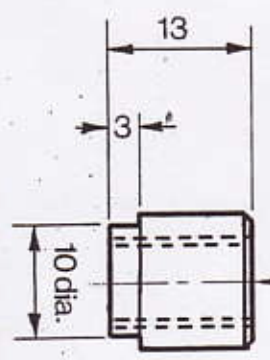
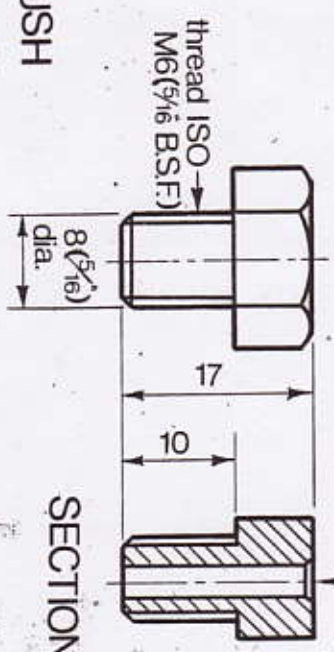


- ① centre drill
- ② drill 6-8
- ③ thread ISO M 8 ($\frac{5}{16}$ B.S.F.)



FILLER BUSH

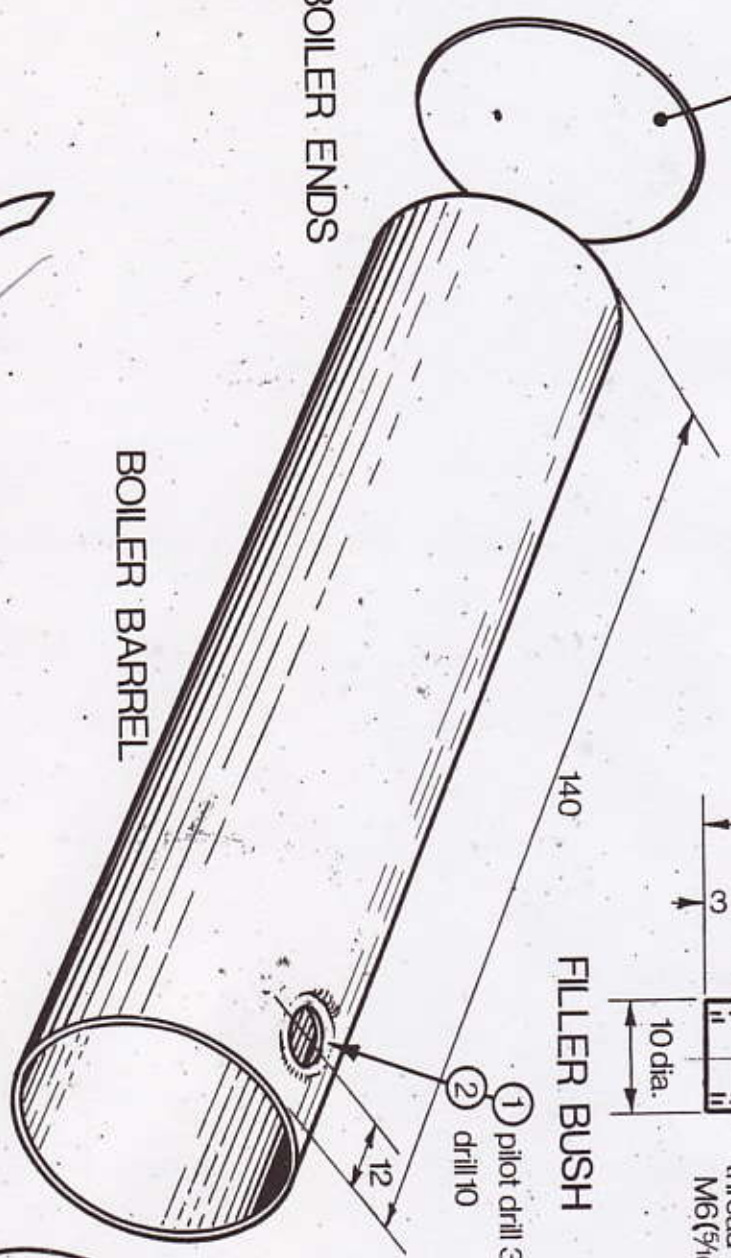
- ① centre drill
- ② drill 3-3
- ③ SLIGHTLY countersink



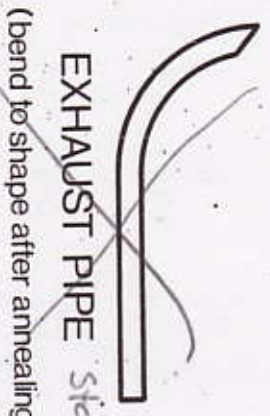
SAFETY VALVE

SECTION

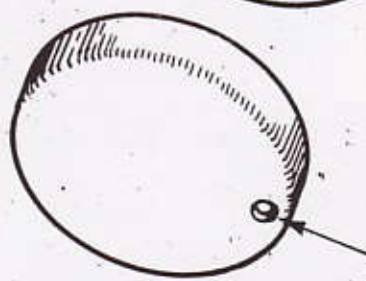
BOILER ENDS



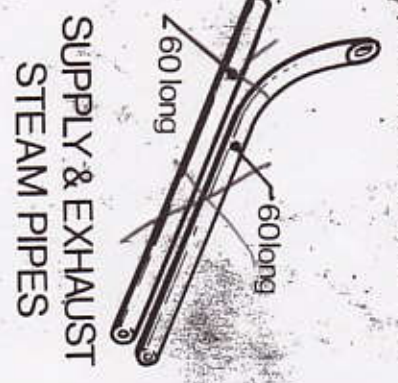
BOILER BARREL



EXHAUST PIPE *stationary engine only*
(bend to shape after annealing)



FLANGED BOILER END
FLUSH WITH
END OF TUBE

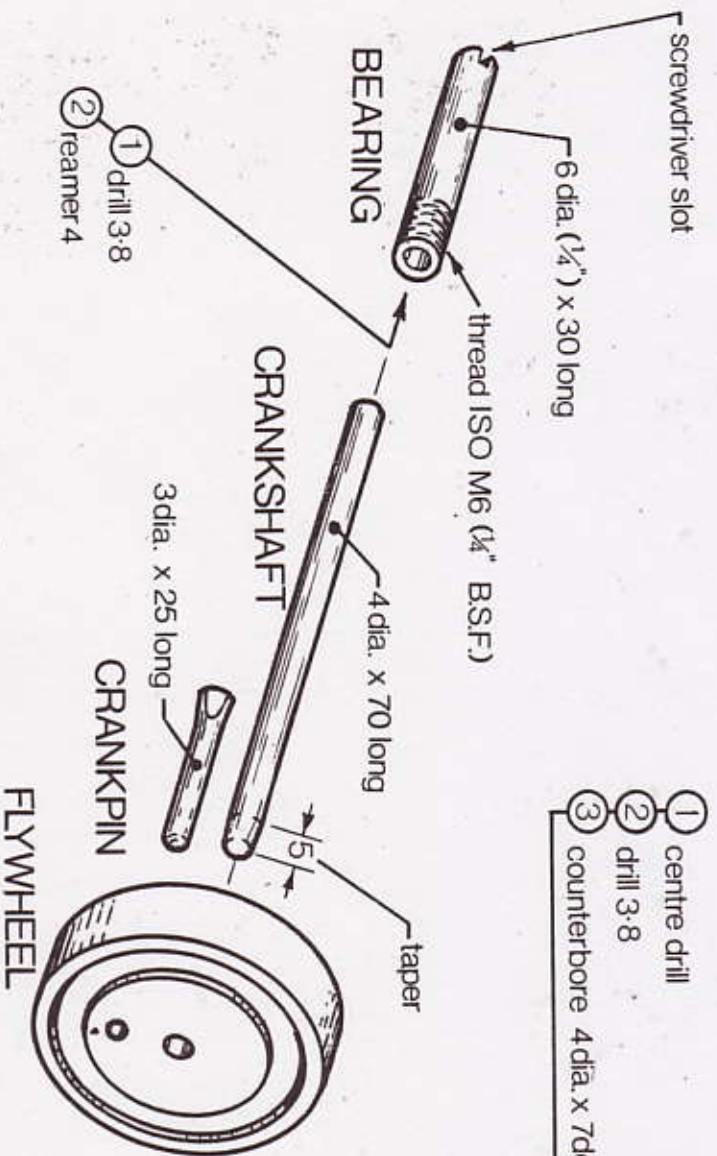


Do not drill, this is for stationary engine

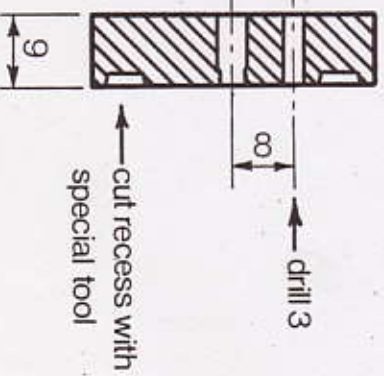
BOILER BARREL	42 O.D. x 1.2 (18g) COPPER TUBE	FILLER BUSH	12 ($\frac{1}{2}$) dia. BRASS ROD
BOILER ENDS	1.2 (18g) COPPER	SAFETY VALVE	11 ($\frac{7}{16}$) A.F. HEX. BRASS
STEAM PIPES	3 ($\frac{1}{8}$) O.D. COPPER TUBE		

39.4

Engine components 1



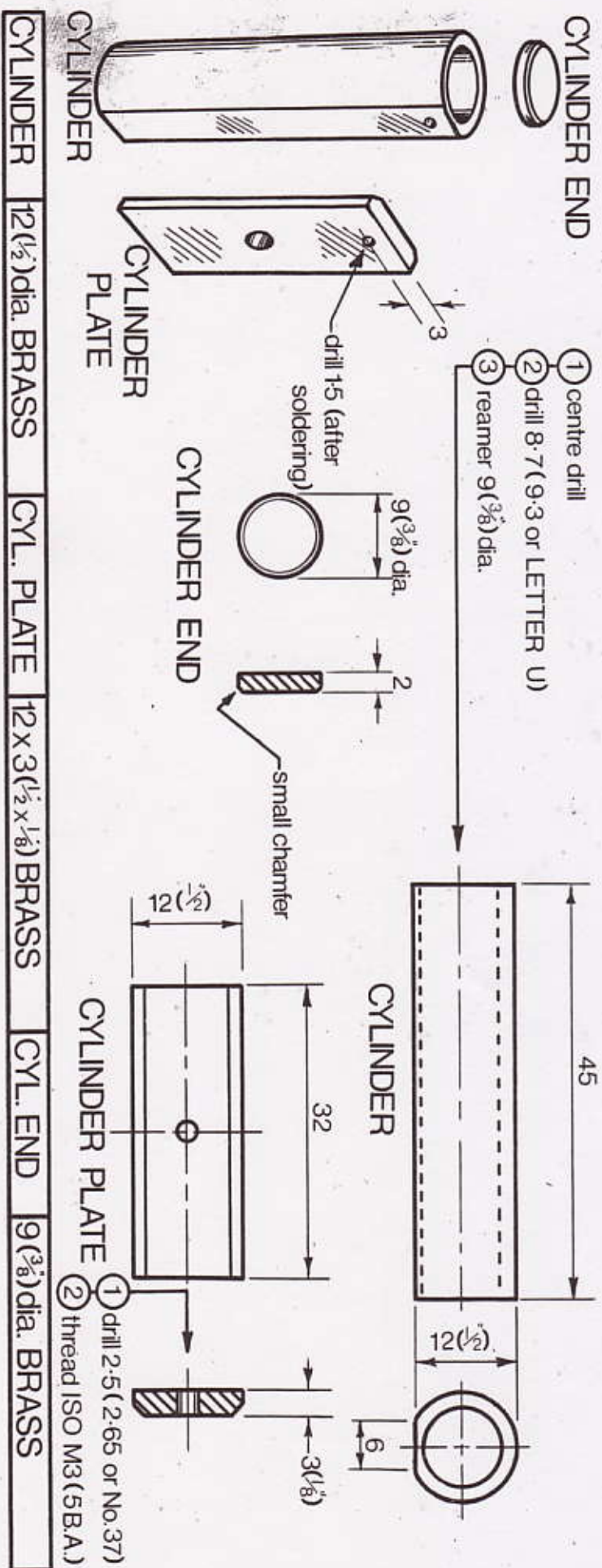
- ① centre drill
- ② drill 3-8
- ③ counterbore 4 dia. x 7 deep



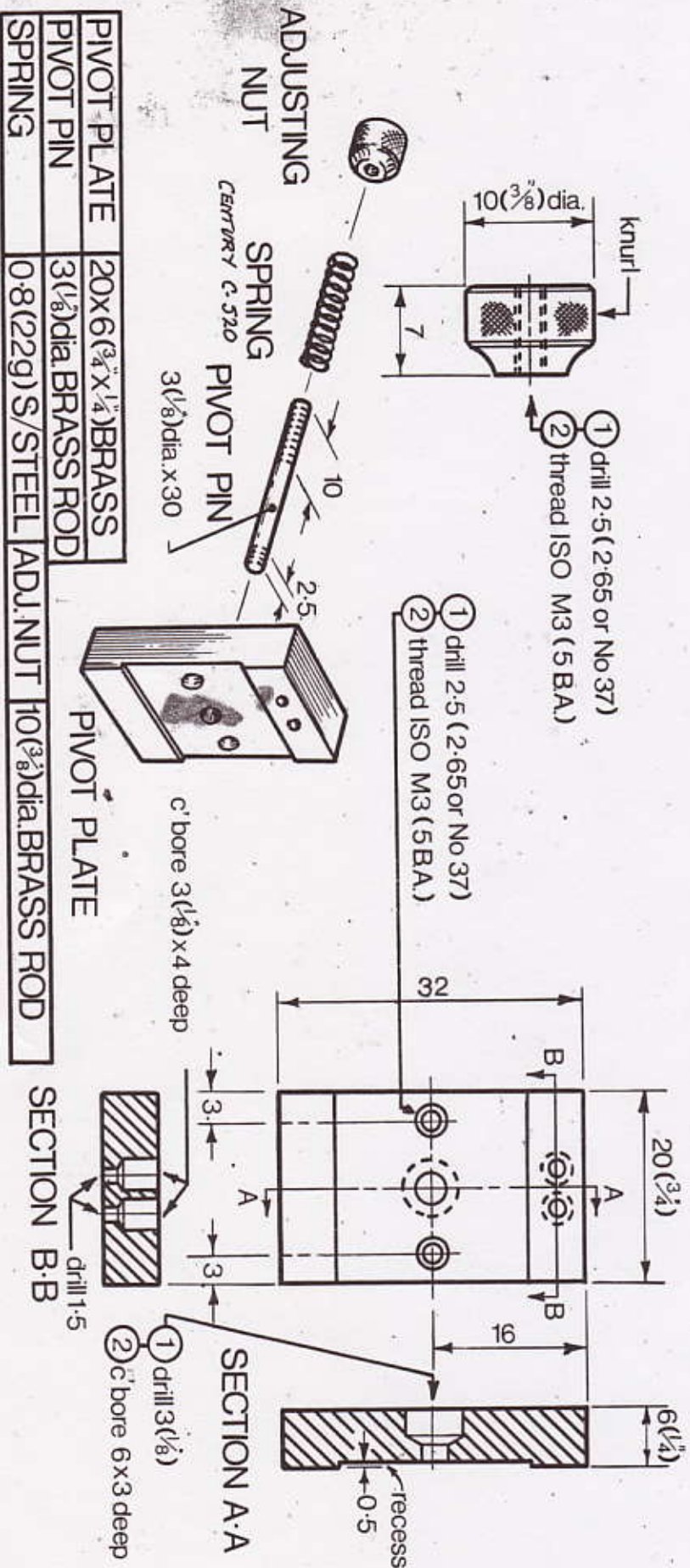
SECTION THROUGH
FLYWHEEL

FLYWHEEL	38 or 35 (1 1/2) dia. BDMS.
CRANKSHAFT	4 dia SILVER STEEL
CRANKPIN	3 dia SILVER STEEL
BEARING	6 (1/4) dia. BRASS

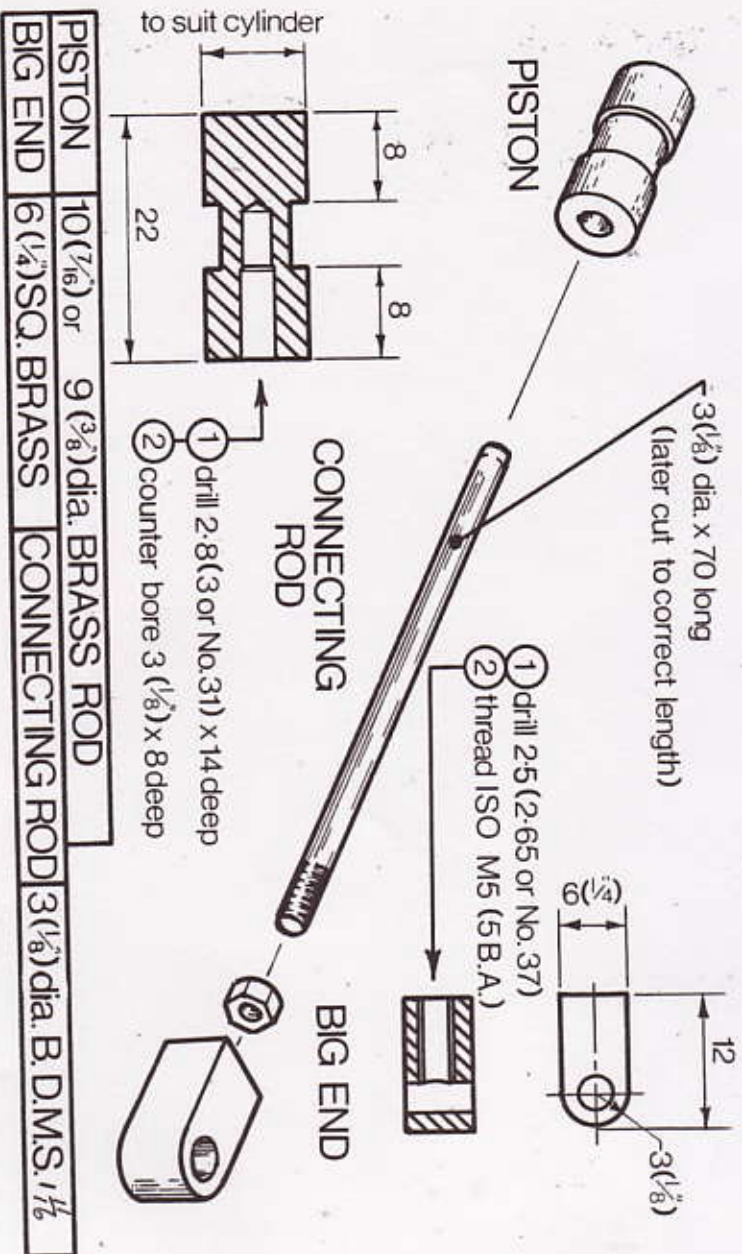
Engine components 2



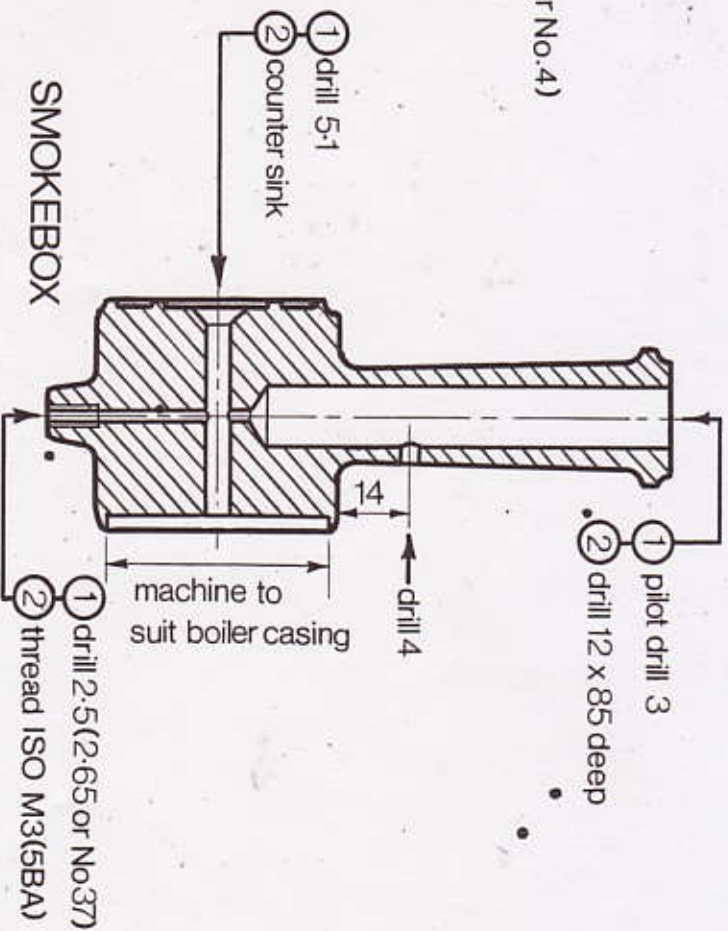
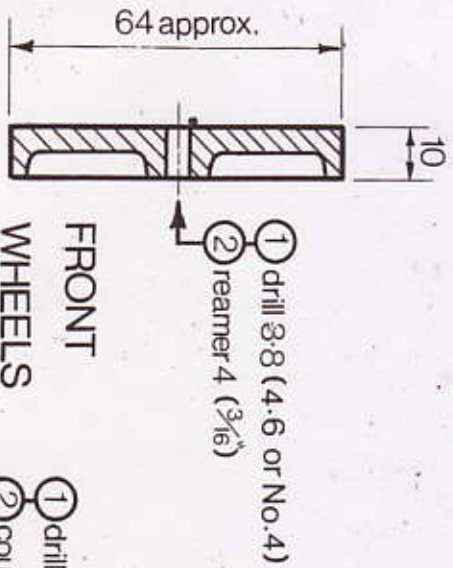
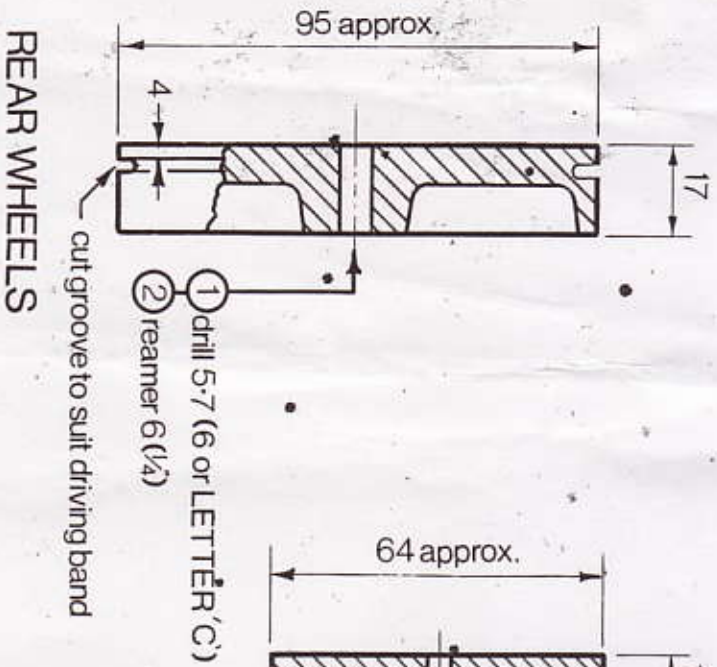
Engine components 3



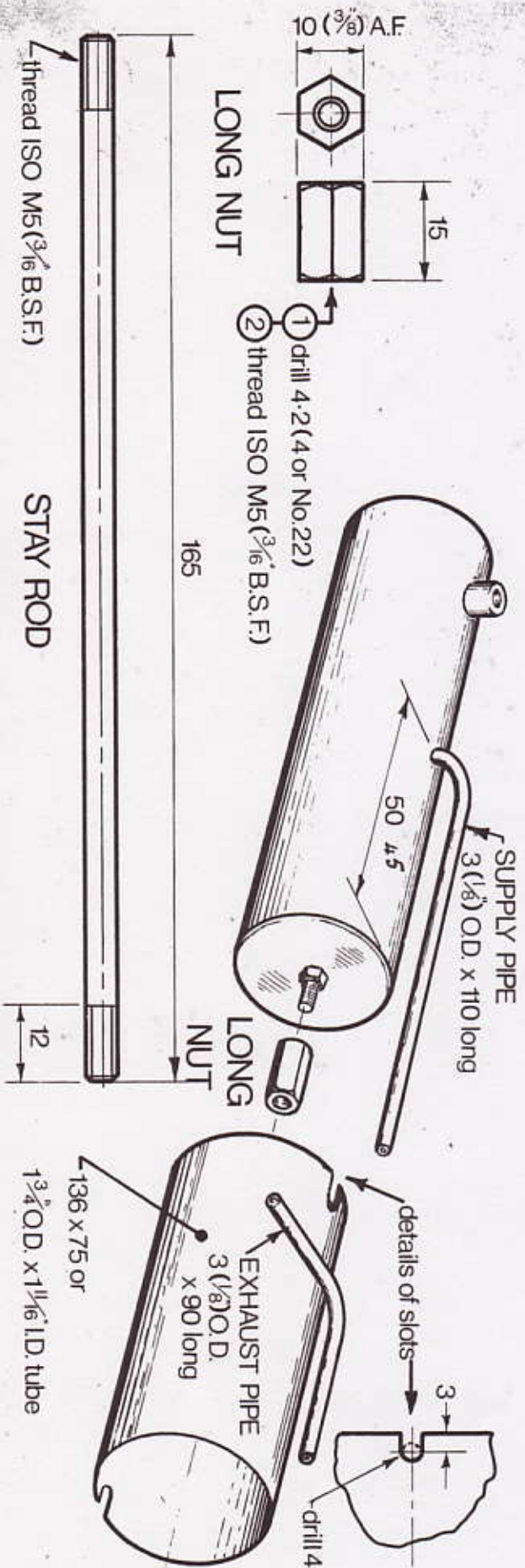
Engine components 4



Machining—wheels & smokebox

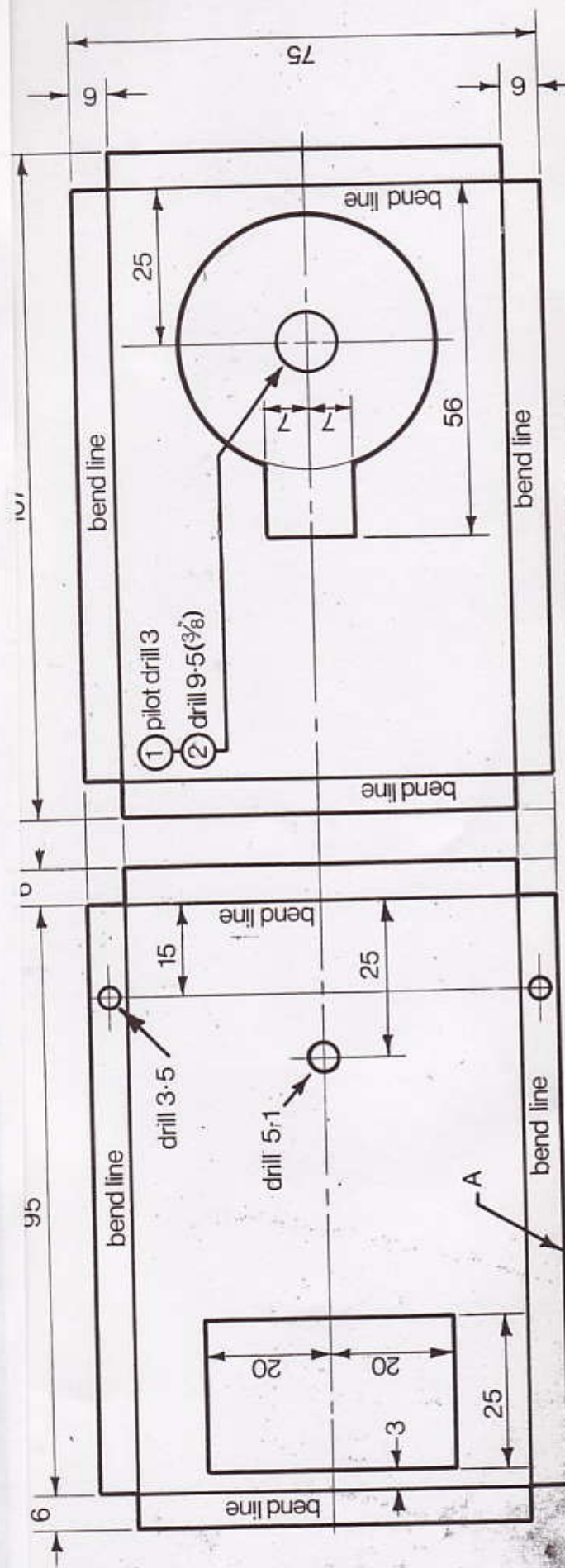


Boiler



BOILER CASING	1(20g) BRASS	STAY ROD	5($\frac{3}{16}$) dia. BRASS
STEAM PIPES	3($\frac{1}{8}$) O.D. COPPER	LONG NUT	10($\frac{3}{8}$) A.F. HEX. BRASS

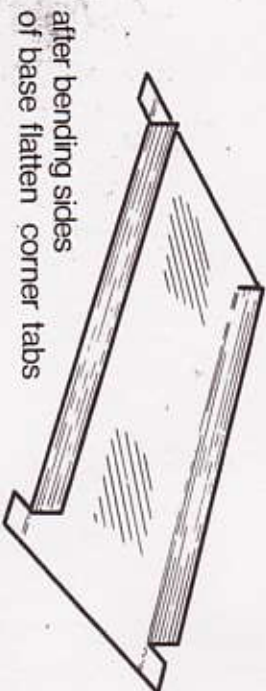
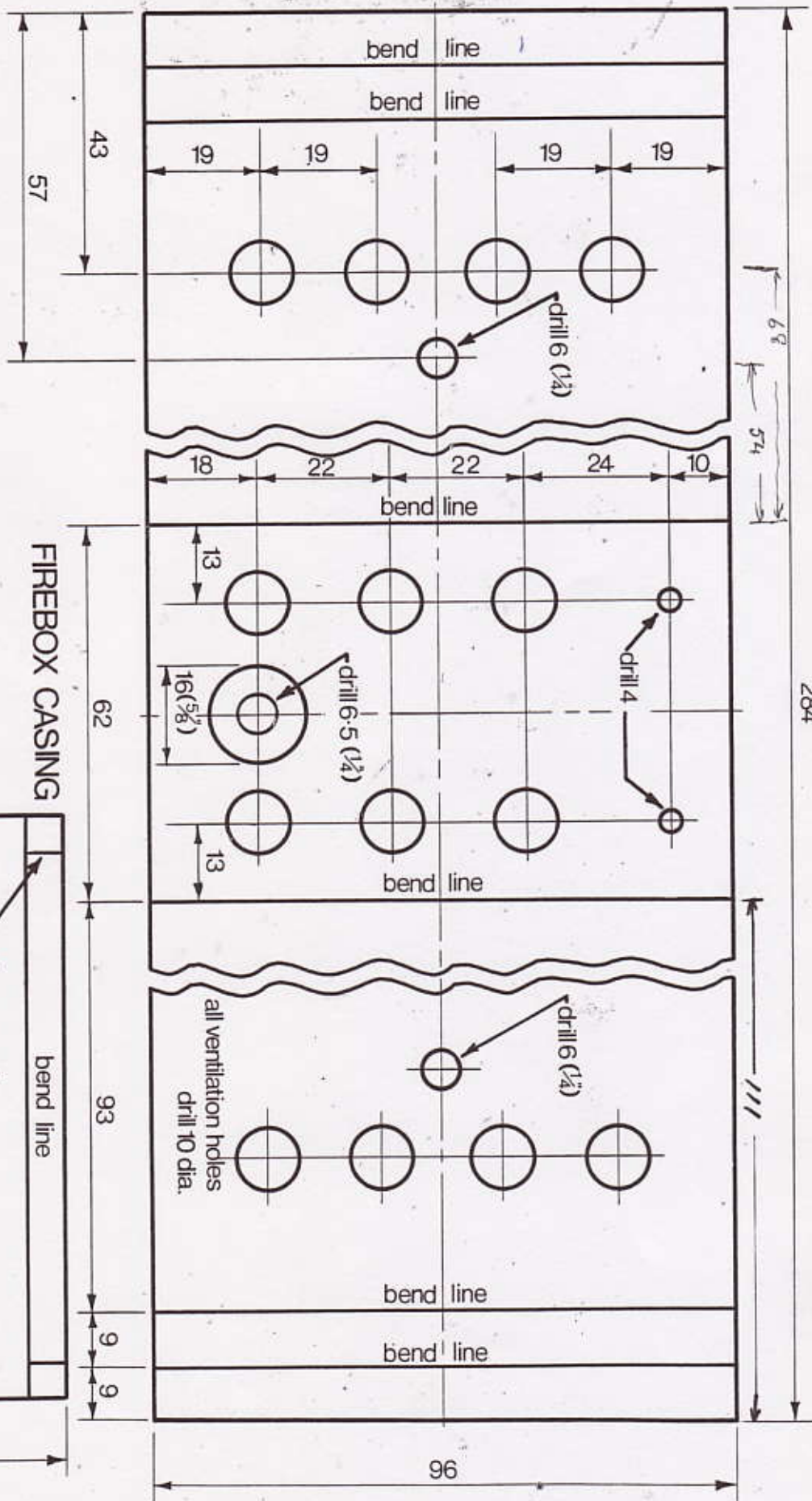
BOILER CASING



FIREBOX ENDS

FIREBOX ENDS 0.8 (22g) B.M.S. S. SHEET

284



FIREBOX CASING

cut corners to bend line

bend line

bend line

50

96

bend line

bend line

all ventilation holes
drill 10 dia.

drill 6 (1/4)

drill 6-5 (1/2)

drill 4

drill 6 (1/4)

bend line

bend line

bend line

FIREBOX CASING 0.6(24g) STAINLESS STEEL

FIREBOX BASE 0.5(26g) TIN PLATE

FIREBOX BASE

bend spring
to this shape
with pliers

LEAF SPRING

75x6 wide

NUT
 $\frac{3}{8}$ AF
BRASS
 $\frac{3}{8}$ LONG

thread ISO M4 ($\frac{3}{16}$ B.S.F.)

110

4 ($\frac{3}{16}$) dia.

FRONT AXLE

5

134

6 ($\frac{1}{4}$) dia.

NUT
 $\frac{1}{8}$ AF
 $\frac{1}{16}$ LONG

thread ISO M6 ($\frac{1}{4}$ B.S.F.)

REAR AXLE

6

AXLE CASING

24

4

bend line

bend line

drill 3:3

78

drill 3:3 & csk.

drill 2:6

(2.65 or No 37)

10 ($\frac{3}{8}$) dia.

10

drill 6:5

DISTANCE PIECES

(20ft)

FORK

bend lines

4rad

12 ($\frac{1}{2}$)

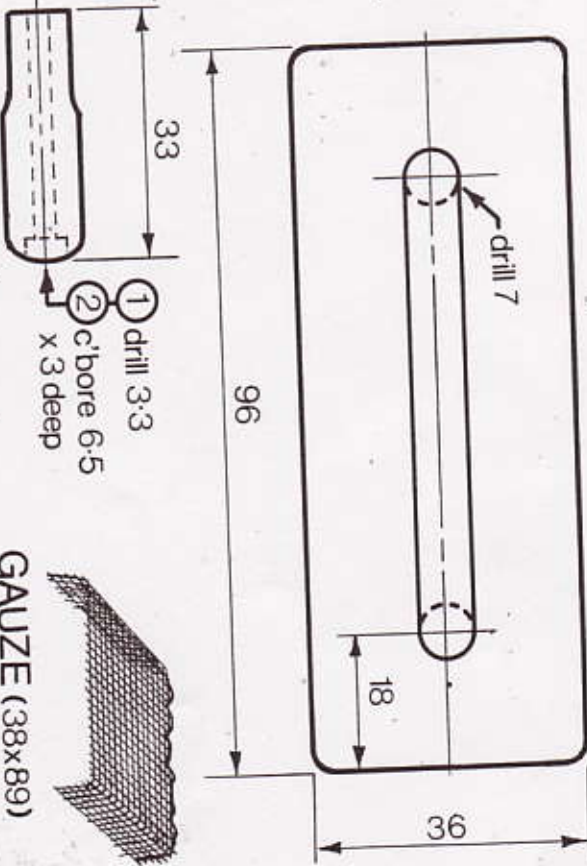
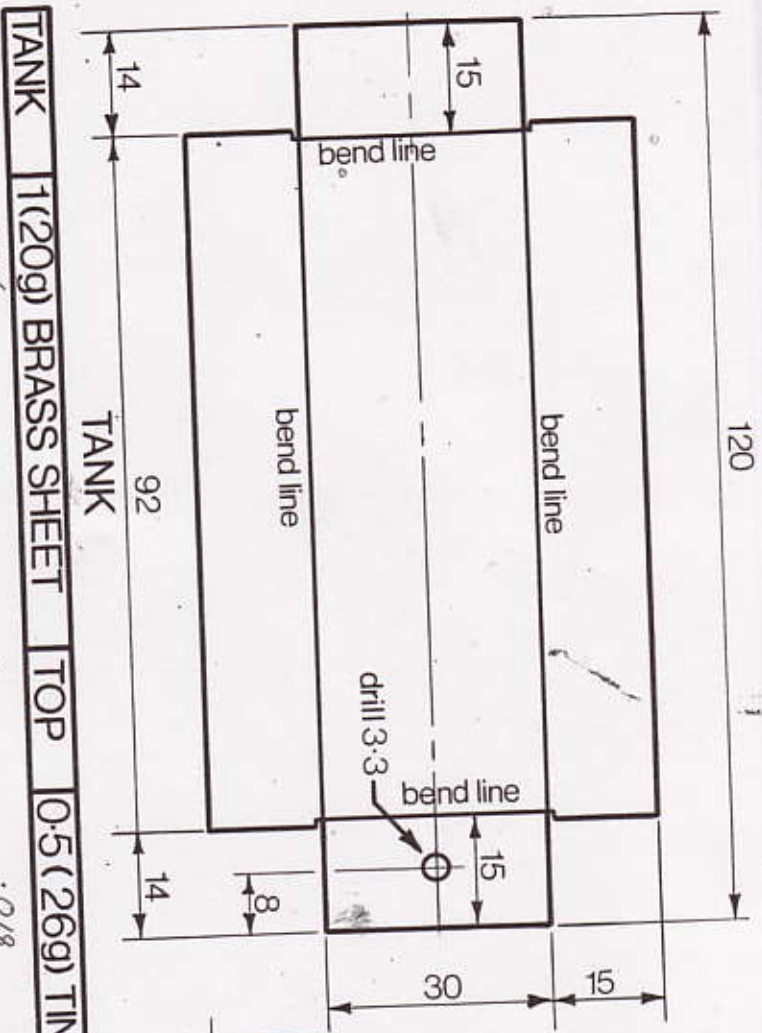
12

6

12

30

REAR AXLE	6 ($\frac{1}{4}$) dia BRASS	LEAF SPRING	6 ($\frac{1}{4}$) SPRING/S	DISTANCE PIECES	10 ($\frac{3}{8}$) dia. BRASS
FRONT AXLE	4 ($\frac{3}{16}$) dia BRASS	FORK	1.6 (16g) B.D.M.S.	AXLE CASING	0.6 (24g) S/STEEL



HANDLE ($\frac{3}{8}$ " dowel rod)

- ① drill 3.3
- ② c' bore 6.5 x 3 deep



GAUZE (38x89)

bend edges as shown

TANK 1(20g) BRASS SHEET TOP 0.5 (26g) TIN PLATE GAUZE 50 or 60 MESH COPPER

• 0.36

• 0.18

CANOPY

bend
line

CU

canopy bend approx 80°

measure this size with
the edge held parallel
this size LESS 3mm = X

drill 3.5-

 $10\left(\frac{3}{8}''\right)$

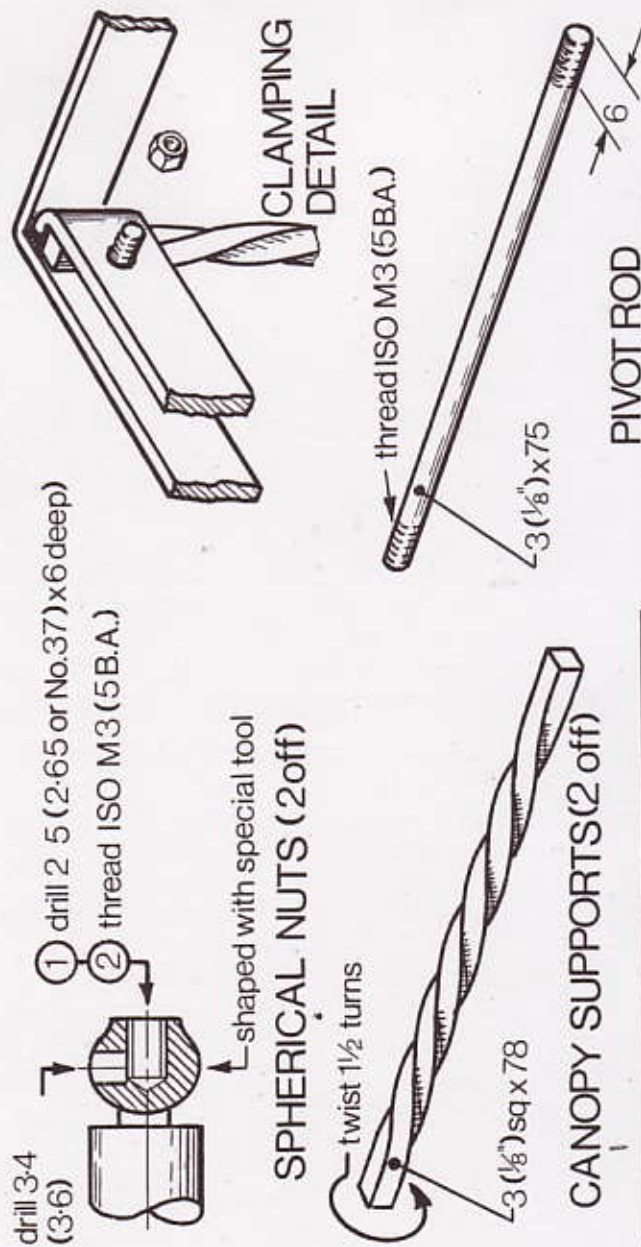
31

CLAMP STRIP

- bend lines

CANOPY ENDS (20ft)

81



SUPPORTS	3 (1/8") SQ. BRASS	NUTS	9 (3/8") dia. BRASS
PIVOT ROD	3 (1/8") dia. BRASS		