DESCRIPTION | QTY. |
| 1 | 5107 | CUTTER BLOCK | 1 |
| 2 | 5311 | ROLL PIN | 2 |
| 3 | 5312 | CUTTER BLOCK ROLL | 2 |
| 4 | 5361 | ROLL PIN CLAMP SCREW | 2 |
| 5 | 5395 | ROLL PIN BUSHING | 4 |
| 6 | 5616 | ROLLERBEARING | 2 |
| * 7 | 5366 | OUTER SUPPORT BRACKET | 1 |

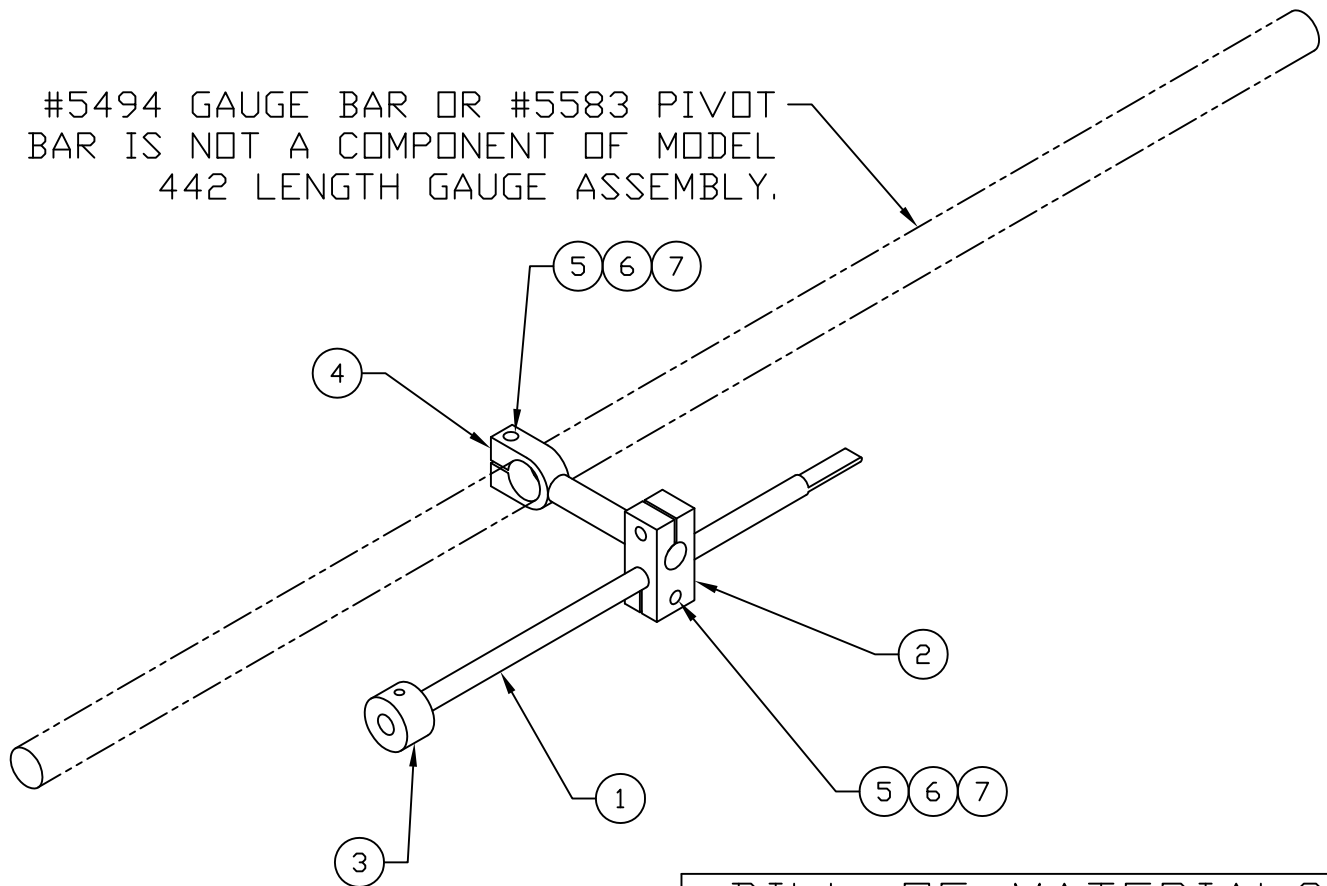
CONTINENTAL PIPE & TUBE CUT-OFF MACHINES
A DIVISION OF KIENE DIESEL ACCESSORIES, INC.
325 SOUTH FAIRBANK STREET - ADDISON, ILLINOIS 60101

PARTS ILLUSTRATION
MODEL 419 CUTTER BLOCK ASSEMBLY

REVISIONS

| REV | DESCRIPTION | DRWN | DATE |
|-----|---------------------|------|------|
| | CURRENT REVISION: A | | |

#5494 GAUGE BAR OR #5583 PIVOT BAR IS NOT A COMPONENT OF MODEL 442 LENGTH GAUGE ASSEMBLY.



BILL OF MATERIALS

| ITEM | PART No. | DESCRIPTION | QTY. |
|------|-----------|-----------------------|------|
| 1 | 5354 | GAUGE PIN | 1 |
| 2 | 5439 | GAUGE SUPPORT, FRONT | 1 |
| 3 | 5516 | HARDENED PIPE STOP | 1 |
| 4 | 5933 | GAUGE SUPPORT, BACK | 1 |
| 5 | 201-64421 | 1/2-13 X 2' LG. HHCS | 3 |
| 6 | 206-61028 | 1/2 SAE WASHER | 3 |
| 7 | 207-61028 | 1/2 SPLIT LOCK WASHER | 3 |

CONTINENTAL PIPE & TUBE CUT-OFF MACHINES
 A DIVISION OF KIENE DIESEL ACCESSORIES, INC.
 325 S. FAIRBANKS ST., ADDISON, IL., 60101

MATERIAL:
 AS SHOWN

TOLERANCE UNLESS OTHERWISE SPECIFIED:

FRACTIONS: +/- 1/64
 DECIMALS: +/- .005
 ANGLES: +/- .5°

FILE NAME: PI442

SCALE: NONE

PARTS ILLUSTRATION
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 GAUGE ASSEMBLY

DATE: 3/27/92

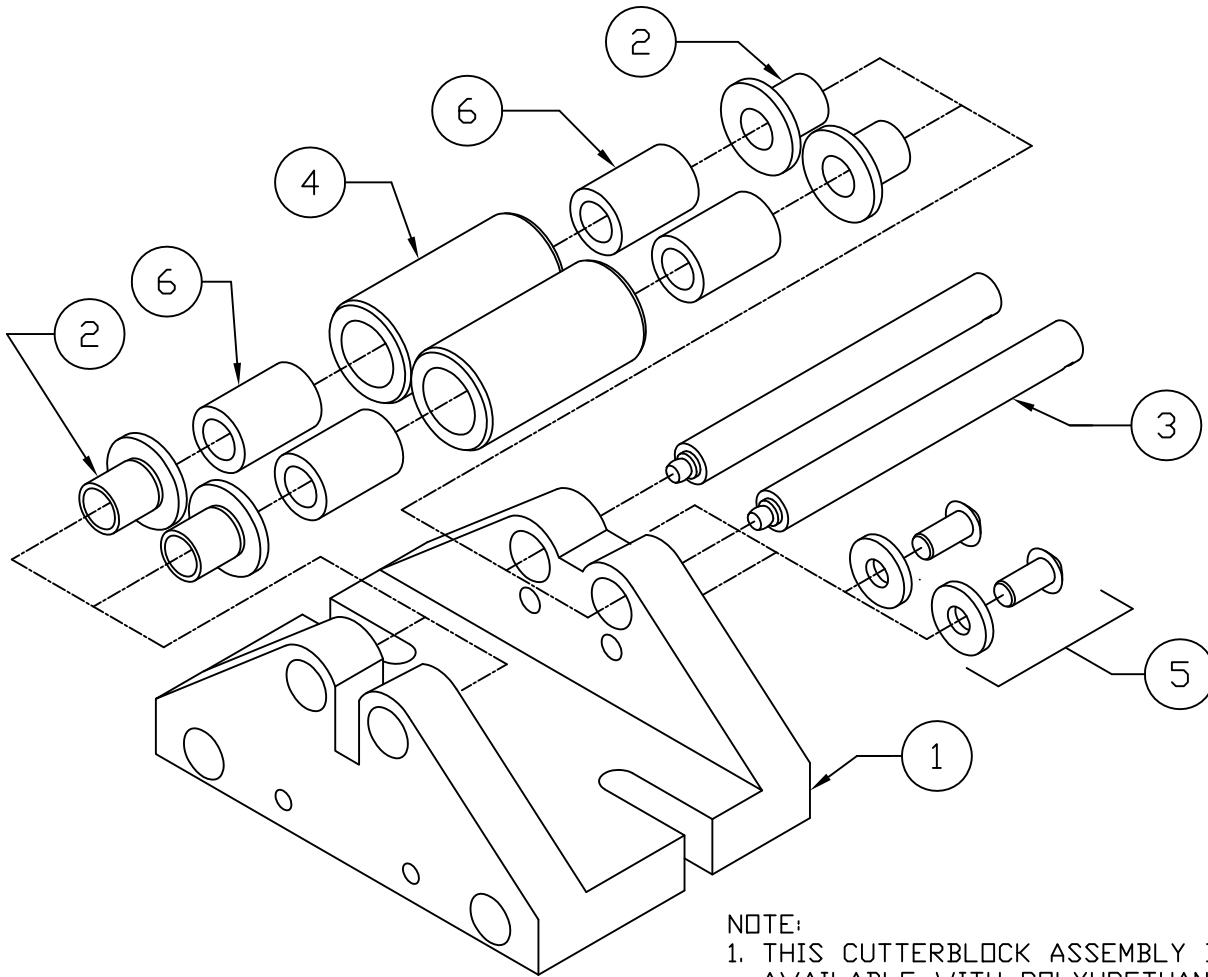
PART NUMBER:

FINISH: SEE DETAIL DWGS.

DRWN: GFK

PI 442

| REVISIONS | | | |
|-----------|---------------------|------|------|
| REV | DESCRIPTION | DRWN | DATE |
| | CURRENT REVISION: C | | |



- NOTE:
- THIS CUTTERBLOCK ASSEMBLY IS ALSO AVAILABLE WITH POLYURETHANE COATED ROLLS (PART NO. 5368).
 - ITEMS MARKED (*) ARE NOT ILLUSTRATED. ITEMS ARE FURNISHED WITH ASSEMBLY.

LUBRICATE ROLLERBEARINGS WITH KENDALL SUPER BLU HIGH TEMP EP L-427 GREASE (CONTINENTAL PART NO. 5960). PUMP A SUFFICIENT QUANTITY INTO EACH BEARING THROUGH THE FITTING SO THAT GREASE IS FORCED OUT BETWEEN THE BEARING AND CUTTER BLOCK ROLL. REMOVE EXCESS GREASE.

| BILL OF MATERIALS | | | |
|-------------------|----------|-------------------------------|------|
| ITEM | PART NO. | DESCRIPTION | QTY. |
| 1 | 5109 | STATIONARY CUTTER BLOCK | 1 |
| 2 | 5313 | CUTTER BLOCK ROLL PIN BUSHING | 4 |
| 3 | 5314 | CUTTER BLOCK ROLL PIN | 2 |
| 4 | 5315 | CUTTER BLOCK ROLL | 2 |
| 5 | 5361 | CUTTER BLOCK PIN CLAMP SCREW | 2 |
| 6 | 5615 | CUTTER BLOCK ROLLERBEARING | 4 |
| * | 5366 | OUTER SUPPORT BRACKET | 1 |

CONTINENTAL PIPE & TUBE CUT-OFF MACHINES
 A DIVISION OF KIENE DIESEL ACCESSORIES, INC.
 325 S. FAIRBANKS ST., ADDISON, IL., 60101

MATERIAL:

AS SHOWN

TOLERANCE UNLESS OTHERWISE SPECIFIED:

FRACTIONS: $\pm 1/64$
 DECIMALS: $\pm .005$
 ANGLES: $\pm .5^\circ$
 FILE NAME: P1491

PARTS ILLUSTRATION
 MODEL 494 CUTTER
 BLOCK ASSEMBLY

DATE: 07/16/96

PART NUMBER:

FINISH: SEE DETAIL DWGS.

SCALE: NONE

DRWN: KAM

PI 494

WARRANTY

The equipment delivered hereunder is guaranteed to be free from defective material and workmanship for a period of six (6) months from date of delivery, when given normal and proper usage, and when used by the original purchaser.

Notice of any claimed defect must be given to seller within thirty (30) days after discovery of any claimed defect. During warranty period, seller's obligation shall be limited to delivering to the buyer, F.O.B. seller's plant, replacements of any equipment or parts, or repairing such equipment or parts, found defective by inspection.

Any article not of seller's manufacture included in this proposal is sold under such warranty only as the makers give us, and we are able to enforce, but it is not guaranteed by seller in any way. No equipment or material shall be returned to seller except on our specific instructions and no claim will be honored unless we have been given an opportunity for inspection on site and in the claimed defective condition. The determination of seller's representative will be final. Seller assumes no responsibility for reimbursing repair or replacement costs incurred without our prior written authorization, or prior to a determination of seller's authorized representative. Seller assumes no liability for the cost of installation of repaired or replacement parts. All costs of packing and shipping defective parts and/or replacement of repaired parts shall be paid by buyer. In no event shall our liability under this warranty exceed the purchase price paid for the products.

THE WARRANTY STATED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SELLER SHALL HAVE NO LIABILITY WHATSOEVER IN ANY EVENT FOR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES RESULTING IN PERSONAL INJURY.

Any action for breach of this warranty or other action under this contract must be commenced within one (1) year after such cause of action arises.