

**THE
CARLTON
MACHINE TOOL CO.
CINCINNATI, OHIO, U. S. A.**

Wholesale By
**J. F. OWENS MACHINERY CO.
MACHINE TOOLS
1810 Erie Blvd. East Syracuse, N. Y.
5-2632 - PHONE - 5-2633**

RADIAL DRILLS

MACH. NO 1A-1248

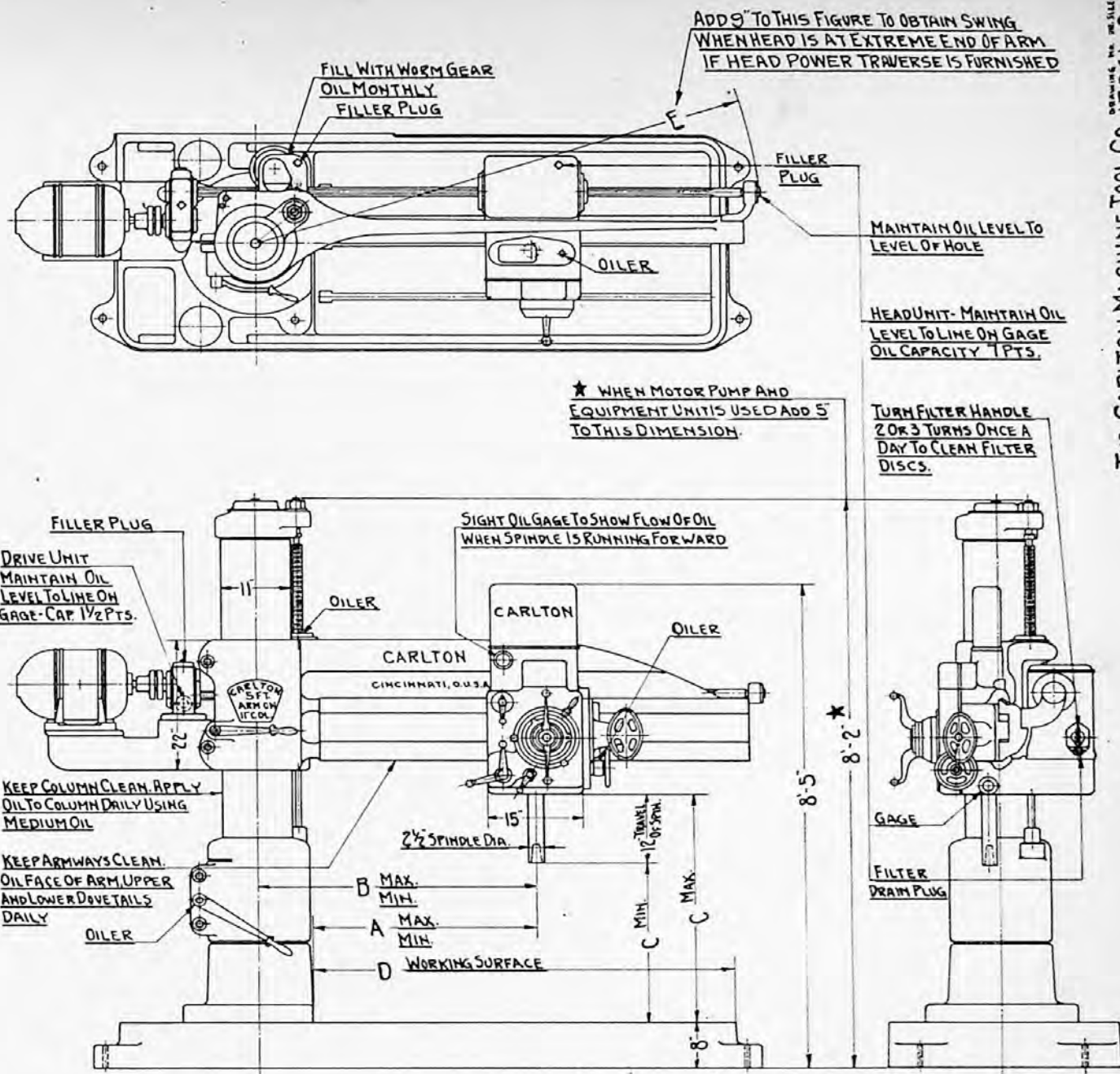
SHIPPED 9-5-42

I DO the very best I know
how-the very best I can;
and mean to keep doing so
until the end.

If the end brings me out
all right, what is said against
me won't amount to anything.
If the end brings me out
wrong, ten angels swearing
that I was right would make
no difference.

Abraham Lincoln

THE CARLTON MACHINE TOOL COMPANY, CINCINNATI, OHIO, U. S. A.



WE RECOMMEND DRAINING OIL FROM
UNITS EVERY SIX MONTHS & REFILLING
WITH S.A.E. 30 OR THE EQUIVALENT.

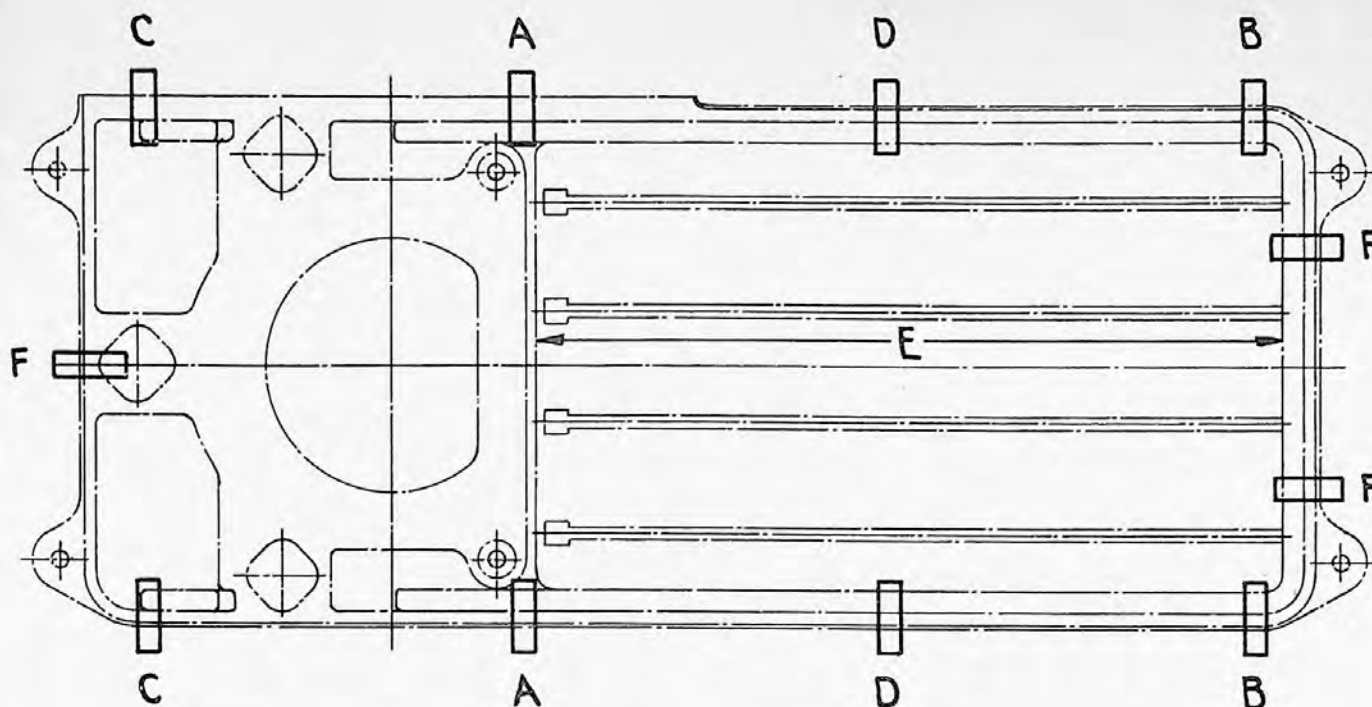
WHEN DRILL IS RUNNING OIL MAY DROP BELOW OIL
LEVEL LINE ON GAGE DUE TO CIRCULATION OF OIL. CHECK
OIL LEVEL AND REFILL ONLY WHEN DRILL IS STOPPED.
FILL OILERS WEEKLY.

SIZE			3 Ft.	4 Ft.	5 Ft.	6 Ft.
A	FACE OF COLUMN TO	MAXIMUM	3'-0"	4'-0"	5'-0"	6'-0"
	CENTER OF SPINDLE	MINIMUM	9"	9"	9"	9"
B	MAXIMUM SPINDLE RADIUS		3'-8 1/2"	4'-8 1/2"	5'-8 1/2"	6'-8 1/2"
	MINIMUM SPINDLE RADIUS		17 1/2"	17 1/2"	17 1/2"	17 1/2"
C	MAXIMUM SPINDLE TO BASE		4'-7 1/4"	4'-7 1/4"	4'-7 1/4"	4'-7 1/4"
	MINIMUM SPINDLE TO BASE		14 3/4"	14 3/4"	14 3/4"	14 3/4"
D	WORKING SURFACE	WIDTH	3'-0"	3'-0"	3'-0"	3'-0"
	OF BASE	LENGTH	3'-6"	4'-6"	5'-6"	6'-6"
E	SWING OF ARM		57"	69"	81"	93"
	MORSE TAPER IN SPINDLE		*4	*4	*4	*4
	TRAVEL OF ARM ON COLUMN		2'-4 1/2"	2'-4 1/2"	2'-4 1/2"	2'-4 1/2"
	TRAVEL OF HEAD ON ARM		2'-3"	3'-3"	4'-3"	5'-3"
	DRILLS TO CENTER OF CIRCLE		6'-0"	8'-0"	10'-0"	12'-0"
	FEEDS - 6		.006 To .025	.006 To .025	.006 To .025	.006 To .025
	SPINDLE TRAVEL		12"	12"	12"	12"
	12 SPINDLE SPEEDS		60 To 1500 R.P.M.	80 To 2000 R.P.M.	120 To 3000 R.P.M.	
	HORSE POWER OF DRIVING MOTOR		5	5	5	5
	PLAIN TABLE - WORKING SURFACE & HEIGHT		18"x24"x18" HIGH	18"x24"x18" HIGH	18"x24"x18" HIGH	18"x24"x18" HIGH
	UNIVERSAL TABLE - WORKING SURFACE & HEIGHT		20"x20"x22" HIGH	20"x20"x22" HIGH	20"x20"x22" HIGH	20"x20"x22" HIGH
	NET WEIGHT OF MACHINE (APPROXIMATELY)		7700*	8400*	9100*	9800*

DRAW. 570. PR. 512

17261 C

THE CARLTON MACHINE TOOL CO. 17261 C
CINCINNATI, O.U.S.A.



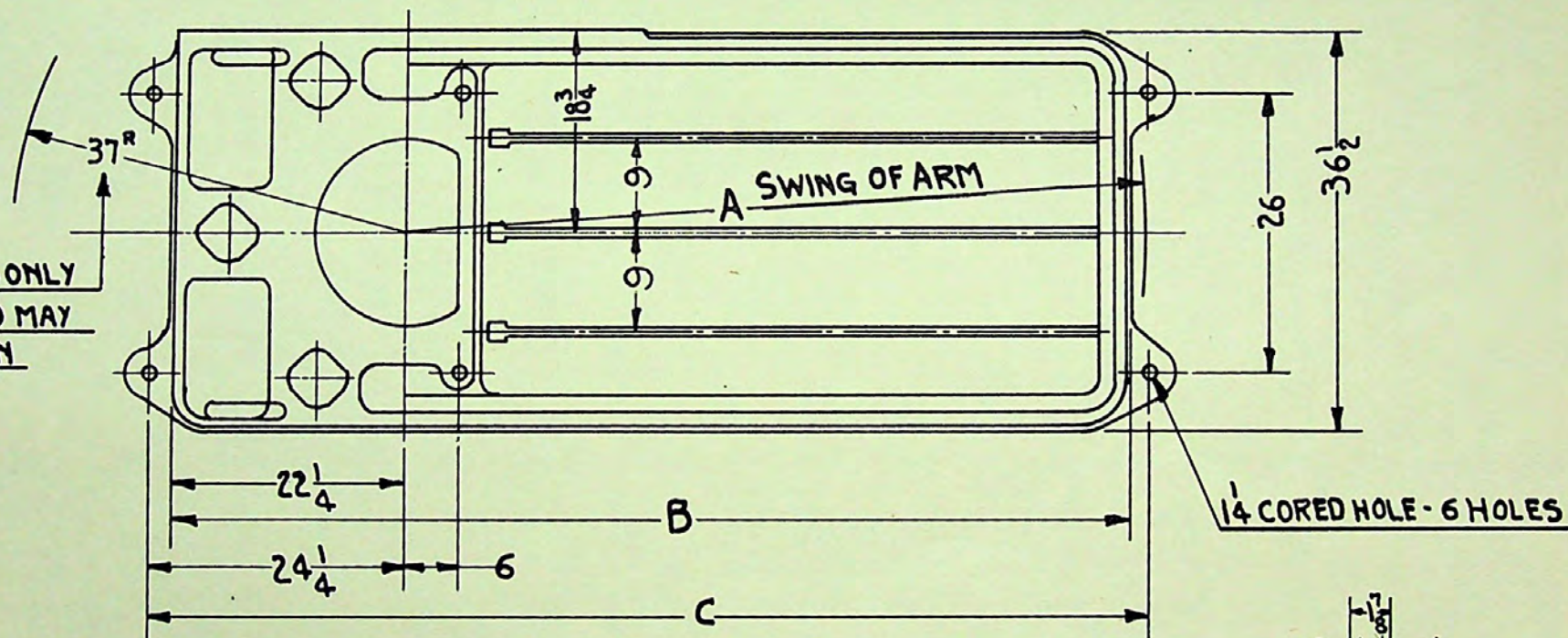
MACHINE LEVELING INSTRUCTIONS WITH ARM DOWN AND HEAD IN CENTER

- 1 INSERT WEDGES AT "A" UNDER BASE AS INDICATED AND LEVEL ACROSS BASE IN LINE WITH WEDGES "A".
- 2 INSERT WEDGES AT "B" AND LEVEL ACROSS BASE IN LINE WITH WEDGES "B", ALSO LEVEL BASE LENGTHWISE ALONG LINE "E".
- 3 INSERT WEDGES AT "C" AND CHECK LEVEL ACROSS BASE IN LINE WITH WEDGES "C", ALSO CHECK LEVEL BETWEEN WEDGES "A" & "C" ON BOTH SIDES OF COLUMN.
- 4 INSERT WEDGES AT "D" TO SUPPORT CENTER OF BASE.
- 5 INSERT WEDGES AT "F". BE CAREFUL NOT TO CHANGE LEVEL OBTAINED WITH WEDGES "A"-"B"-"C" & "D".
- 6 TIGHTEN ALL ANCHOR BOLTS.

DRAWING NO.
15035
 B SIZE
 DR. R.M.V. 9-23-36

DRAWING NO.
15035

THIS DIMENSION IS ONLY
APPROXIMATE AND MAY
VARY DEPENDS ON
MOTOR USED



DIMENSIONS

SIZE	A	B	C	HEIGHT OF BASE	HEIGHT OF HOLD DOWN LUG
3 FT.	57	73 1/2	77 1/2	8	4
4 FT.	69	85 1/2	89 1/2	8	4
5 FT.	81	97 1/2	101 1/2	8	4
6 FT.	93	109 1/2	113 1/2	8	4

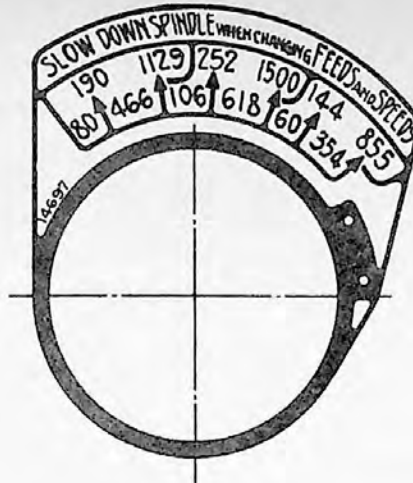
FLOOR PLAN OF 1A-11" DIA. COL. MACHINE

THE CARLTON MACHINE TOOL CO.
CINCINNATI, OHIO. U.S.A.

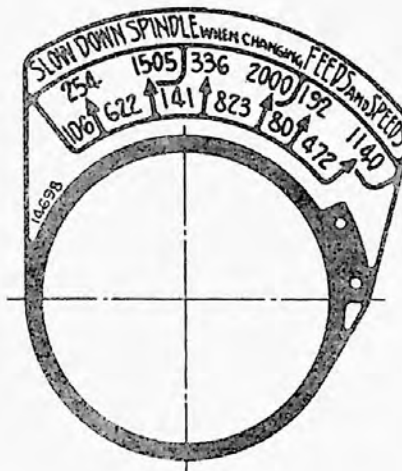
SCALE 1/16" = 1"

DRAW. NO. 17265
SIZE B

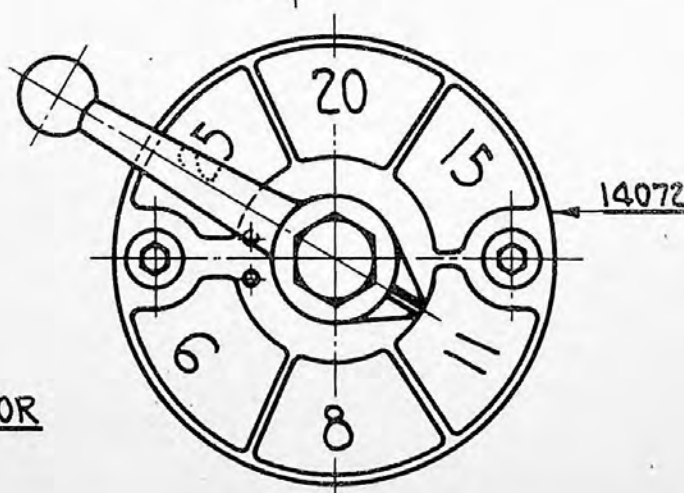
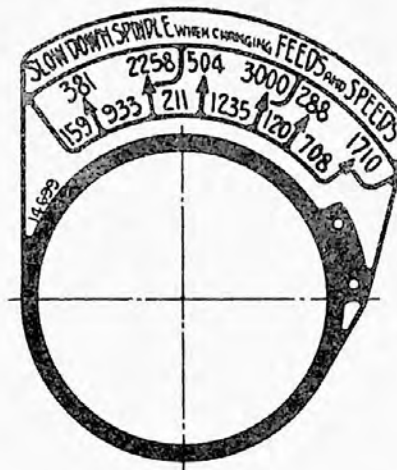
LOW



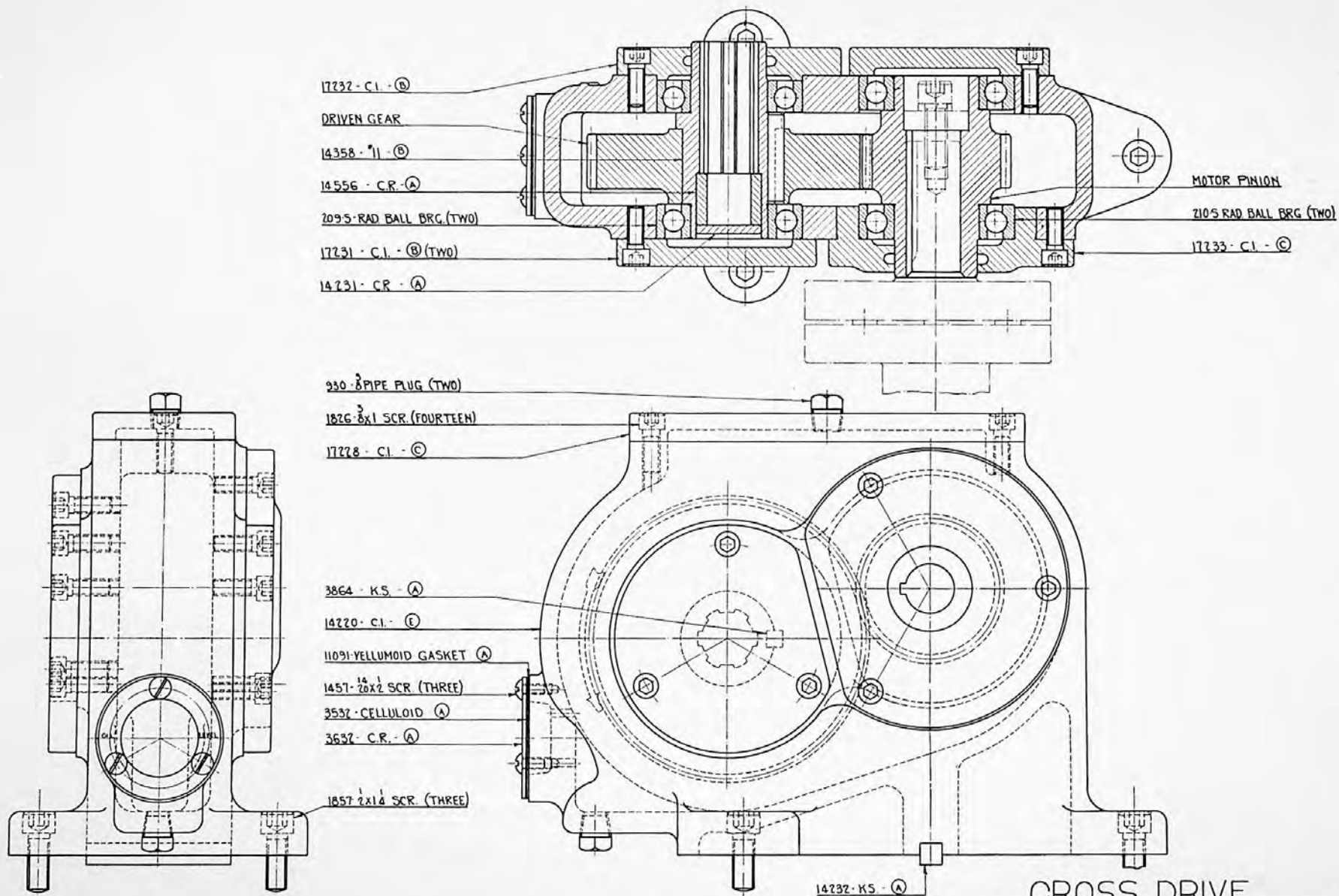
STANDARD



HIGH



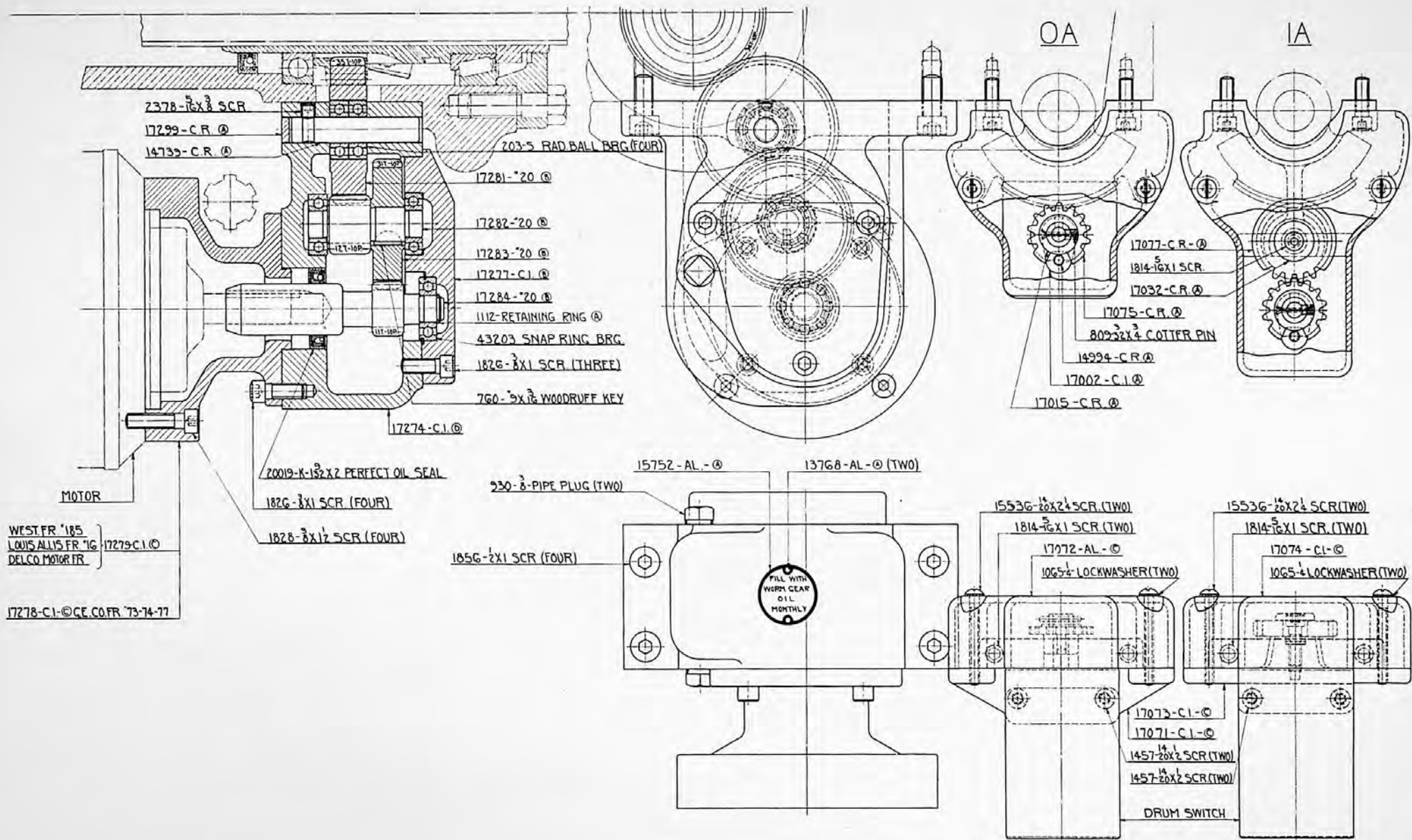
FOR 9&11" DIA.
COLUMN 5 H.P. MOTOR
"1A" RADIAL



CROSS DRIVE

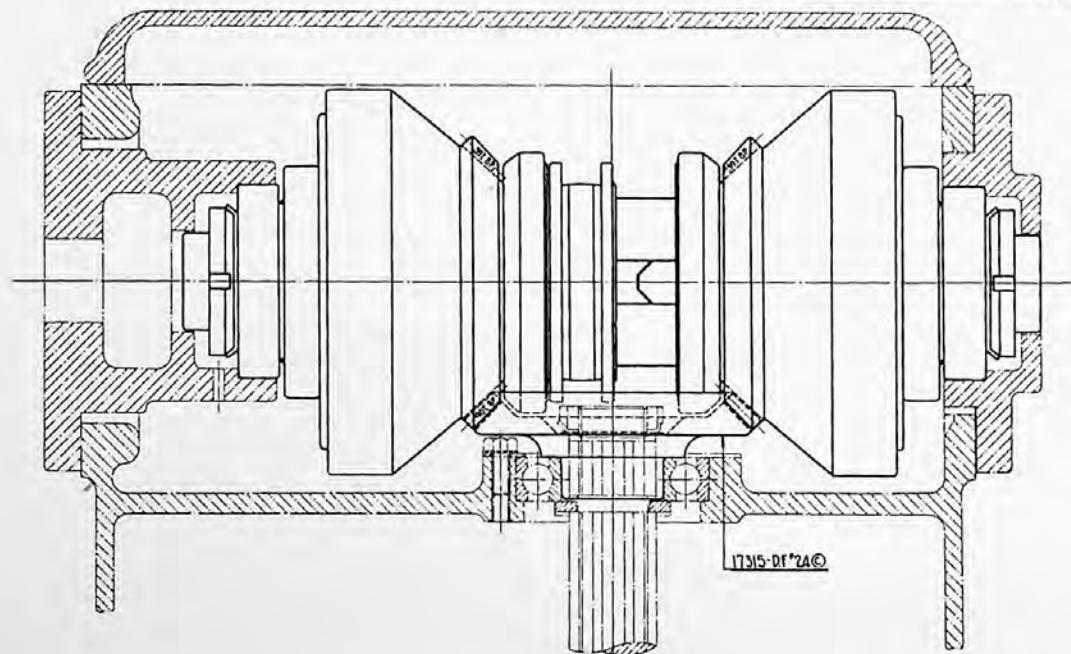
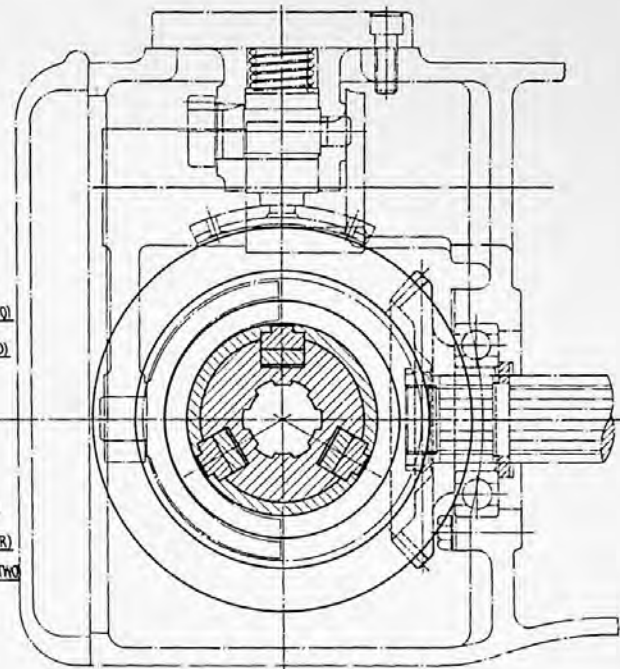
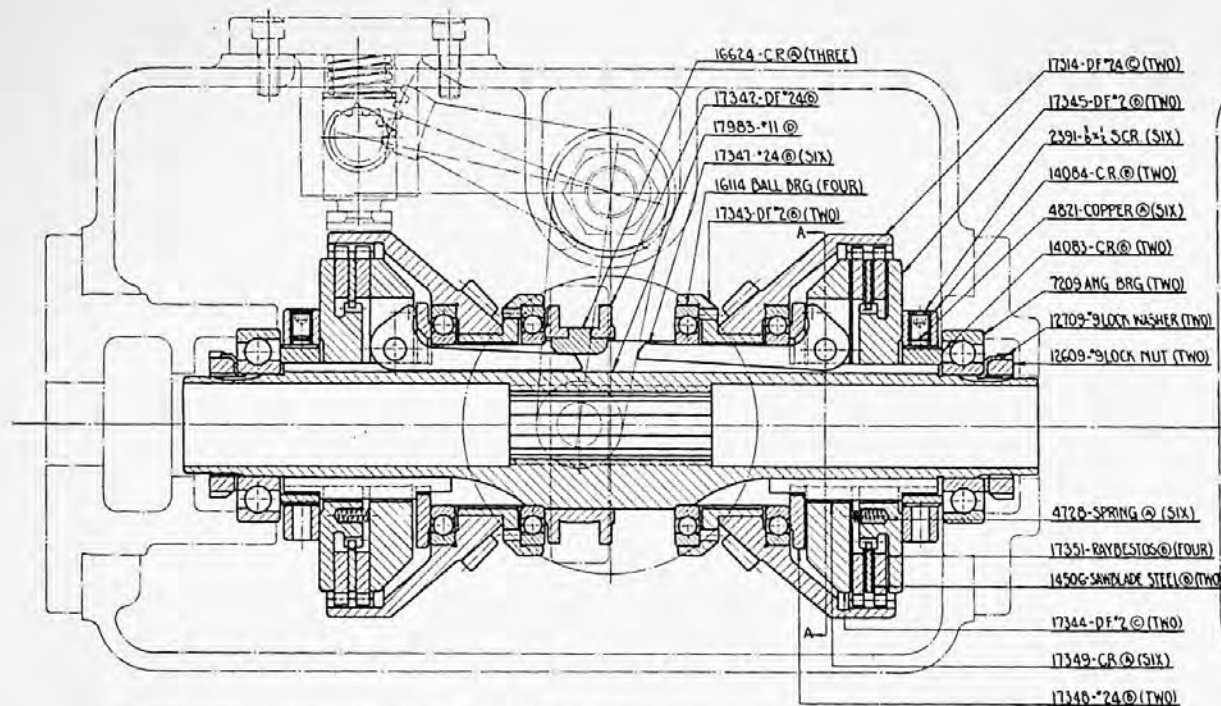
QUANTITY	UNIT	SPEED	CONSTRUCTION	REVISION	DATE	BY	CHK
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			
1	EA	17250	HAZARD	15590			

17250 E

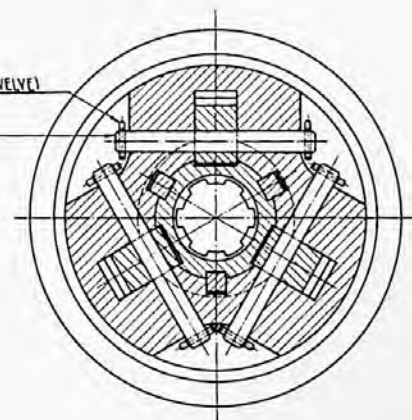


ARM-ELEVATOR

UNIT (MOTOR)
 ARM ELEVATOR (VIEW)
 DATE 6-21-59
 TRIPN. 9-28-30
 CH
 THE CARLTON MACHINE TOOL CO
 CONSTRUCTION
 MAKING APPROX
 DESIGNED BY
 17320 E



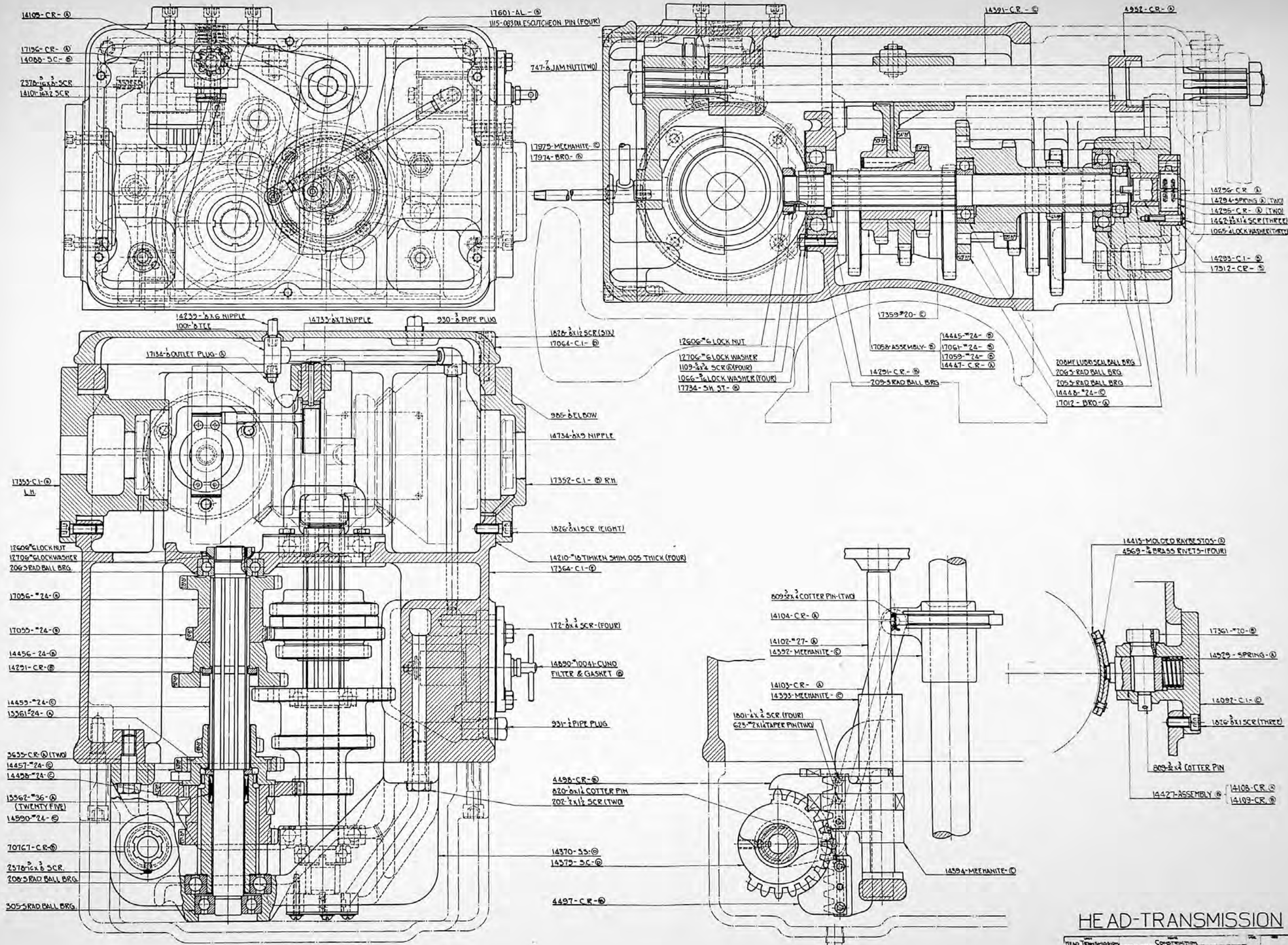
809-3-1/2 COTTER PIN (TWELVE)
 4851-CR @ (SIX)



SECTION A-A

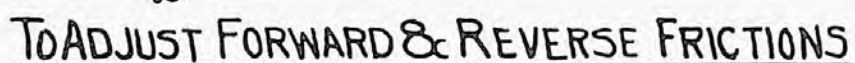
REVERSE

HEAD TRANS REVERSE		CONSTRUCTION		REVISION	
W. A.S.	8-8-58	1A	THE CARLTON MACHINE TOOL CO.	17370	F
W. A.S.	12-27-58				
7-19-58					



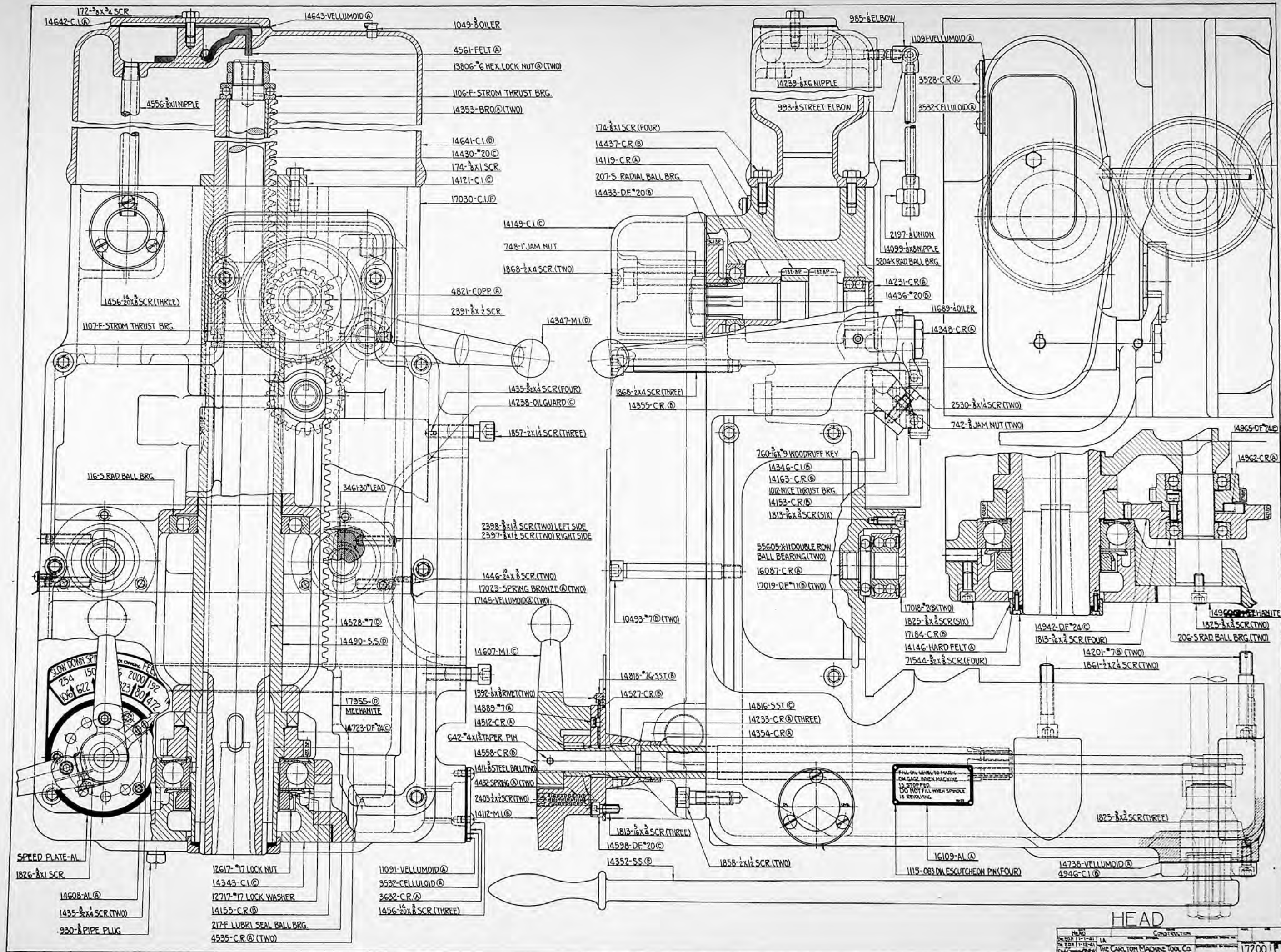
HEAD-TRANSMISSION

PLATE DOUBLE SIZE - ACTUAL SIZE 3"x3 1/4"



17601

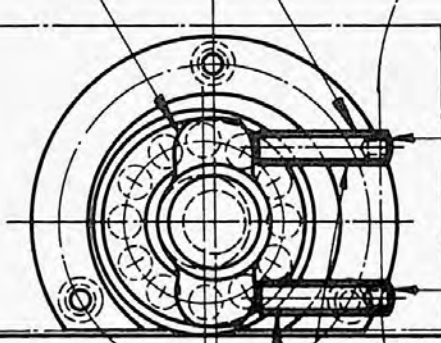
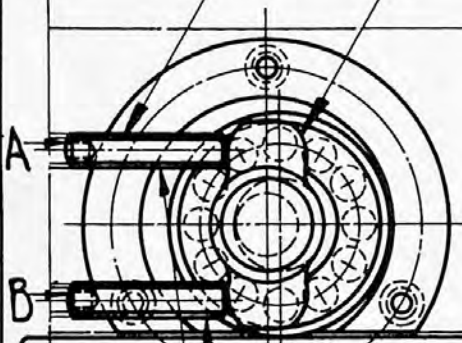
17601	UNIT		NAME		MAY.		USE	
	TRANSMISSION		TRANSMISSION INSTRUCTION PLATE		AL.		22 GAUGE	
	DR. L.E.S. 2-15-40		MACHINE SYMBOL		SUPERSEDES P.C. NO.			
	TR. L.E.S. 2-15-40		1A-4A-5A-3A		14028		PIECE NO.	
	CH. L. Weaver & Co.		THE CARLTON MACHINE TOOL CO.		SUPERSEDED BY P.C. NO.		PIECE NO.	
	2/16/40		CINCINNATI, O., U.S.A.				17601	
							B	



ALLEN ADJUSTING SCREWS FOR
ADJUSTING ECCENTRICS.

ECCENTRICS

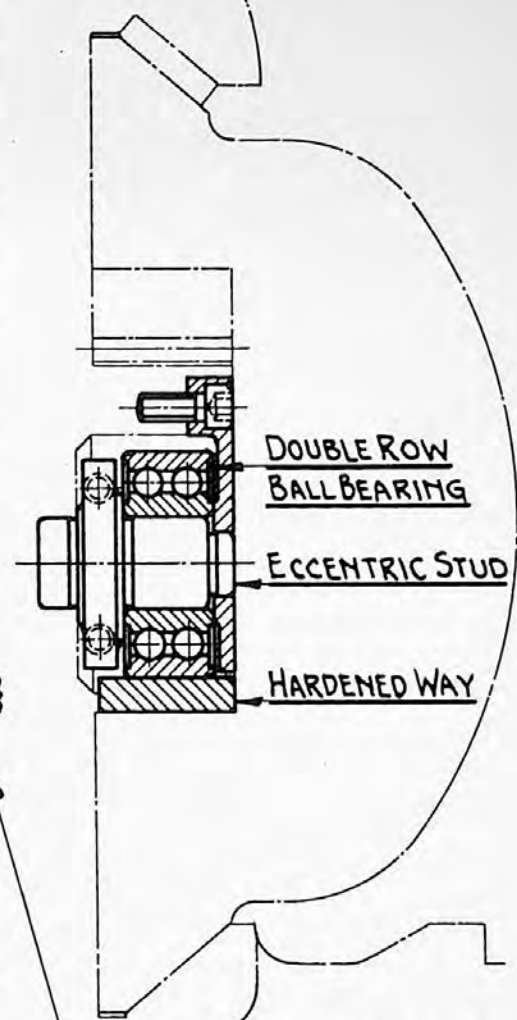
ϕ OF SPINDLE



HARDENED WAY

TO ADJUST

LOOSEN "A"
TIGHTEN "B"

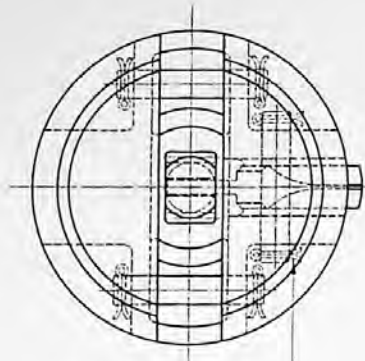


DOUBLE ROW
BALL BEARING

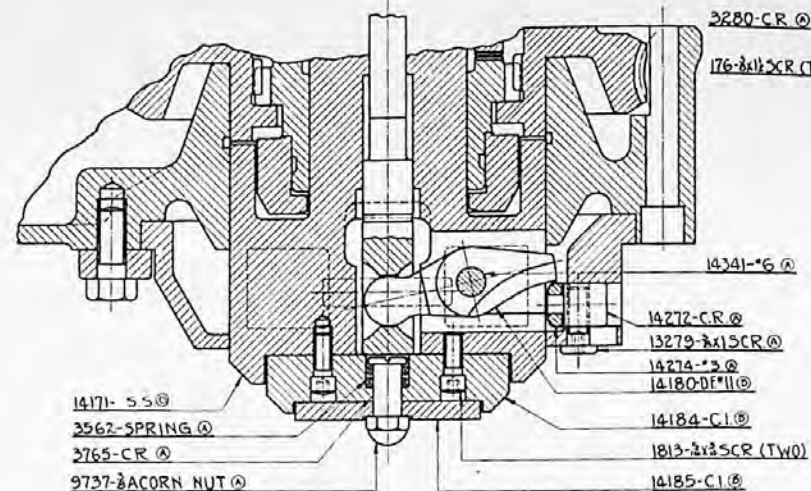
ECCENTRIC STUD

HARDENED WAY

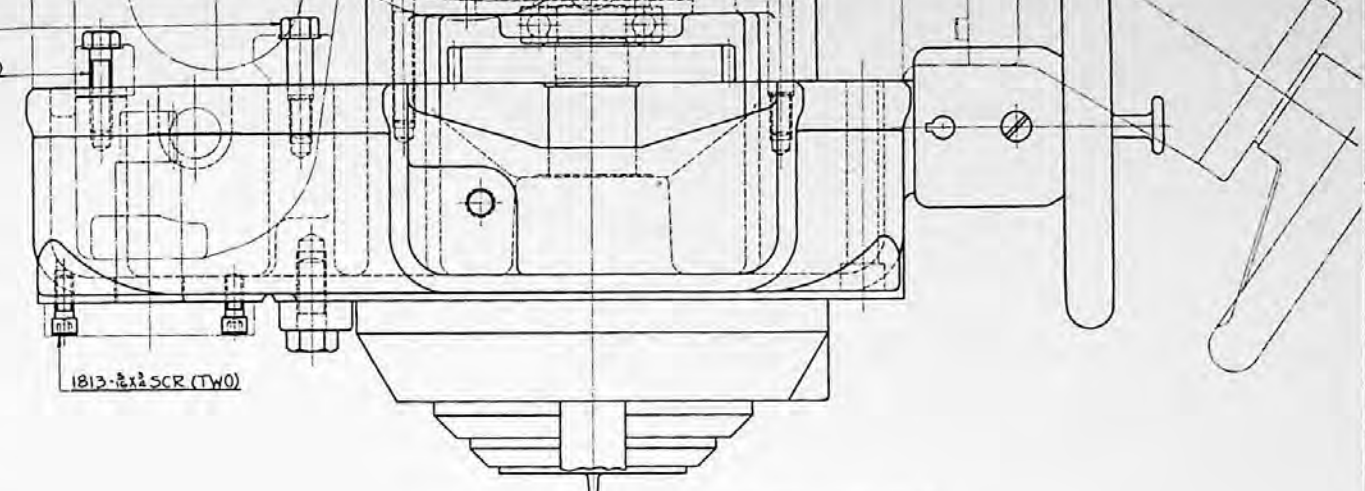
REMOVE HEAD
TRAVERSING UNIT
TO ADJUST ROLLER BEARING.



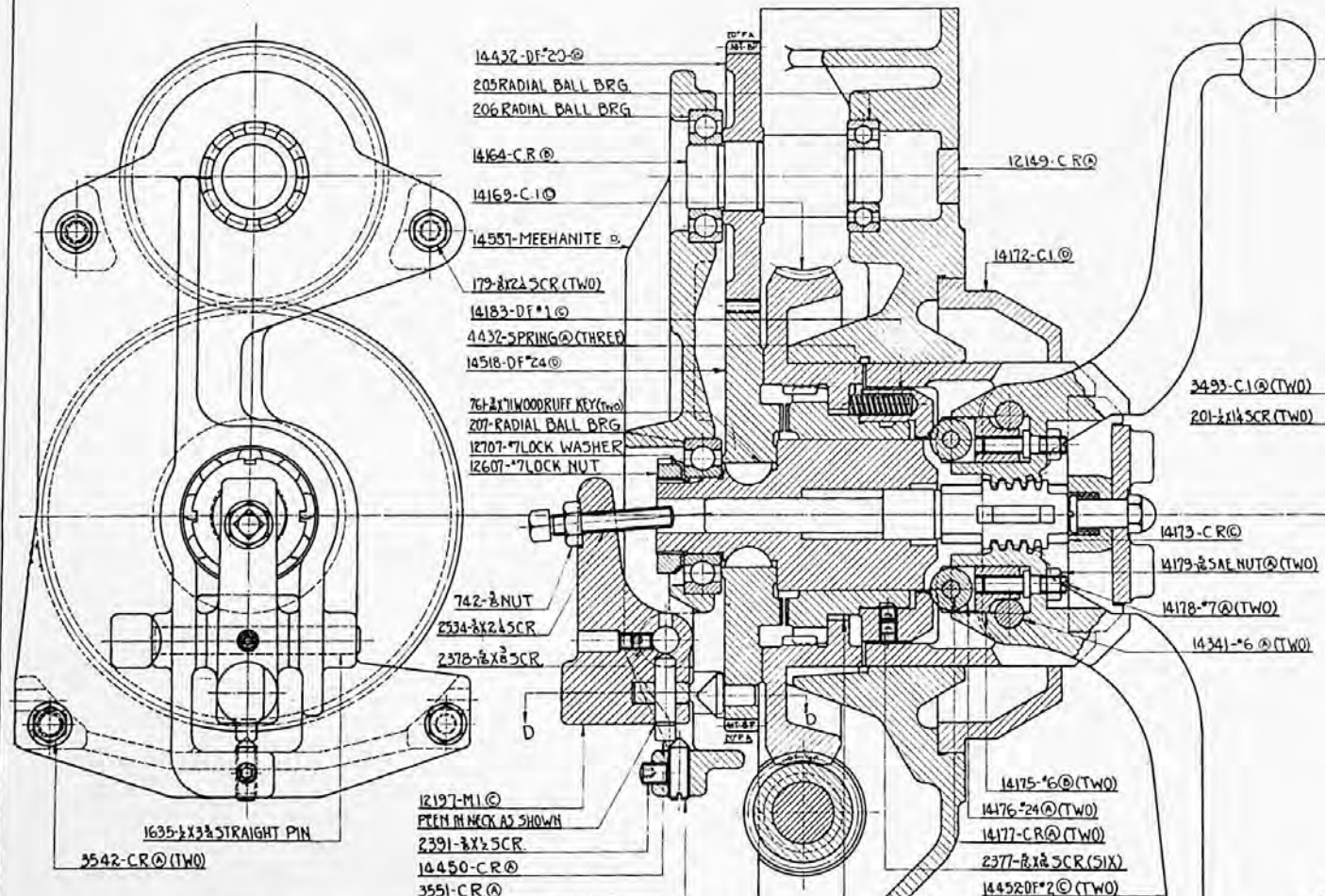
809-2 1/4 COTTER PIN(SIX)



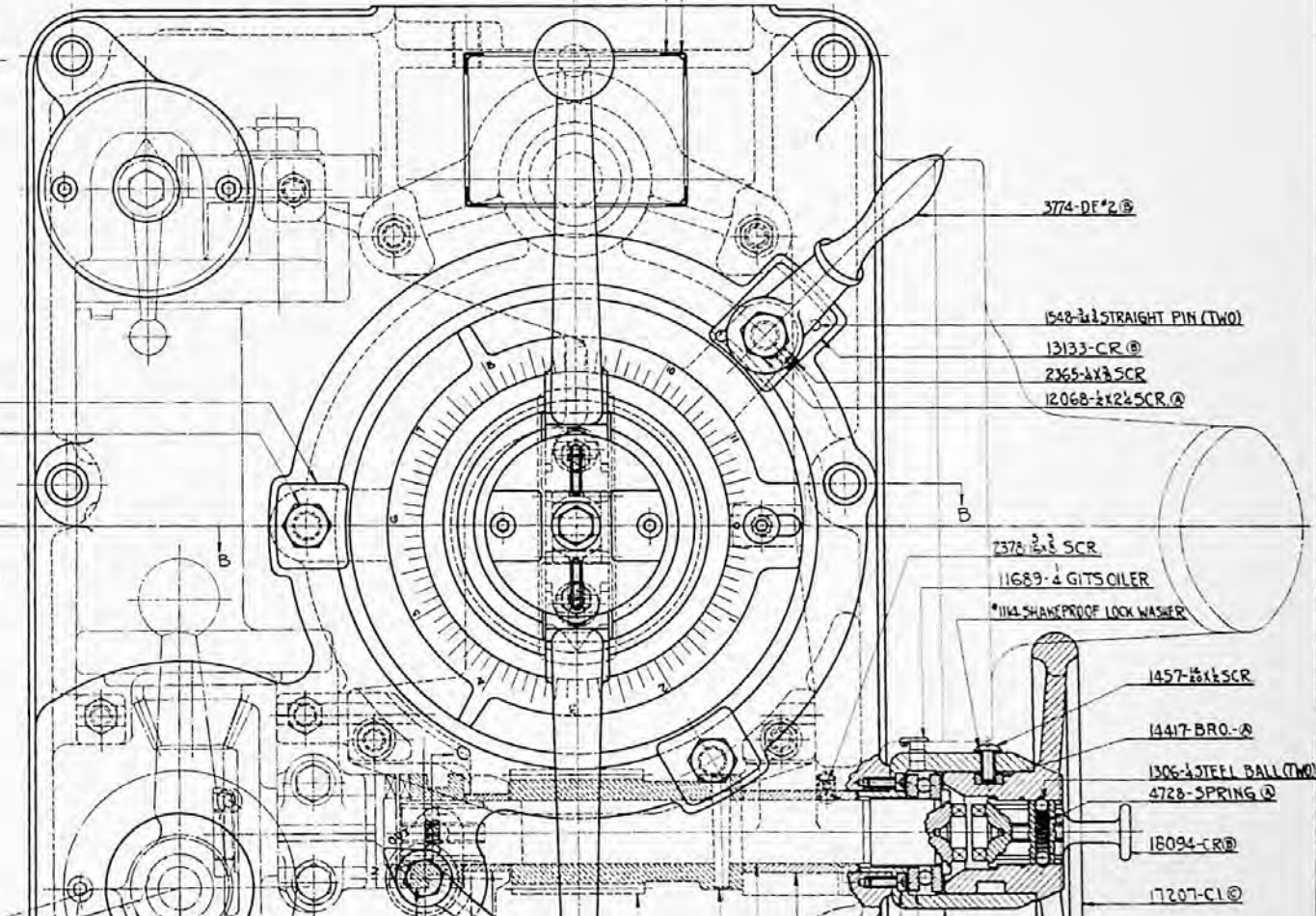
SECTION BB



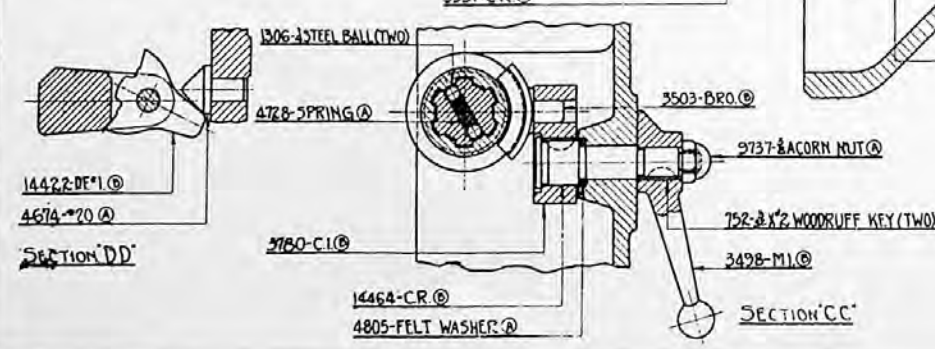
14027-FEED INS PLATE @
1115-083 DA ESCUTCHEON PIN (FOUR)



SECTION AA

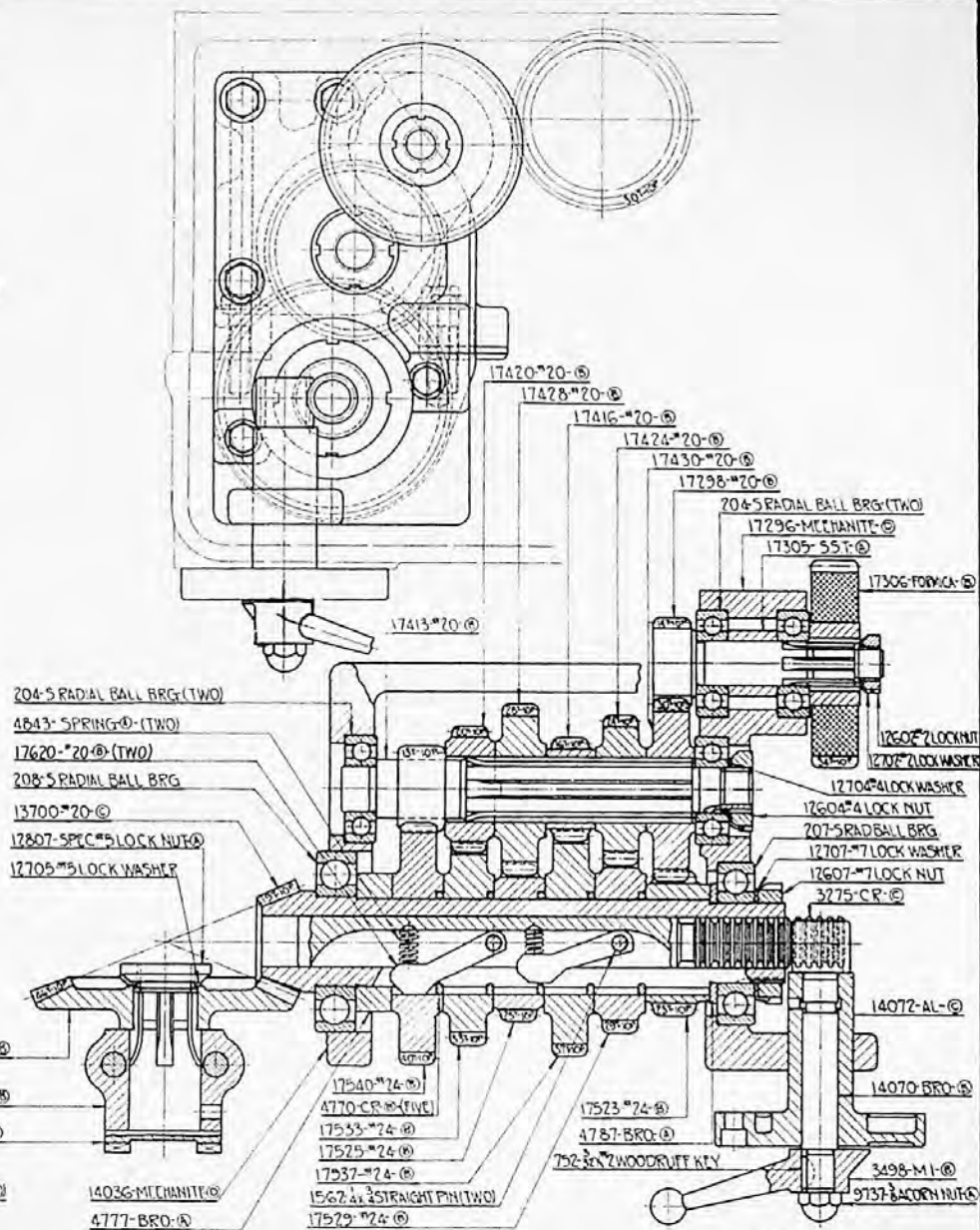
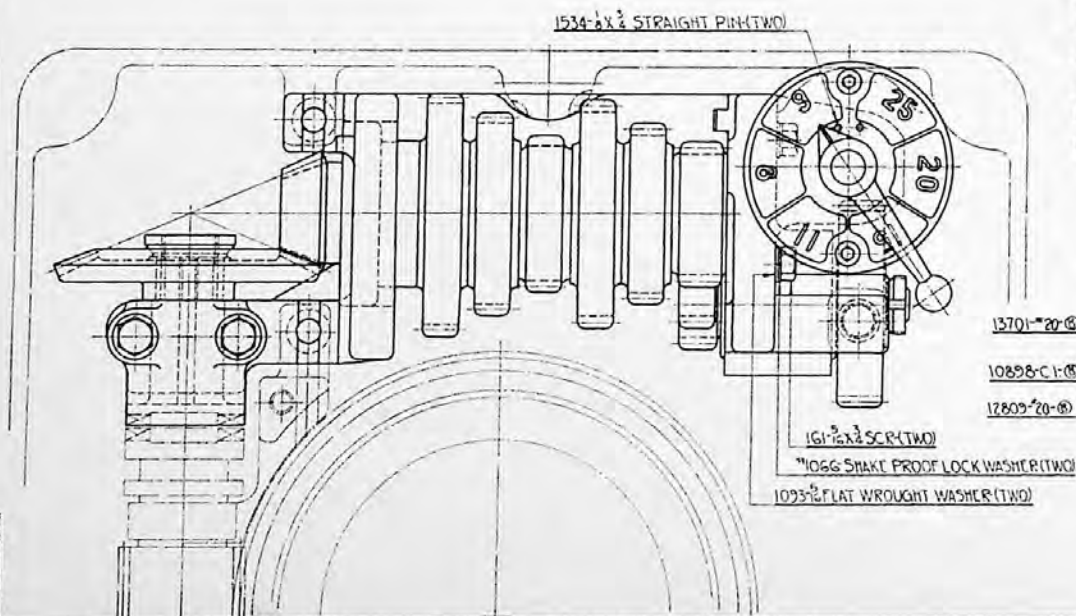
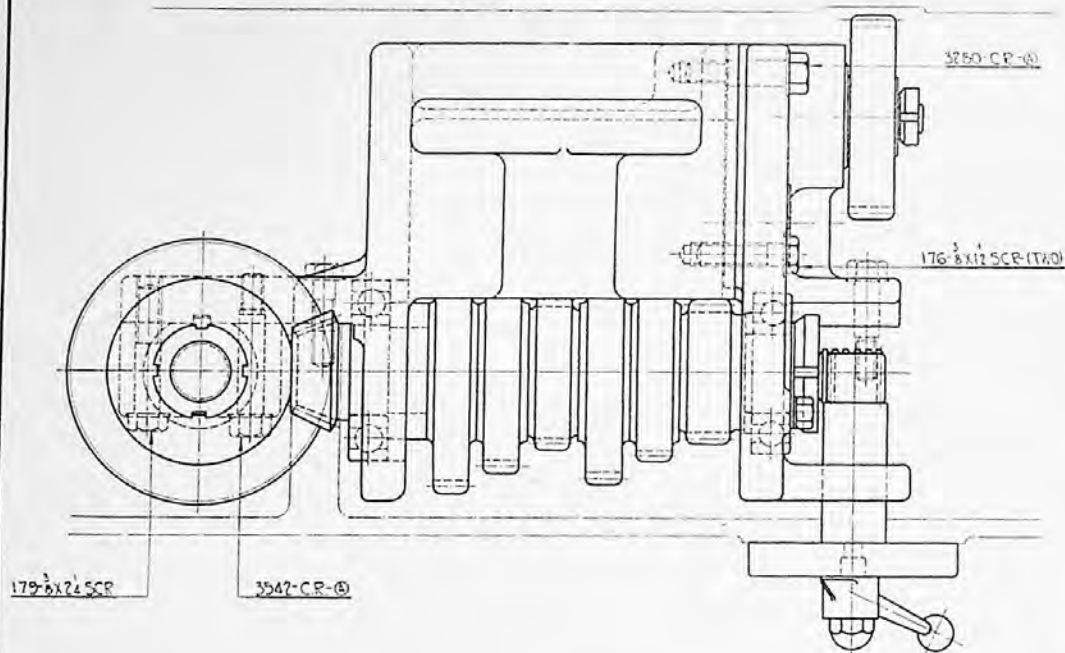


SECTION CC



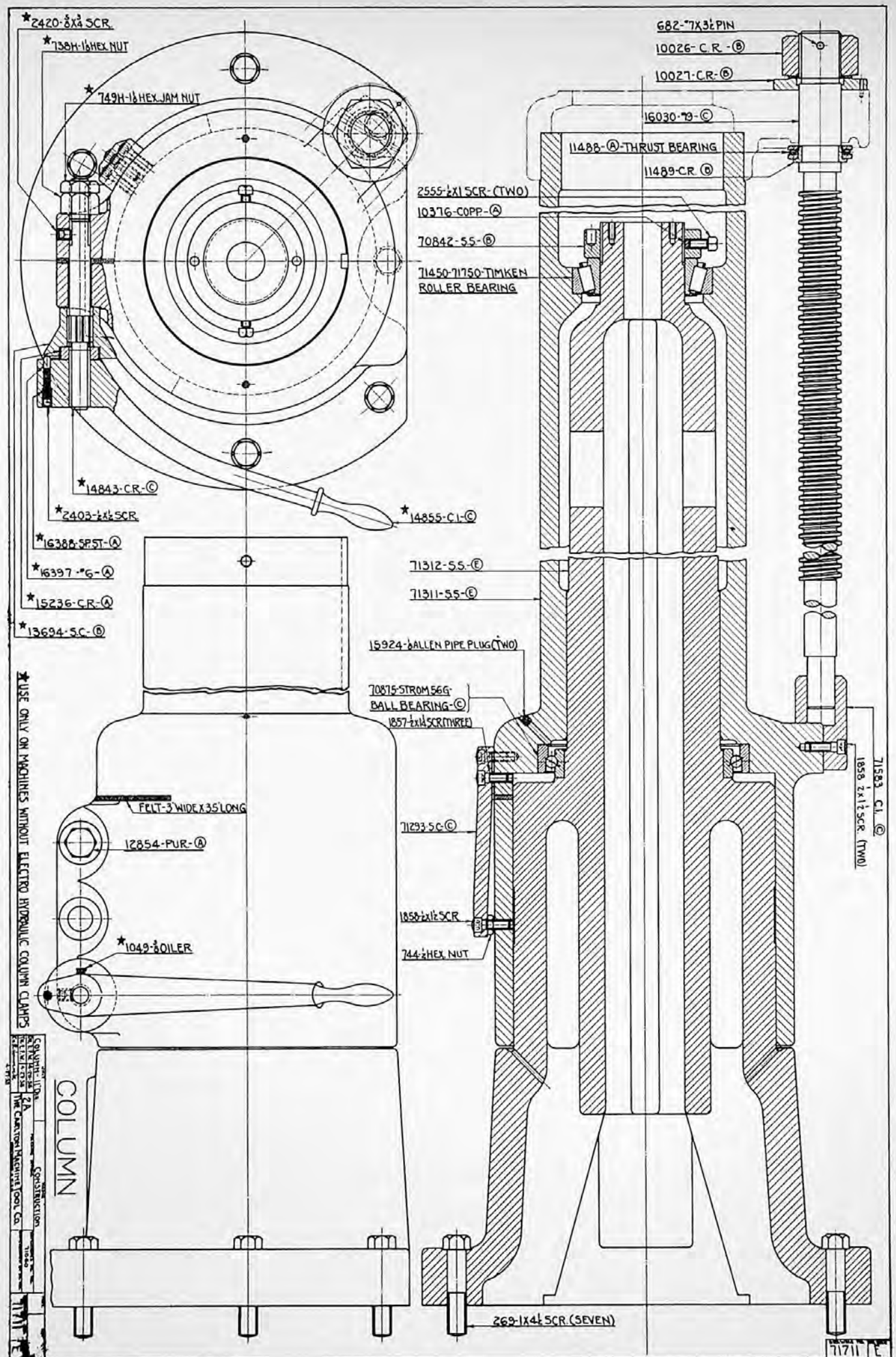
SECTION DD

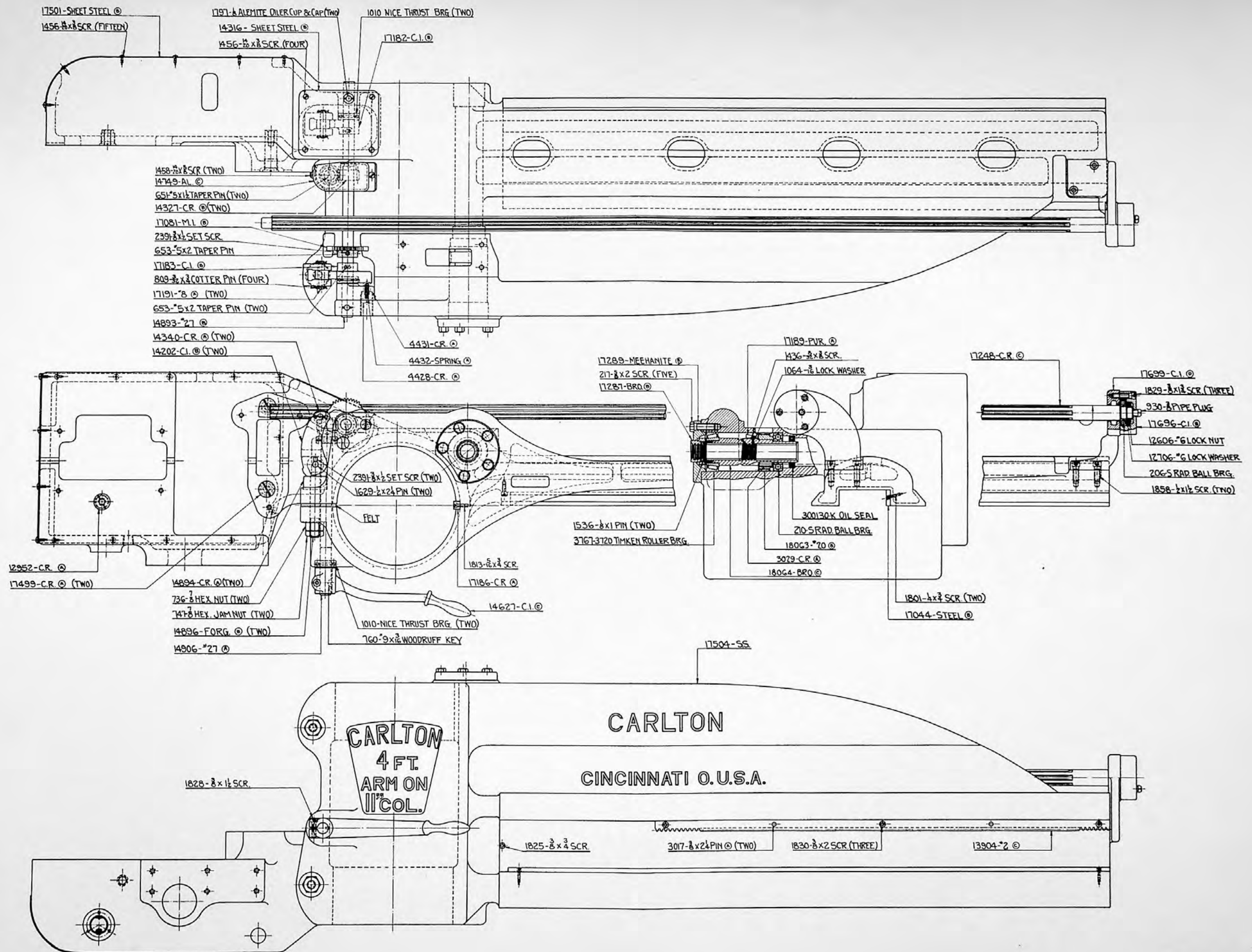
HEAD QUICK RETURN



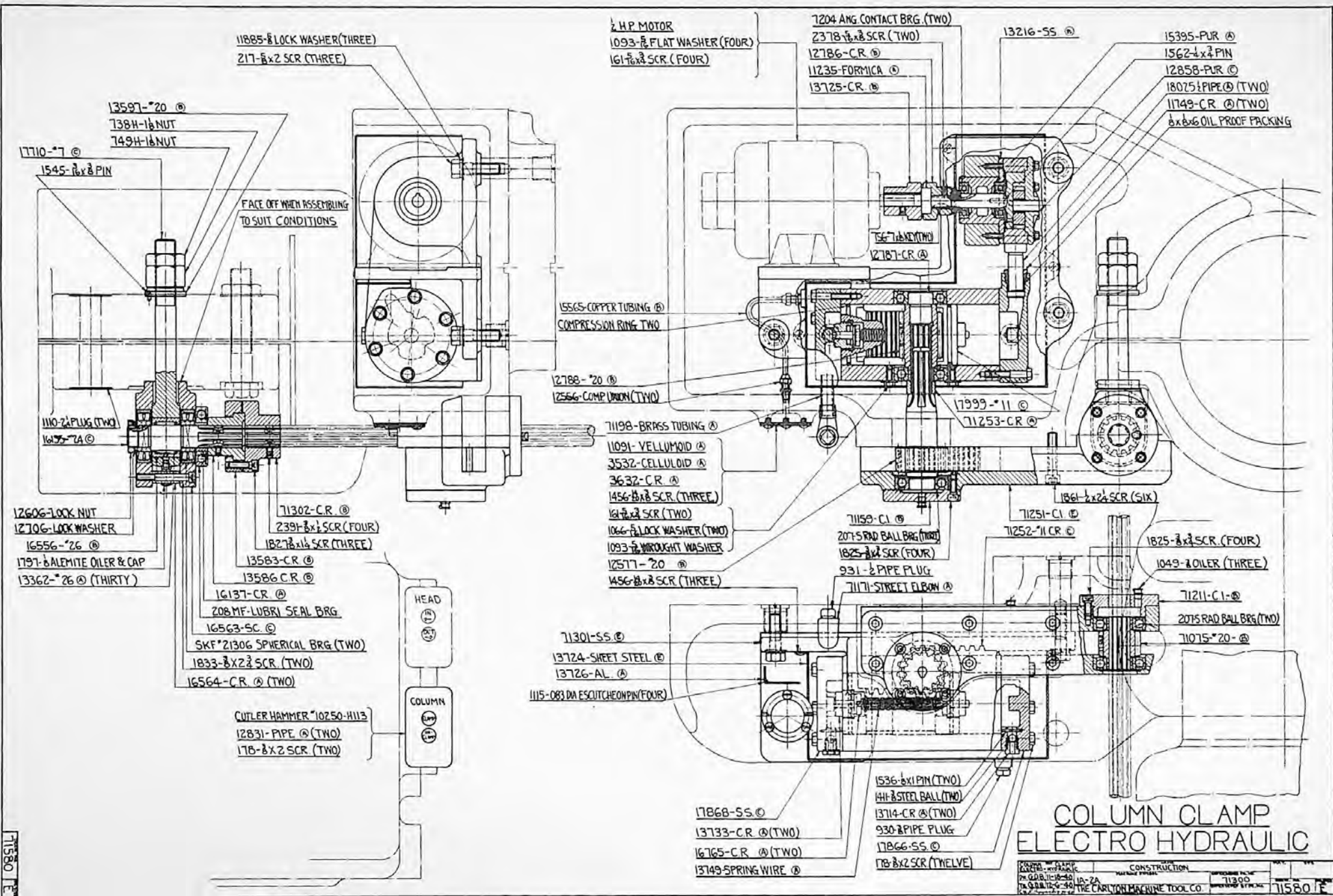
HEAD FEED

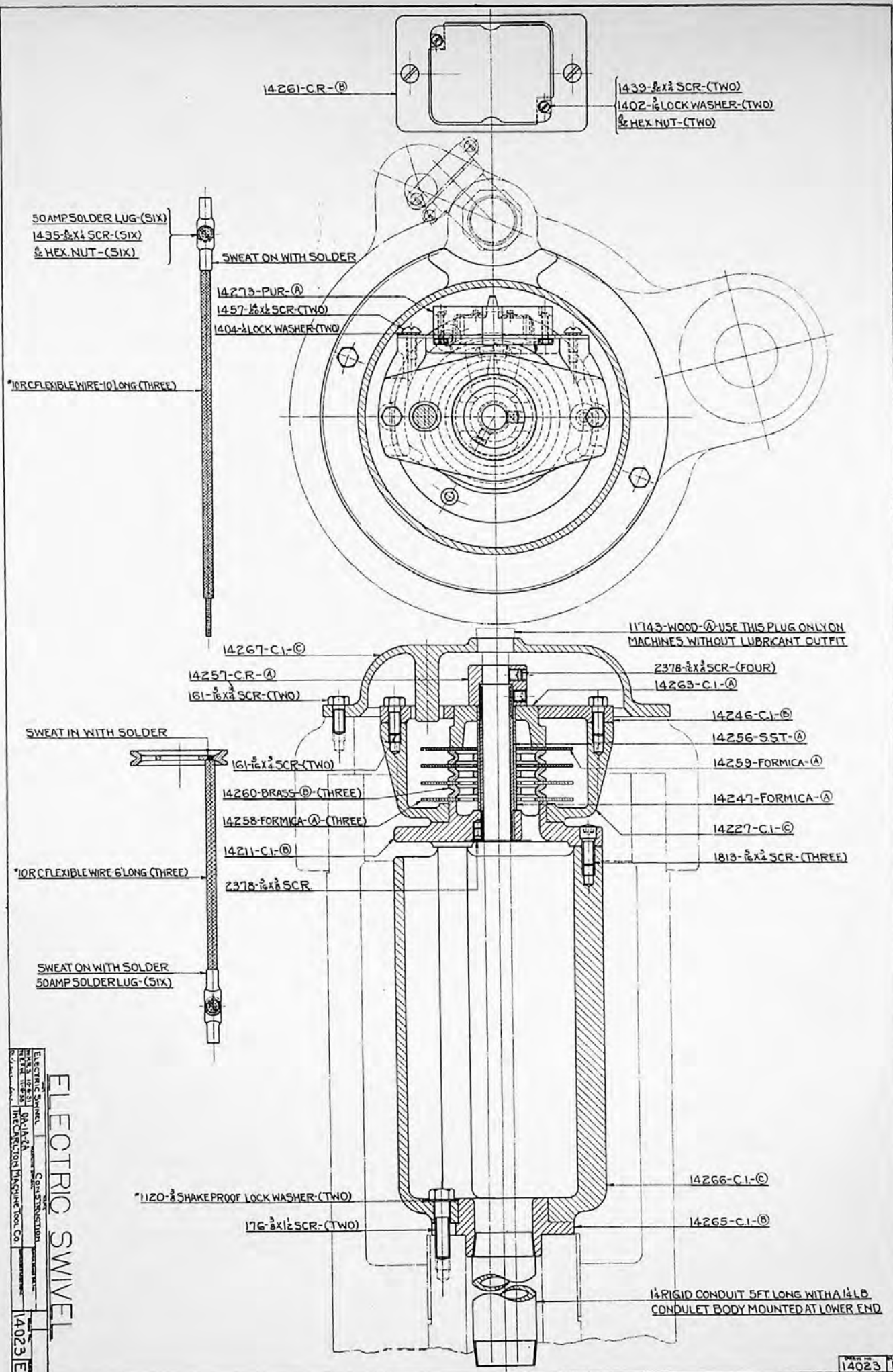
HEAD FEED	CONSTRUCTION	DATE	BY
17341-1A	17341-1A	17341	E
THE CARLTON MACHINE TOOL CO.	18071		





ARM





ELECTRIC SWIVEL

14023 E