




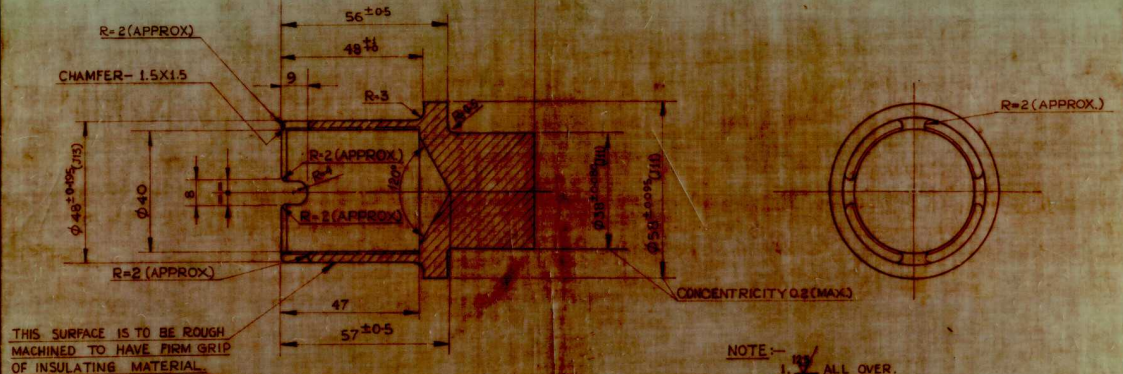
1. DIMENSIONS SLEEVE - REF 2, BEFORE ASSEMBLY -
O/D=63.14 \pm 54 \pm 01 L=785 mm.
2. HEAT THE SLEEVE TO 250° TO 280°C FOR SHRINKAGE.
OVER REF 1, DRG NO. 3.TWD.092.238.
3. EXPOSED STEEL PARTS SHALL BE CADMIUM PLATED /ZINC PLATED.
4. THE THREADED PORTIONS OF THE INSULATORS SHOULD BE COVERED BY A THREADED PLASTIC CAP.
5. MANUFACTURER TO PROVIDE THEIR METAL PUNCH/EMBOSS IDENTIFICATION MARK AT THE LOCATION SHOWN.

ALT. NO.	AUTHORITY	DESCRIPTION	INITIAL	DATE
1	DX.CEE/TM	NOTE REVISED & NO.3 ADDED	N.R.	6-NOV-70
2	"	NOTE ALTERED.	N.R.	9-6
3.	DX.CEE/TMD	ZINC PLATED ADDED IN NOTE 3	<i>Pat</i>	23-02-94
4.	DX.CEE/TMD.	NOTE - 4 ADDED. REF: NOTE NO. EL/TM/2013. DATED: 26-02-99	<i>Living</i>	28-02-99
5.	DX.CEE/TMD	NOTE - 5 ADDED REF.L.NO.EL/TM/2013 DT. 29.8.2002	<i>SL</i>	04-9-02

5472 760	2	—	TEFLON SLEEVE	4 NOS.	PTR
5472 725	1	3.TWD 092.238 (FINISHED)	MOLDDED STUD ASSY	4 NOS.	
5472 700	—	3.TWD 092.267 (ROUGH)	MOLDDED STUD ASSLY	4 NOS.	
C&D NO.	REF.	PART DRG. NO.	TERMINAL SUPPORT INSULATOR ASSEMBLY	QTY TM	MAT'L. SPECN. WT.
DATE	NAME	TRACTION MOTOR		CHIT TARANJAN •	
		TAO 659 & HS 15250 A		LOCOMOTIVE WORKS	
				WEST BENGAL, INDIA.	
DN		<u>TERMINAL</u>			
DRN.		<u>SUPPORT</u>			
CHD	97371	<u>INSULATOR</u>			
TRD	88.6	SCALE:- 1:1		APPROVED:- <i>[Signature]</i>	
COMP		REF. TR-601204A		No 3TWD.092.108.	

4916560/2026/O/o WM/Design/DMW/PTA

ALT NO	AUTHORITY	DESCRIPTION	INITIAL	DATE
1	DYCEE/TM(0)	NOTE 3 MODIFIED FOR G.T.	N. R.	9.6
2	DYCEE/TMD.	ALTERNATIVE MATERIAL ADDED IN NOTE 2.	<i>Signature</i>	23-02-94



NOTE:-

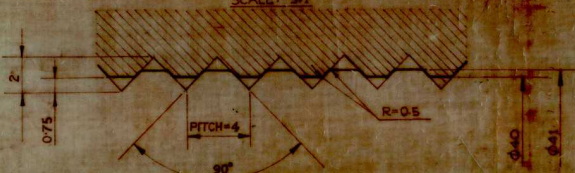
1. ALL OVER.2. H.T. STEEL TO IS: 961/62 ST. 58 HT/BS: 970/72
STEEL 080M40

OR EQUIVALENT.

3. TOLERANCE ± 0.2 WHERE NOT SPECIFIED.

DETAIL OF THREAD

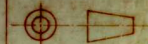
SCALE:- 5:1



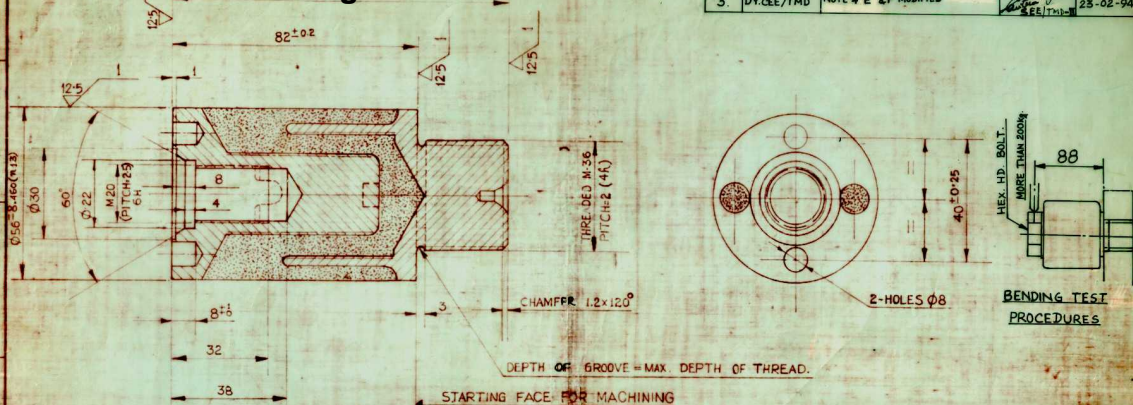
ALL DIMENSIONS ARE IN mm.

FILED OR ROUGH GRD	HANDENED & GROUND	GROUND	ROUGH MACHD.	FINISH MACHD.	FINE FINISH MACHD.

S/N	5472/728	—	—	STEEL FITTING	4 NPS	SEE	NOTES	0.650 K.S.
C&D NO.	REF	PART DRG. NO.	DESCRIPTION	QTY TM	MATL.	SPECN.	WT.	
DATE	NAME		TRACTION MOTOR					
DRG.			TAQ 659 & HS: 152 BDA					
CHD.	3.11							
TRD.	13.87	3.8. Schindler						
COMP			STEEL FITTING					
SCALE:- 1:1 & 5:1								
REF. TR6001228			(TERMINAL BOX ASSLY)					

APPROVED- *Signature*
No. 3TWD.092.237.

4916560/2026/O/o WM/Design/DMW/PTA



NOTE:-

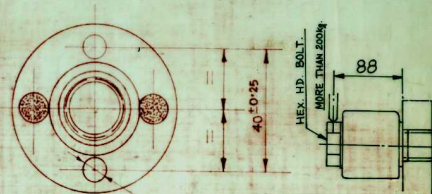
1. FOR UNMACHINED MOULDED COMPONENT REFER TO DRAWING NO.3TWD092.267.
2. CHAMFER ALL SHARP CORNERS TO 0.5x0.5.
3. TOLERANCE ±0.2 WHERE NOT SPECIFIED.
4. THE INSULATOR (SPECIALLY THE BINDER) SHALL BE SUITABLE FOR (I) CONTINUOUS WORKING TEMP. OF 150°C AND ALSO (II) OCCASIONAL OVEN-HEATING AT 200°C FOR LONG DURATIONS (16/24 HRS) WITHOUT LOSS OF PROPERTIES. THEY SHOULD ALSO COMPLY WITH THE MECHANICAL AND ELECTRICAL REQUIREMENTS MENTIONED BELOW:

- A) ULTIMATE TENSION NOT LESS THAN 6500KG AT FRACTURE (TYPE-TEST).
- B) ROUTINE TEST AT 2000KG. (TENSILE).
- C) 1) ALL INSULATORS SHOULD WITHSTAND 15 KV. 50 C/S FOR 1 MIN. IN AIR.
2) ONE NO. INSULATOR FROM EACH LOT SHALL WITHSTAND 32 KV. 50 C/S FOR 1 MIN. IN OIL.
- D) INSULATION RESISTANCE :- MORE THAN 2000 MEGOHM
- E) TORSIONAL STRENGTH :- MORE THAN 45 Kgf.-M.
- F) BENDING STRENGTH :- MORE THAN 2000 Kgf. X 88 MM.
- G) STOCKING C & D NO. OF HS15250 (HITACHI MOTOR) WILL BE 7119/5560/300.

ALL DIMENSIONS ARE IN MM.



ALT. NO.	AUTHORITY	DESCRIPTION	DATE	DATE
1.	DY.CEE/TM	NOTE MODIFIED FOR G.T.	9.6.	
2.	DY.CEE/HM	NOTE 'D' TO 'G' ADDED	6/12/88	
3.	DY.CEE/TMD	NOTE 4 E & F MODIFIED	23-02-94	

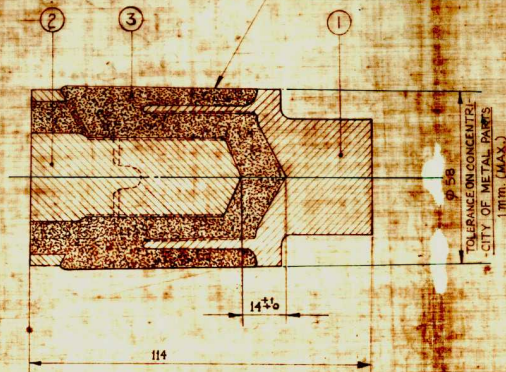


BENDING TEST PROCEDURES

5119/5560/300	REF	PART	MOULDED STD. ASSLY. (FINISHED)	4	NOS				
C&D NO.	DATE	NAME	DESCRIPTION	QTY	MATL.	SPEED	WT.		
5119/5560/300			TRACTION MOTOR						
			TAO 659 & HS15250A						
			MOULDED STD ASSLY (FINISHED)						
			SCALE: 1:1						
			APPROVED: (TERMINAL BOX ASSLY)						
			RE: TR-6001226A						

APPROVED: (TERMINAL BOX ASSLY)
No.3TWD.092.268

4916560/2026/O/o WM/Design/DMW/PTA

DRAWING ALLOWANCE $\phi 58$ TO $\phi 60$
TO FACILITATE REMOVAL FROM MOULD.

REV. NO.	AUTHORITY	DESCRIPTION	INITIAL	DATE
1.	DY.CEE/TM	NOTE REVISED	N.R.	16.1.93
2.	DY.CEE/TM-D	EQUIVALENT MATERIAL INCORPORATED AGAINST REF.3 AS ADVISED BY CEE/TM.	SEE/TM-D	02.8.2004
3.	DY.CEE/TMD	DESCRIPTION OF REF3 MODIFIED REF.L.NO.EI/TM/2013.DT.29.7.04		

NOTE:-

1. TOLERANCE ± 0.2 WHERE NOT SPECIFIED.
2. FOR MOULDED STUD ASSEMBLY-FINISHED, SEE DRG NO. 3TWD.092.238.

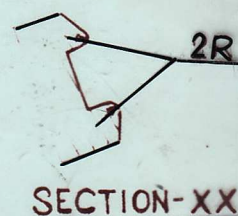
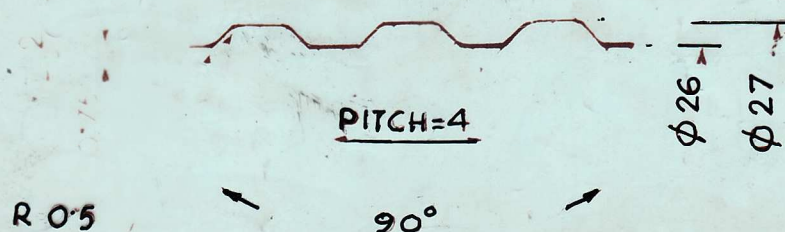
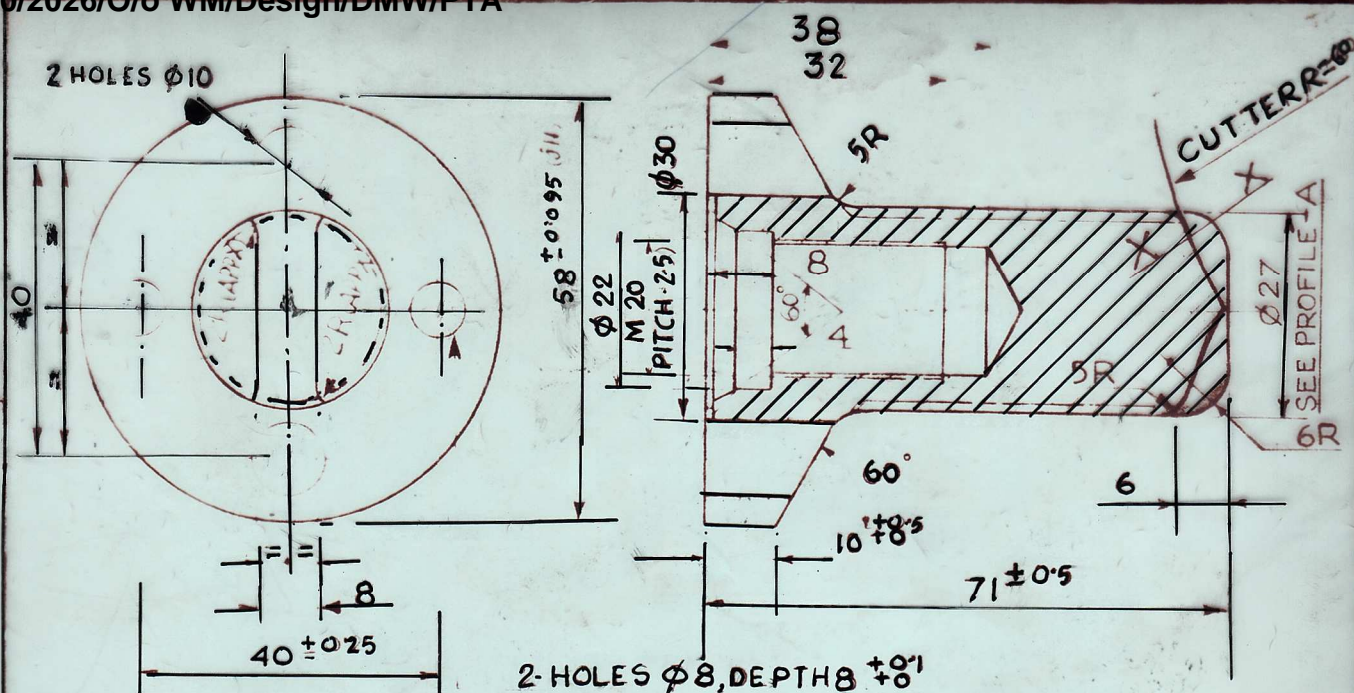
ALT. 3
ALT. 2

5119/5472/725	3	INSULATING MOULDING COMPOUND OR GLASS BONDED MICA	R.Q.	—	—
5472/727	2	STEEL FITTING	4 NOS.	—	—
5472/726	1	STEEL FITTING	4 NOS.	—	—
5472/725		MOULDED STUD ASSEMBLY (ROUGH)	4 NOS.	—	—
C&D NO.	REV.	PART DRG NO.	DESCRIPTION	QTY	MATL.
DATE	NAME				
DGM			TRACTION MOTOR		CHIT. TARANJAN
DRN			TAO-659 & HS15250A		LOCUMOTIVE WORKS
CHD	19.3.93				WEST BENGAL, INDIA
TRD	5.4.93				
COMP			MOULDED STUD ASSEMBLY (ROUGH)		
SCALE	1:1				
REF	TR6001227/G		(TERMINAL BOX ASSEMBLY)		
				APPROVED	
				No. 3 TWD 092 26	

ALL DIMENSIONS ARE IN MM.



No. 3TWD.092.267



THREAD PROFILE - A
SCALE-5:1

NOTE:

1. ∇ ALL OVER
2. MATERIAL STEEL TO IS: 961/62 ST 58 HT OR EQUIVALENT.
3. TOLERANCE ± 0.2 WHERE NOT SPECIFIED
4. ALL DIMENSIONS ARE IN MM. AND AFTER MACHINING.
5. $\nabla\nabla$ MACHINING SHALL BE DONE AFTER MOULDING.

[illegible]