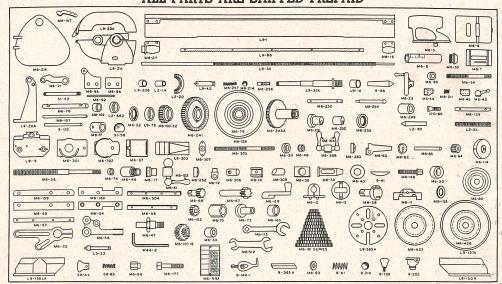
HOW TO ORDER PARTS FOR CRAFTSMAN METAL CUTTING BENCH LATHE, MODEL NO. 101.07301

All parts listed here may be ordered through any Sears Retail store or the Mail Order store which serves the territory in which you live. When ordering always give the following:

1. Part number in this list.

3. Model number, which is 101.07301, and which will be found on the plate on the rear side of the bed.

2. Part name and price in this list. be found or ALL PARTS ARE SHIPPED PREPAID



	Selling		Selling	1	Selling
Port No	Part Name Fach	Part No.	Part Name Price	Part No.	Part Name Fach
L9-1	BED ASSEMBLY Bed 30"Price on Application	M6-38	Split Nut Cam40	M6-88	Change Gear Bracket Nut20
L9-150R	Bench Leg (right)\$1.55	M6-46 M6-54	Carriage Slide Screw Bearing60	M6-93	Change Gear Washer
L9-150LA	Bench Leg (right) \$1.55 Bench Leg (left) 1.55 HEADSTOCK ASSEMBLY	M6-55	Carriage Bearing Plate (front)50 Carriage Bearing Plate (rear)50	M6-101-16	Change Gear Washer (2 req.) each .12 Compound Tumbler Gear (16 and 32 teeth) .95 Lead Screw Collar (left) .40 Wrench .55
L9-2A	HeadStock	M6-57	Carriage Gib	144 114	(16 and 32 teeth)
L2-14	Spindle Bushing (left)20	M6-61 9-61	Ball Crank with Handle	M6-114 M6-165	Gear Spacer 40
L9-14	Spindle Bushing (right)	M6-62	Threading Dial45	M6-312	Wrench
L2-20 L9-22A	Headstock Cover 1.25	M6-63 M6-64	Threading Dial Body	L2-682	Lead Screw Collar (right)25
L9-31A	Head Spindle 9.05	M6-65	Threading Dial Pinion		CHANGE GEAR ASSEMBLY
M6-32 L9-42	Index Pin	M6-67	Carriage Handwheel Shaft	M6-99A	Threading Chart40
9-61	Spring .12 Spindle Gear Spacer .40	M6-68	and Pinion	M6-101-20	Change Gear (20 teeth)
L9-78 M6-79	Spindle Gear Spacer40 Spindle Pulley and Back Gear 2.60		Carriage Traverse Pinion and Shaft	M6-101-24	Change Gear (24 teeth)
7-88	Center No. 2 Morse Taper 1.55	M6-74 L9-86	Carriage Screw Thrust Washer	144 101 20	(2 req.) each50
M6-100-32	Spindle Gear .55 Oiler (2 req.) ea. .20 3/16" Ball .12 1/8" Ball .12	M6-93	Handwheel Washer	M6-101-32	
9-205 9-210	3/16" Rall .12	M6-102	Carriage Traverse Gear	M6-101-36	Change Gear—36 teeth
M6-214	1/8" Ball	M6-103 M6-159	Ball Crank Handle	M6-101-40 M6-101-44	Change Gear—40 teeth70
M6-241 M6-243A	Spindle Back Gear—large 2.60 Back Gear with Bushings 6.55	M6-160	Carriage Shim (front)	M6-101-46	Change Gear—40 teeth .70 Change Gear—44 teeth .75 Change Gear—46 teeth .80
M6-249	Back Gear Bushing (2 req.) ea30	M6-177	Carriage Shim (rear) .30 Carriage Shim (front) .30 Carriage Lock Screw (2 req.) ea25 3/16" Ball	M6-101-48	Change Gear-48 teeth
M6-250	Back Gear Shaft	9-210 M6-262	Cross Feed Ball Crank Nut20	M6-101-52 M6-101-54	Change Gear—52 teeth75
M6-251 M6-252	Back Gear Eccentric (right)			M6-101-56	Change Gear—56 teeth 1.05
M6-253	Back Gear Set Collar (2 reg.) ea30		COMPOUND REST ASSEMBLY	M6-101-64	Change Gear—48 teeth .90 Change Gear—52 teeth .95 Change Gear—54 teeth .00 Change Gear—56 teeth .05 Change Gear (64 teeth) (2 req.) each .1.20
M6-254	Eccentric Handle	M6-37 M6-48	Carriage Feed Screw Guard		(2 req.) each 1.20
M6-255 M6-256	Back Gear Lock Pin	M6-56	Graduated Collar	CH.	ANGE GEAR GUARD ASSEMBLY
M6-257	Back Gear Plunger Spring	M6-104	Ball Crank Handle (2 req.) each .25	M6-28 M6-92	Change Gear Guard Hinge Pin .25
L9-258 9-729	Spindle Pulley Bushing (2 req.) ea20 Bakelite Knob	M6-263 M6-301	Compound Ball Crank Nut	M6-95	Change Gear Guard Bracket
		M6-302	Compound Rest Swivel (upper) 3.15	M6-96	Change Gear Guard Bracket Plate .40
M6-5	TAILSTOCK ASSEMBLY	L9-303	Compound Rest Tool Post Slide 3.00	M6-157 9-729	Latch Spring
M6-6	Tailstock 5.30 Tailstock Base 1.90	M6-304	Compound Rest Tool Post Slide Gib	17.72	7:N - 2 %
M6-7	Tailstock Clamp	M6-305	Compound Rest Feed Screw		COUNTERSHAFT ASSEMBLY
M6-8 M6-23	Tailstock Ram 2.80 Handwheel (with handle) 1.25	M6-306 M6-307	Tool Post Slide Nut	L9-20A M6-21	Countershaft Bracket 2.20
L2-25	Tailstock Set-over Screw (2 req.)		Compound Rest Feed Screw Thrust Plate Compound Rest Ball Crank (with handles) Compound Lock Plunger (2 req.) each Compound Cest Feed Screw	51-52	Countershaft Hanger 1.55 Rockershaft Handle .40 Rockershaft Handle .20
144 20	each05	M6-308	Compound Rest Ball Crank	51-56	Rockershaft Handle Ball20
M6-30 M6-34	Tailstock Screw Bearing	M6-309	Compound Lock Plunger	M6-76 M6-77	Rockershaft
M6-42	Tailstock Ram Lock Handle		(2 req.) each25	M6-80	Countershaft Pulley (4 step) 1.50
M6-44 M6-45	Tailstock Ram Lock Sleeve (lower) .20 Tailstock Ram Lock Sleeve (upper) .21	M6-311	Compound Rest Feed Screw	M6-107 M6-109	Countershaft Spindle
10D-60	Tailstock Base Gib Adjusting	W44-2	Thrust Collar .25 Allen Wrench 1/4" .12	9-122	Hanger Hinge Pin
L2-80	Screw (2 req.) each			M6-427	Countershaft Pulley (2 step) 1.55
M6-90	Tailstock Ram Screw Thrust Nut .20	LEAD S	CREW AND FEED GEAR ASSEMBLY	L2-682	Collar (2 req.) each25
M6-129	Tailstock Gib	M6-16	Lead Screw Bearing (right)		TOOL POST ASSEMBLY
M6-211	Ram Lock Spring	L3-23 M6-25	Reverse Tumbler Plunger	M6-39	Tool Post
CA	RRIAGE AND RACK ASSEMBLY	M6-27	Screw Bearing (left)	M6-40 9-41	Tool Post Washer
L9-9 M6-11	Carriage 7,50 Carriage Traverse Gear Bearing .40	M6-33	Tumbler Gear Bushing	M6-136	Tool Post Anchor30
M6-12	Split Nut (1 pr.)	L9-35	Screw Bearing (left) 1.50	M6-148	Tool Post Set Screw
M6-13	Split Nut Guide	S8-45	Keverse Iumbier Knob		A HICAGO A A A A A A A A A A A A A A A A A A
M6-14 M6-17	Carriage Clamp	M6-47 M6-50	Spindle Gear Stud	M6-115	MISCELLANEOUS Combination Wrench
M6-19A	Carriage Slide Nut	M6-58	Reverse Gear Tumbler	M6-126	Belt (C't'rshaft to Motor)
M6-23	(111us. as M6-47)	S8-63 M6-70	Plunger Spring	L9-127A	Rolf (C'trebaff to Spindle) 120
M6-23 M6-29	Hand Wheel (with handle) 1.25 Split Nut Lever75		Compound Gear Bushing (2 req.) each	9-144-1 L9-365A	Lathe Dog (1" cap.) .90 Face Plate (5 1/4") .190 Tool Bit
M6-36A	Carriage Slide Screw	M6-73	Change Gear Stud Sleeve	9-385A	Tool Bit
	(Illus, as M6-36) 1.20		(2 req.) each	M6-428	Motor Pulley 1.20

All Prices Are Subject to Change Without Notice
NOTICE: This is NOT a packing slip. The parts shown and listed include accessories that are not necessarily part of this tool.
NOTE: Standard parts, such as bolts, nuts, washers, etc., are not listed above as such parts can be obtained locally.



April, 1948

OPERATING INSTRUCTIONS AND PARTS LIST FOR

CRAFTSMAN SIX-INCH METAL CUTTING BENCH LATHE

MODEL NUMBER 101.07301 -

This is the Model Number of your lathe. It will be found on the plate on the rear side of the bed. Always mention this Model Number when communicating with us regarding your lathe or when ordering parts.

orrect prices add, 20% to those shouthose listed in this bulletin and 18:56 of the second and 18:56 of

This list is valuable. It will assure your being able to obtain proper parts service at all times. We suggest you keep it with other valuable papers.

SEARS, ROEBUCK AND CO.

ASSEMBLY AND OPERATING INSTRUCTIONS FOR CRAFTSMAN SIX-INCH METAL TURNING LATHE

Fig. 1

DESCRIPTION

This lathe is designed to be run by a 1/3 H.P. 1740 R.P.M. motor. We strongly recommend motors of the type shown in our catalog.

After removing the lathe from the crate, clean it thoroughly. Remove the rust-proof coating from the bed ways with a cloth soaked in kerosene.

Floor legs and table boards make an ideal stand for the lathe.

If the lathe is to be mounted on a bench, use one that is solidly built, well braced and with a good dry lumber top at least two inches thick. The precision of any lathe, regardless of size depends a great deal upon the rigidity of the base under the lathe.

LEVELLING THE LATHE—Important—See mimeographed sheets. Mount the countershaft on the bench, making sure the countershaft is parallel with the spindle and the pulleys are in line. Have the rockershaft handle in off-tension position when mounting the counter-

OPERATION AND CONTROLS

The following controls should be tested until the operator is thoroughly

familiar with their use.

(1) The large handwheel on the front of the carriage propels the carriage

(1) The large handwheel on the front of the carriage propels the carriage along the bed.

(2) The ball-crank is used for cross-feeding and the two-handle crank operates the compound rest. Both are graduated in thousands of an inch. The compound feed can be turned in a complete circle, by simply loosening the two Allen set screws, and is graduated in degrees from 0° to 180° so that any angle can be cut.

(3) The lever on the right front side of the carriage operates the half-nut mechanism. When this lever is moved into the downward position, it engages the half-nut with the lead screw causing the carriage to travel along the bed. CAUTION: Before engaging the half-nut with the lead screw, be sure that the square head cap screw on the right top side of the carriage is

sure that the square head cap screw on the right top side of the carriage is loose, otherwise the carriage is locked and serious damage may result to the mechanism.

The lever with the small knob, located at the headstock end of the

(4) The lever with the small knob, located at the headstock end of the lathe, is the reverse gear tumbler lever. This lever is used to reverse or stop the rotation of the lead screw. Three holes are drilled in the headstock providing three positions for the lever. The center hole is neutral and the up-

viding three positions for the lever. The center hole is neutral and the upper and lower holes are either forward or reverse positions, depending upon the gear set-up.

(5) The belt tension lever located on the countershaft regulates the tension of the spindle belt. To tighten the belt move the lever backward. Move forward to lossen the tension, thereby allowing the belt to be easily changed to the different pulley steps.

(6) The handwheel on the tailstock operates the tailstock ram. To advance the ram, turn the handwheel in a clockwise direction.

(7) The small lever at the top of the tailstock is the tailstock ram clamp handle. It locks the ram in place when tightened. Note: Before attempting

(7) The small lever at the top of the fallstock is the ramin place when tightened. Note: Before attempting to move the ram, loosen the ram clamp.

ADJUSTMENTS

(I) SPINDLE BEARING ADJUSTMENT: If any looseness develops in the spindle bearings it may be removed as follows: Loosen fillister head machine screw in left bearing cap one-half turn. Then tighten right bearing cap screw until a slight drag is felt when the spindle is rotated by hand. Retighten left bearing until all looseness disappears.

SPINDLE END PLAY: Should end play develop, remove it by tightening the collar on the end of spindle after loosening set screw. Turn collar to a snug fit, but not so tight that the spindle turns hard by hand. Retighten set screw.

CAUTION: Do not confuse spindle end play for loose bearings.

When turning wood or using speeds over 1250 R.P.M., loosen the bearing screws between 1/8 and 1/4 turn. A tight bearing is essential for metal turning, but not satisfactory for higher speeds for wood working. When changing back to lower speeds, do not forget to tighten the bearing cap screws again.
(2) ADJUSTMENTS OF THE CARRIAGE: If any horizontal

play develops between the carriage and the bed it can be taken up by screwing the four gib screws up tighter against the gib. These screws should be tightened just enough to give a firm sliding fit between the carriage and bed.

Bearing plates on the carriage, which bear on the under side of both the front and the back of the bed ways, anchor the carriage firmly to the bed in a vertical direction. The bearing plates have laminated shims for adjustment of possible wear.

(3) The gibs on the cross feed slide and the compound feed slide should be adjusted at regular intervals. The cross feed gib should always fit snugly, because the cross slide is in almost continual use.

(4) The ball and crank handles on the cross feed screw and the compound feed screw can be adjusted for play with the two nuts on the hubs of the handles. To adjust, tighten the inner nut and lock the outer nut. An extremely tight fit is likely to result in a jerky feedthe turning force keeps these slides firm against the screw, and play in the handles does not affect the accuracy of the work. A nice working, snug fit is ideal.

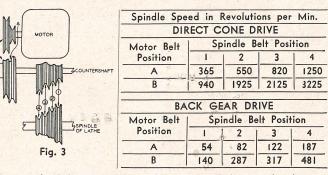
(5) On the tailstock, two gib screws are provided, one on each

end of the gib which regulates the tightness of the tailstock between the bed ways. These two screws should be adjusted evenly so that both ends of the gib will bear against the way with the same amount of pressure.

The tailstock can be set over 75" for turning tapers. This is done by simply adjusting the two headless screws after loosening the tailstock clamp nut.

(2) Place 20 tooth gear and

PROPER CUTTING SPEEDS



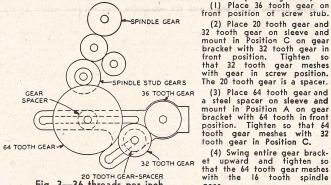
Much of the success in metal cutting depends upon the choice of the cutting speeds. Too slow a speed not only wastes time, but leaves a rough finish—too high a speed burns the tool. The chart above shows the different speeds available and the set-up for each.

READING THE GEAR CHART

To simplify gear set-ups the three different gear bracket positions have been assigned letters. These designations will be found in Figure I on the Threading Chart as positions A, B, and C.

"Back position" means the position TOWARD the headstock. "Front position" is the position AWAY FROM the headstock.

One representative set-up is given in detail below. GEAR SET-UP FOR 36 THREADS PER INCH (See Figure 3) Place 36 tooth gear on front position of screw stub.



20 TOOTH GEAR-SPACER Fig. 3—36 threads per inch

Fig. 3—36 threads per inch gear.

When setting up the gear train be sure to allow sufficient clearance between two meshing gears. Gear clearance does not reduce the accuracy of a thread cutting operation because all the back lash in the gears is taken up in one direction.

MOUNTING THE WORK

Whenever practicable, the work is held between centers. There are two steps in mounting work between centers: Locating the center points at each end of the work, and countersinking and drilling the ends to accommodate the lathe centers.

On round work, centers are usually located with either the hermaphrodite caliper or the center head attachment for a steel square. On the centering of square, hexagon and other regular-sided stock. lines are scribed across the ends from corner to corner. The work is then center punched at the point of intersection. A little chalk rubbed over the end of the work before scribing makes the marks easily seen.

After the ends have been countersunk, the work is mounted between centers. Be sure that the "tail" or bent portion of the lathe dog fits into the face plate slot without resting on the bottom of the face plate slot.

Bring the tailstock up close to the end of the stock and lock in place. Turn the tailstock center into the countersunk hole and lock in such a position that the play is taken up between centers but not

In such a position that the piety is taken up between centers but not so tight that the work will not freely rotate. PLACE PLENTY OF WHITE LEAD AT POINT OF BEARING ON TAILSTOCK CENTER.

Much of the work to be turned or threaded on the lathe is not of a size or shape which permits mounting between centers. In such cases it is customary to mount the work on a face plate or hold it in a chuck, a device with jaws which grips the work rigidly while it is being machined.

If only one chuck is to be purchased, it should be the four-jaw independent chuck. The four-jaws are adjusted separately and are reversible so that work of any shape can be clamped from the inside or the outside.

Mounting work in the four-jaw chuck is largely a matter of centering.

Mounting work in the four-law chuck is largely a marrier or centering. Determine the portion of the rough work that is to run true, then champ the work as closely centered as possible, using as a guide the concentric rings on the face of the chuck. Test for trueness, marking the high spots with chalk rested against the tool post or a tool bit mounted in the tool post. The chuck jaws should be adjusted until the chalk or tool bit contact the active circumference of the work.

chalk rested against the tool post or a tool bit mounted in the tool post. The chuck jaws should be adjusted until the chalk or tool bit contacts the entire circumference of the work.

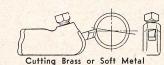
Boring operations require only slightly different tools and methods than those for external turning. With the round tool shank parallel to the lathe center line, set the boring tool into the work with the shank below the center line. Then by putting the cutring edge on exact center line, the correct amount of back rake is provided. The general rules for the use of the external tools apply to boring tools. For maximum rigidity, choose the largest possible boring tool. Take several light cuts rather than a heavy one when boring.

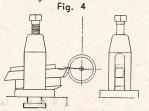
CUTTING TOOL BITS

It is wise for the unskilled worker to purchase already formed tools for the particular operations he wishes to perform. Tool bits are not expensive and the purchase of a set of these will probably prove the cheapest and most satisfactory way out in the long run.

ANGLE OF TOOL TO WORK The angle of the cutting tool to the work varies according to hard-ness of the metal being cut. The accompanying drawings show in general the proper angles to be used for the different classes of metals. Refer to these drawings before taking a cut until you are sure you know the proper angle for each metal. CUTTING SPEEDS

The speed a cut is taken varies according to the kind of metal being cut and the kind of cut—whether roughing or finishing. Brass may be cut faster than steel and a light cut





Cutting Mild Steel or Cast Iron Fig. 5

0 Cutting Carbon Steel

SETTING THE TOOL TO THE WORK

Cuts, especially heavy ones, should always be made toward the headstock.

Cuts, especially heavy ones, should always be made toward the headstock. In this way most of the pressure is toward the live center which revolves with the work. Cutting toward the tailstock puts a heavy additional pressure on the tailstock center and is quite likely to damage the center.

The type of tool holder, and the way it is set into the work, should always be such that it tends to swing away from the work on heavy cuts. When cutting at an angle with the compound rest, the tool should be set at a right angle to the surface of the cut, not at a right angle to the center line of the lathe.

Facing cuts represent different cutting relations and tool angles, and tools should preferably be special ground, for that purpose. Smoother cutting and a finer finish can be obtained generally by cutting toward the outside—that is, feeding from the center of work out.

If the tool is ground properly, the point of the tool will not have to be set above or below the center line of the work, but should be set on the center line.

INDEXING

The spindle pulley is provided with 60 indexing holes which may be engaged by means of the knurled pin on the upper right end of the headstock. These indexing holes are useful for such operations as spacing, fluting, reeding, serrating, sprocket and spoke-spacing, etc.

INDEXING TABLE

Divisions Desired 1 2 3 4 5 6 10 12 15 20 30 60 No. of Spaces 60 30 20 15 12 10 6 5 4 3 2 1 Degrees of Arc 360 180 120 90 72 60 36 30 24 18 12 6

THREADING*

Only the operation connected with the cutting of the 60 degree thread

will be described.

After the work has been properly prepared for threading, set the com-After the work has been properly prepared for threading, set the compound rest at a 29 degree angle so that the tool bit faces in the direction the carriage will travel. Mount the tool holder in the tool post so that the point of the tool is exactly on the lathe center line—tighten the tool post screw just enough to hold the tool holder. Then use a center or thread gauge to set the tool point at an exact right angle to the work. Tap lightly on the back of the tool holder when bringing into position. With the tool point at an exact right angle to the work, recheck center line position and tighten tool post screw.

Check the change gear assembly and the tumbler gear lever so that the carriage will move in the proper direction. Adjust belts for a speed of 54 R.P.M.

Set the compound rest approximately in the center of its ways and advance the cross feed so that it is set at 0 with the tool close to the work. With the point of the tool about an inch to the right of the start of the thread, advance the tool with the compound rest so that the first cut will be about .003 inch.

Start the lathe and engage the half-nut lever on the carriage. Apply

Starf the lathe and engage the nair-nut lever on the carriage. Apply plenty of lubricant to the work. When the tool point has traveled the desired length along the work, raise the half-nut lever, back out the cross feed a turn or two, and return the carriage by hand to the starting point. Advance the cross feed to its original position at 0, advance the compound rest for the desired depth of cut, and engage the half-nut lever for the second cut. All feeding is done with the compound rest. Follow the same routine on all succeeding cuts.

RULES FOR THE USE OF THE THREADING DIAL

When cutting on even-numbered thread such as 8, 10, 12, 14, etc., (per inch), engage the half-nut lever when the stationary mark on the threading dial is in line with any one of two opposing marks on the rotating dial. When cutting any other threads (9, 11, 13 and 27 per inch) engage the half-nut lever when the stationary mark on the threading dial is in line with the same mark on the rotating dial.

Precautions: Never disengage the half-nut lever in the middle of the thread without first backing out the tool with the cross-feed.

LUBRICATION CHART

See Fig. 7

NOTE: Oilless Bronze Bearings are used in the headstock of this lathe and lubrication takes place by oil seepage through the porous bushing wall thus assuring a filtered lubricant.

DO NOT DRILL HOLES THRU THE BUSHINGS.

Use No. 10 motor oil or equivalent throughout unless otherwise specified. Place a few drops of oil on the rockershaft bearings and cam every time the lathe is in use.

2. Countershaft Bearings-Oil every time lathe is used.

3. Motor Bearings—Sleeve type motors have two oil cups which should be filled once a week with S.A.E. No. 10 motor oil or equivalent. Ball bearing motors have a sealed-in type bearing—every six months the small headless screw in these bearings should be removed and a moderate quantity of automotive cup grease forced around the bearings.

4. Left and Right Headstock Bearings-Oil every time the lathe is used.

5. Spindle Pulley—Every time the lathe is used in back gear, remove the small screw in the bottom of the second step of the idler pulley and oil freely. Replace screw.

6. Spindle Thrust Bearing—Oil every time lathé is used.

7. Back Gears and Change Gears—A small amount of grease, preferably graphite grease, applied to the gear teeth will aid in obtaining smoother, more quiet operation.

8. Change Gear Bearings-Put a few drops of oil on the change gear bear-

9. Lead Screw Bearings (left and right)—Put a few drops of oil in the oil hole of the bearing every time the lathe is used. Carriage Traverse Gear Bracket—Every time lathe is used put a few drops of oil in oil hole on top of gear bracket on back of carriage apron.

II. Carriage Handwheel Bearing-Put a few drops of oil in oil hole every

12. Half-nut Lever Bearing-Put a few drops of oil in the oil hole every time

13. Lead Screw — About once a month clean the lead screw threads with kerosene and small stiff brush and apply a small amount of oil. 14. Rack (on bed, under front way)—About once a month apply a small amount of cup grease to the rack after cleaning with kerosene and a small stiff brush.

15. Place a few drops of oil between the handwheel and screw bearing when

16. Tailstock Ram-Keep the outside surface of the tailstock ram well oiled. 17. Lathe Bed Ways-Keep the lathe bed ways oiled at all times and free from chips. Wipe off the ways before using and cover with fresh oil. Always leave a generous film of oil on the ways when the lathe is not in use. The lathe should be completely covered when not in use.

18. Compound Slide Screw—Every time lathe is used put a few drops of oil between the graduated collar and bearing plate and on the threads.

19. Cross Slide Screw—Put a few drops of oil in the oil hole above the front cross slide screw bearing after removing the small screw. Replace the screw. This should be done every time the lathe is used. Clean the cross slide screw regularly with a small stiff brush. Oil the screw threads by running compound rest back and forth.

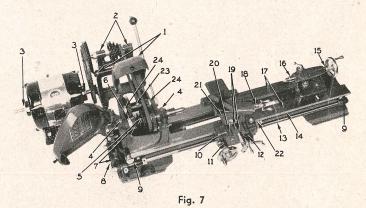
20. Cross Slide Ways-Clean regularly and apply a liberal quantity of oil to the ways whenever the lathe is used.

21. Compound Slide Ways—Clean regularly and apply a liberal quantity of oil to the ways whenever the lathe is used.

22. Thread Dial-Once a week put a few drops of oil around the rim of the

23. Back Gear Spindle—Every time the back gears are used, remove the small screw in the center of the back-gear spindle and oil freely. Replace

24. Back Gear Eccentrics (right and left)—Oil occasionally.



NOTE: For more complete information regarding the operation of metal-cutting lathes refer to the Sears' Manual of Lathe Operation listed in our Catalog. A complete line of accessories are available for this lathe. Write for information.

*Complete information for thread cutting and coil winding operations are contained in the "Threading Information" booklet supplied with this Lathe.

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PRICES IN EFFECT AT TIME OF SHIPMENT WILL APPLY

INVOICE NUMBER

CLAUSING Service Center GOSHEN, INDIANA, U.S.A.

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TERMS- NET UPON RECEIPT OF GOODS

SHIP

CONTENTS: Merchandise-Fourth Class Mail. POSTMASTER: This parcel may be opened for postal inspection. Return and forwarding postage guaranteed. If not delivered in ten days, check reason for non-delivery and return to us. If refused return at once.

	OLD TO				CARRIER		DATE SHIPPED	
OCATION-	QUANTITY		Y	PART NO.	DESCRIPTION			
	ORDERED	SHIP	B/O	PAHI NU.	2/			
18 2		(Palacene)	5	M6-243A M1-243X	GEAR ASSY REPLACES M6-243A	73.36	73.36	
0 3	1)	0	M6-100-32	GEAR, 32T	6.07	6.07	
ir 3	1	(Casements)	٥	M6-241 M6-241X	BACK GEAR ASSY (LARGE) REPLACES M6-241	19.53	19.53	
				TAX			4.95	
			and the second				103.91	TOTAL

PACKING SLIP