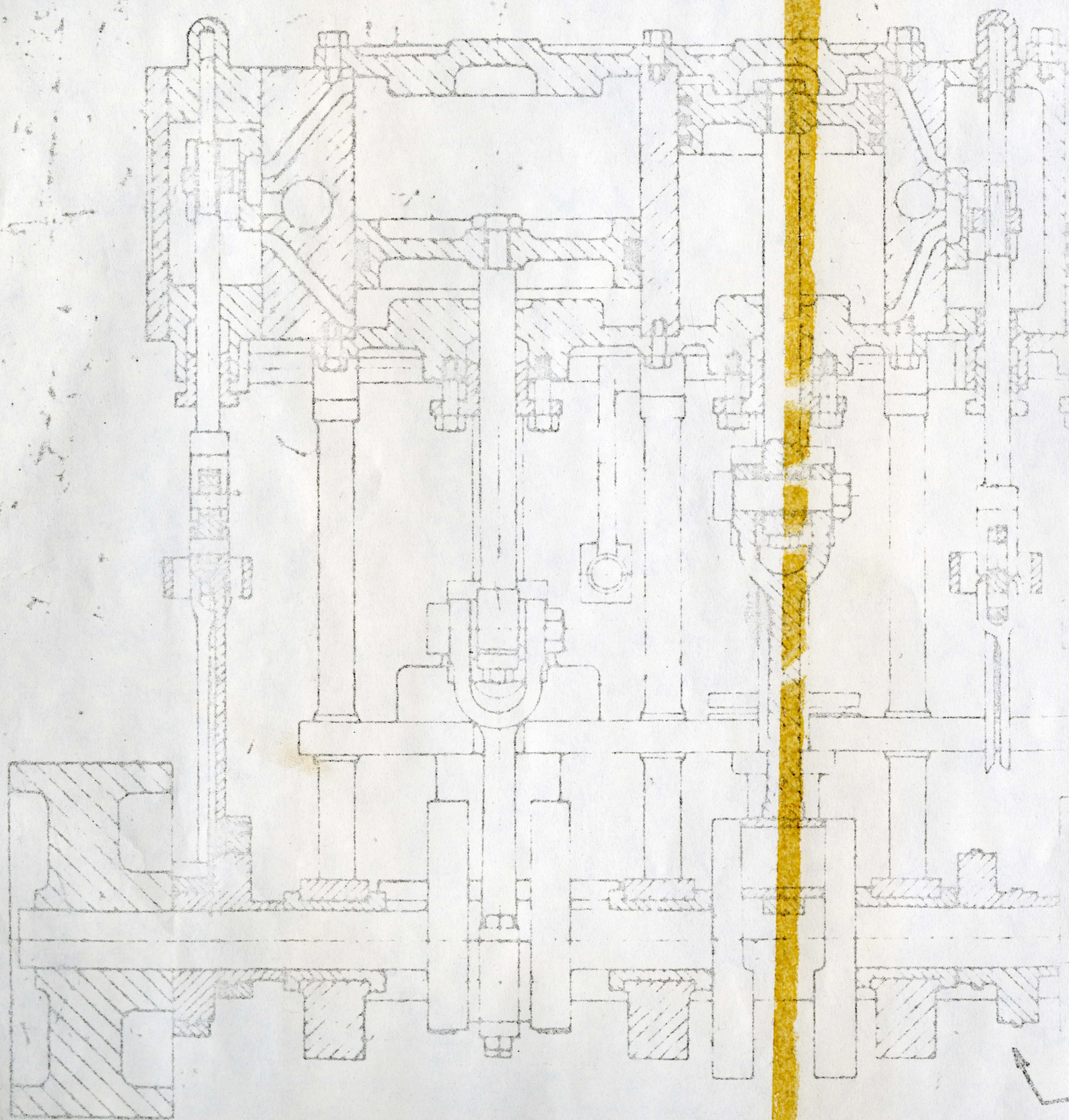


DRG. NO.	DATE	ALTERATIONS
90016	4.2.55	

1



6 HOLES TAP 7BA

1/32

7  
1/16

3  
1/2 CTS

TAP 7BA ON 2 PCD

TAP 7BA ON 1 PCD

4



1

2

DIMENSIONS

SPECIAL SHORT  
BOLT AT REAR  
PIPE FLANGE, TOP

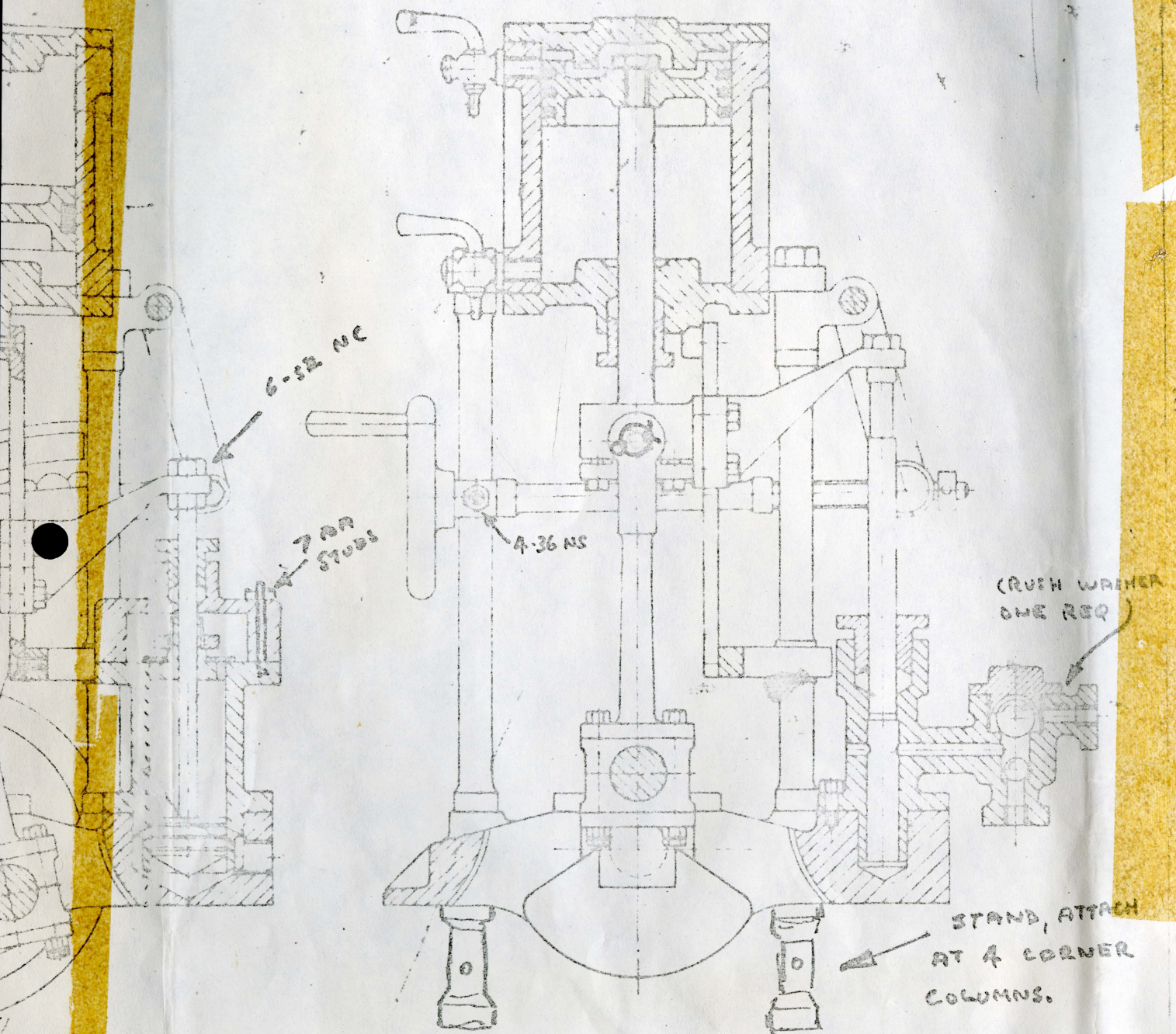
COTTER  
KEY

ALLEN SET  
SCREW,  $\frac{1}{8}$  LONG  
4 PLACES

SPLIT ECCENTRIC, CLAMP 2 VALVES  
TO SHAFT, EQUALIZE GAP - OMIT SET SCREWS.

8 HOLES TAP 7BA





STAND, ATTACH  
AT 4 CORNER  
COLUMNS.



3

HENLEY-ON-THAMES.

ISSUED  
1 NOV 1971

USE ONLY FOR  
ORDER

8 HOLES DRILL N°38

2 HOLES  
TAP 7 BA

2 HOLES  
TAP 7 BA

8 HOLES DRILL N°38

8 HOLES DRILL N°38

8 HOLES  
DRILL N°38

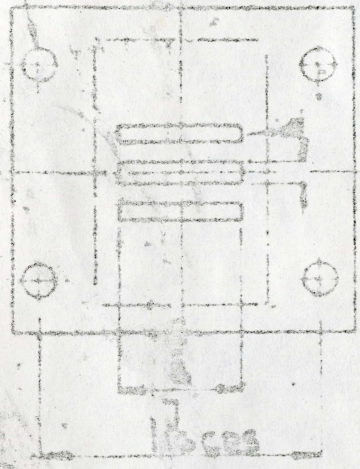
2 HOLES  
TAP 7 BA

10 HOLES DRILL N°38  
ONE PCB



X

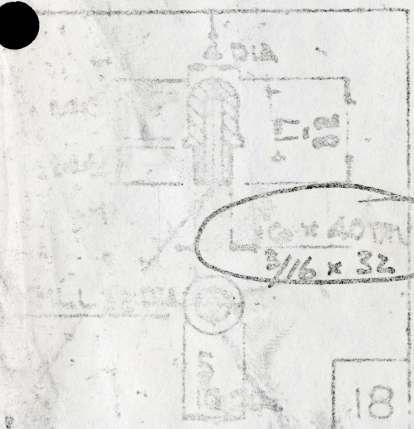
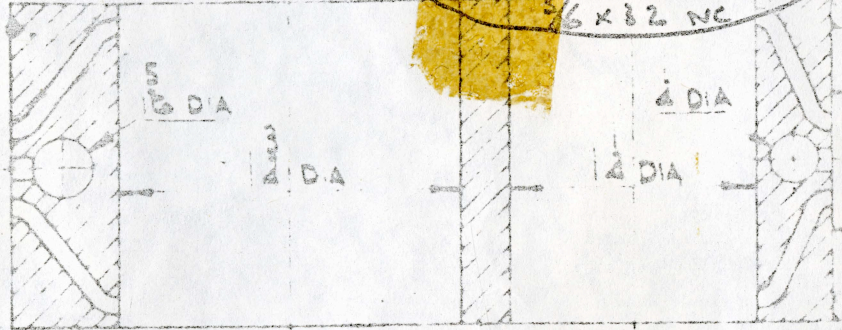
4 HOLES BELL NO 24



2 CRS

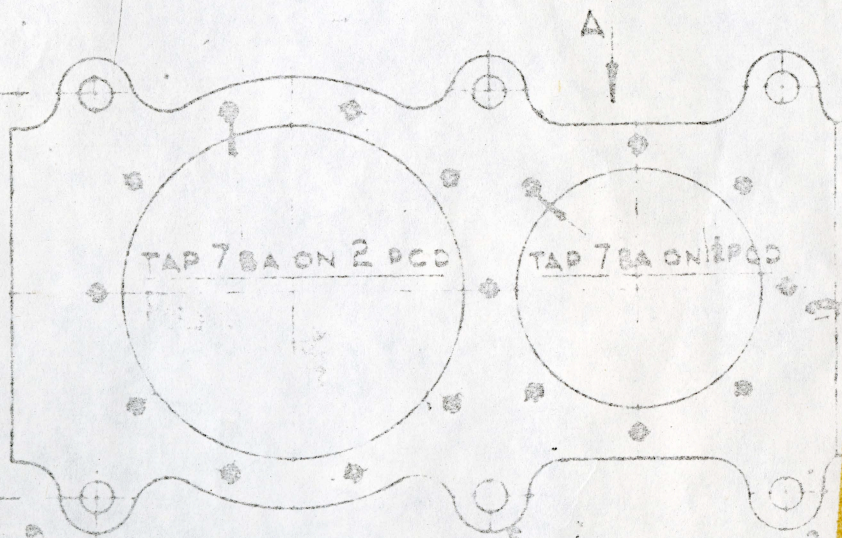
1/2 CRS

3/16 x 32 NC



1/8 x 40 TR  
3/16 x 32

2 CRS



TAP 7 BA ON 2 PCD

TAP 7 BA ON 1 PCD

6 HOLES TAP 32 x 40 TR

SUBS



1/8 NPT PLUG.



OM TT

VIEW A

8 HOLES TAP 7 BA

6-32 ALLEN HD SCREWS

TITLE

DETAILS FOR BUILDING TRIPLE







3  
1/4 CRS

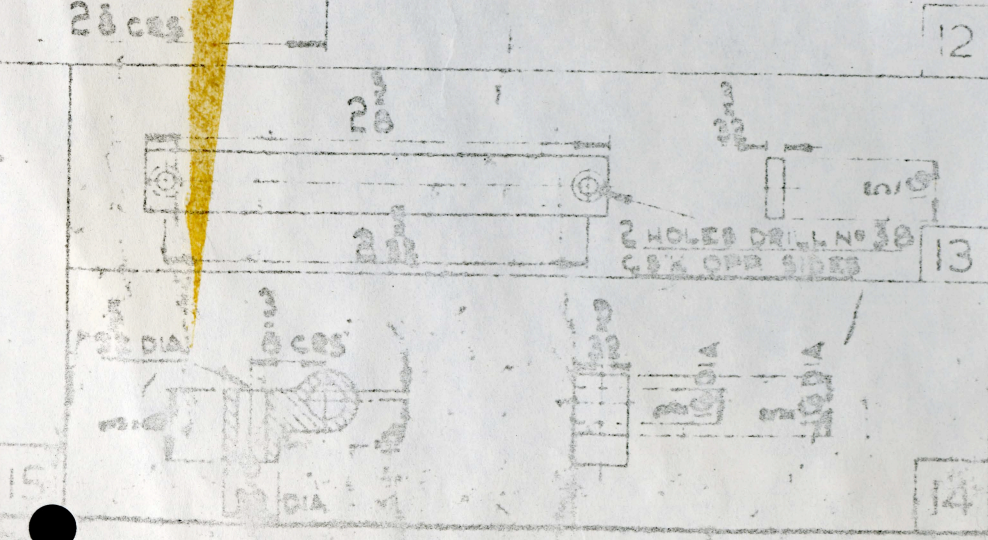
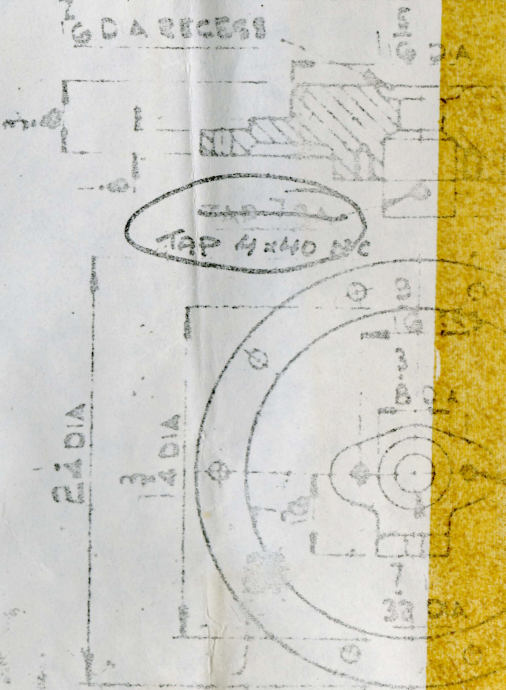
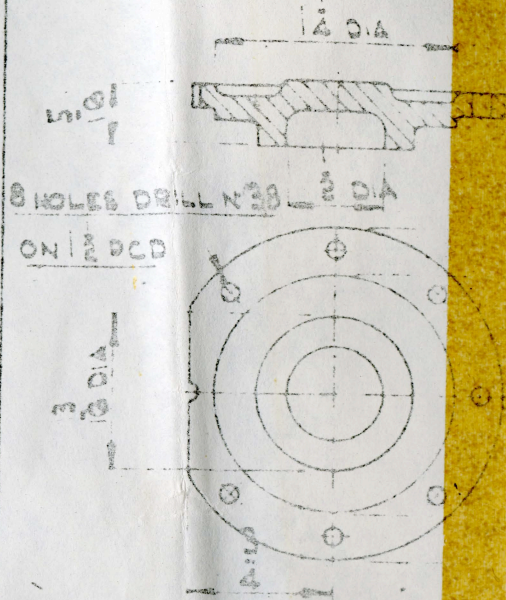
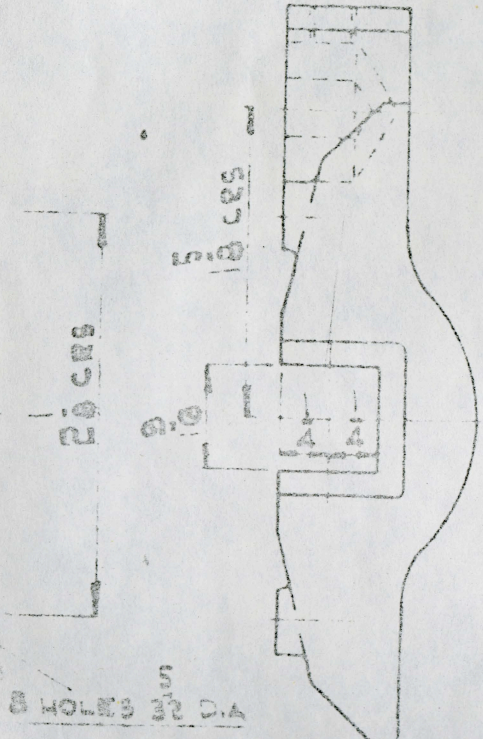
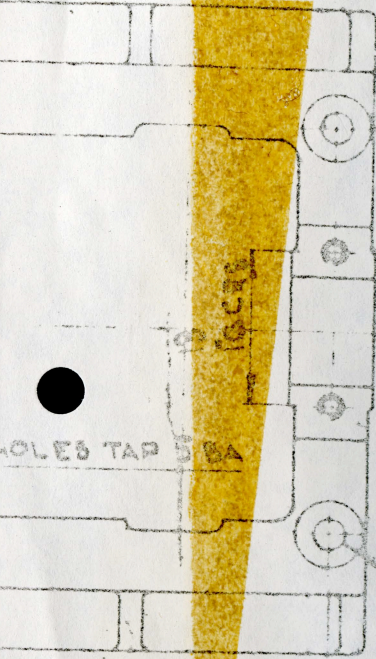
2 5/16 CRS

2 5/16

9 1/8

OMIT  
7/8" ST-100 SCREENED  
PRESS FIT, USE LO

2 1/2 RCD

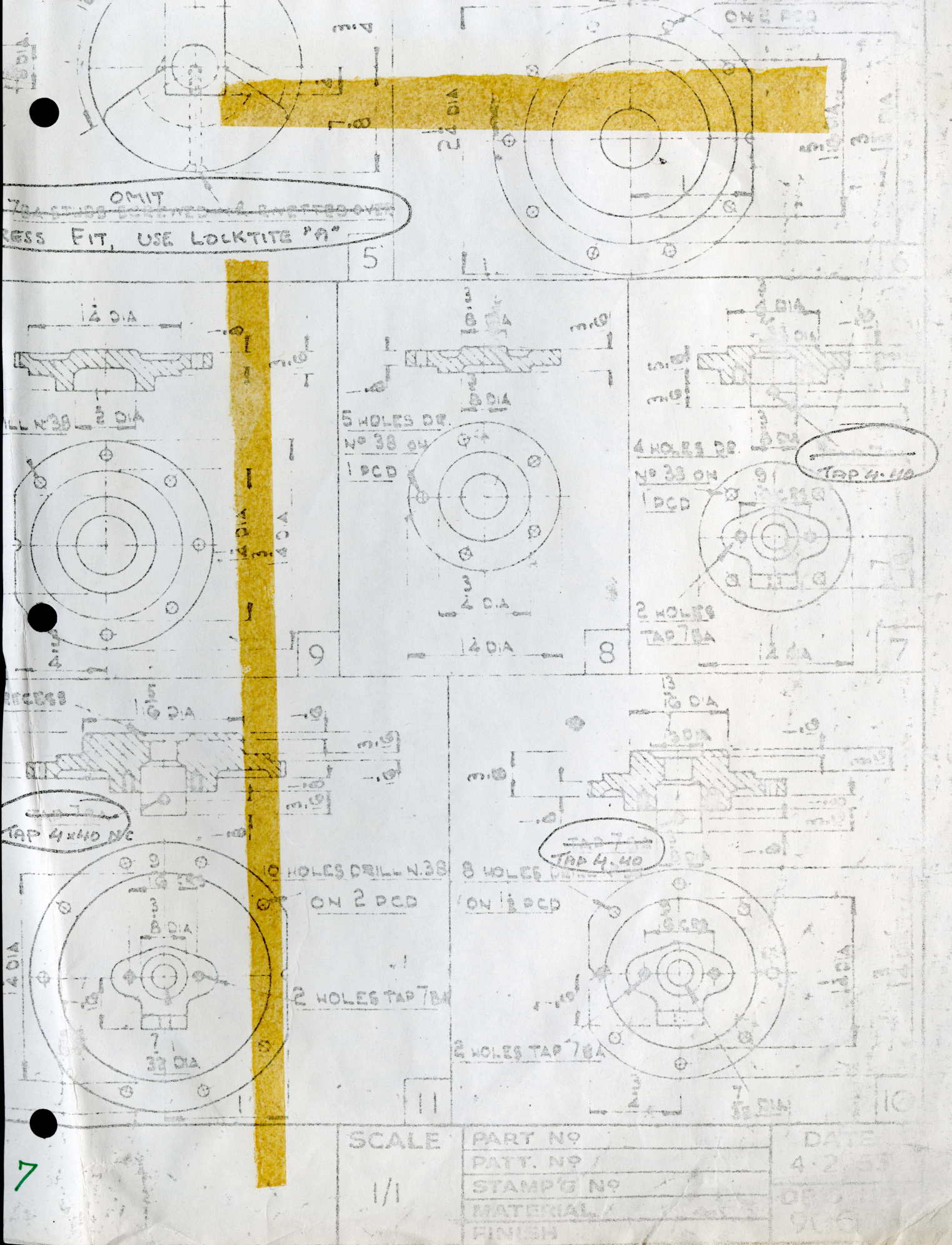


6

MADE IN ENGLAND

7







**TAMBA.**

TAP 484

1944

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions in centimeters (cm). The drawing includes a top view and a side view.

**Top View Dimensions:**

- Overall width: 20 cm
- Distance from left edge to first hole center: 4 cm
- Distance between first and second hole centers: 4 cm
- Distance between second and third hole centers: 4 cm
- Distance from third hole center to right edge: 8 cm

**Side View Dimensions:**

- Overall height: 12 cm
- Distance from bottom edge to top of first hole: 4 cm
- Distance from bottom edge to top of second hole: 4 cm
- Distance from bottom edge to top of third hole: 4 cm
- Distance from bottom edge to top of fourth hole: 4 cm

The drawing shows a series of four circular holes arranged horizontally. The first three holes are of equal size, and the fourth hole is larger. The dimensions are given in centimeters (cm).

3 HOLES ~~END 78A~~  
4.40 NL

10-32

7  
22 DIA

4 HOLES TAD 78A

ROLE & DIA.

DRILL #4  
COTTEN

~~SECRET~~

4 HOLES  
100 100 100 100



8

9

DIMENSIONS IN INCHES

8-32 NC

8-32 NC

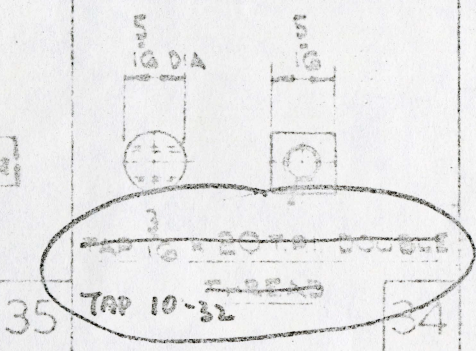
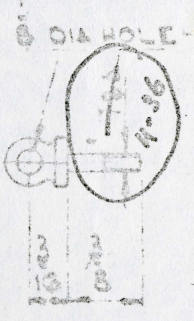
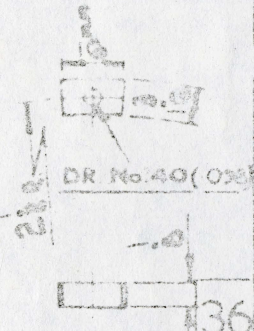
3/32 DIA SECTION & DRILL N° 40 (.098) HOLE  
ON ONE COLUMN ONLY.

8-32 NC

8-32 NC

22

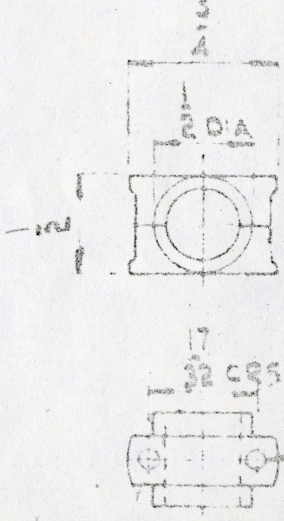
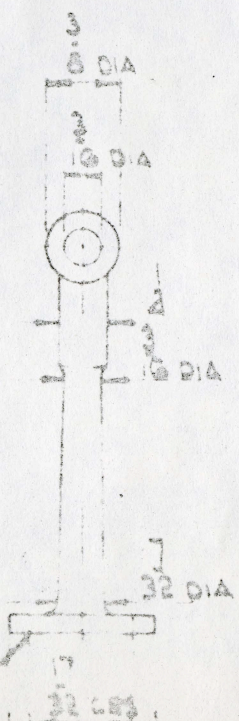
24



37

35

34



39

#44  
COTTER KEY

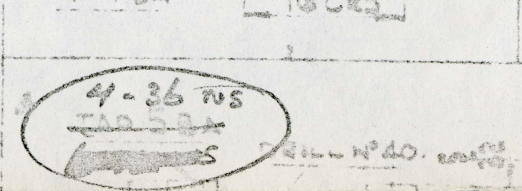
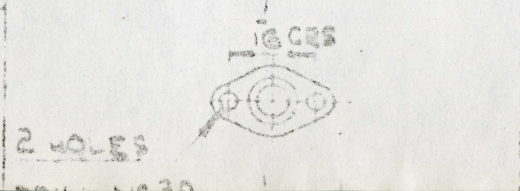
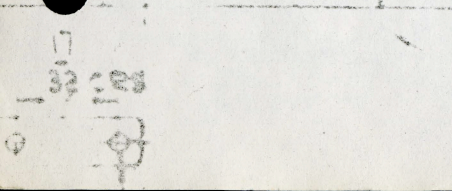
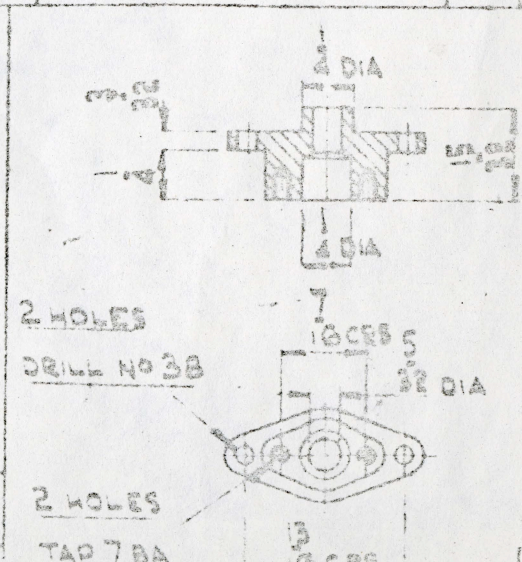
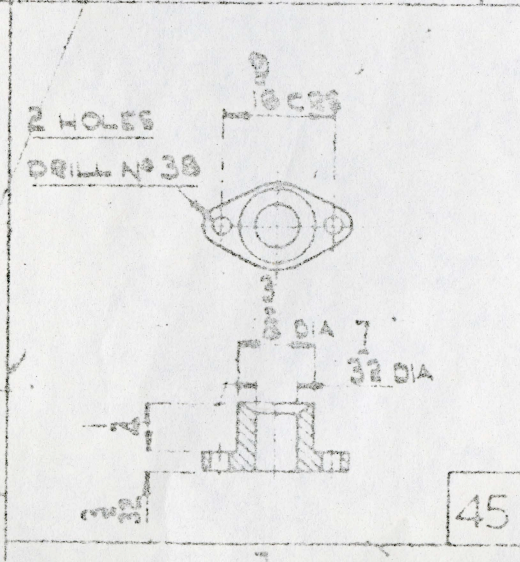
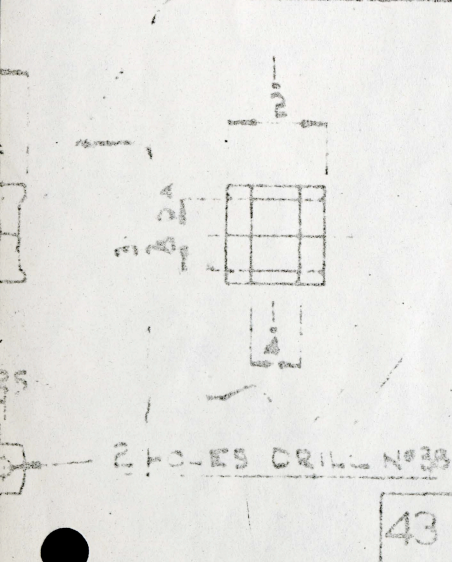
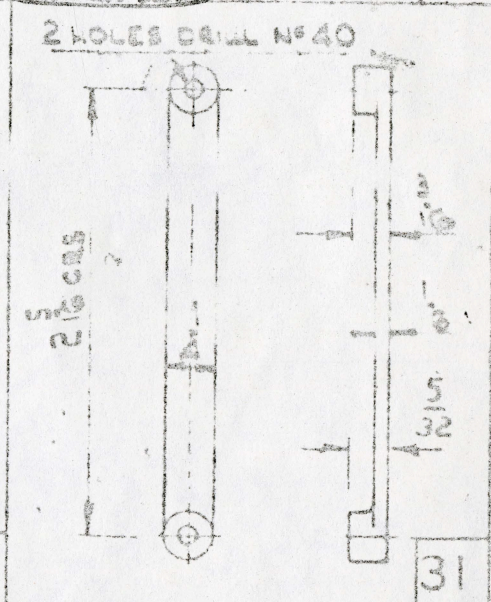
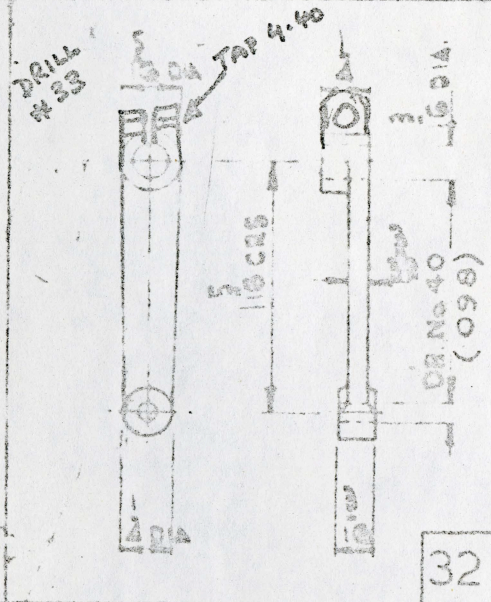
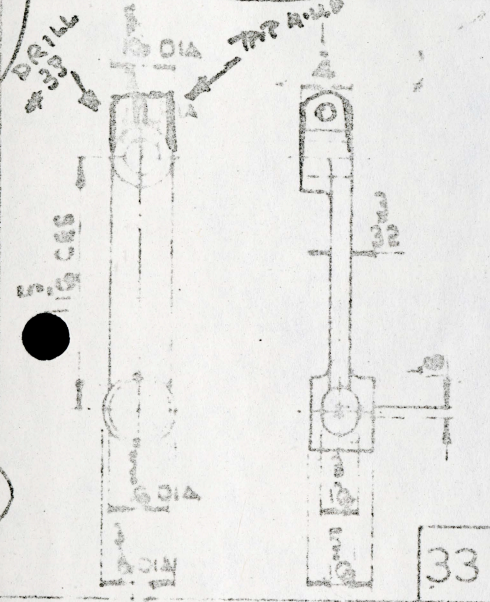
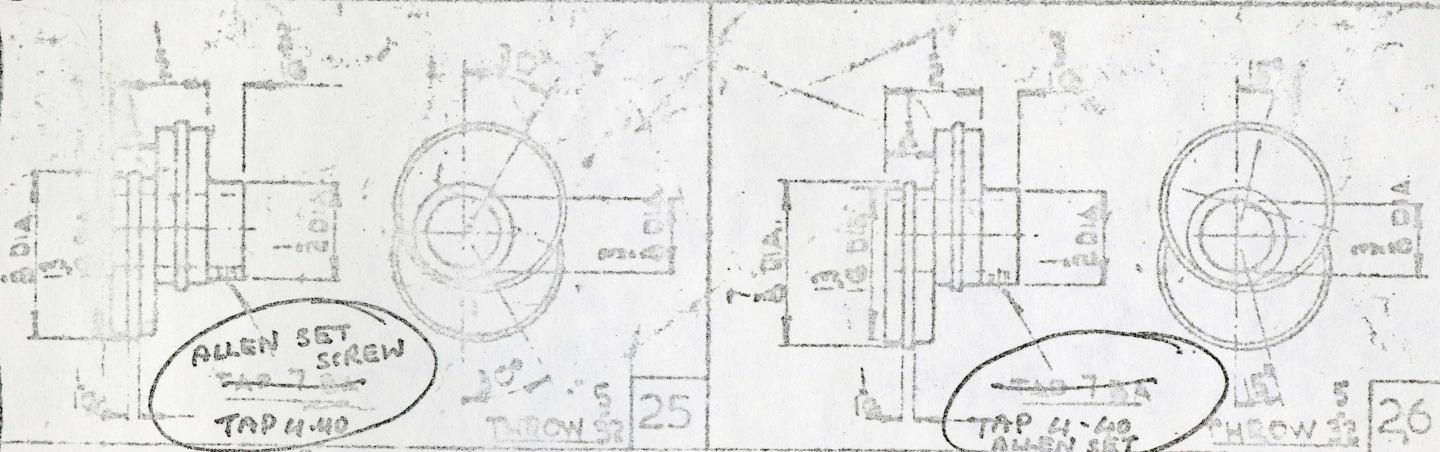
40

17  
3/32 CSS



QUART, TURNER LIMITED, ENGINEERS,

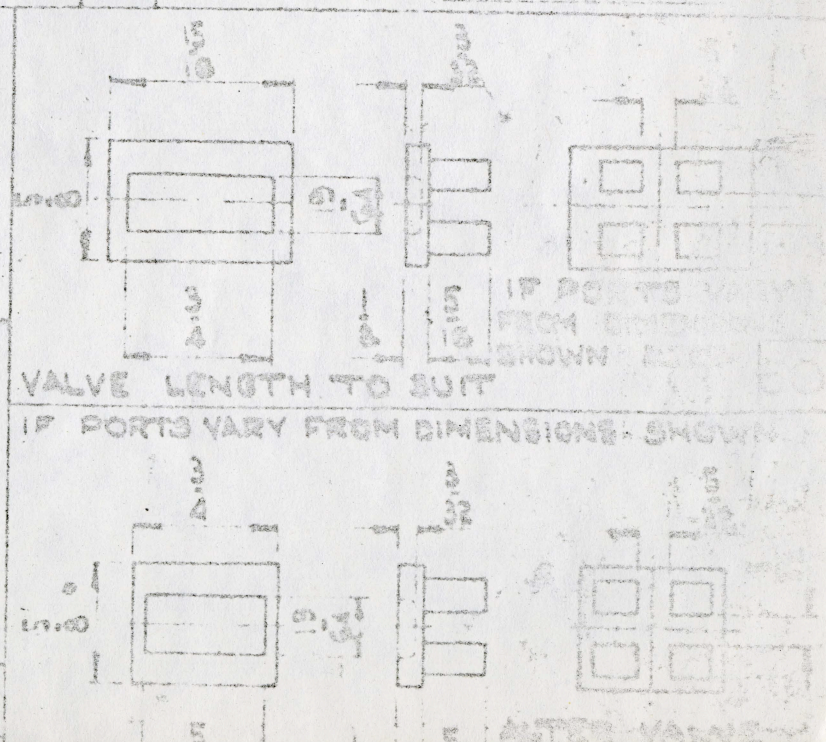
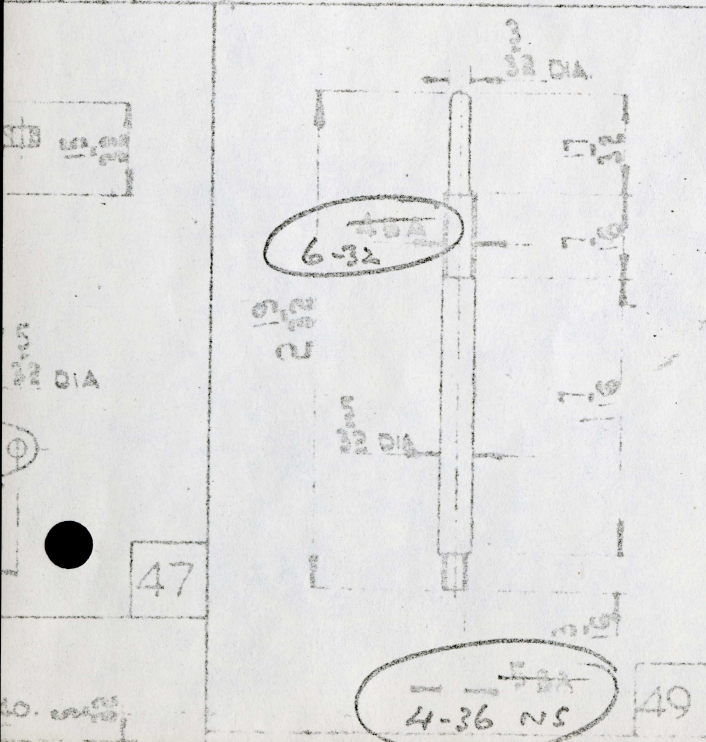
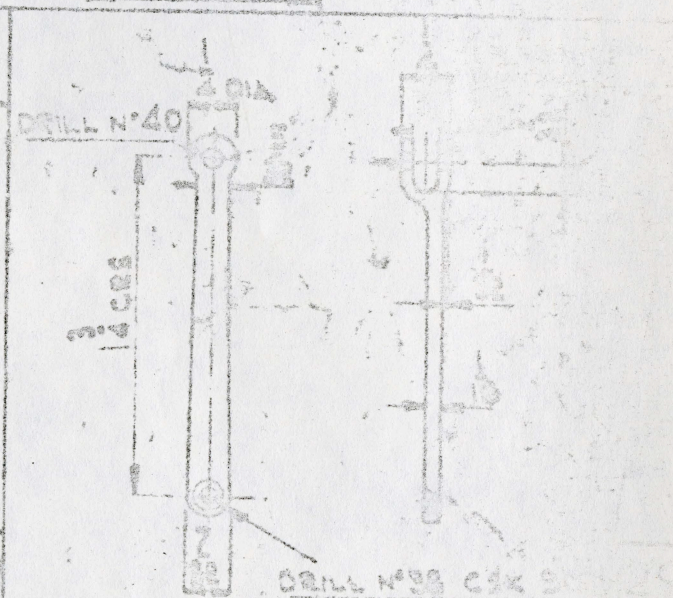
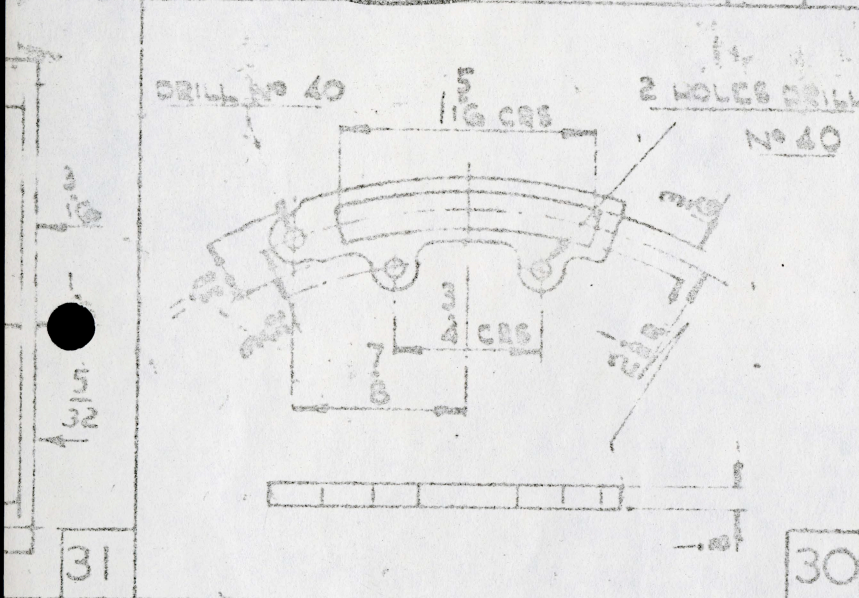
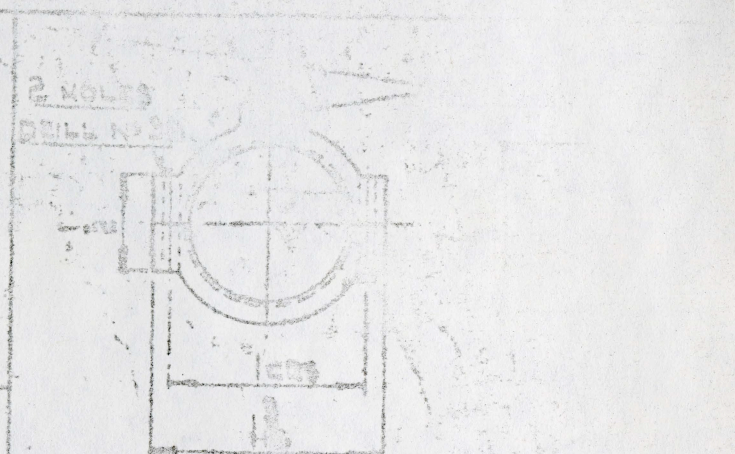
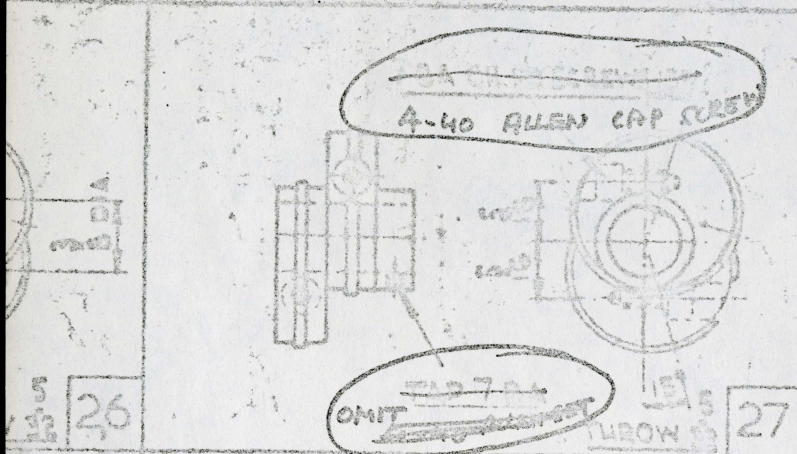
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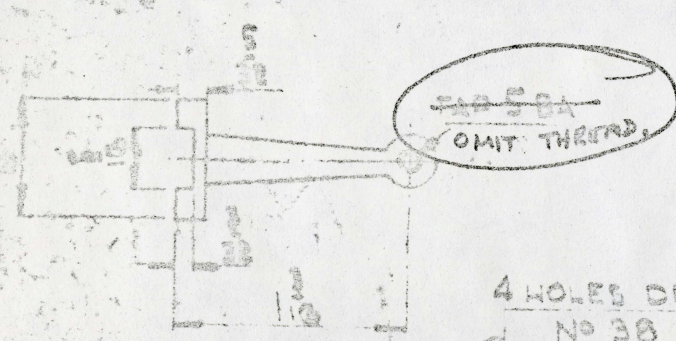
10

RS, HENLEY-ON-THAMES

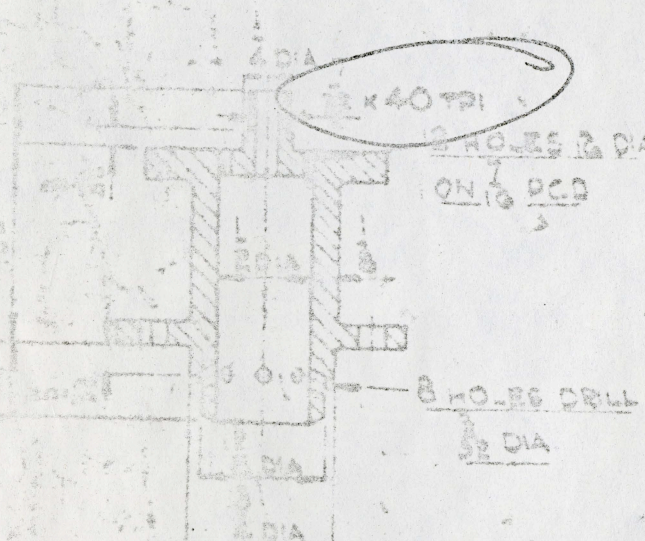
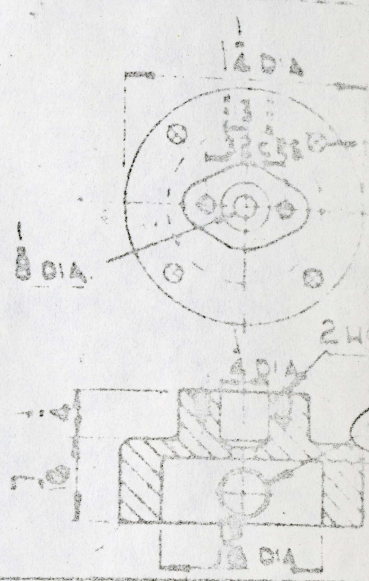
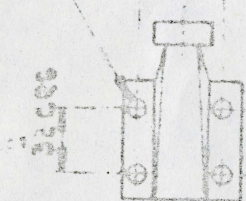




38



4 HOLE DR  
No 38



ON 10 DEC

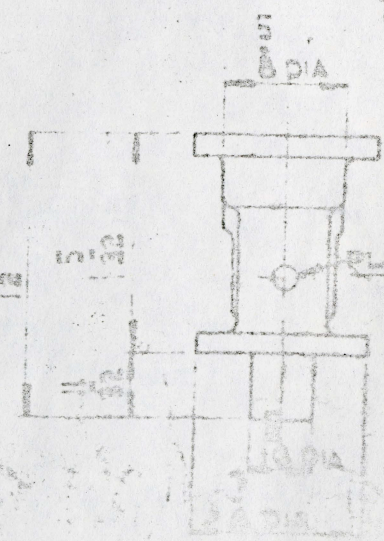
~~NO-RE CELL~~  
DIA

4 WOLFE TAD 78A  
ON 15 DEC



3 HOLES DRILL  
ON 2 1/2" P.C.D.

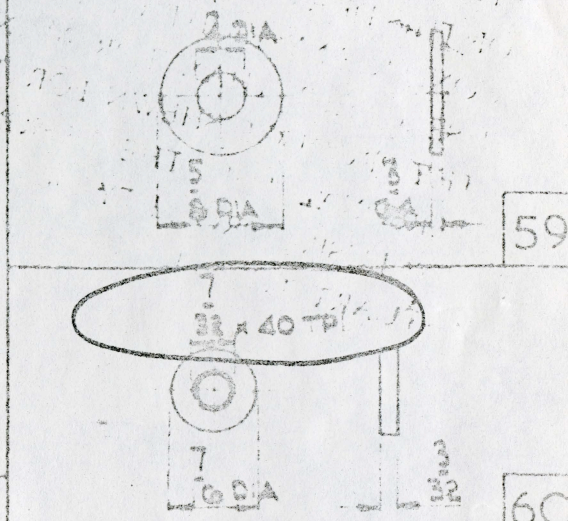
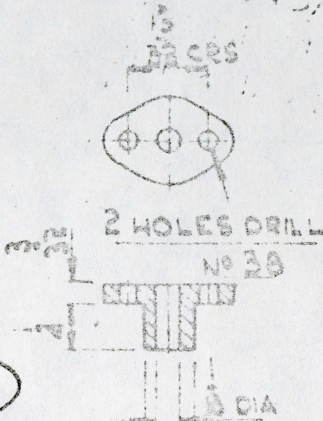
2 HOLE TAP





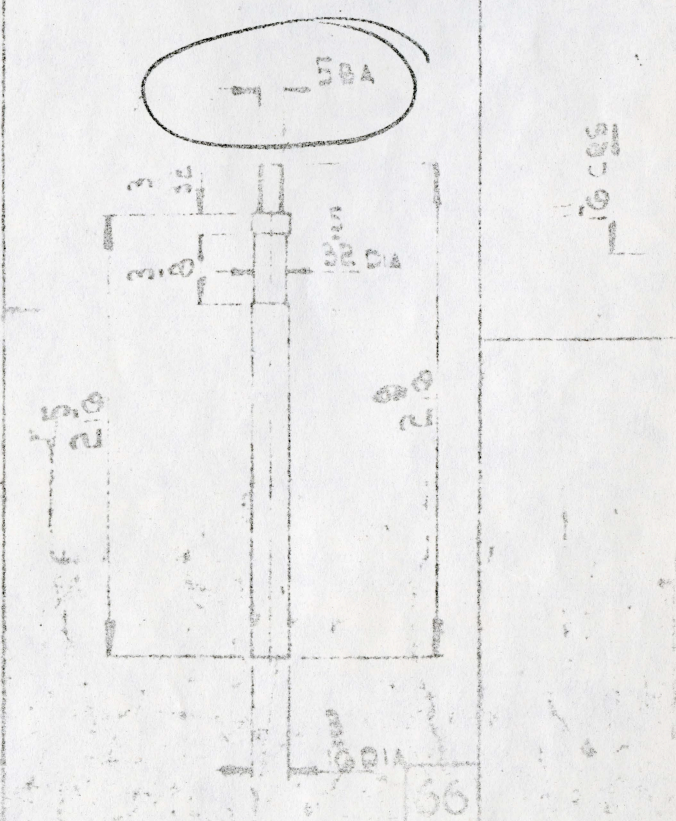
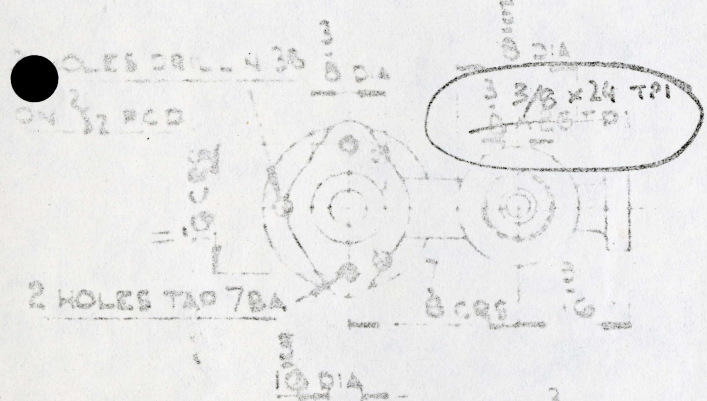
34

142



6

60



65

66



2 HOLES DRILL N°38

DRILL N°38

2 DIA  
3/2 DIA

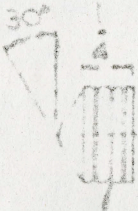
44

46

6 1/2

ITEMS 32 & 33 PINNED TO SHAFT

59

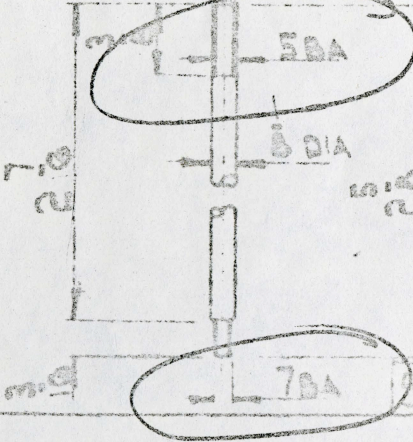


TAP 7BA

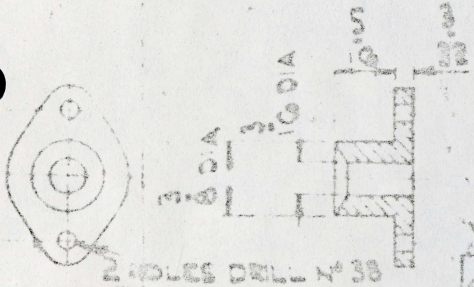
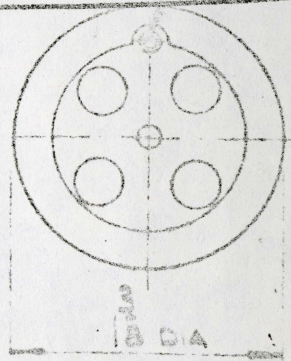
60

3 CROCKIES  
2 1/4 X DE

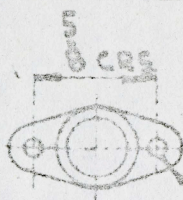
58



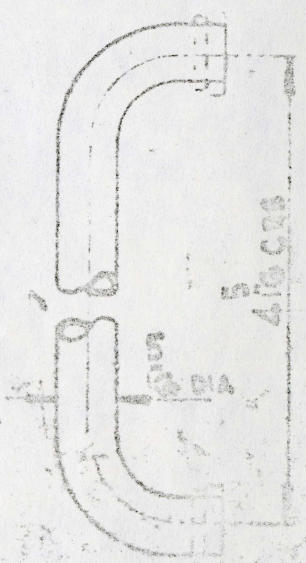
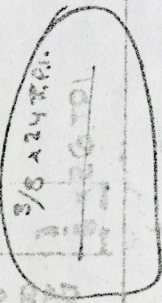
PRESS FIT



67



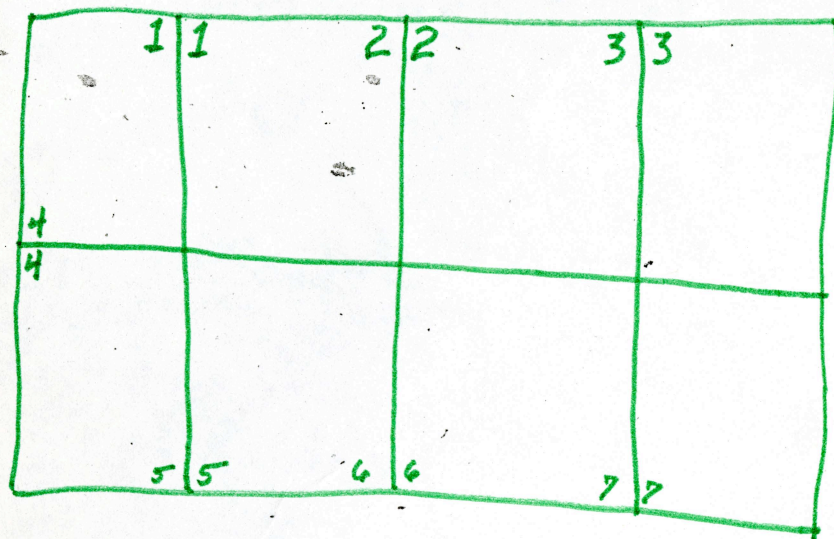
2 HOLES DRILL N°38



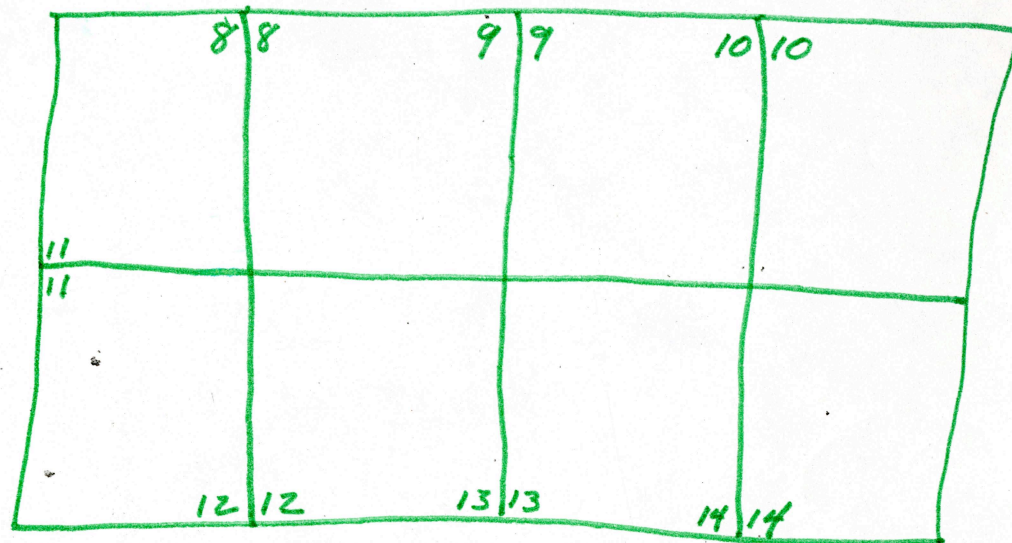


14





DWG 90016



DWG 90017

CAPCOM HAS THE ORIGINALS AND A COPY OF THIS "PIECE MAP". THESE COPIES ARE PRETTY SAD DUE TO THE SHAPE OF THE ORIGINALS, BUT HE SHOULD BE ABLE TO ANSWER ANY QUESTIONS.



1. The High Pressure cylinder is located at the front of the engine, flywheel at the rear.
2. The right-hand side of the engine is that side when viewed from the rear, looking forward.
3. Parts that require to be numbered for matching purposes are numbered on the front and/or right-hand side.
4. Split bearings (main and cam bearings) must be kept as matched pairs and are so numbered so that they can be matched and re-assembled in their original locations. In case the numbers become obliterated, a duplicate numbering by center-punch marks has been made.
5. Parts which may be assembled in different locations and/or which may be assembled in more than one rotational position should be assembled in the location and rotational position which gives the freest and best assembly. Trial and error method should be used.
6. All studs, bolts, nuts, etc., are "free running". Any tightness on assembly should be treated with caution - cross threading should be looked for, i.e. a stud not true to the surface should be backed off and re-fitted perpendicular to the surface. Be cautious of intermix of American Standard and British Association threads.
7. All studs and bolts have British Association threads.
8. The following carry American Standard threads:-
  - Piston to piston rod.
  - Cylinder columns.
  - H.P. cylinder casting to L.P. casting.
  - Set screws for eccentrics.
  - Split eccentric halves.
  - Valve rod and nut.
  - Valve rod and head.
  - Hand wheel (set screw).
  - Hand wheel guide and nut.
  - Reversing screw and barrel nut.



Air pump shaft to piston.

Air pump shaft to slide plate and arm.

Air pump valve nut.

Feed pump, shaft to slide plate and arm.

Intermediate valve tail rod guide in cylinder block.

Air pump, inlet and outlet.

Main steam inlet (H.P. valve chest).

Valve reversing shaft levers.

Bottom cover plate, for guide bar screws.

Guide bar bracket, for guide bar screws.

9. Special caution - 4-40 American Standard threads have been used when substituted for 7 B.A. except 4-36 threads for hand wheel reverse screw guide, also shortened 7 B.A. bolt, top rear pipe flange.
10. If this model is to be assembled and disassembled a number of times, it is advisable to assemble all studs finger tight only and all nuts only sufficient to make a secure assembly.
11. Make certain that all sub-assemblies with moving parts are completely free of binding before proceeding to next assembly.
12. When completing the assembly of the steam engine and making the valve timing and adjustment, be cautious when turning the engine, making certain that the valve does not "Bottom out", causing resistance to turning of the engine. Check in both forward and reverse. Damage may be done to eccentric rods if the engine is turned further until this adjustment is corrected so that the valves will not hit at the end of their travel.

The sliding action that takes place in the Exp. links (Item 30) also during adjustment may reach the limit of its travel - again damage may be caused if this is not adjusted to give clearance at both ends of travel. Drag links, if not properly aligned will allow the valve head bolt to foul the drag links. Any of these occurrences can cause damage and should be treated with suspicion if at any time increased resistance to turning of the engine is felt.

13. Good Luck!



# STEAM ENGINE PARTS

BAG No.

CONTENTS

1

3 MANIFOLDS

(LONG SCREWS FOR OPEN ENDED MANIFOLD

2

CYLINDER TOP COVERS

VALVE CHEST COVERS

X 3

SHEET METAL CYLINDER COVERS AND  
SCREWS

X 4

MATCHING

No. 1 AND 2 VALVE RODS (NUMBERED  
FROM OPPOSITE END FROM FLYWHEEL)  
EXPANSION LINK  
DRAG LINKS

5

VALVE CHEST AND VALVE (OPPOSITE END  
FROM FLYWHEEL)

8-STUDS

2-NUTS



6 MATCHING { NO. 5 AND 6 VALVE RODS  
EXPANSION LINK  
DRAG LINKS

7 VALVE CHEST AND VALVE (FLYWHEEL END)  
8- STUOS  
2- NUTS

8 HAND WHEEL

9 15 ~~FLYWHEEL~~

10 REVERSING SHAFT AND LEVERS

11 MATCHING { NO. 3 AND 4 VALVE RODS  
EXPANSION LINK  
DRAG LINKS

12 ✓ CONNECTING ROD ASSEMBLY (HIGH PRESSURE  
CYLINDER - FRONT OF ENGINE)

13 ✓ MATCHING { HIGH PRESSURE PISTON AND RING  
PISTON ROD ASSEMBLY



14 AIR PUMP ASSEMBLY

15 FEED PUMP ASSEMBLY

16 10 CONNECTING ROD (REAR OR FLYWHEEL END)

17 CENTER CONNECTING ROD

18 COLUMNS

GUIDE BAR BRACKETS

4 Flat heads - base plate

19 CRANKSHAFT

20 SOLEPLATE AND STAIRS

21 MATCHING { REAR CYLINDER PISTON (NO RING)  
PISTON ROD ASSEMBLY  
BOTTOM COVER

22 MATCHING { CENTER PISTON (NO RING)  
PISTON ROD ASSEMBLY  
BOTTOM COVER



23

CENTER VALVE ASSEMBLY

24

HIGH PRESSURE CYLINDER

11-STUDS (TOP AND BOTTOM)

25

LOW PRESSURE CYLINDERS

34-STUDS (TOP AND BOTTOM)