



GEAR INSTRUCTION BOOK

GEK- 25933

FOR TEXT SEE GEK-25892

Speed Reducing	Gear Type S-624-A4	Serial Numbers(s)
Rating	28,000 KW	RPM 5105/3600
Purchaser	Date	
Used with	SGT Generator Drive (Package Power)	
Center Distance	22.3333''	Active Tooth Width 24.000''
No. of Teeth (Pinion)	55	No. of Teeth (Gear) 78
Pitch Diameter (Pinion)	18.4712''	Pitch Diameter (Gear) 26.1955''
Diametral Pitch	2.9776120	Whole Depth .693''
Pressure Angle	17.50°	Helix Angle 30.7324998°
Pinion Bearings	7'' x 8''	Nominal Clearance .013'' - .018''
Gear Bearings (Elliptical)	9'' x 7''	Nominal Clearance .014'' - .019'' (Min) .021'' - .026'' (max.)
Generator Support Bearing	9'' x 6''	Nominal Clearance .014'' - .019''
Expected Oil Flow	105 GPM	Approx. Heat Rejection 13,428 BTU/MI
Operating Oil Pressure	25 PSIG in header orificed to 14-16 PSIG in gear	

Gear Assembly photo print 2125803

1974 BUILT.

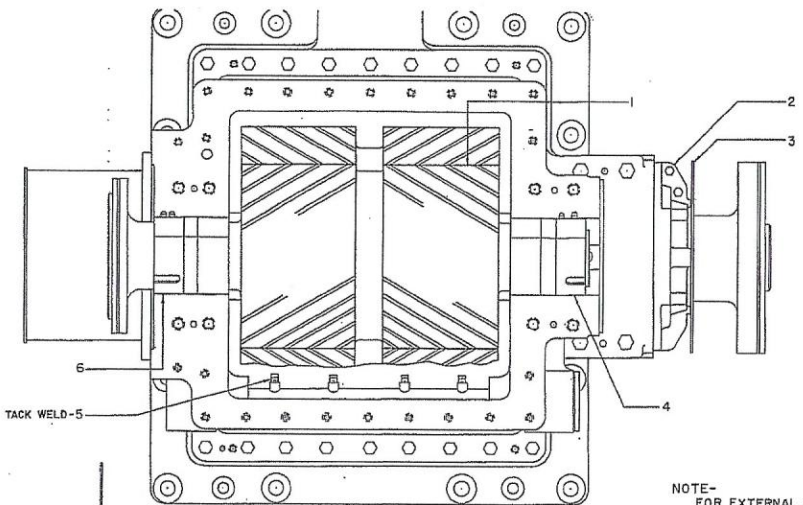


82" L X 52" W X 68" H
WEIGHT : 13,000 LBS

TIGHTEN NUTS TO
8 FT. LBS. TOL. ± 5%

21

5 & 19 AND 15 & 21
MATCH MARKED

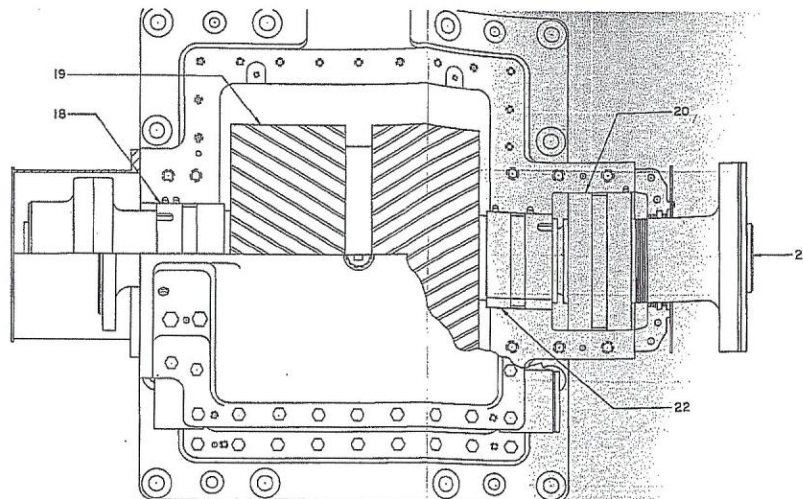


VIEW WITH UPPER CASING REMOVED

VENT CONNECTION

82"

NOTE-
FOR EXTERNAL ALIGNMENT
SEE GAS TURBINE DEPT. & GENERATOR
DEPT. INSTRUCTIONS.



VIEW WITH UPPER & INTERMEDIATE
CASINGS PARTIALLY REMOVED

OIL INLET TO GEAR BEARINGS
& MESH
CHECK & ADJUST ORIFICE IF
NECESSARY AT INSTALLATION TO
PROVIDE 14-16 PSI GEAR BOX
OIL PRESSURE

GROUNDING BRUSH &
SUPPORT HARDWARE
TO BE FURNISHED BY
GENERATOR DEPT.

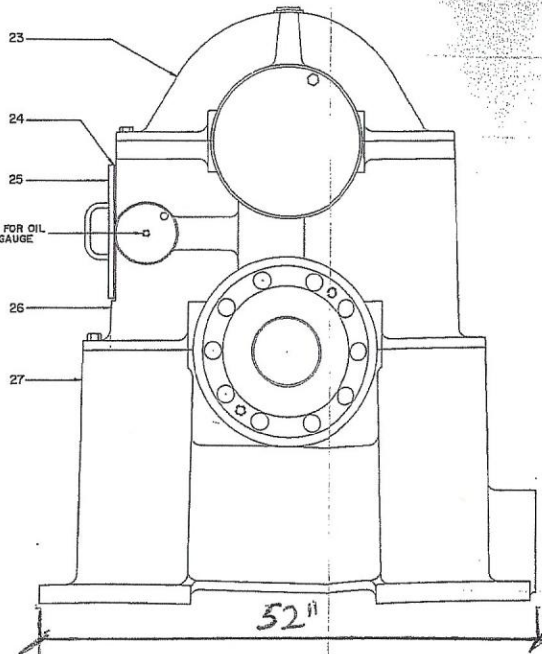
FEED
COUPLING

50.5"

27.5"

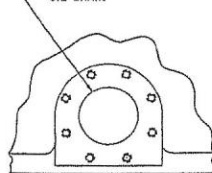
65"

CONNECTION FOR OIL
PRESSURE GAUGE



52"

OIL DRAIN



△
△
△
△
△
△
△
△