

WYSONG AND MILES COMPANY

GREENSBORO, NORTH CAROLINA

PARTS LIST AND ILLUSTRATIONS

POWER SQUARING SHEAR NO. 1452

When ordering parts or literature, please refer to the model and serial number of your machine. The serial number will be found stenciled on the table outside the right-hand side gauge.

April 1964

Reprint, September 1966

PARTS LIST FOR NO. 1452 POWER SHEAR

<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
1	End Frame (Right-Hand)	S52-46
1	End Frame (Left-Hand)	S52-47
	<u>Table Assembly</u>	
1	Table	S52-16
2	Table Adjusting Lugs	S52-21
2	Locking Plates (Table Bolts)	S52S-12
2	Locking Plates (Table Bolts)	S52S-13
2	Table Extensions	7K-61
2	Side Gauges	SGS-12
2	Dowel Pins	7ES-106
1	Ramp Plate	S52S-42
2	Ramp Plate Supports	S52S-43
1	Front Cover	S52S-44
2	Disappearing Stops	S12S-55A
1	Angle Gauge	5Y-66
8	Table Bolts, 7/8" x 5" long	
1	Table Plate	S52S-82
	<u>Knife Bar Assembly</u>	
1	Knife Bar	S52-40
2	Take-Up Gibs	S52S-11
2	Take-Up Gib Locating Studs	7HS-82
1	Tension Rod	S52S-74
1	Tension Rod Stud	7GS-43
2	Eyebolts	S36S-18
2	Blades (3" x 5/8" x 53")	
20	Blade Bolts (1/2" x 2-1/2")	
2	Knife Bar Gibs	S52-19
2	Knife Bar Take-Up Wear Plates (Micarta)	S52S-76
2	Knife Bar Main Wear Plates (Micarta)	S52S-77
	<u>Motor Assembly</u>	
1	Motor - 1800 RPM, 2 HP, #184 Frame	
1	Motor Base	S52S-20
1	Motor Base Bracket	S52S-25
1	Motor Adjusting Screw Bracket	S52S-26
1	Motor Base Pivot Shaft	S52S-27
1	Adjusting Screw Pivot Shaft	S52S-28
1	Motor Base Adjusting Screw	S52S-29
4	Truarc Rings (Motor Base Pivot Shaft, Adjusting Screw Pivot Shaft)	5100-62
1	Drive Pulley, 2 grooves, "A" Belt, 3.8" P.D., #1615 Bushing, 7/8" Bore, 3/16" Square Key	
2	A-Belts	A-53
1	Magnetic Starter, Size 0	
1	Flywheel	S52-10
1	Flywheel Key, 1/2" x 1/2" x 3" long	

PARTS LIST FOR NO. 1452 POWER SQUARING SHEAR

<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
	<u>Gear Box Assembly</u>	
1	Gear Case	S52-1
1	Housing Indicator Cover	S52-39
1	Gear Case Cover	S52-2
1	Gear Case Cover Bushing	S52-13
1	Hand Hole Cover	S52-3
1	Bull Gear Retaining Ring	S52S-94
1	Crown Bull Gear Retaining Ring	S52S-95
1	Bull Gear	S52-5
1	Thrust Plate	Aetna W-33
1	Bull Gear Bushing	S52-12
1	Clutch Drive Plate	S52S-8
1	Clutch Driven Plate	S52S-7
1	Clutch Release Cam	S52S-51
4	Springs (Clutch)	B-70
1	Non-Repeat Cam	S52-11
4	Clutch Spring Studs	S12S-9
1	Thrust Bearing	Aetna F-33
2	Clutch Driving Keys	S12S-20
1	Pinion Shaft	<u>S52S-6</u>
1	Bearing (Pinion Shaft) - Fafnir	9112K
1	Lock Washer	W-12
1	Lock Nut	N-12
1	Pinion Shaft Bearing Support	S52-4
1	Bearing (Pinion Shaft Flywheel End)	SKF 6210
1	Lock Washer	W-10
1	Lock Nut	N-10
1	Oil Seal (Victorprene)	60730
1	Pinion Shaft Bearing Cap	S12-5
1	Lock Washer	W-08
1	Lock Nut	N-08
1	Pawl Engaging Plunger	S52S-10
1	Engaging Plunger Guide	7Y-20
1	Lock Pin	7KS-96
1	Pin Guide	7KS-97
1	Spring (Foot Treadle Lock)	B-58
1	Clutch Bracket	S12-4
1	Clutch Bracket Spring Cap	S12S-13
1	Lifting Lever Shifting Arm	8H-21
1	Non-Repeat Arm	S52-9
1	Non-Repeat Pawl Lifting Lever	S52-6
1	Non-Repeat Arm Pivot Shaft	S52S-2
1	Non-Repeat Sleeve	S12S-19
2	Non-Repeat Sleeve Bushings	8H-22
1	Non-Repeat Shifting Knob	8HS-52
1	Non-Repeat Sleeve Retaining Collar	8HS-88
1	Non-Repeat Arm Roller	7KS-41

PARTS LIST FOR NO. 1452 POWER SQUARING SHEAR

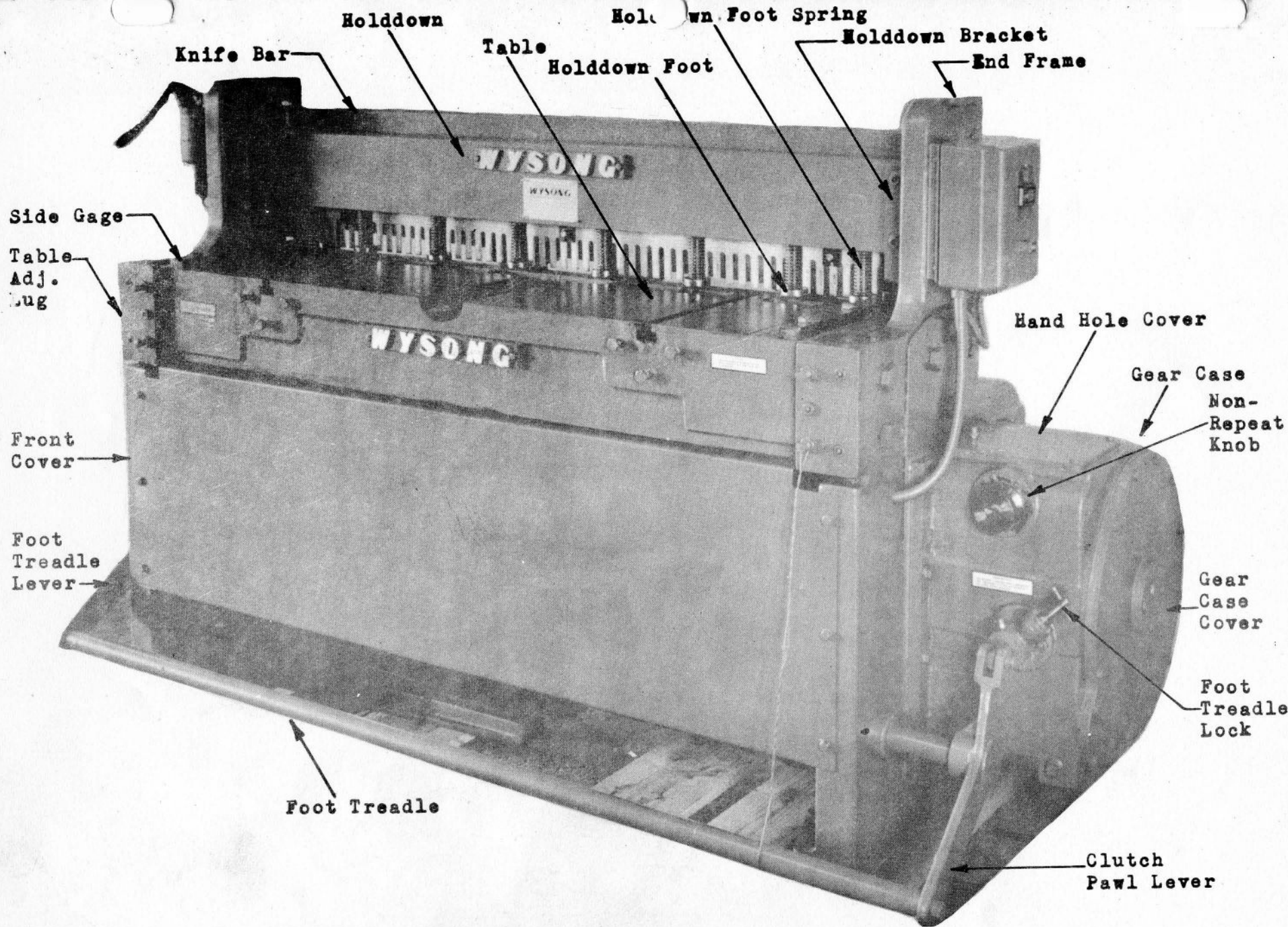
<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
<u>Gear Box Assembly (Continued)</u>		
1	Non-Repeat Roller Stud	S52S-103
1	Non-Repeat Pawl	8FS-44
1	Pawl Slide Pin	8FS-45
1	Lifting Lever Shifting Stud	S52S-4
1	Shifter Arm Shaft	S52S-5
1	Cam Retracting Slide	S12S-80
1	Cam Roller	S12S-81
1	Pawl Retaining Collar	8HS-38
1	Pawl Lifting Stud	8HS-41
1	Pawl Striking Stud	8HS-48
1	Non-Repeat Sleeve Retaining Collar	8HS-45
1	Ball Spring Retaining Plug	8HS-50
1	1/2" Dia. Steel Ball	
1	Spring (Cam Retracting Slide)	B-19
1	Spring (Lifting Lever)	B-37
2	1/4" x 1" Woodruff Keys	#808
1	Key, 1/4" Sq. x 2-1/4" long	
2	Truarc Rings	5100-62
3	Truarc Rings	5100-100
1	Oil Deflector	S52-35
1	Top Center Indicator	S52S-49
1	Bijur Window Unit	B-5104
<u>Holddown Assembly - Solid Feet</u>		
1	Holddown	S52S-58
8	Holddown Feet	S52S-59
2	Holddown Brackets	S52S-60
16	Lifting Lugs	S52S-61
8	Lifting Bars	S62S-62
1	Guide Strip	7SS-27
1	Finger Guard	7SS-28
4	Finger Guard Clips	S10S-116
4	Holddown Springs (Middle)	B-74
8	Truarc Rings	5100-87
8	1/2" Flexloc Nuts	
4	Holddown Springs (Outside)	B-101
8	Springs	B-105
8	Springs	B-50
<u>Holddown Assembly - Swivel Feet</u>		
16	Lifting Lugs	S52S-61
8	Holddown Pins	S52S-78
2	Holddown Brackets	S52S-79
8	Lifting Bars	S52S-80
1	Holddown	S52S-81
1	Finger Guard	7SS-28
8	Holddown Feet	7SS-94
8	Ball Sleeves	7SS-96
1	Guide Strip	7SS-98
4	Finger Guard Clips	S10S-116
16	Steel Balls	3/8" Dia.

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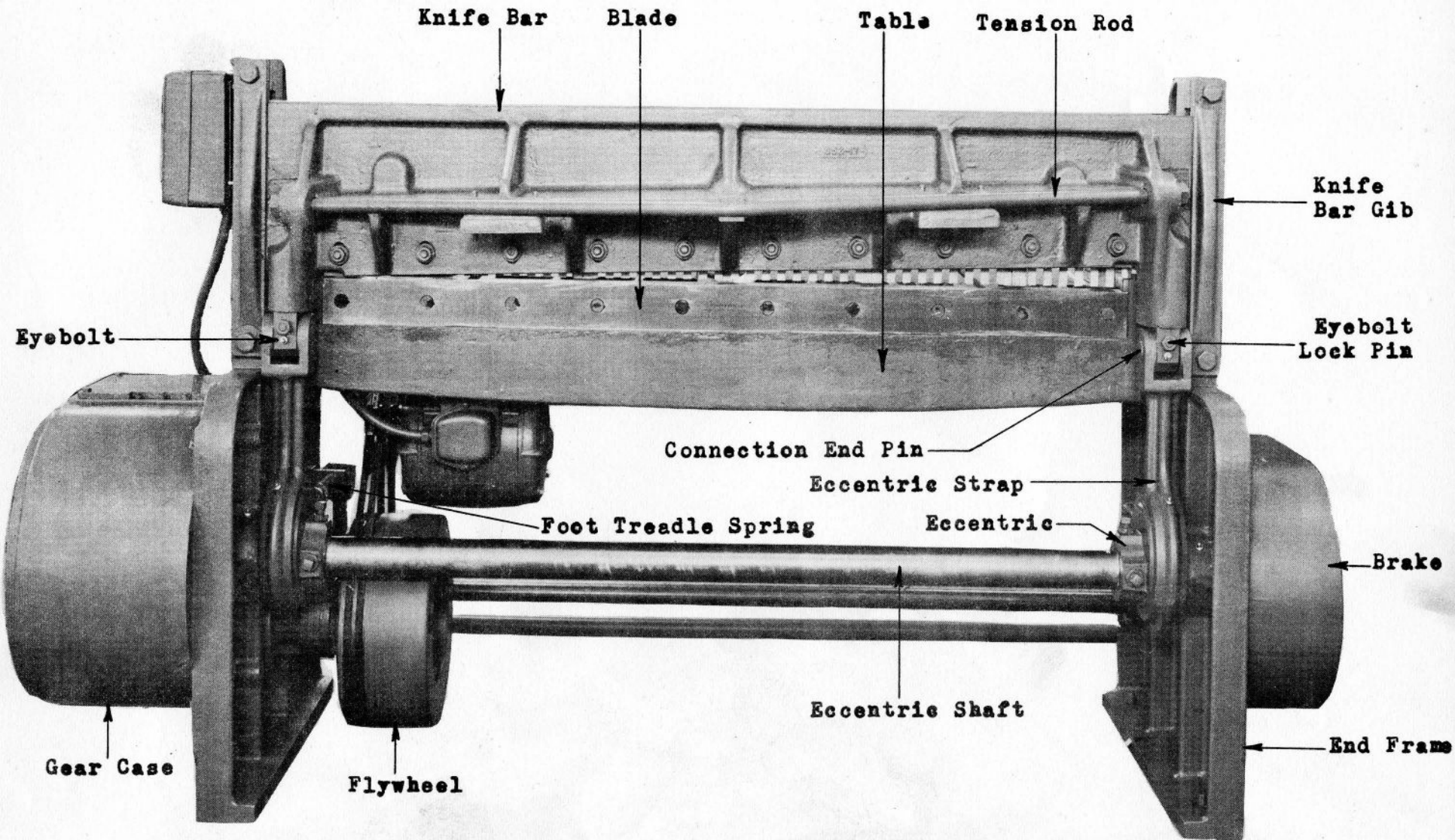
<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
	<u>Eccentric Shaft Assembly</u>	
1	Eccentric Shaft	S52S-18
2	Eccentric Straps	S52-27
2	Eccentric Strap Bushings	S52-26
1	Eccentric Shaft Bearing (Right-Hand)	S52-8
1	Eccentric Shaft Bearing Bushing	S52-8B
1	Eccentric Shaft Bushing (Left-Hand)	S52-28
1	Eccentric (Left-Hand)	S52-22
1	Eccentric (Right-Hand)	S52-23
2	Connection End Pins	7YS-21
2	Connection End Locking Pins	7YS-22
2	Eccentric Keys	S52S-19
	<u>Foot Treadle Assembly</u>	
1	Shaft (Treadle)	S52S-16
1	Foot Treadle	S52S-17
1	Foot Treadle Lever	S52-24
1	Clutch Pawl Lever	S52-25
1	Foot Treadle Spring Lever	S52-20
1	Foot Treadle Collar	7JS-66
1	Bracket (Spring Guide)	7KS-99
2	Foot Treadle Plugs	7KS-50
1	Treadle Spring Eyebolt	S52S-14
1	Spring (Treadle Spring Eyebolt)	B-8
1	Pawl Lever Stud	8HS-56
2	Truarc Rings	5100-62
	<u>Brake Assembly</u>	
1	Brake Drum	S52-30
1	Female Brake Shoe	S52-31
1	Male Brake Shoe	S52-32
1	Brake Arm	S52S-35
1	Pivot Stud (Brake Arm)	S52S-37
1	Brake Cover	S52S-36
1	Spring Stud	S10S-76
1	Brake Arm Spacer	S10S-91
2	Spring Stud Washers	8HS-102
1	Male Brake Shoe Stop	8HS-104
1	Brake Drum Clamping Sleeve	S52S-30
1	Clamping Sleeve Collar	S52S-31
1	Brake Pivot Stud	S52S-32
1	Brake Pivot Stud Washer	S52S-33
1	Brake Cam	S52S-34
1	McGill Cam Follower	CF-1-3/4
1	Aetna Thrust Washer	W-33
1	Spring	B-21
2	Brake Linings - 1/4" x 2" x 14-1/8"	
12	Brass Flat Head Machine Screws	10-32 x 1/2"
2	Truarc Locks	5100-87
1	Grease Seal (Victorprene)	60914

PARTS LIST FOR NO. 1452 POWER SQUARING SHEAR

<u>QUANTITY</u>	<u>NAME OF PART</u>	<u>PART NUMBER</u>
	<u>Back Gauge Assembly - Micrometer</u>	
2	Rails	S52-34
1	Left-Hand Gear Housing	7H-417
2	Slides	7H-172
1	Clutch Shoe	7H-173
2	Driving Nuts (Stationary)	7H-200
2	Driving Nuts (Adjustable)	7H-201
1	Back Gauge Indicator	7H-202
1	Right-Hand Gear Housing	7H-431
1	Dial	7H-405
1	Pointer	7H-408
4	Slide Gibs	7HS-105
1	Handle	7HS-107
2	Washers	7HS-110
2	Screw Thrust Collars	7HS-112
2	Screw Miter Gears	7HS-113
1	Horizontal Miter Gear - Right-Hand	7HS-114
1	Horizontal Miter Gear - Left-Hand	7HS-115
1	Dial Adjusting Plate	7HS-122
2	Slide Screws	7HS-160
1	Horizontal Drive Shaft (Short)	7HS-595
1	Clutch Drum	7HS-168
2	Shoulder Screws	7HS-170
1	Rail Bushing	7HS-171
1	Left-Hand Gear Housing Cap	7HS-247
2	Slide Extensions	7HS-536
1	Measuring Dial	7HS-455
1	Locking Ring	7HS-484
1	Stop Gauge Adjusting Stud	7HS-386
1	Horizontal Drive Shaft (Long)	7HS-190
1	Back Stop Angle	7HS-184
1	Clamp Block	7HS-544
1	Clamp Stud	7HS-545
1	Locking Handle	7HS-546
1	Locking Block	7HS-547
2	Collars for Shoulder Screws	7HS-511
1	Spring	B-9
2	Thrust Bearings	F-5-3/4
2	Bearings	ND 88503
2	Bearings	ND 88504
1	Bearing	SKF 6206RS



FRONT VIEW



REAR VIEW

FOOT TREADLE LEVER

FOOT TREADLE SHAFT

PEDAL SPRING
GUIDE BRACKET

PEDAL SPRING EYEBOLT

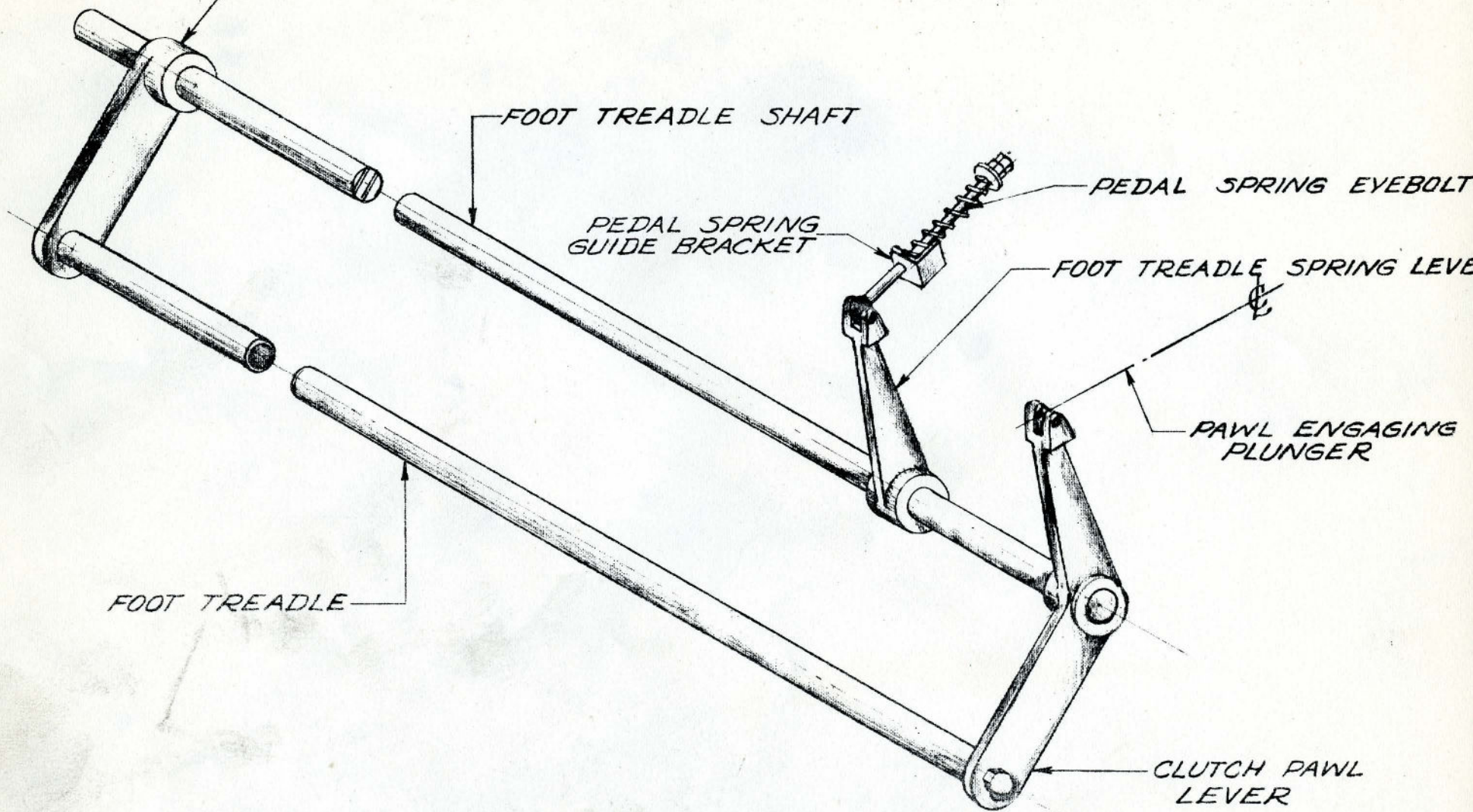
FOOT TREADLE SPRING LEVER

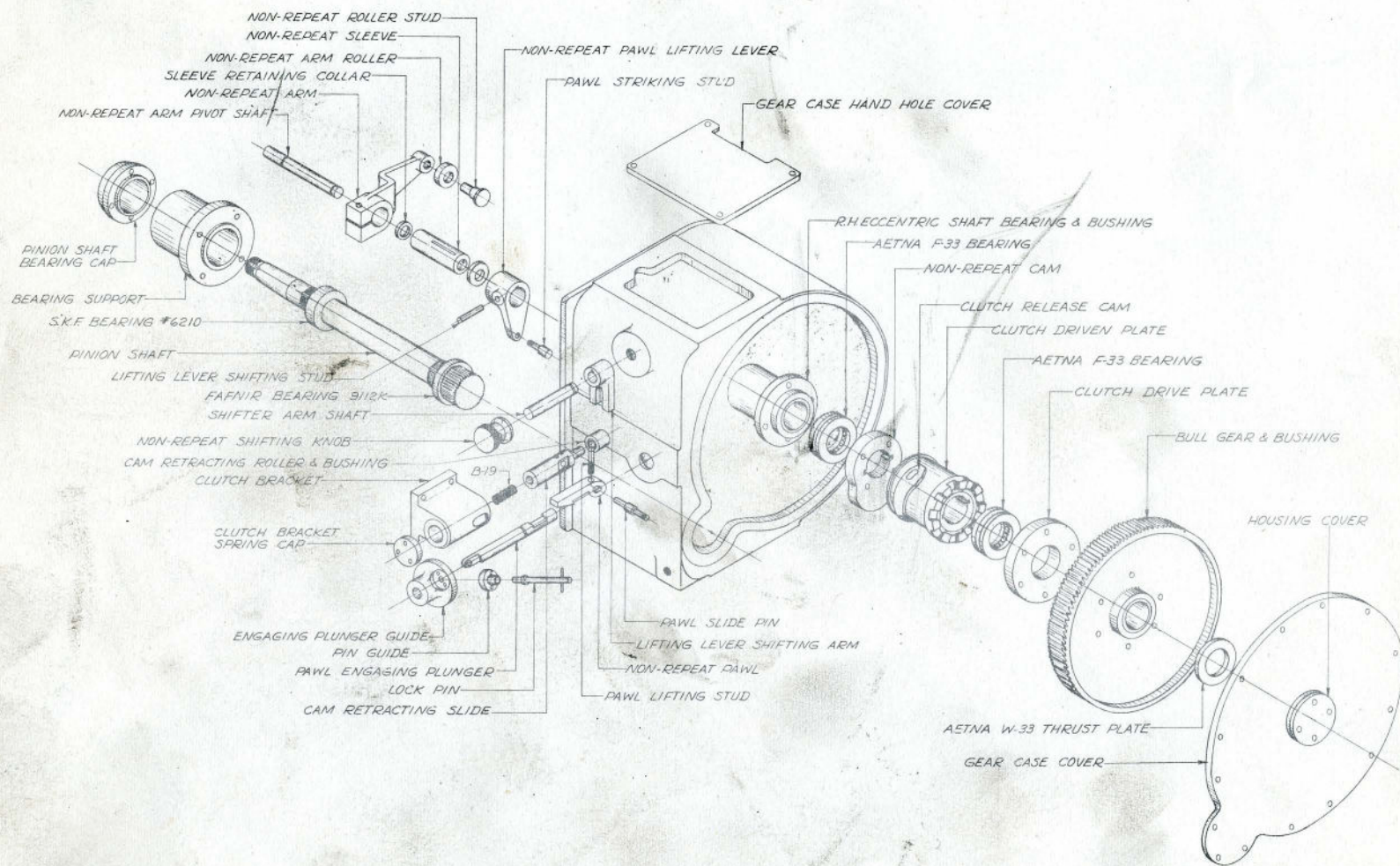
PAWL ENGAGING
PLUNGER

FOOT TREADLE

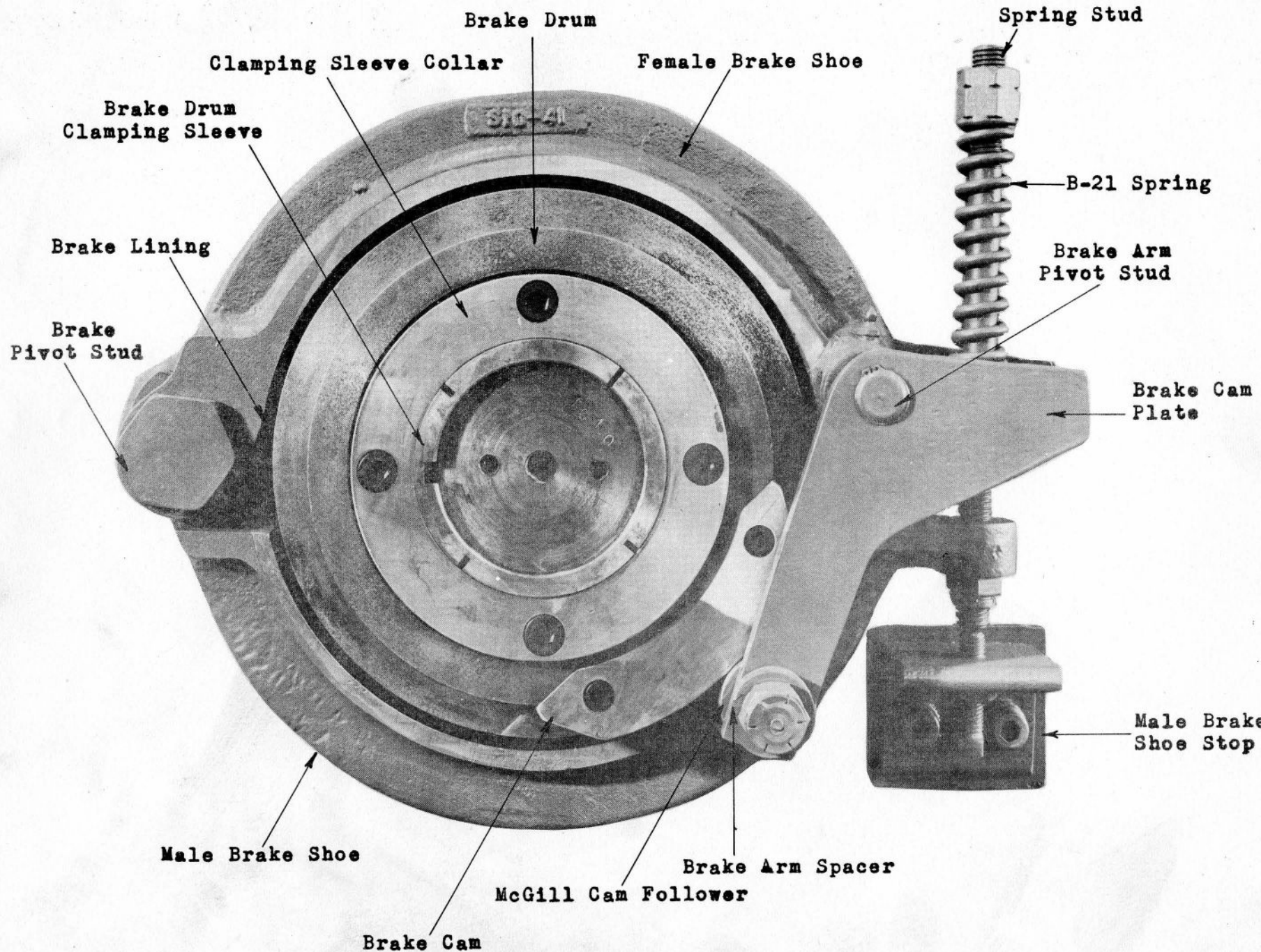
CLUTCH PAWL
LEVER

FOOT TREADLE ASSEMBLY



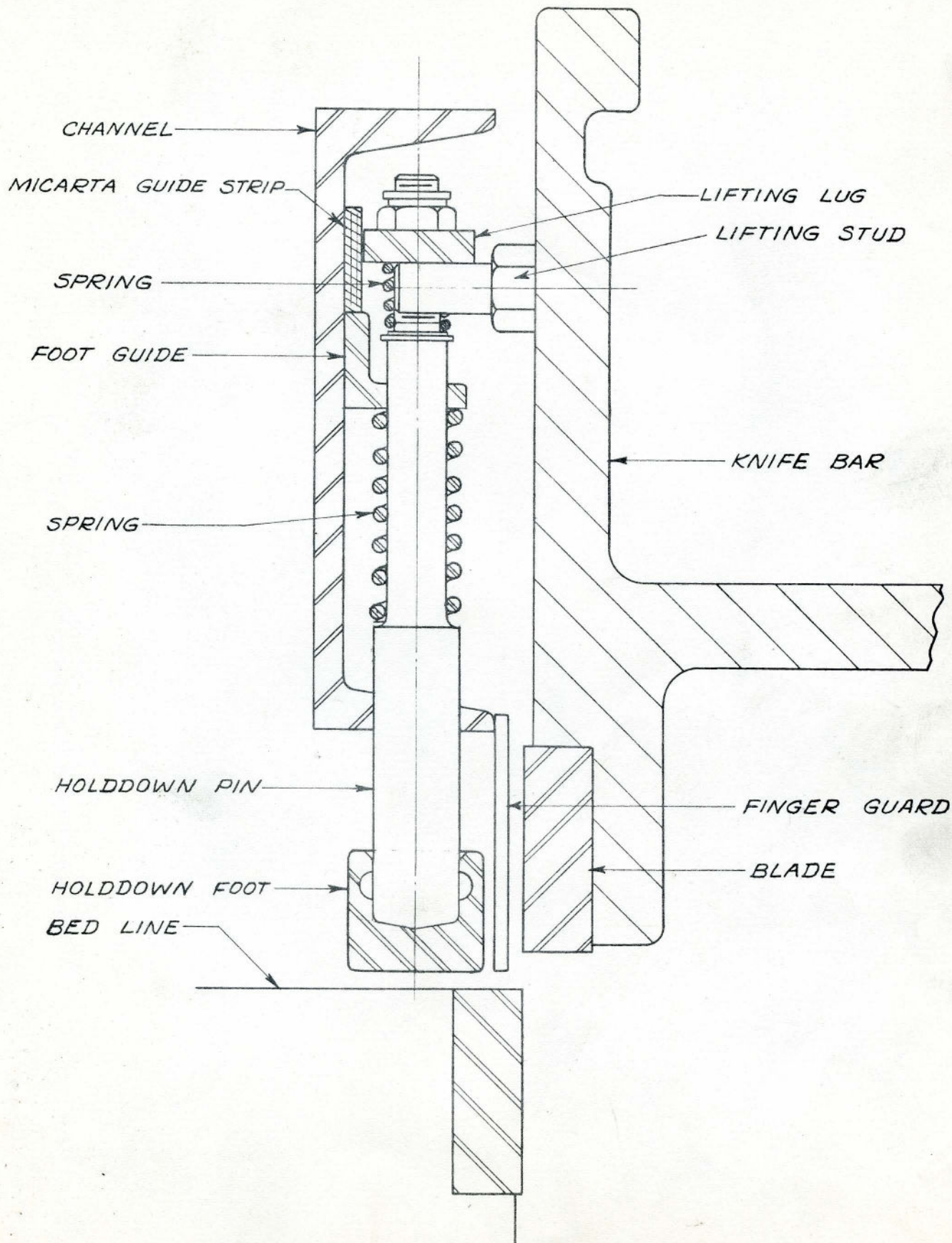


GEAR BOX UNIT

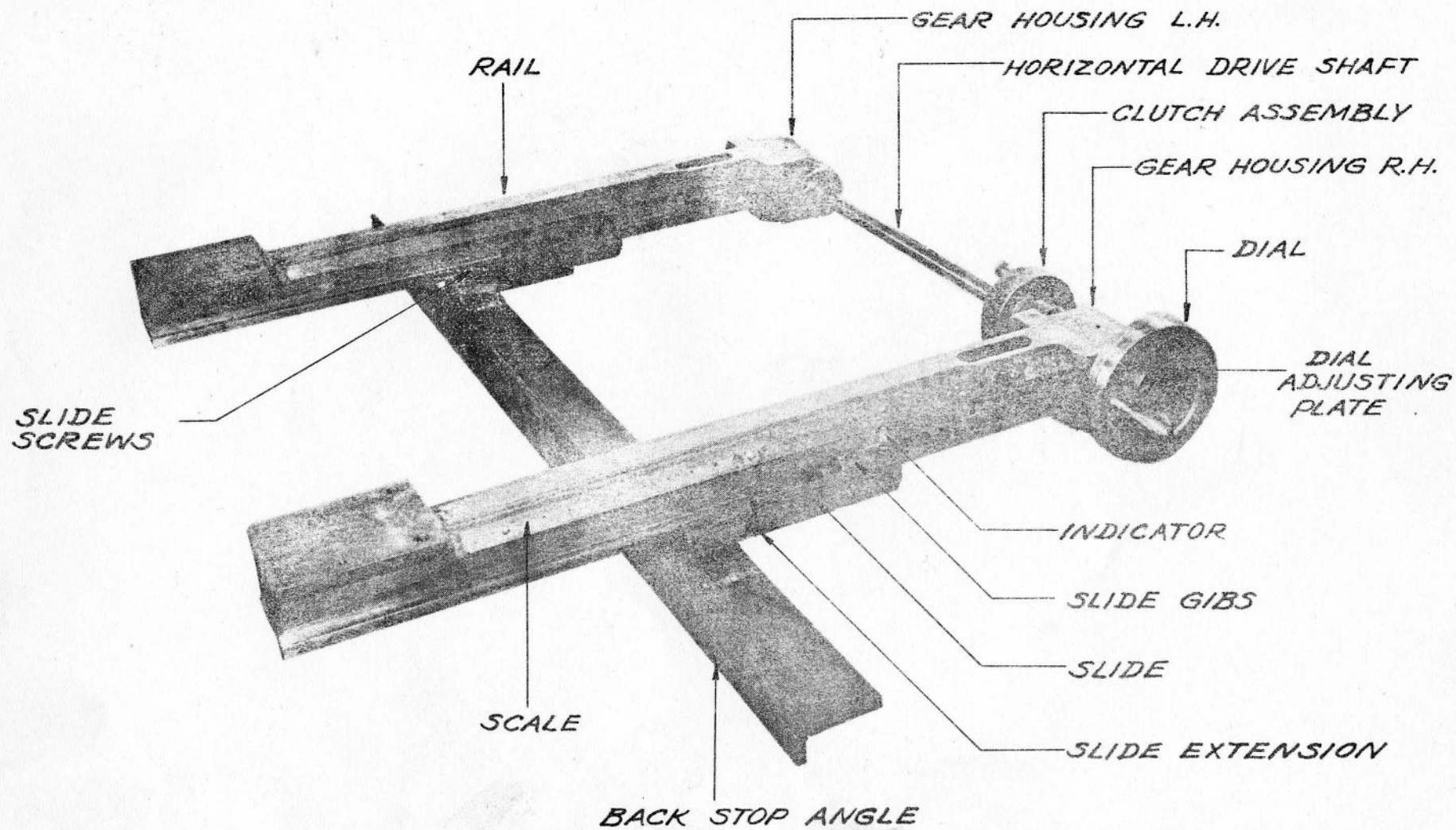


INTERMITTENT TYPE BRAKE

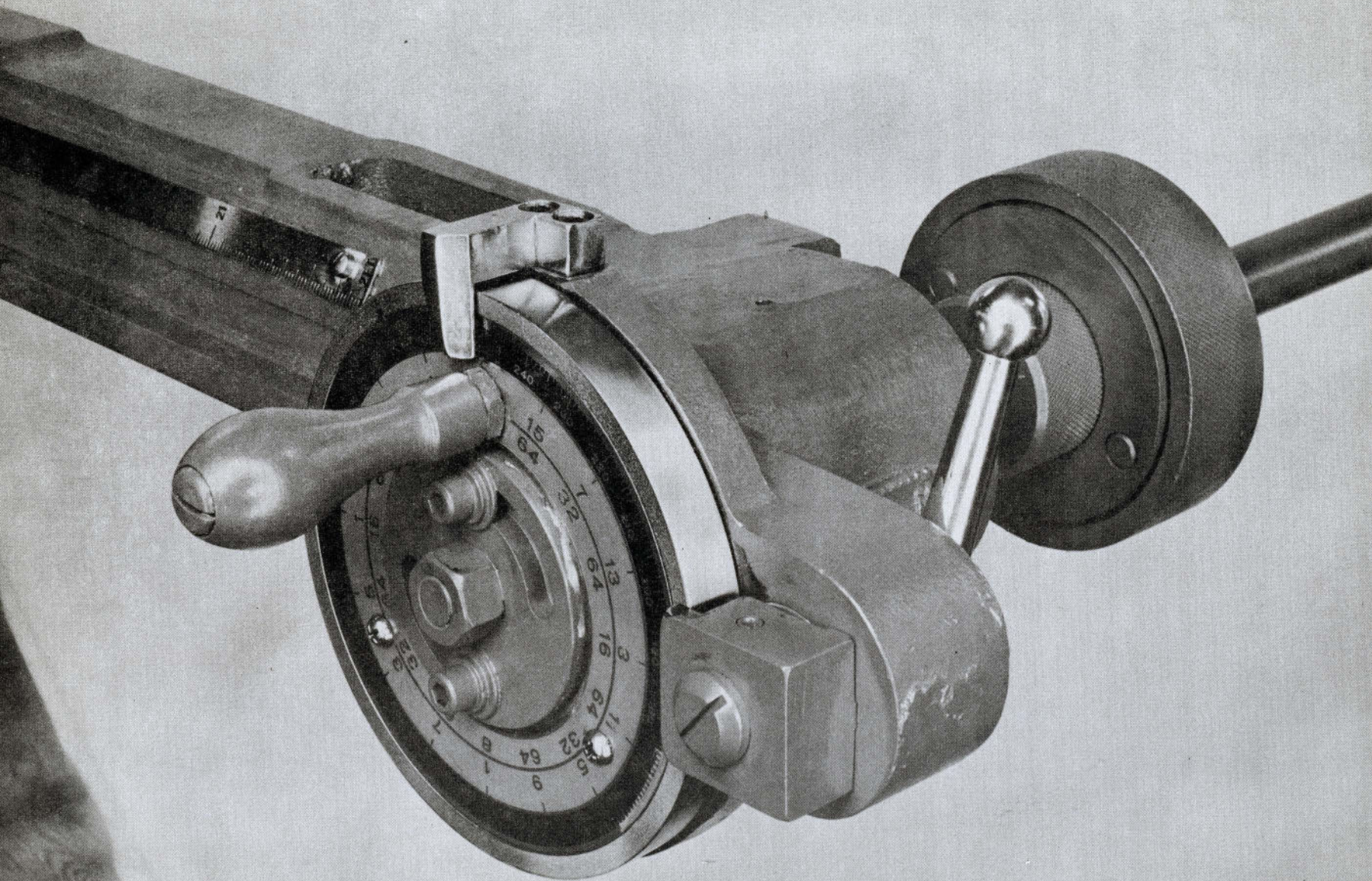
NOTE: New Snap-On Holddown Feet standard on all power shears.
Holddown Feet with rubber inserts available at extra cost.



LAYOUT OF TYPICAL HOLDDOWN ASSEMBLY
FOR MACHINES THROUGH 1010-RD

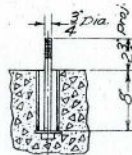


BACK GAUGE ASSEMBLY

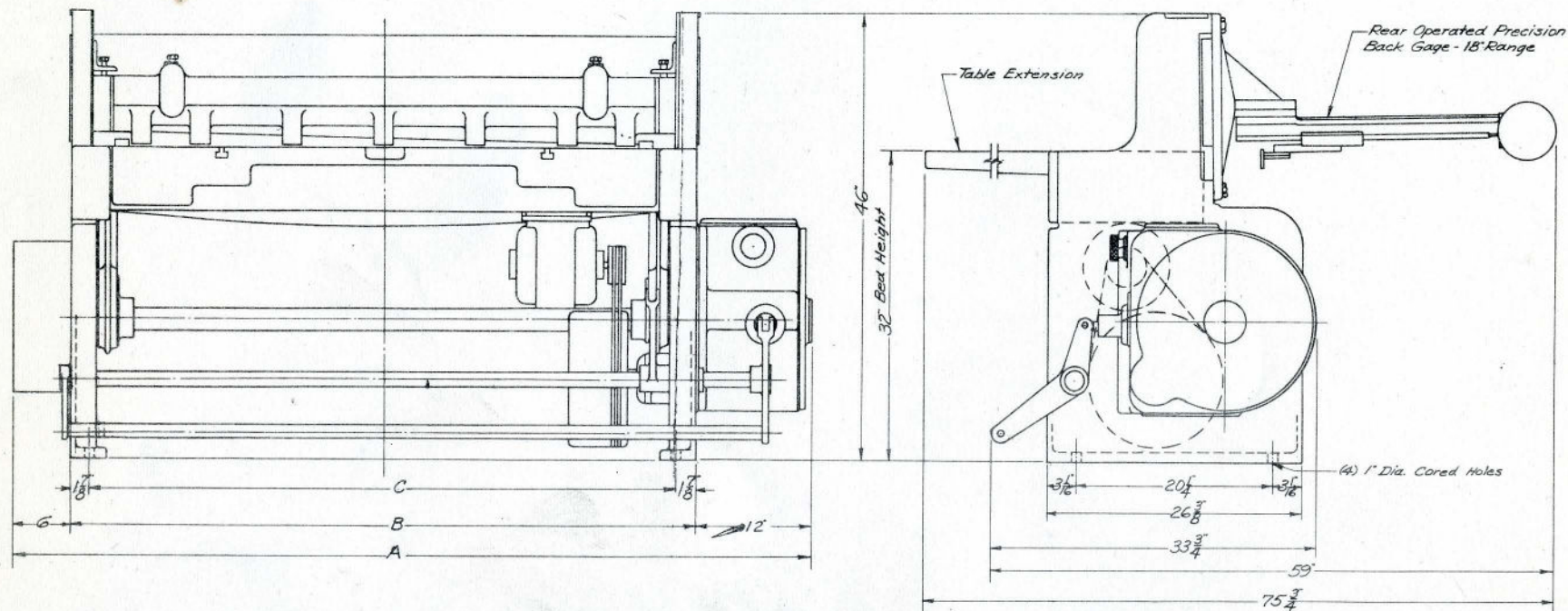


ALL REAR OPERATED BACK GAUGES ARE CALIBRATED IN THOUSANDTHS WITH THE FRICTION LOCKING DEVICE AS ILLUSTRATED ABOVE.

Note: Foundation holes are cored, therefore are approximate. See sketch for method of setting anchor bolts.



Insert 2" pipe on centers as shown before pouring concrete.



MACH.	A	B	C
1224	55"	37"	33-1/4"
1436	67"	49"	45-1/4"
1452	82-1/2"	64-1/2"	60-3/4"
616	102-1/2"	84-1/2"	80-3/4"

FLOOR PLAN
Nos. 1224, 1436, 1452, & 616 Shears