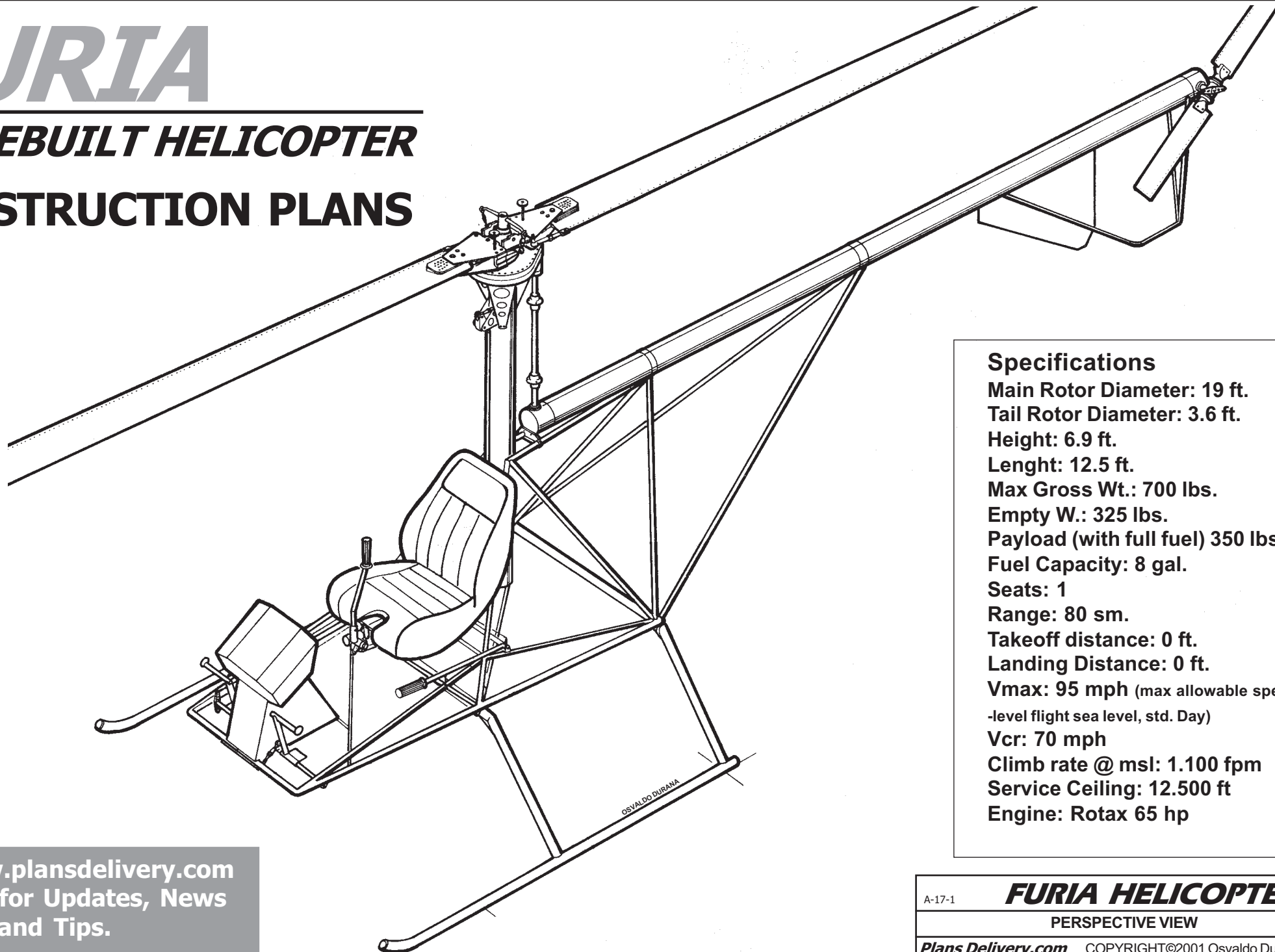


FURIA

HOME BUILT HELICOPTER CONSTRUCTION PLANS



Specifications

Main Rotor Diameter: 19 ft.

Tail Rotor Diameter: 3.6 ft.

Height: 6.9 ft.

Length: 12.5 ft.

Max Gross Wt.: 700 lbs.

Empty W.: 325 lbs.

Payload (with full fuel) 350 lbs.

Fuel Capacity: 8 gal.

Seats: 1

Range: 80 sm.

Takeoff distance: 0 ft.

Landing Distance: 0 ft.

Vmax: 95 mph (max allowable speed

-level flight sea level, std. Day)

Vcr: 70 mph

Climb rate @ msl: 1.100 fpm

Service Ceiling: 12.500 ft

Engine: Rotax 65 hp

Visit www.plansdelivery.com
regularly for Updates, News
and Tips.

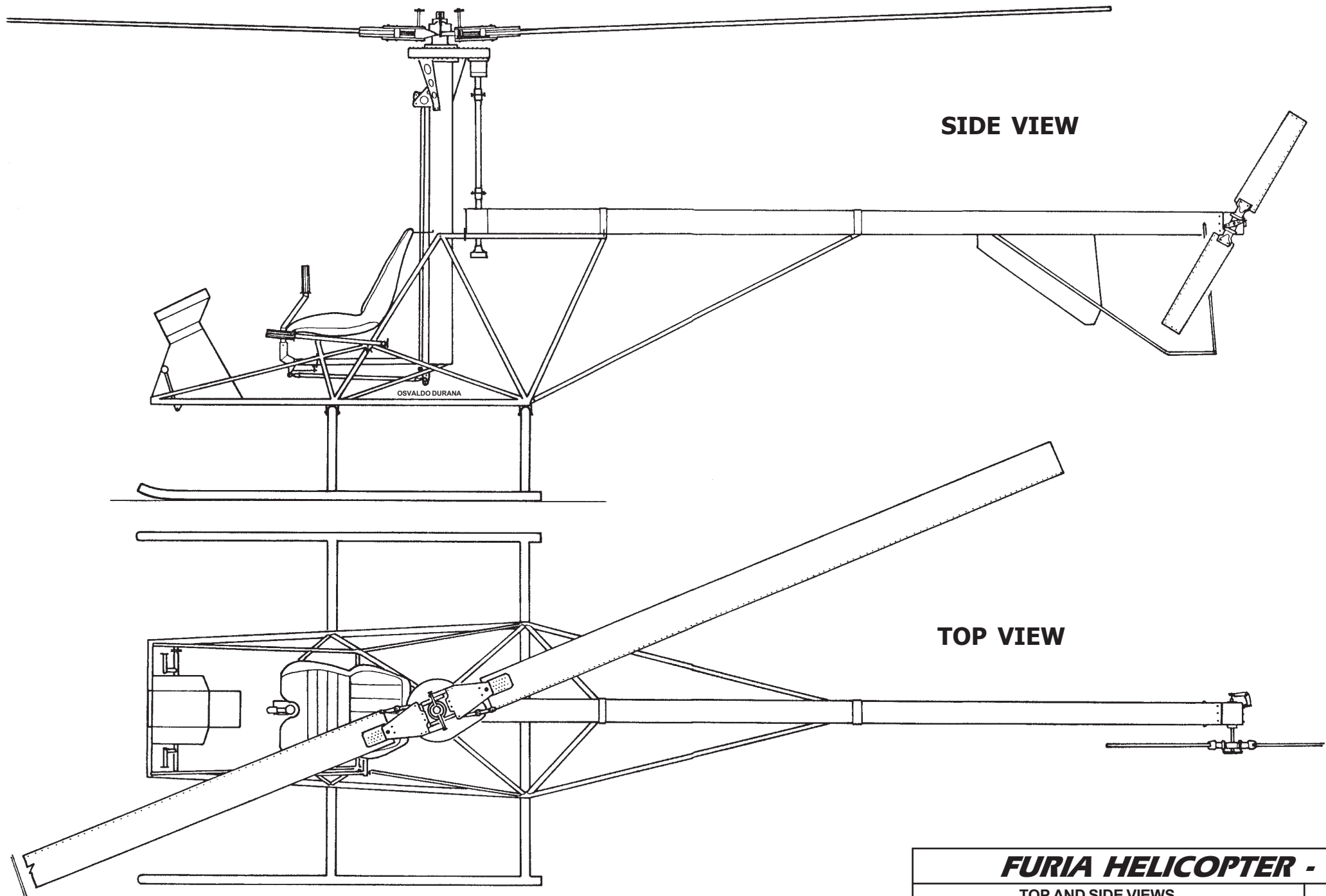
A-17-1

FURIA HELICOPTER -

PERSPECTIVE VIEW

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1



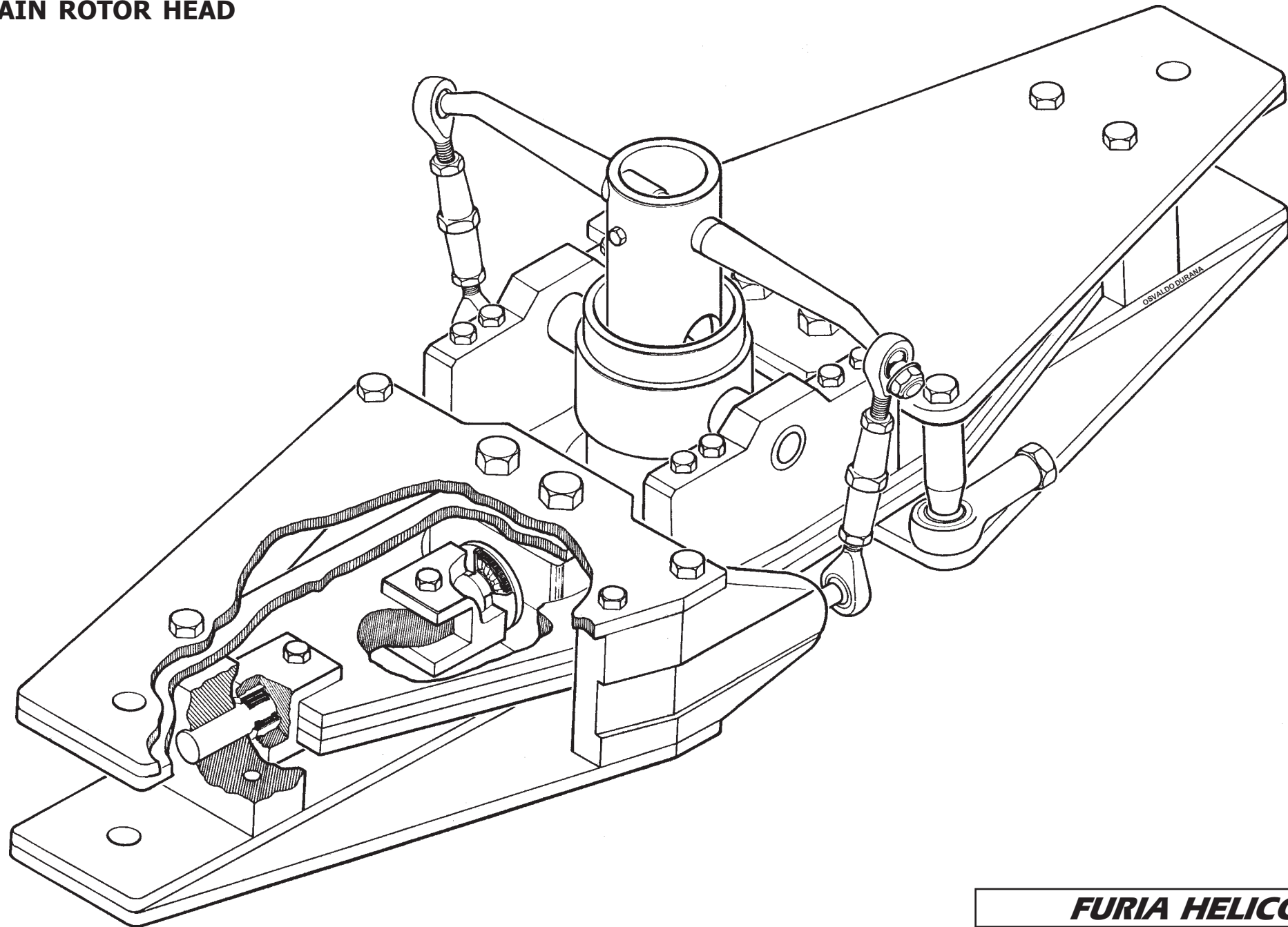
SIDE VIEW

TOP VIEW

FURIA HELICOPTER -

TOP AND SIDE VIEWS

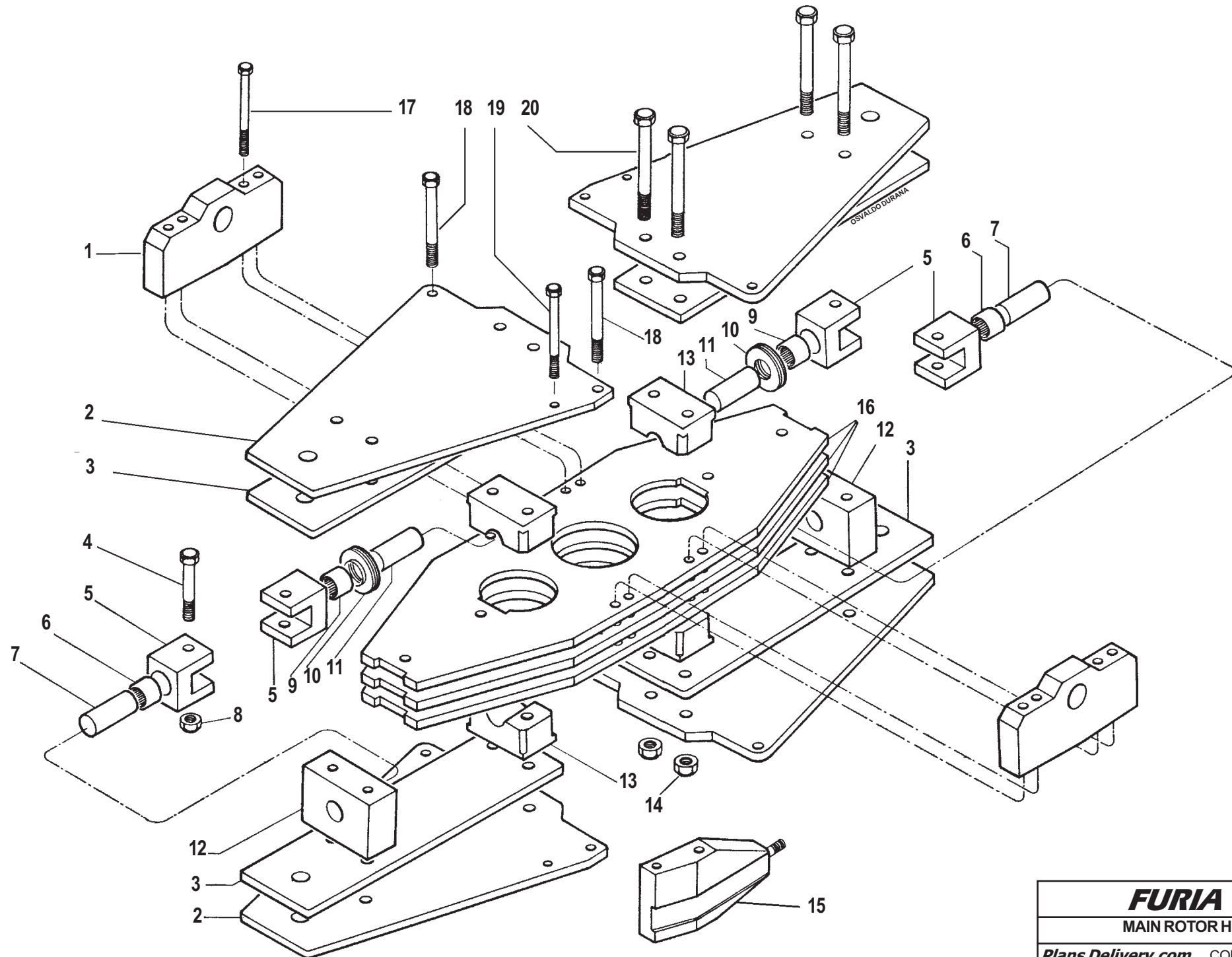
MAIN ROTOR HEAD



FURIA HELICOPTER -

MAIN ROTOR HEAD

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PART LIST -

Key number / Name / (Quantity)

- 1 - Pivot head (2)
 - 2 - Blade grip (4)
 - 3 - Reinforcement strap (4)
 - 4 - Bolt AN3 (2)
 - 5 - Claw (4)
 - 6 - Shell type bearing BK1514RS (2)
 - 7 - Axle A (2)
 - 8 - Elastic stop nut AN 364-1032 (2)
 - 9 - Shell type bearing BK1522 (2)
 - 10 - Thrust bea. AXW15 - (2)
washers AS1528 (2)
LS1528 (2)
 - 11 - Axle B (2)
 - 12 - Axle housing (2)
 - 13 - Axle grip (2)
 - 14 - Elastic stop nut AN 365-524 (4)
 - 15 - Blade control horn (2)
 - 16 - Center plates (3)
 - 17 - Bolt AN3 (8)
 - 18 - Bolt AN4 (8)
 - 19 - Bolt AN3 (2)
 - 20 - Bolt AN5 (4)
- Not shown:
Elastic stop nuts AN 365-428 (8)
Elastic stop nuts AN 365-1032 (8)

FURIA HELICOPTER -

MAIN ROTOR HEAD ASSEMBLY

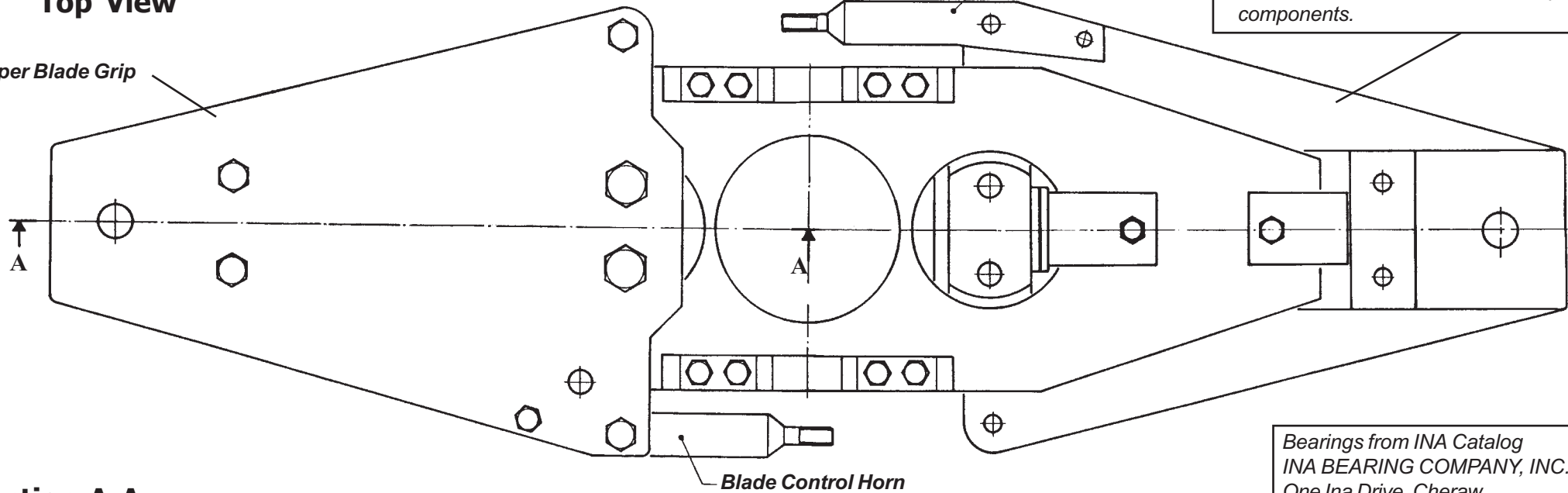
Plans Delivery.com COPYRIGHT©2001 Osvaldo Durana

Top View

Upper Blade Grip

Blade Control Horn

Note: Upper blade grip and reinforcement strap have been omitted to show central plates and other components.



Section A-A

Upper Blade Grip

Reinforcement Strap

Axle Housing

Claws

Axle Grip

Pivot Head

Side View

Axle

Reinforcement Strap

Shell Type Bearings

Thrust Bearings and washers

Axle

Center Plates

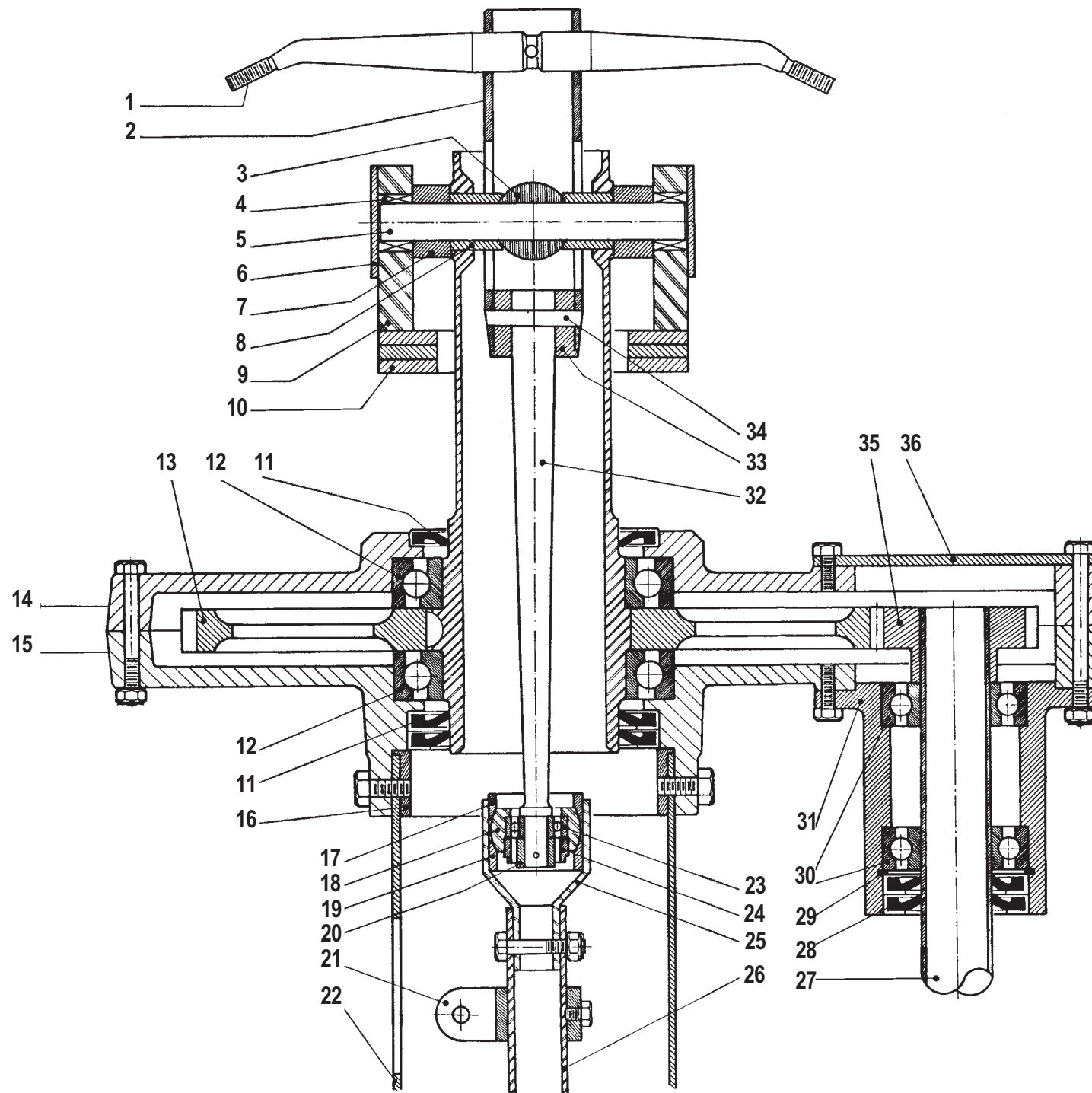
Bearings: A= Shell Type BK1514 RS (sealed) 2 Req'd. B= Shell Type BK1522 (2 Req'd.) C= Thrust (needle roller) AX15- Washers AS 1528 and LS 1528 (2 of each one req'd)

Bearings from INA Catalog
 INA BEARING COMPANY, INC.
 One Ina Drive, Cheraw,
 South Carolina 29520
 Phone: (803) 537-9341

FURIA HELICOPTER -

MAIN ROTOR HEAD

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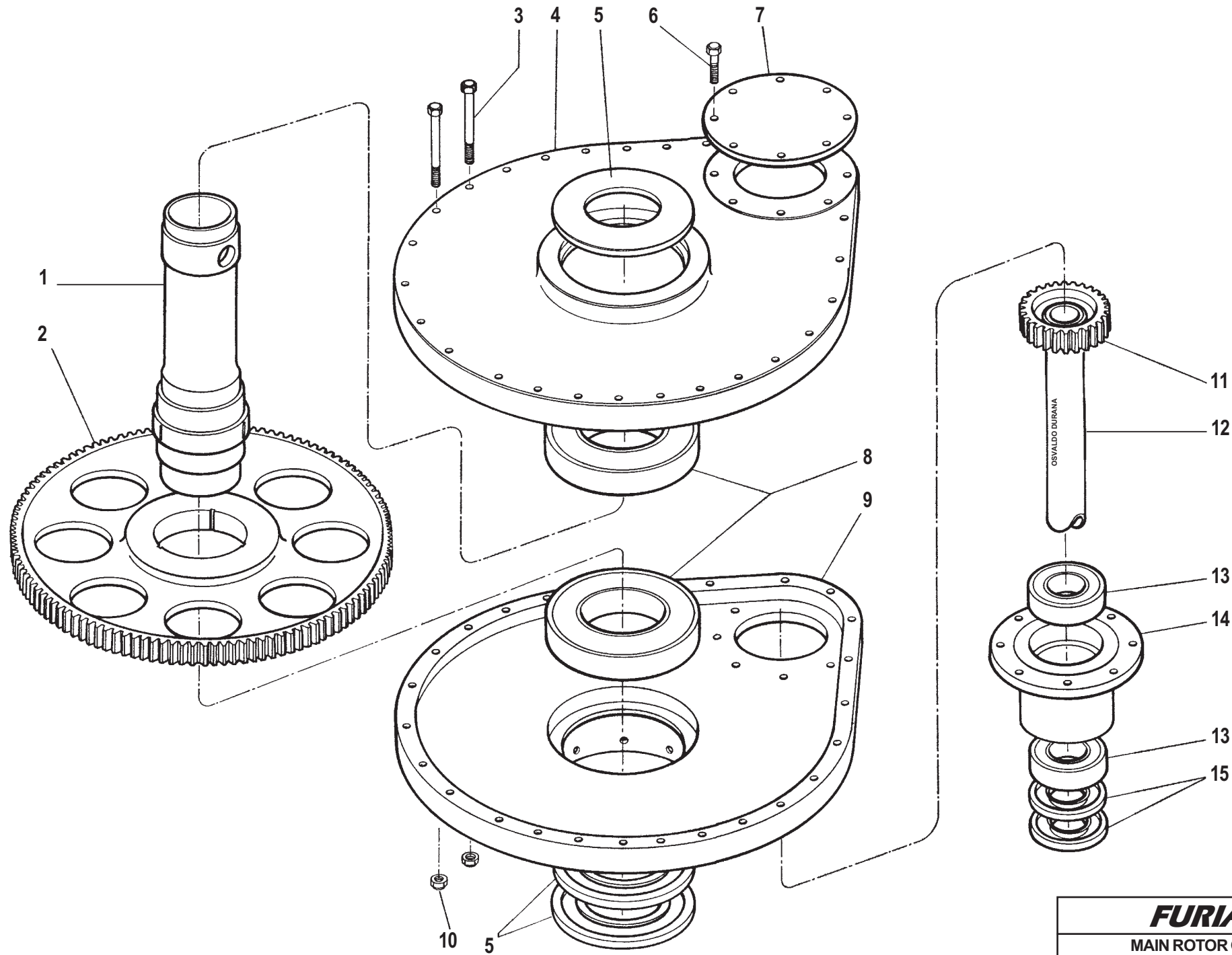


Key number / Name / (Quantity)

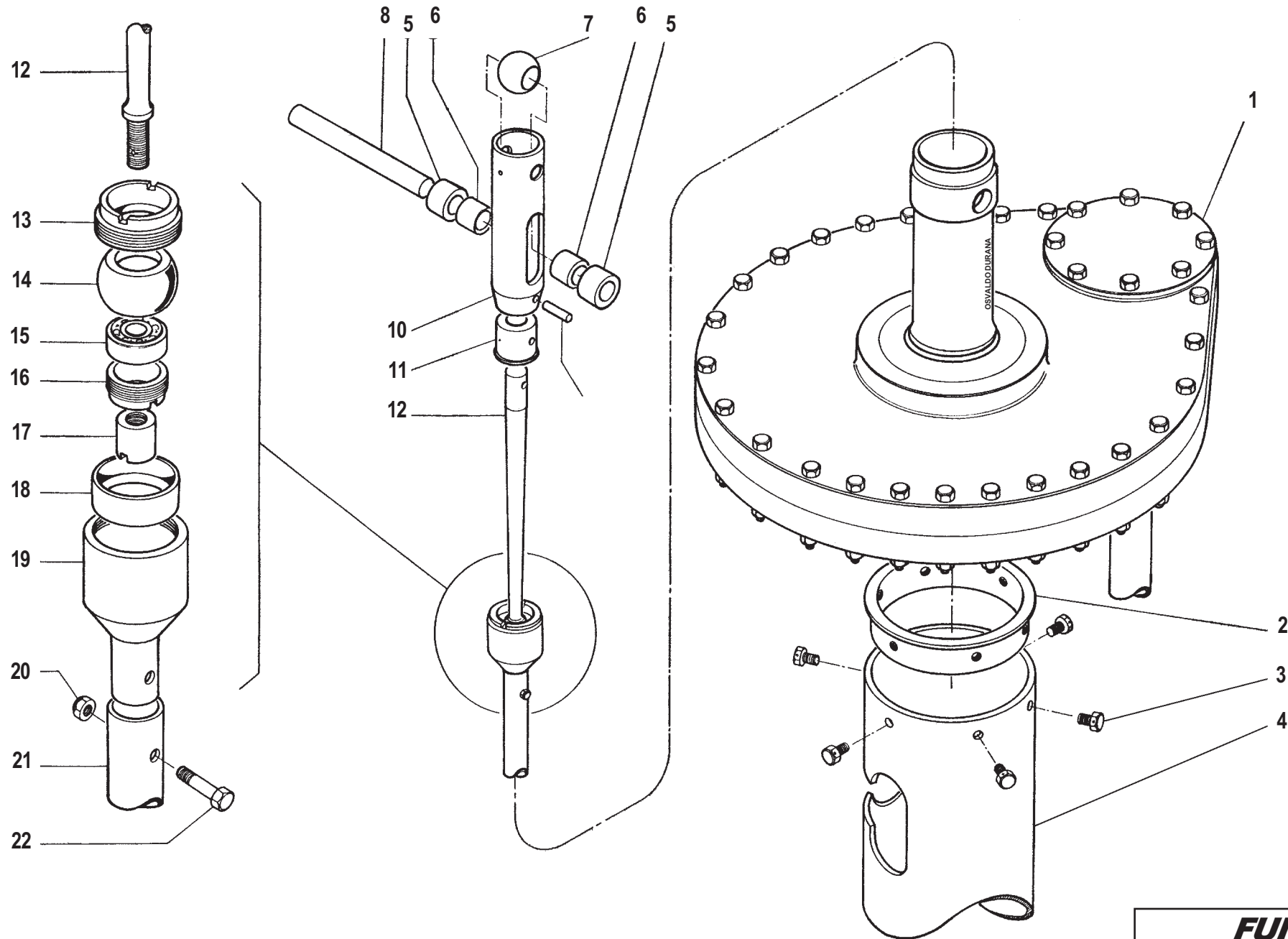
- 1) Blade control master horn
- 2) Control sliding axle
- 3) Ball
- 4) Shell type bearing HK 1522
- 5) Main rotor axle
- 6) Bearing cover
- 7) Bushing
- 8) Race / bushing
- 9) Pivot head
- 10) Center plates
- 11) Gasket
- 12) Bearing 7013
- 13) Main gear
- 14) Gearbox housing upper half
- 15) Gearbox housing lower half
- 16) Gearbox attachment ring
- 17) Race / nut
- 18) Ball / Bearing housing
- 19) Ball race
- 20) Nut B
- 21) Cyclic/Collective central link
- 22) Main rotor mast
- 23) Bearing 6002 Z
- 24) Nut A
- 25) Central uniball housing
- 26) Central Push-Pull tube
- 27) Pinion shaft
- 28) Gasket
- 29) Snap ring
- 30) Bearing 6205
- 31) Pinion housing
- 32) Push-Pull axle
- 33) Bushing
- 34) Pin
- 35) Pinion
- 36) Gearbox lid

FURIA HELICOPTER -

MAIN ROTOR AND GEARBOX



Part List		
Key number	name	Quantity
1)	Main rotor shaft	
2)	Main gear	
3)	Bolt AN3 (25)	
4)	Gearbox housing upper half	
5)	Gasket (3)	
6)	Bolt AN3 (10)	
7)	Gearbox lid	
8)	Ball bearing 7013 (2)	
9)	Gearbox housing lower half	
10)	Elastic stop nut AN 365-1032 (25)	
11)	Pinion	
12)	pinion shaft	
13)	Ball Bearing 6205 (2)	
14)	Pinion housing	
15)	Gaskets	
Not shown:		
*main shaft woodroff keys (3)		
*Pinion housing internal snap ring.		



Part List

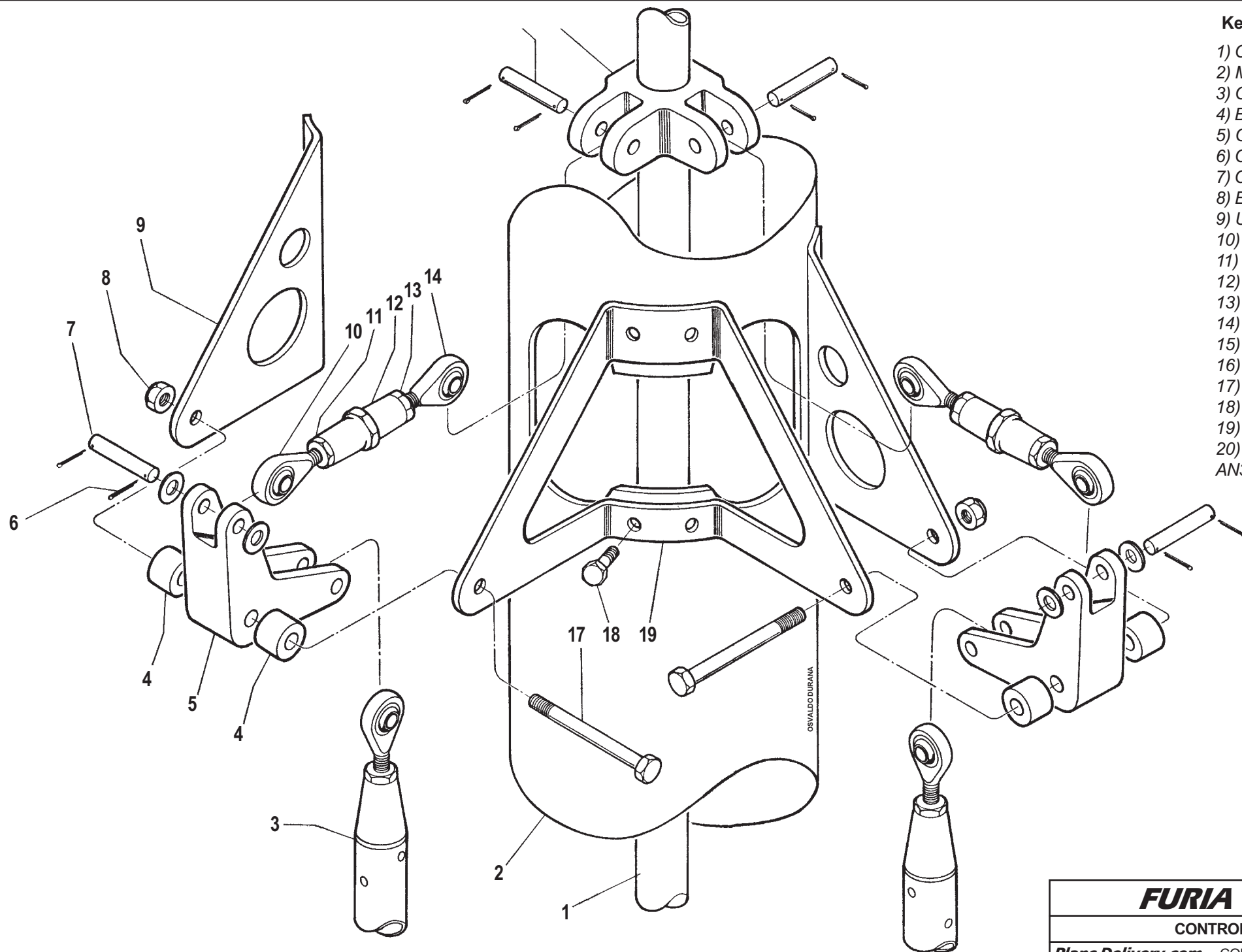
Key number/name/quantity

- 1) Main rotor gearbox
- 2) Gearbox attachment ring
- 3) Bolt AN4 (6)
- 4) Main rotor mast
- 5) Bushing (2)
- 6) Bushing A (2)
- 7) Ball
- 8) Main rotor axle
- 9) Pin
- 10) Control sliding axle
- 11) Bushing
- 12) Push-Pull axle
- 13) Race-nut
- 14) Ball bearing housing
- 15) Bearing 600 Z (1)
- 16) Nut A
- 17) Nut B
- 18) Ball race
- 19) Central uniball housing
- 20) Elastic stop nut AN364-1032 (1)
- 21) Central Push-Pull tube
- 22) Bolt AN3 (1)

FURIA HELICOPTER -

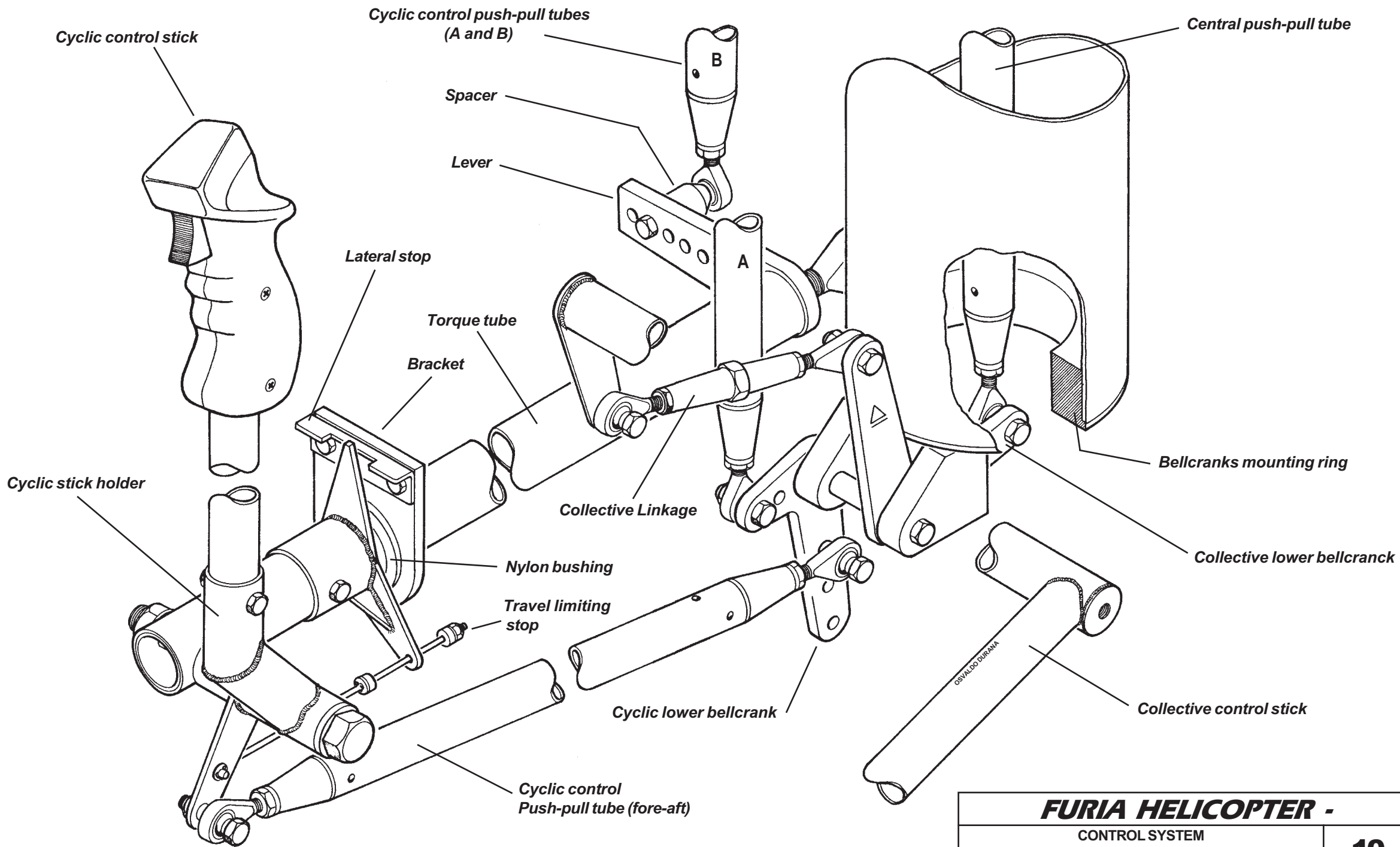
MAIN GEARBOX/CONTROL SYS. ASSY.

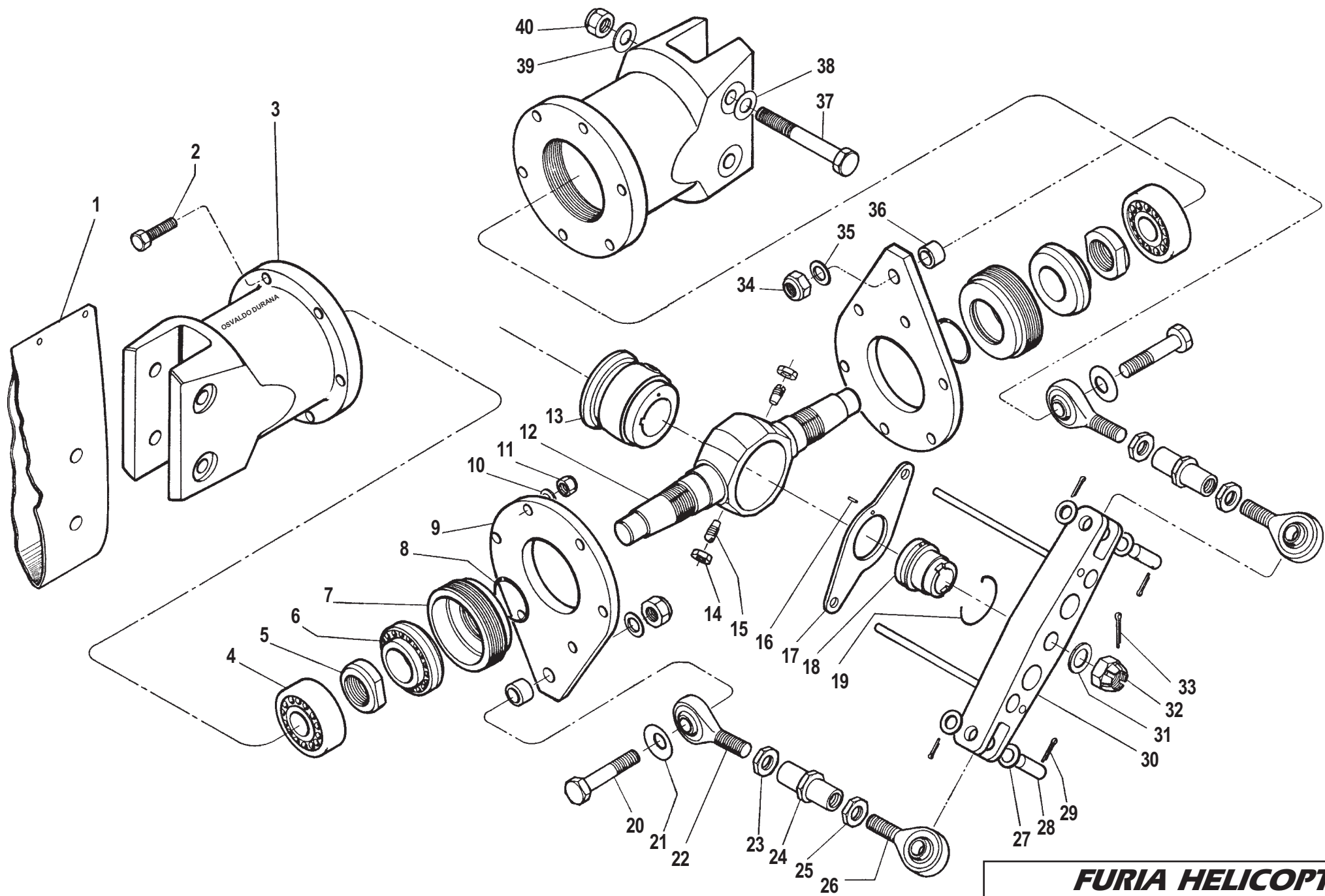
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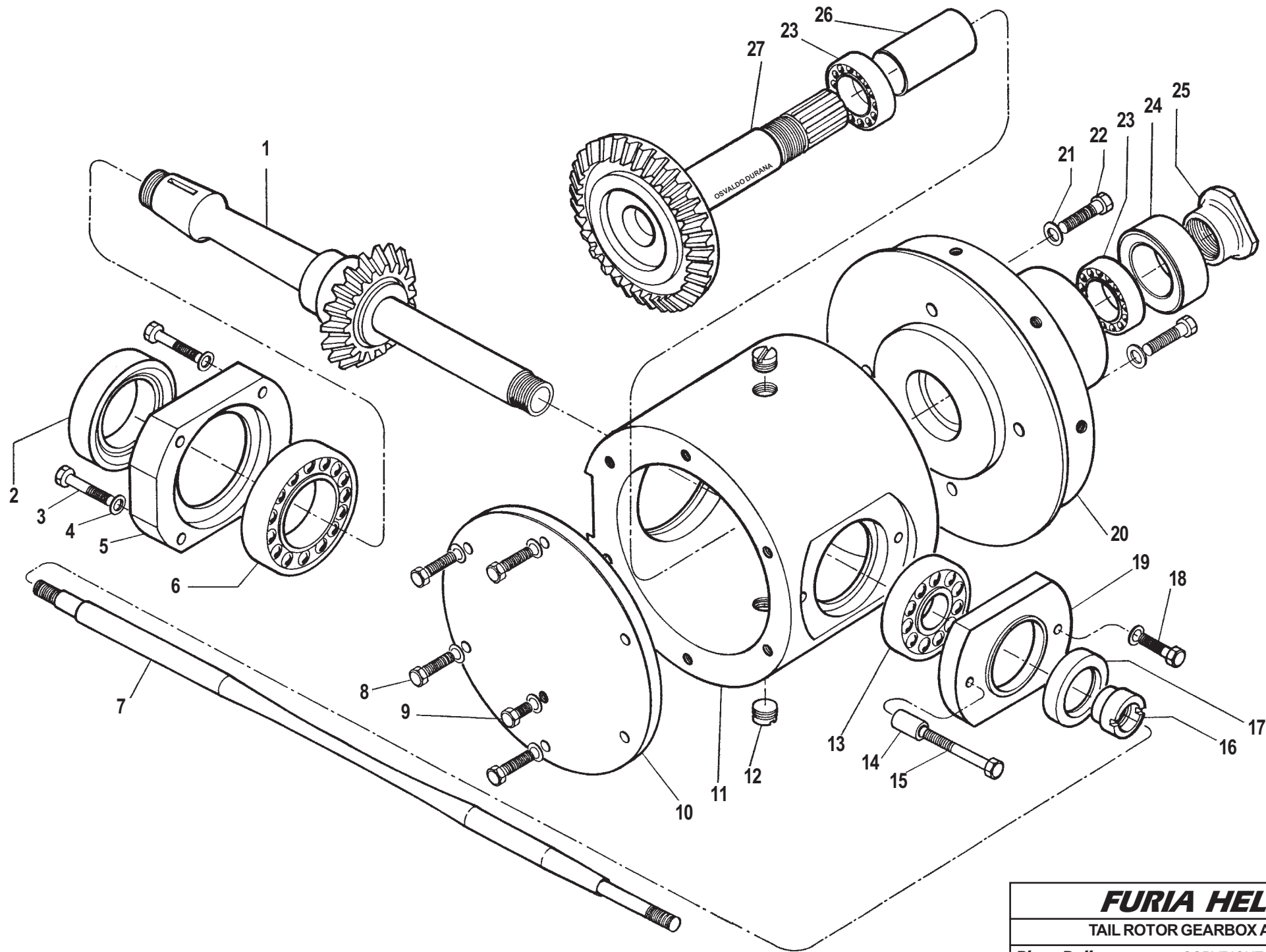


Key number / Name / (Quantity)

- 1) Collective central push-pull tube
- 2) Main rotor tube mast
- 3) Cyclic push-pull tube
- 4) Bushing spacers (4)
- 5) Cyclic upper bellcrank (2)
- 6) Cotter pin (6)
- 7) Clevis pin AN394 (4)
- 8) Elastic stop nut AN364-428 (2)
- 9) Upper Bellcrank mounting bracket (2)
- 10) Rod end HMVV-4 (2)
- 11) Locking nut AN316-4R (2)
- 12) Control linkage (2)
- 13) Locking nut AN316-4L (2)
- 14) Rod end HMLVV-4 (2)
- 15) Clevis pin AN394 (2)
- 16) Cyclic/collective central link (1)
- 17) Bolt AN4 (2)
- 18) Bolt AN3 (8)
- 19) Bellcranks central bracket
- 20) elastic stop nut (not shown) AN365-1032 (8)



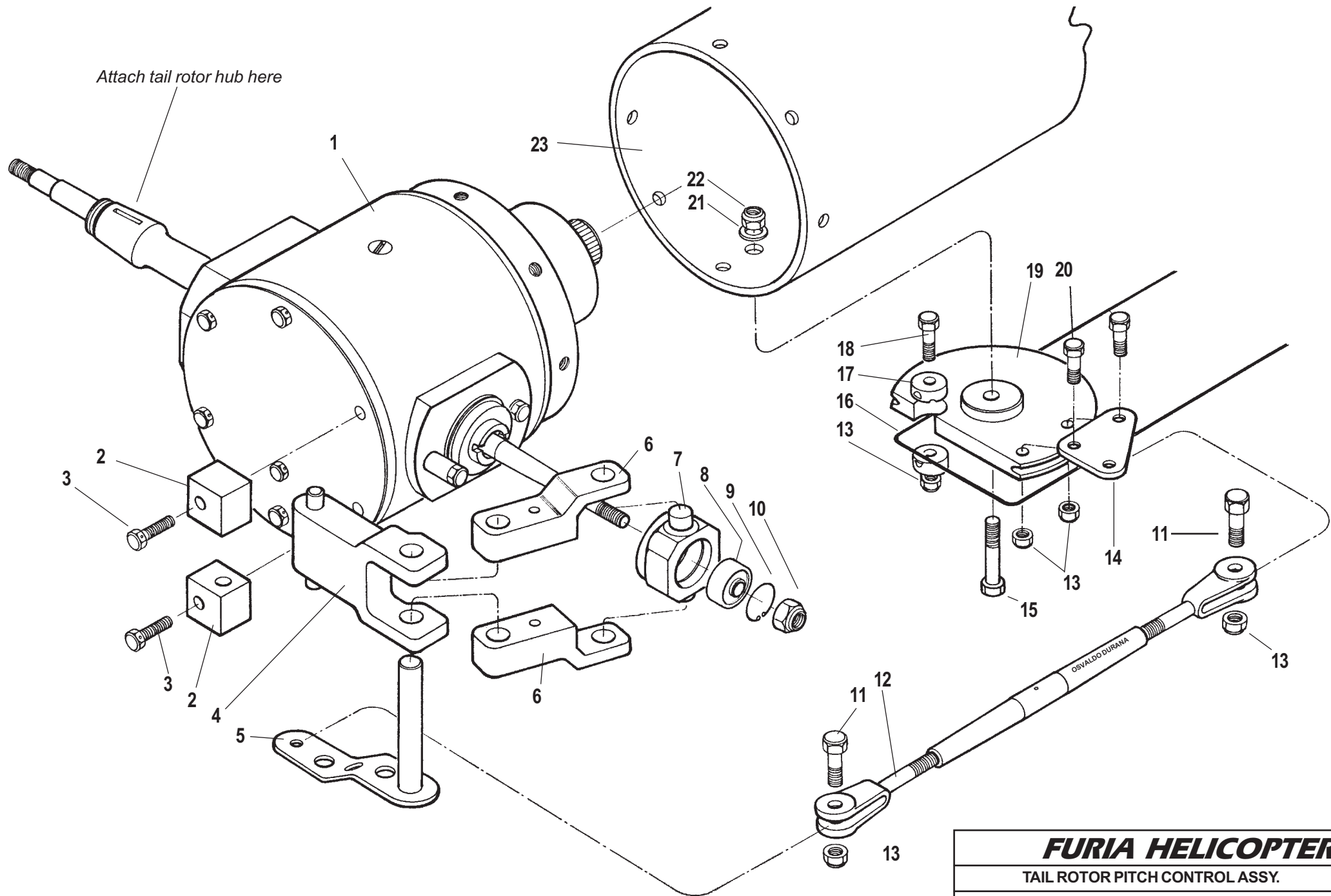




FURIA HELICOPTER -

TAIL ROTOR GEARBOX ASSEMBLY

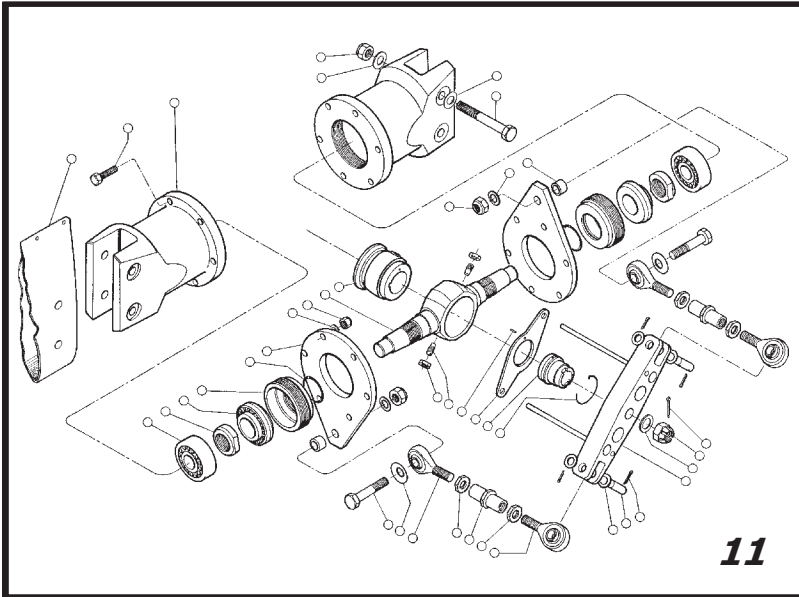
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FURIA HELICOPTER -

TAIL ROTOR PITCH CONTROL ASSY.

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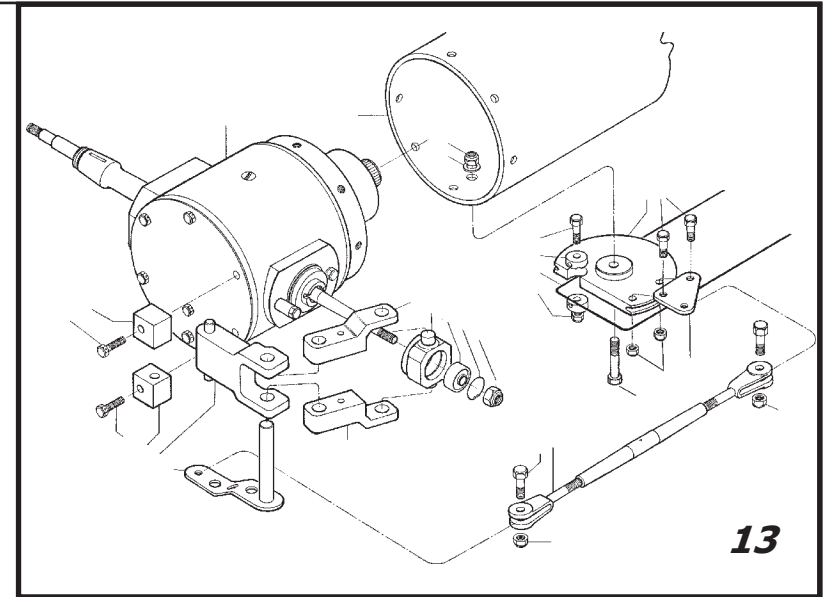


11

TAIL ROTOR GEARBOX

Part List - page 12

- | | |
|--------------------------|---------------------------|
| 1) Pinion | 15) Bolt AN3 |
| 2) Gasket | 16) Nut C |
| 3) Bolt AN3 | 17) Gasket |
| 4) Flat Washer | 18) Bolt AN3 |
| 5) Bearing Cover (Large) | 19) Bearing Cover (Small) |
| 6) Bearing 16005 | 20) Gearbox Rear Cap |
| 7) Pitch Control Axle | 21) Flat Washer |
| 8) Bolts AN3 | 22) Bolts AN4 |
| 9) Bolts AN3 | 23) Bearing |
| 10) Gearbox Lid | 24) Gasket |
| 11) Gearbox Housing | 25) Nut D |
| 12) Oil Screws | 26) Steel Bushing |
| 13) Bearing EE5 | 27) Gear |
| 14) Bushing Spacer | |

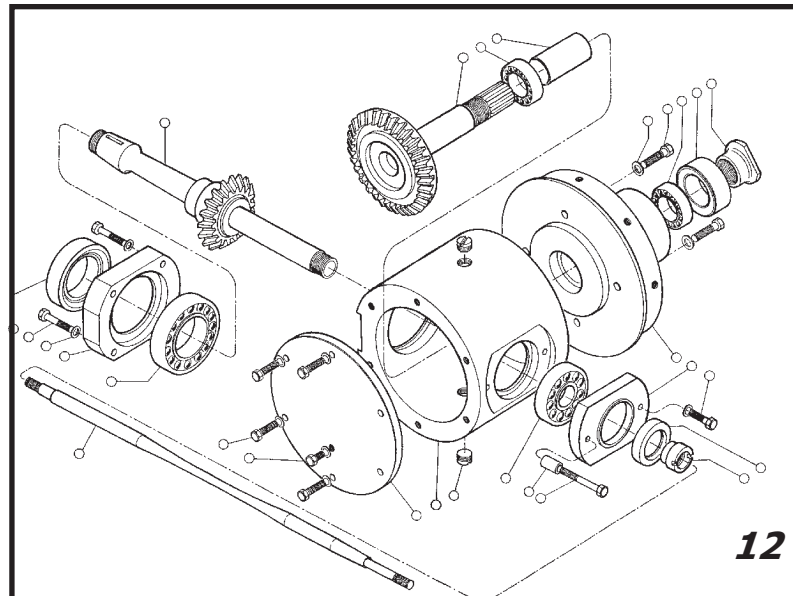


13

TAIL ROTOR ASSEMBLY

Part List - page 11

- | | |
|------------------------------|--------------------------|
| 1) Tail Rotor Blade | 21) Conical Washer |
| 2) Bolt AN3 | 22) Rod End Male HMLVV-4 |
| 3) Tail Blade Grip | 23) Nut AN316-4R |
| 4) Bearing 6200 | 24) Control Linkage |
| 5) Axle Nut | 25) Nut AN316-4R |
| 6) Bearing FAG 525277 | 26) Rod End Male HMVV4 |
| 7) Blade Grip Nut | 27) Flat Washer |
| 8) O'Ring | 28) Clevis Pin |
| 9) Pitch Control Horn | 29) Cotter Pin |
| 10) Flat Washer | 30) Pitch Control Head |
| 11) Elastic Stop Nut | 31) Flat Washer |
| 12) Axle | 32) Castle Nut |
| 13) Tail Rotor Hub | 33) Cotter Pin |
| 14) Axle Pivot Nut | 34) Elastic Stop Nut |
| 15) Axle Pivot Screw | 35) Flat Washer |
| 16) Pin | 36) Bushing |
| 17) Pitch Control Head Guide | 37) Bolt AN4 |
| 18) Retainer Nut | 38) Flat Washer |
| 19) Safety Wire Spring | 39) Flat Washer |
| 20) Bolt AN4 | 40) Elastic Stop Nut |



12

TAIL ROTOR PITCH CONTROL ASSEMBLY

Part List - Page 13

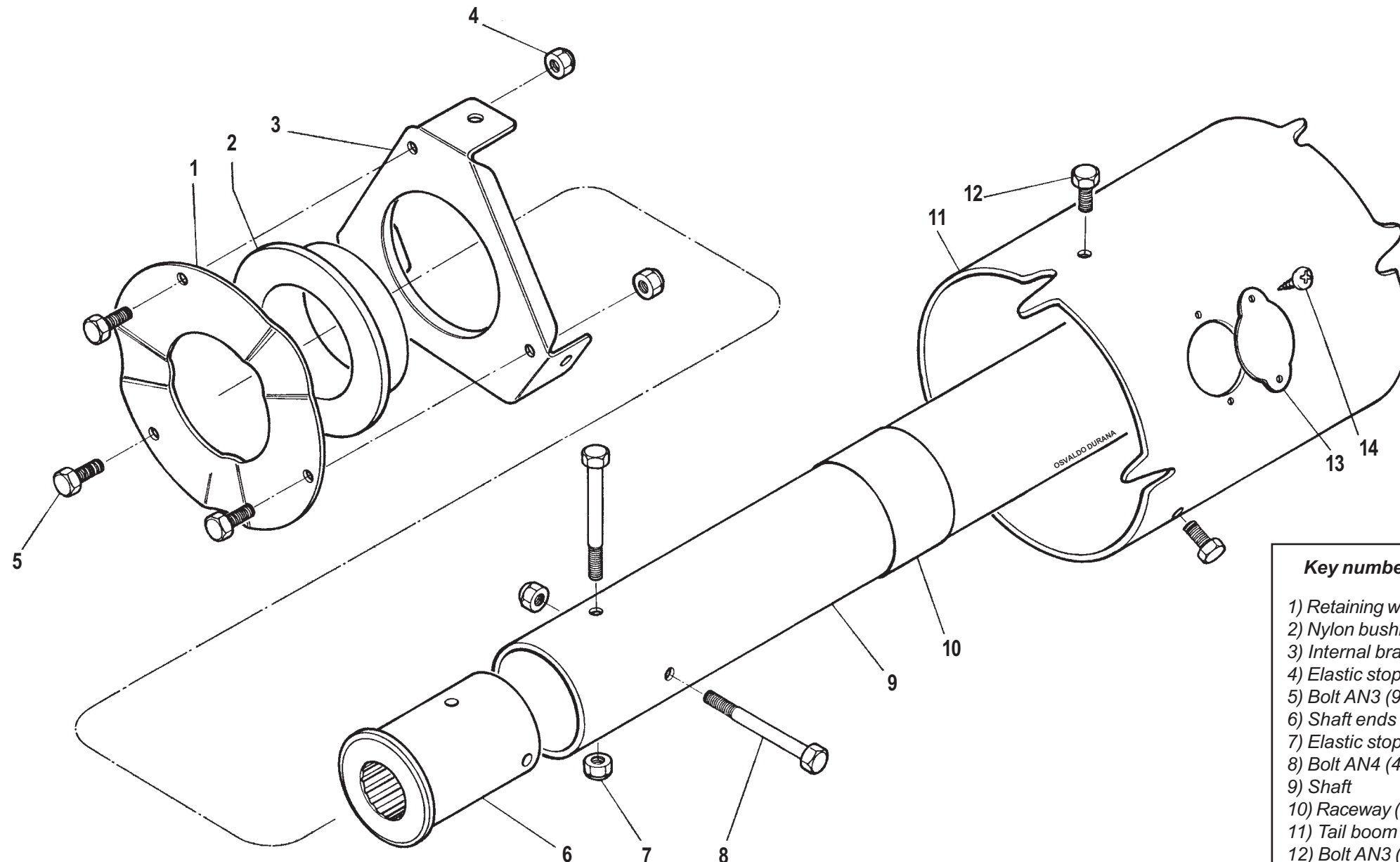
- | | |
|--|--|
| 1) Tail Rotor Gearbox | 18) Bolt AN3 |
| 2) Scissors Hinge | 19) Control Pulley |
| 3) Bolt AN3H | 20) Bolt AN3 |
| 4) Scissors B and Axle | 21) Flat Washer |
| 5) Lever | 22) Elastic Stop Nut AN365-428 |
| 6) Scissors A | 23) Tail Boom |
| 7) Bearing Housing | Not Shown: Bolts AN3H to attach gearbox to tail boom |
| 8) Bearing | |
| 9) Internal Snap Ring | |
| 10) Self Locking Castle Nut/Cotter Pin | |
| 11) Bolt AN3 | |
| 12) Turnbuckle Assy. AN150-16L | |
| 13) Elastic Stop Nut AN364-1032 | |
| 14) Pulley Arm | |
| 15) Bolt AN4 | |
| 16) Control Cable Galvanized 1/8"-7x19 | |
| 17) Cable Clamp | |

FURIA HELICOPTER -

PART LIST - PAGES 11-12-13

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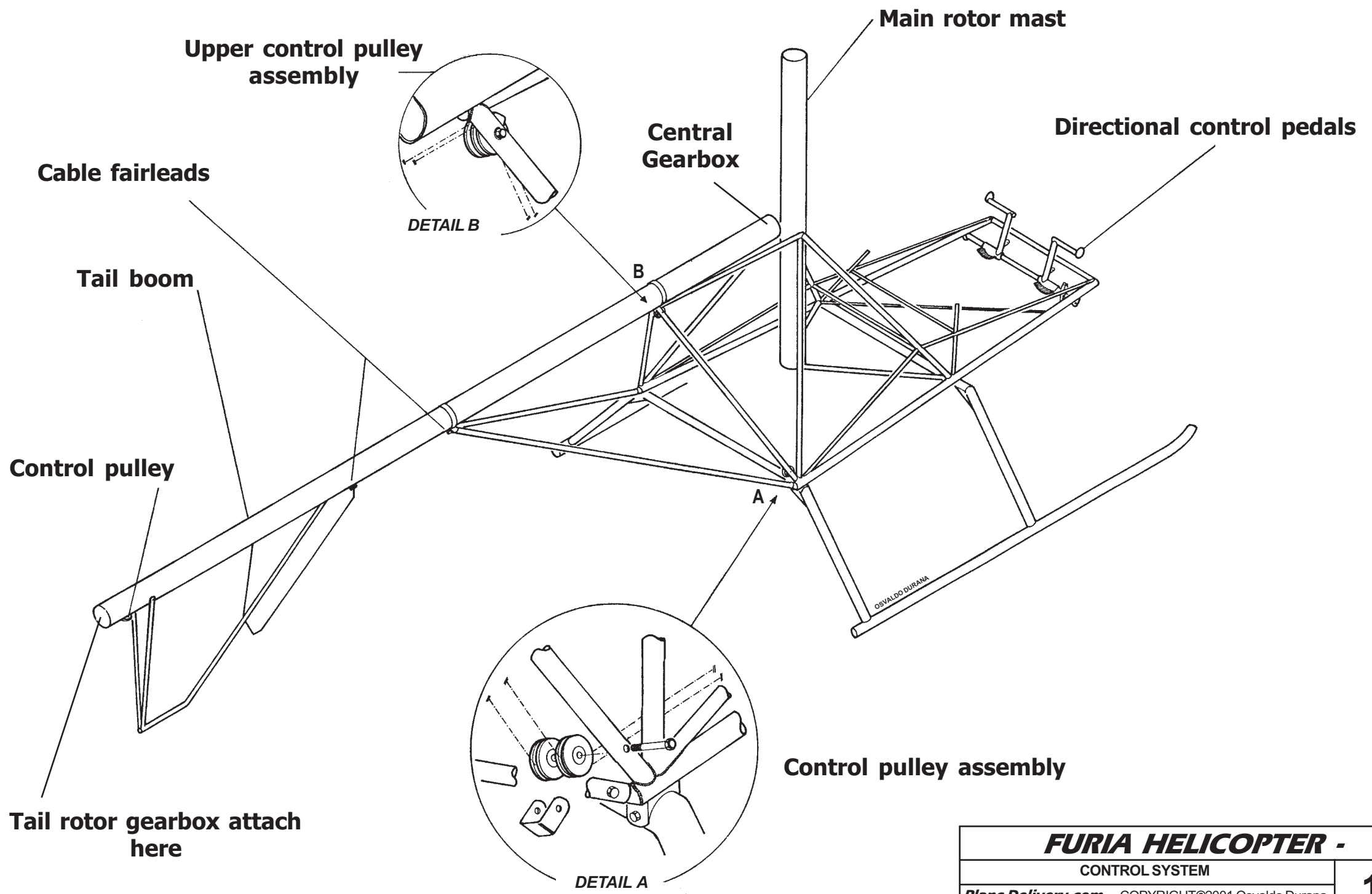


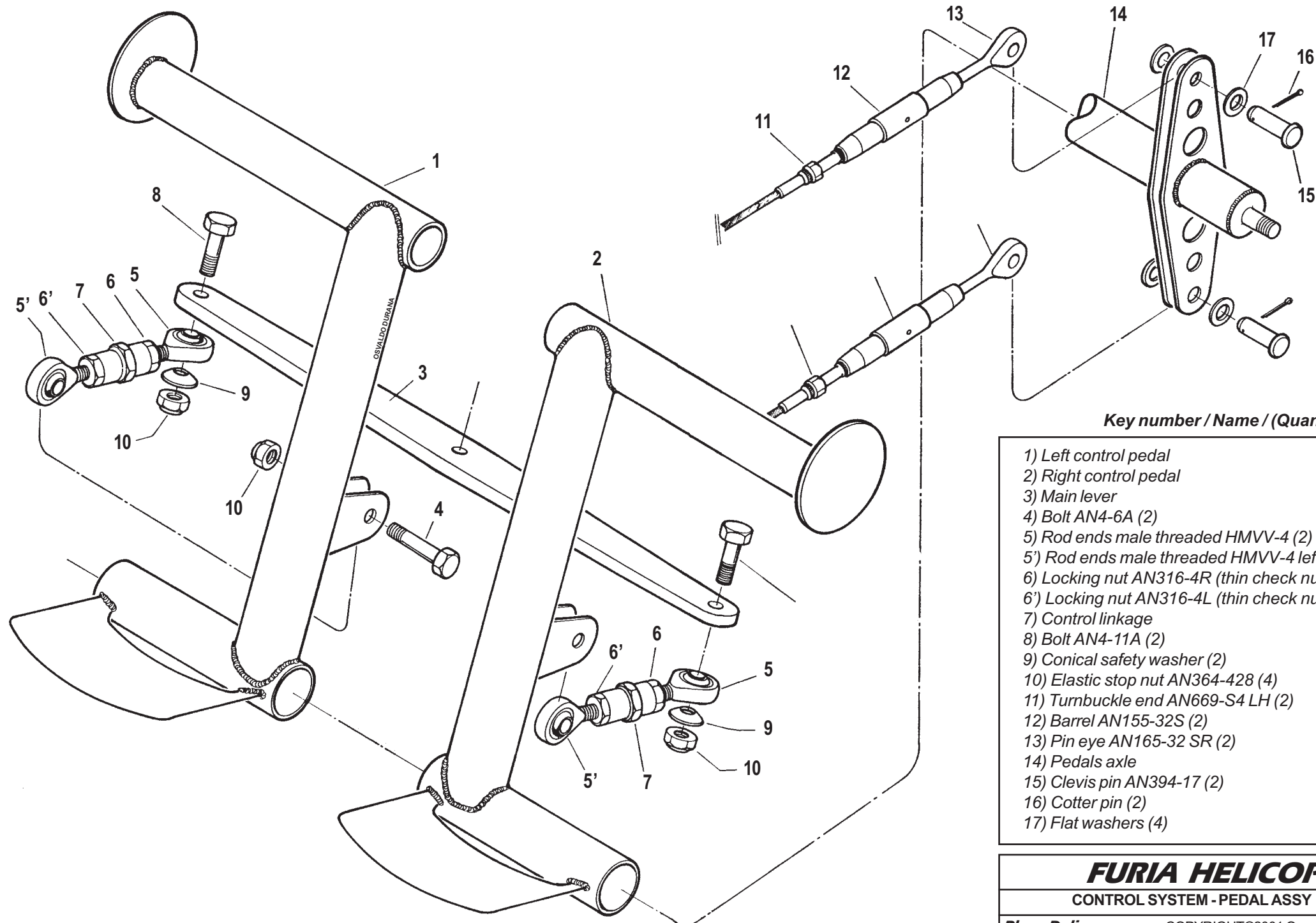
Key number / Name / (Quantity)

- 1) Retaining washer (3)
- 2) Nylon bushing (3)
- 3) Internal bracket (3)
- 4) Elastic stop nut AN365-1032 (18)
- 5) Bolt AN3 (9)
- 6) Shaft ends (2)
- 7) Elastic stop nut AN364-428 (4)
- 8) Bolt AN4 (4)
- 9) Shaft
- 10) Raceway (3)
- 11) Tail boom tube
- 12) Bolt AN3 (9)
- 13) Inspection hole cover (3)
- 14) Sheet metal screws (6)

FURIA HELICOPTER -

TAIL BOOM SHAFT ASSY





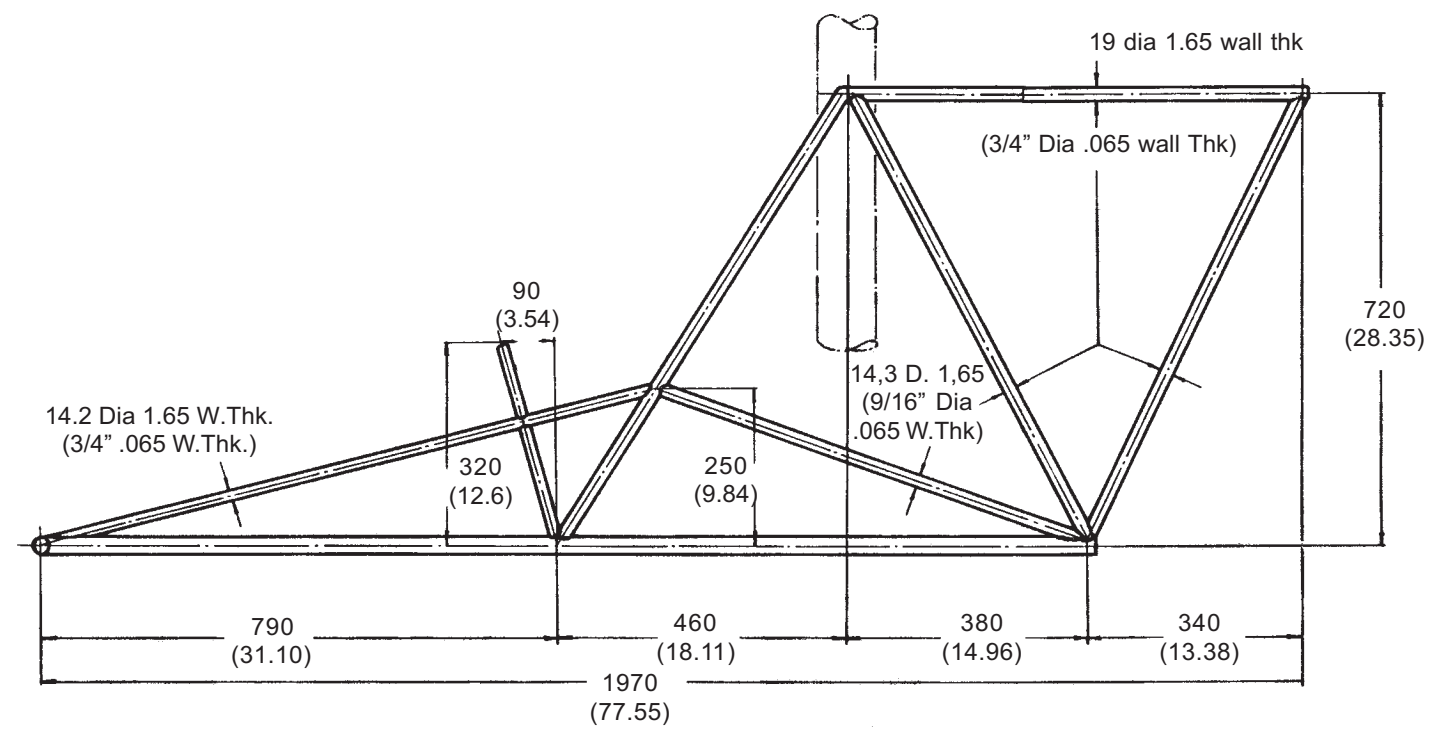
Key number / Name / (Quantity)

- 1) Left control pedal
- 2) Right control pedal
- 3) Main lever
- 4) Bolt AN4-6A (2)
- 5) Rod ends male threaded HMVV-4 (2)
- 5') Rod ends male threaded HMVV-4 left hand thd. (2)
- 6) Locking nut AN316-4R (thin check nut) (2)
- 6') Locking nut AN316-4L (thin check nut) (2)
- 7) Control linkage
- 8) Bolt AN4-11A (2)
- 9) Conical safety washer (2)
- 10) Elastic stop nut AN364-428 (4)
- 11) Turnbuckle end AN669-S4 LH (2)
- 12) Barrel AN155-32S (2)
- 13) Pin eye AN165-32 SR (2)
- 14) Pedals axle
- 15) Clevis pin AN394-17 (2)
- 16) Cotter pin (2)
- 17) Flat washers (4)

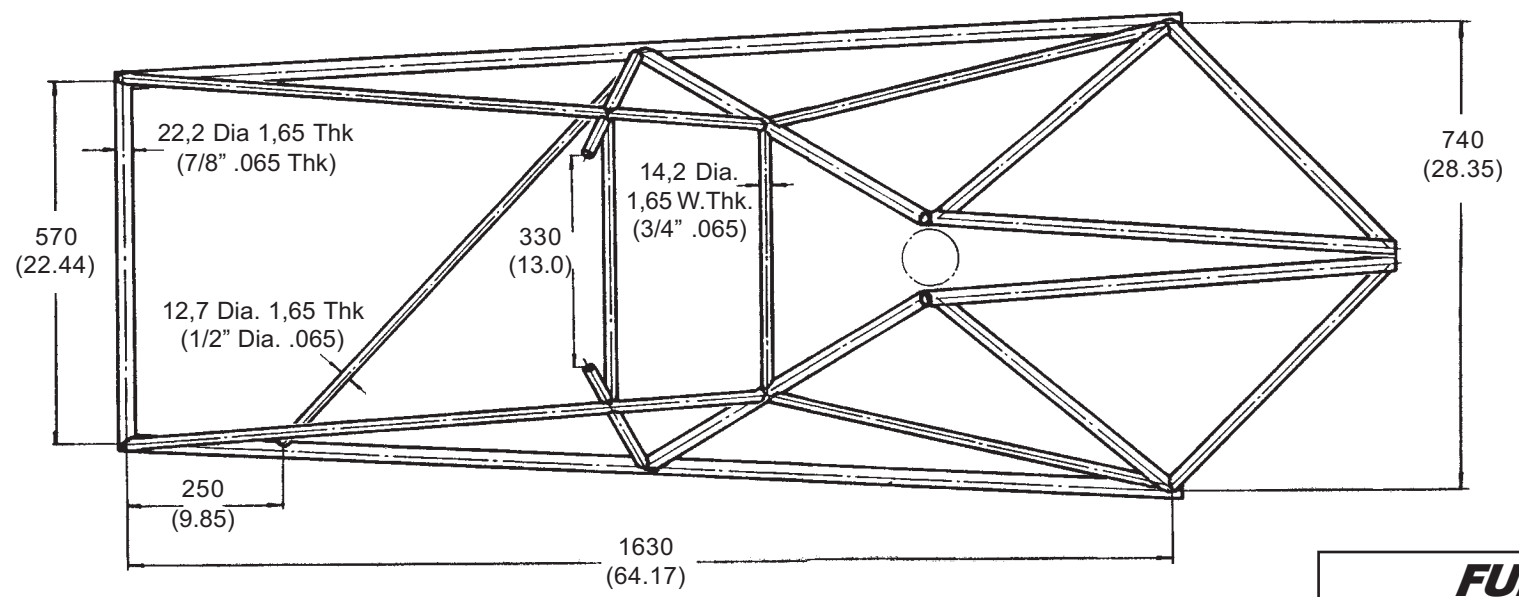
FURIA HELICOPTER -

CONTROL SYSTEM - PEDAL ASSY

SIDE VIEW



TOP VIEW

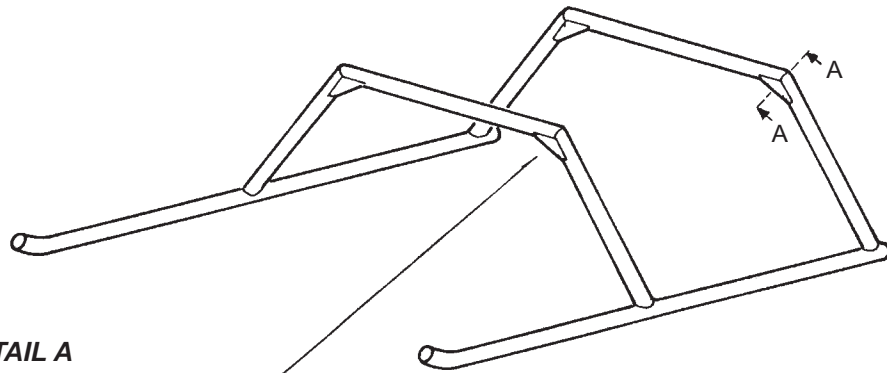


FURIA HELICOPTER -

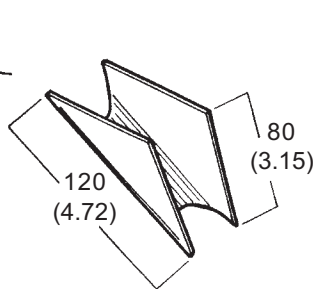
PRIMARY STRUCTURE

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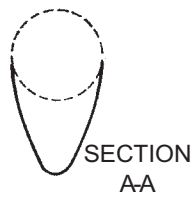
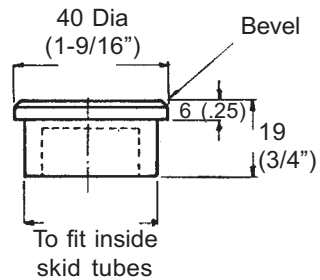
PERSPECTIVE VIEW



DETAIL A
Reinforcements
4130 Steel 2,3 (.090)

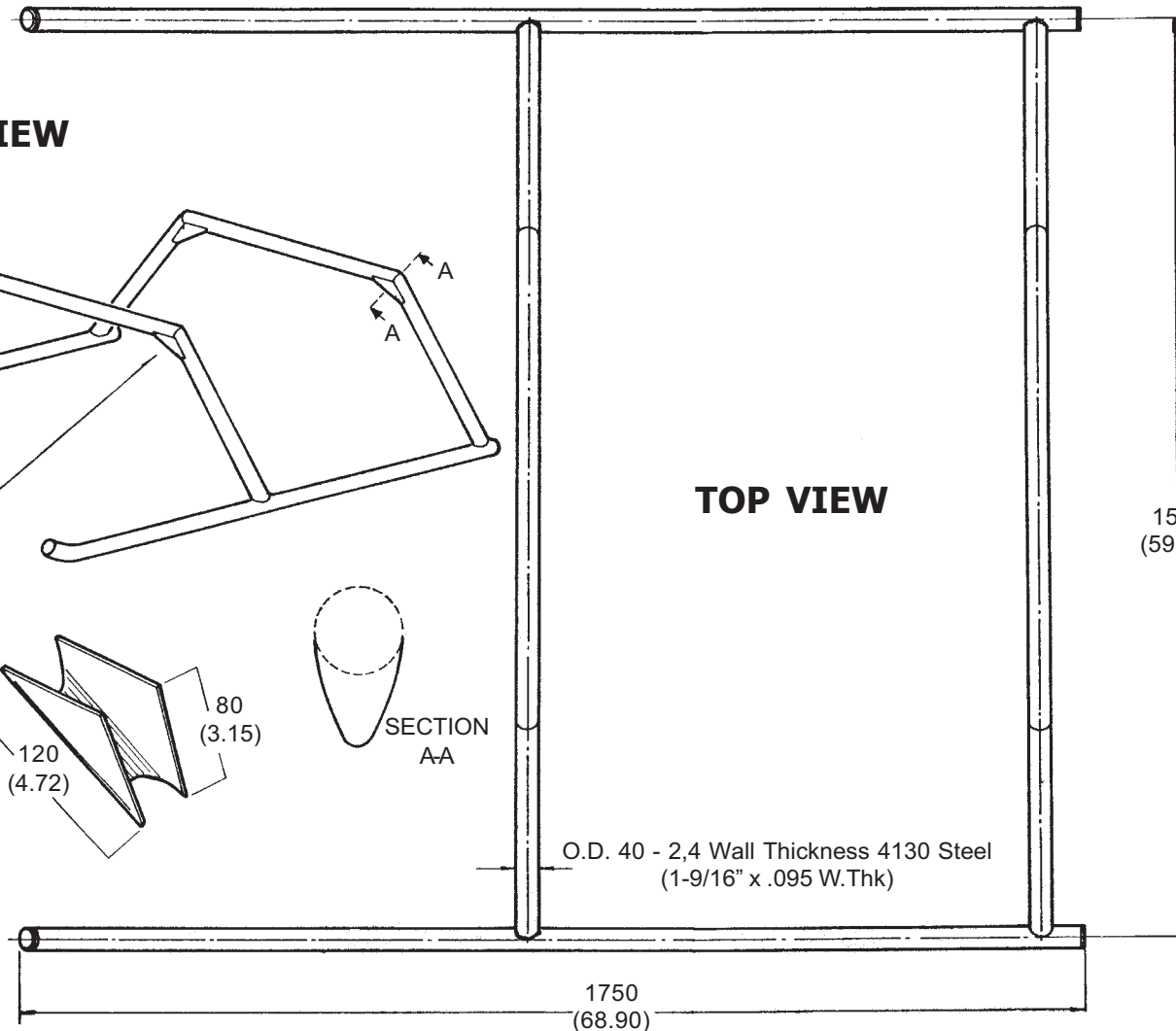


DETAIL B
Skids Caps
Mat: Aluminum 4 Req'd

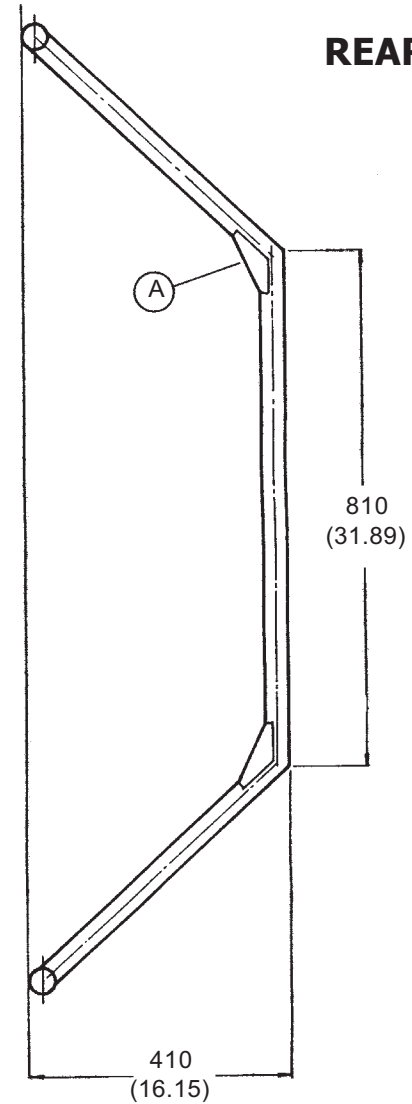


SECTION
AA

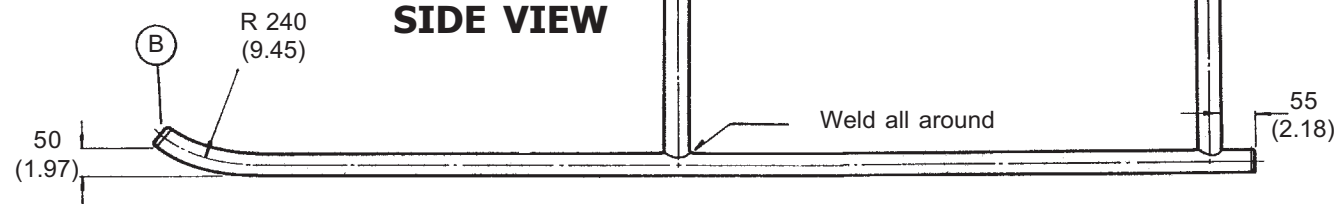
TOP VIEW



REAR VIEW



SIDE VIEW



FURIA HELICOPTER -

LANDING GEAR SKIDS

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DETAIL A Rotor mast attachment brackets

Inner ring
Mat: Steel (.198)
W.Thk

Mat: 4130 Steel
2 (.080) Thk
Lenght 40 (1.57)

Pop Rivet ring in
proper position,
then drill and tap
according brackets

Drill and tap for AN4-H
Bolts 1/4" - 28
USE SAFETY WIRE

Main rotor mast

Tail boom

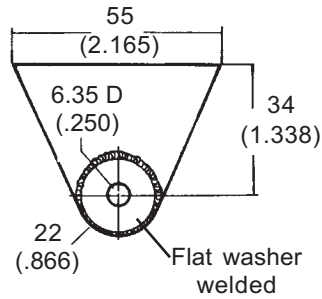
Bracket B

Bracket A

Tail skid

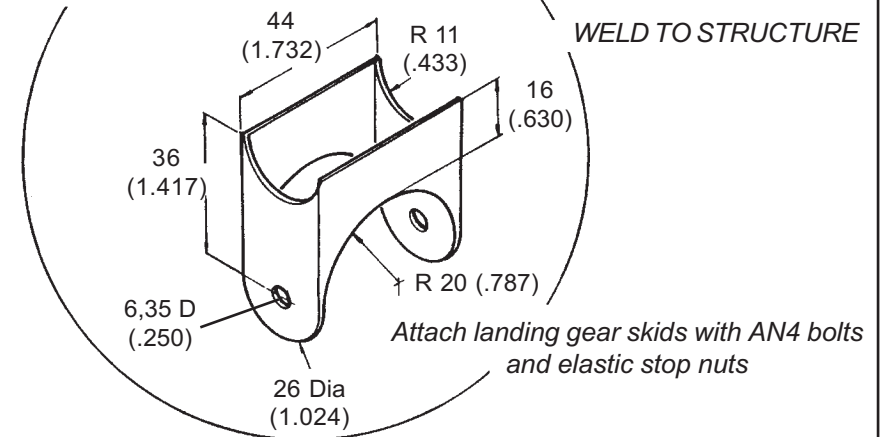
DETAIL D

Pedals brackets mat: 4130 Steel 2
(.080) Thk 2 req'd



DETAIL C

Landing gear skid seat
Mat: 4130 Steel 2 (.080) Thk
4 req'd



DETAIL B

Rotor mast lower bracket
8 (.315)

Attach to bellcranks ring with AN5H bolts

2) 4130 Steel tubes
3/4" O.D.
.065 wall thk

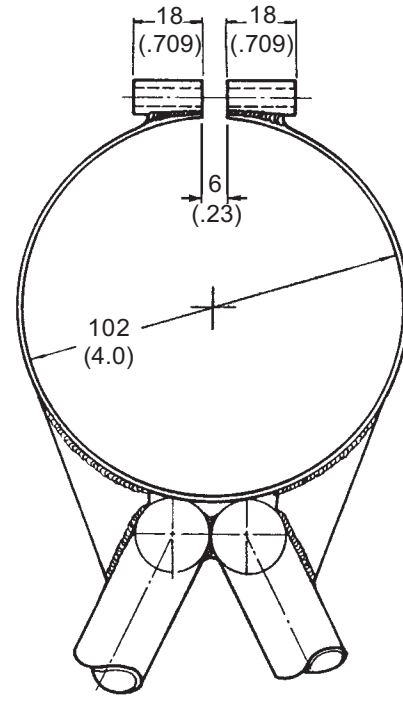
USE SAFETY
WIRE

FURIA HELICOPTER -

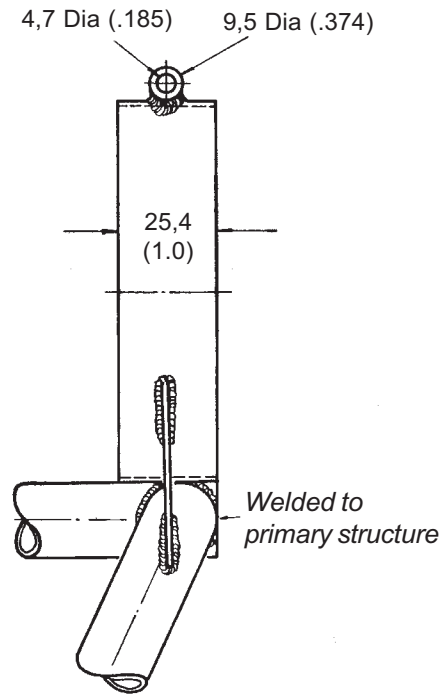
PRIMARY STRUCTURE

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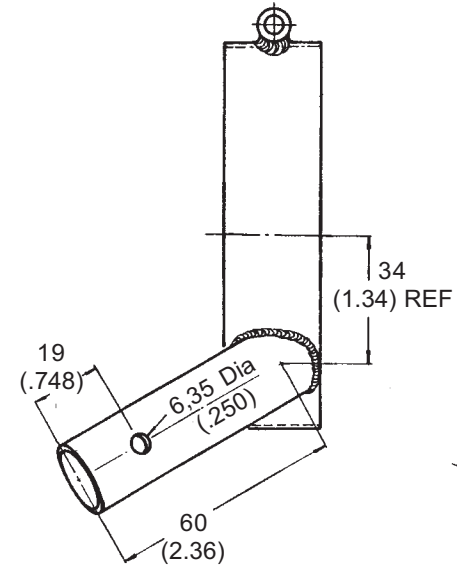
Bracket A



REAR VIEW

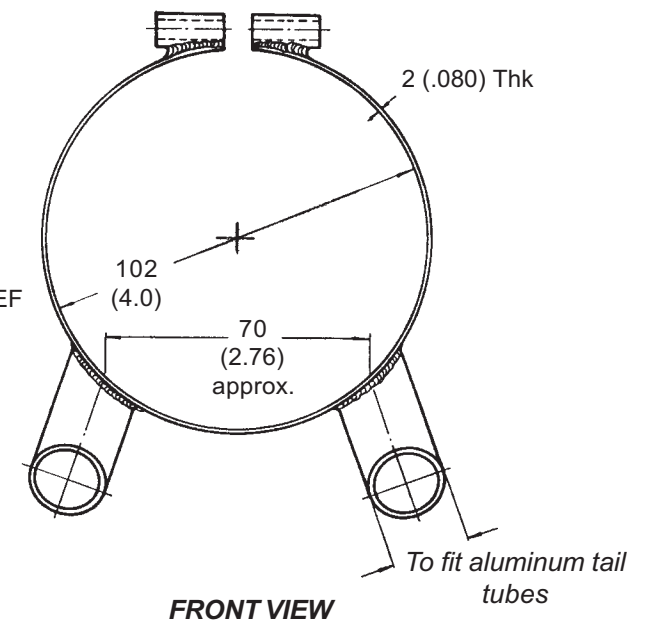


SIDE VIEW



SIDE VIEW

BRACKET B



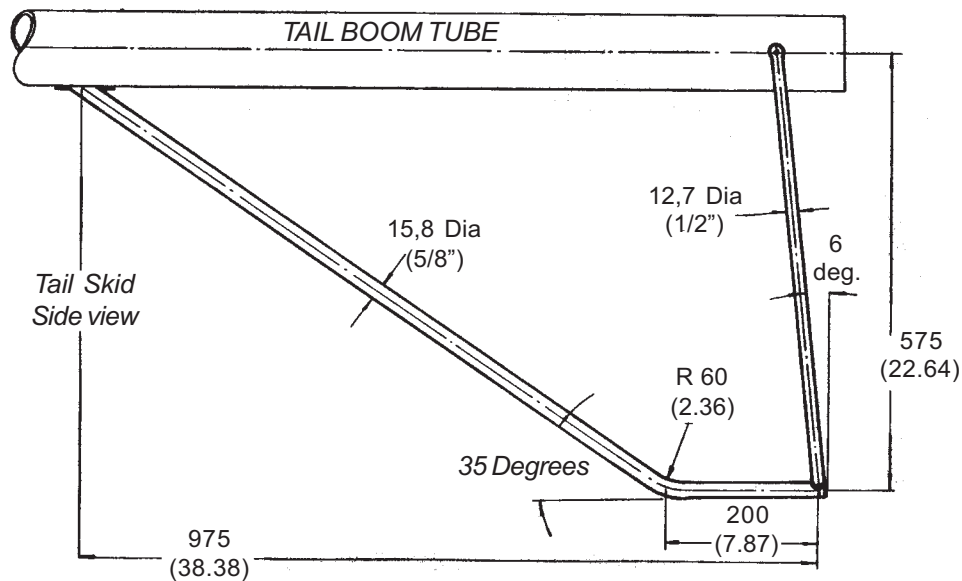
FRONT VIEW

TAIL BOOM BRACKETS

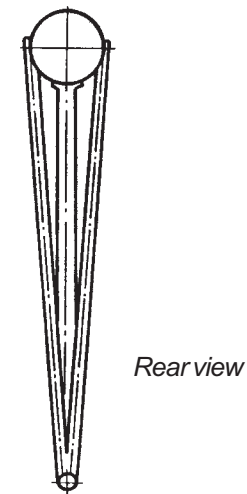
Material: 4130 Steel

TAIL SKID (Tail rotor protector)

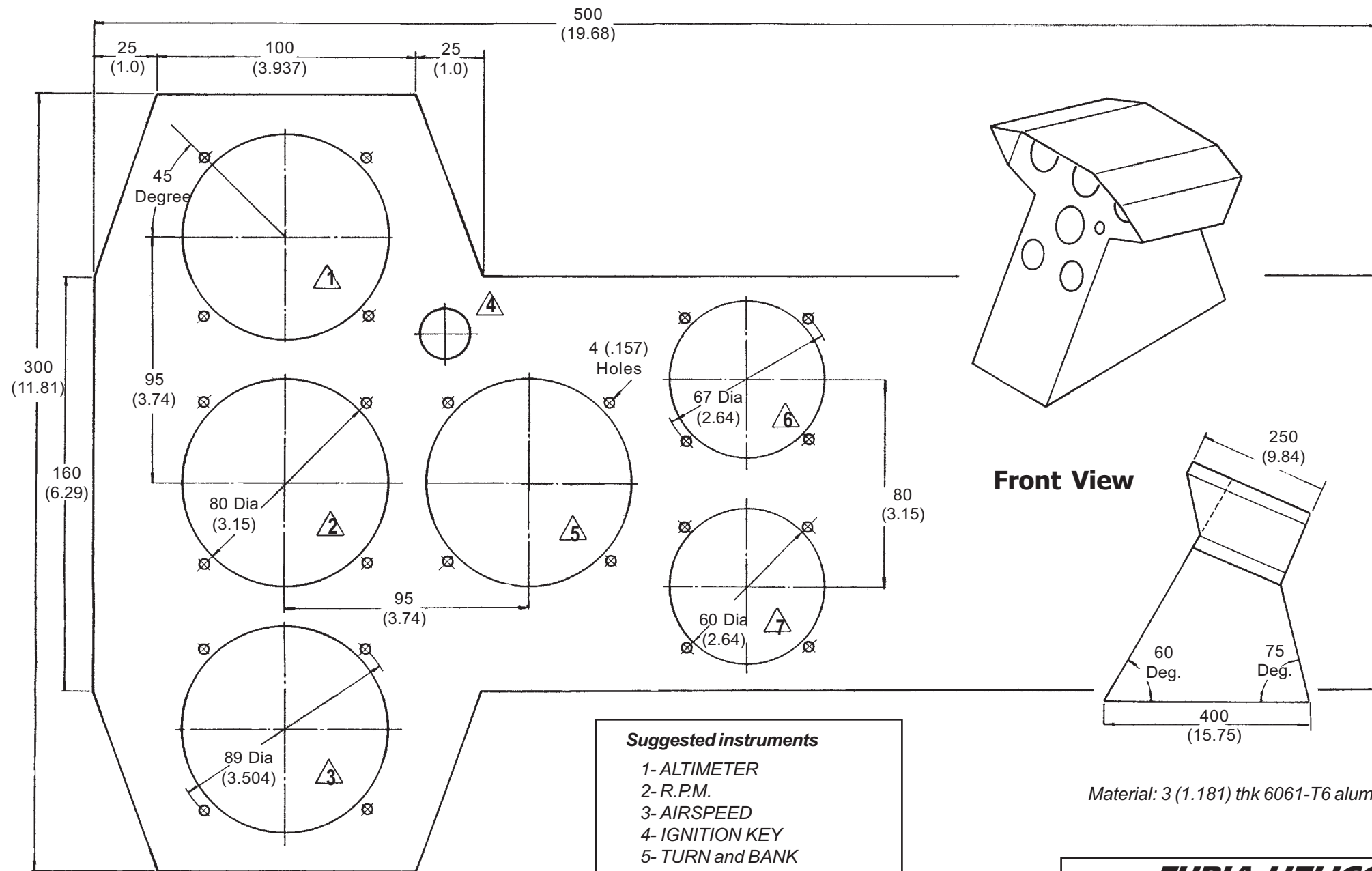
Material: 4130 steel tubes 0,8 (.035) Wall Thickness



Tail Skid Side view



Rear view



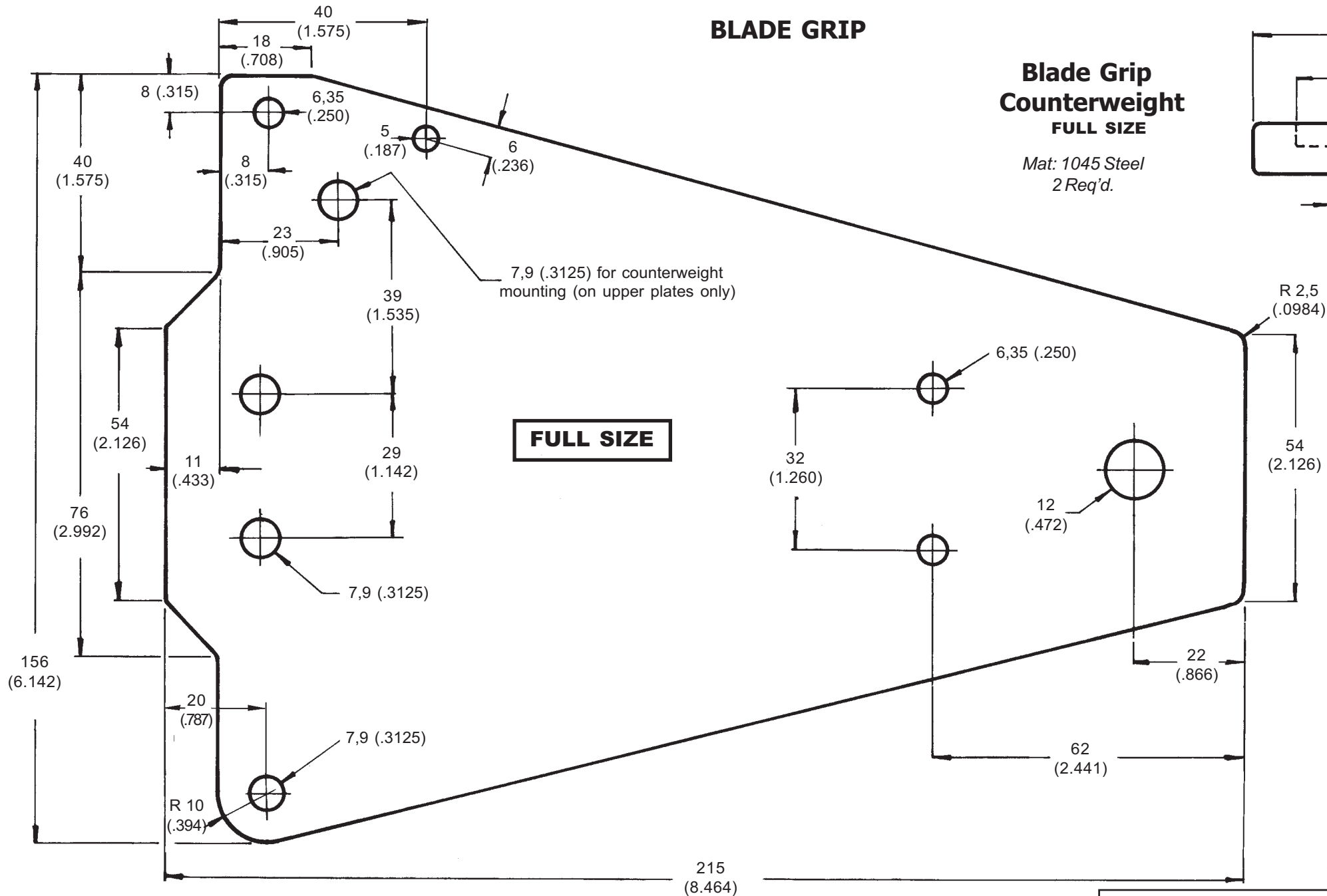
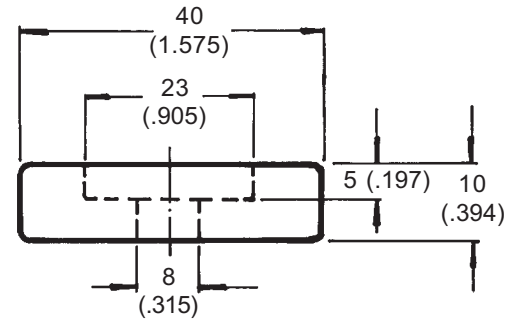
- Suggested instruments**
- 1- ALTIMETER
 - 2- R.P.M.
 - 3- AIRSPEED
 - 4- IGNITION KEY
 - 5- TURN and BANK
 - 6- CYLINDER HEAD TEMP
 - 7- EXHAUST GAS TEMP

Material: 3 (1.181) thk 6061-T6 aluminum

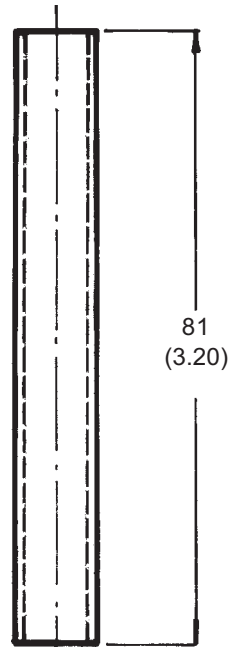
BLADE GRIP

Blade Grip Counterweight FULL SIZE

Mat: 1045 Steel
2 Req'd.



R 2,5
(.0984)



Bushing FULL SIZE

Mat: Steel tube
O.D. 1/2" I.D. 5/16" - (2) Req'd

FURIA HELICOPTER -

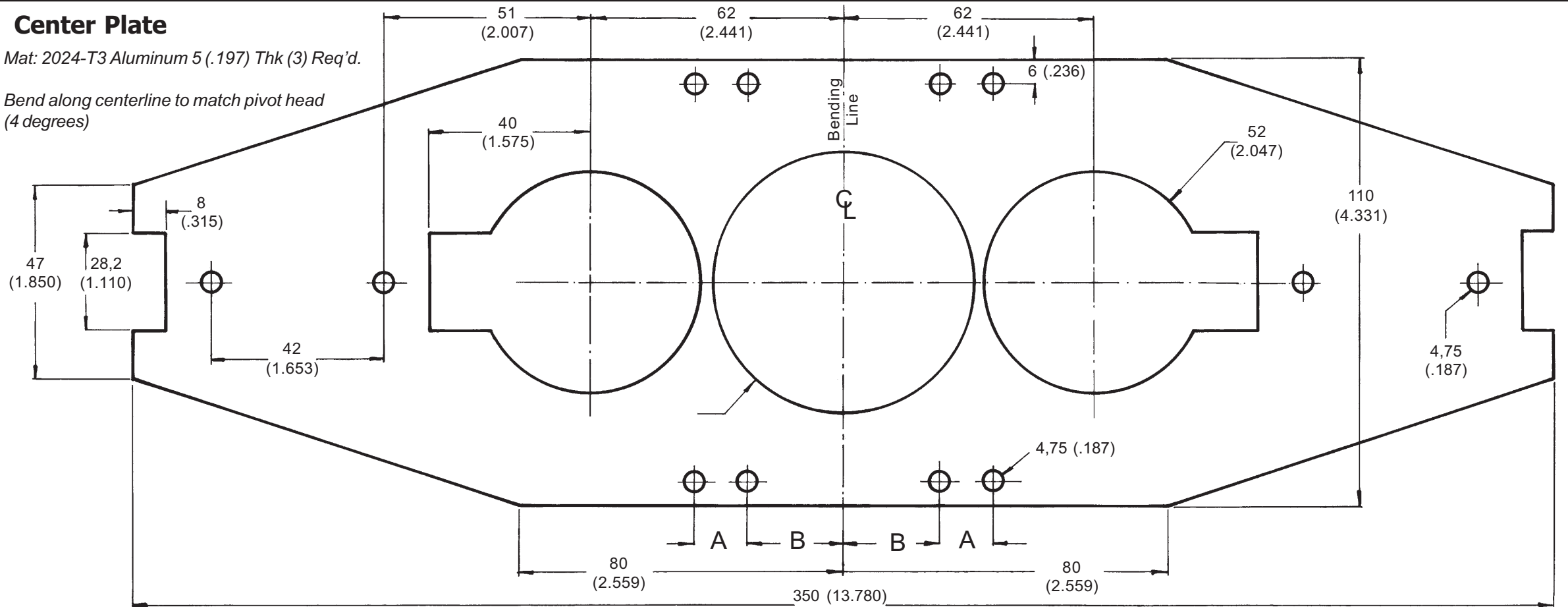
MAIN ROTOR COMPONENTS

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Center Plate

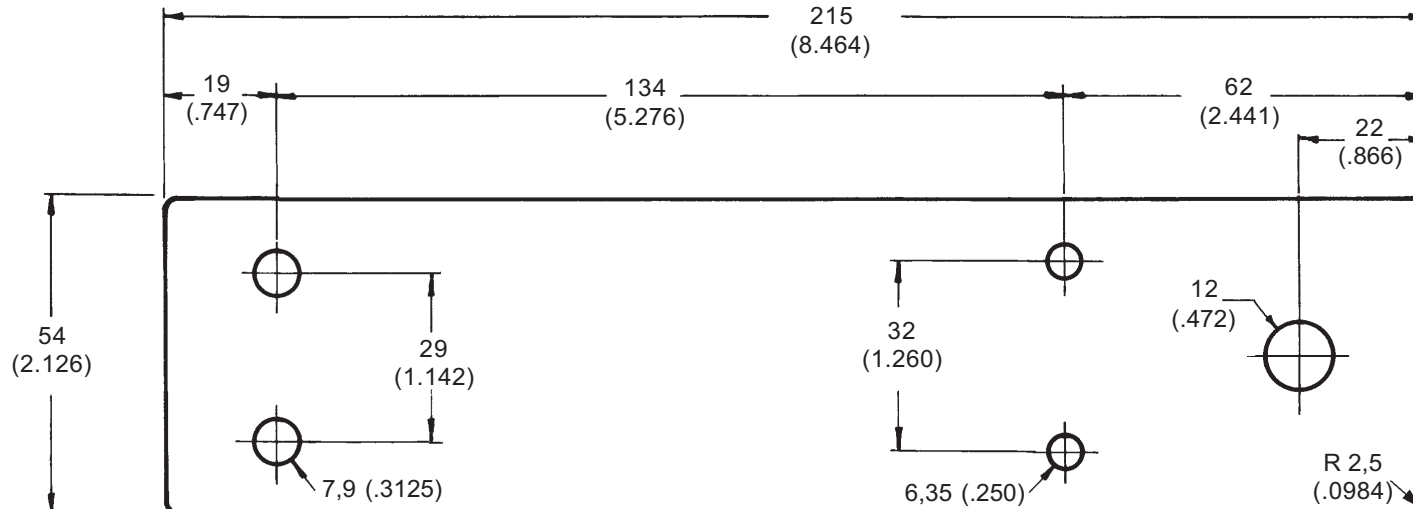
Mat: 2024-T3 Aluminum 5 (.197) Thk (3) Req'd.

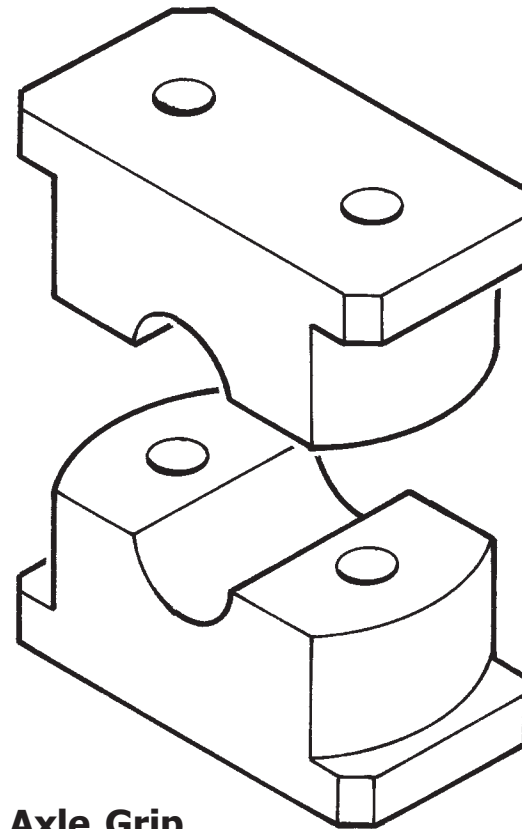
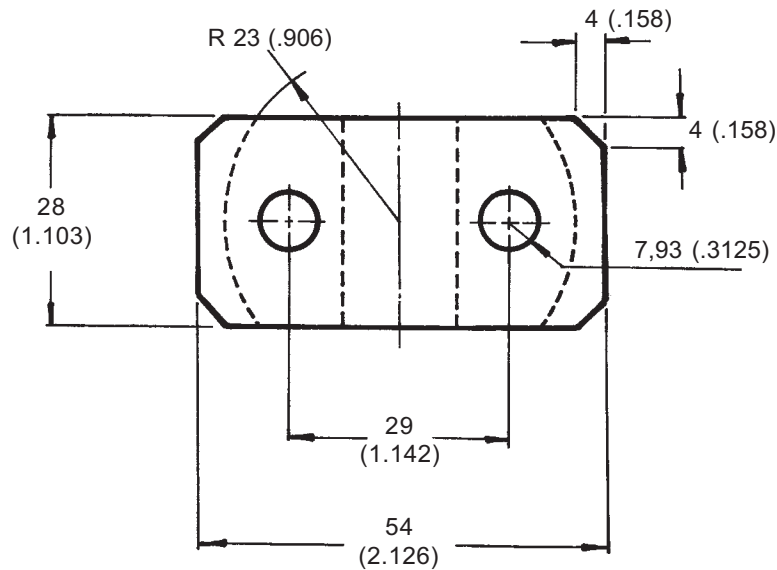
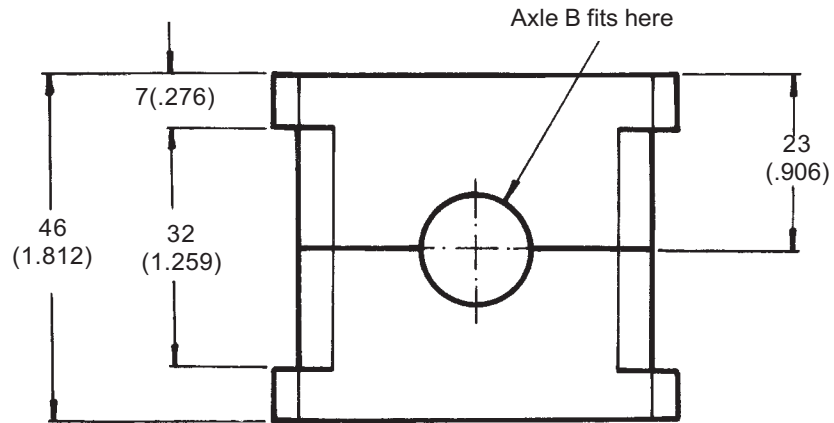
Bend along centerline to match pivot head
(4 degrees)



Reinforcement Strap

Mat: 2024-T3 Aluminum
5 (.197) Thk (4) Req'd.





Axle Grip

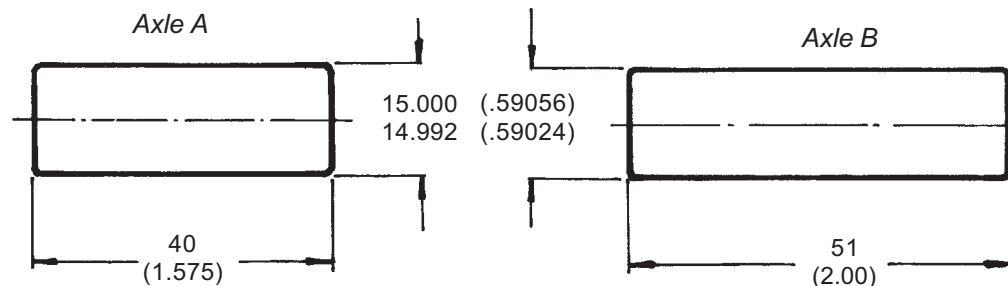
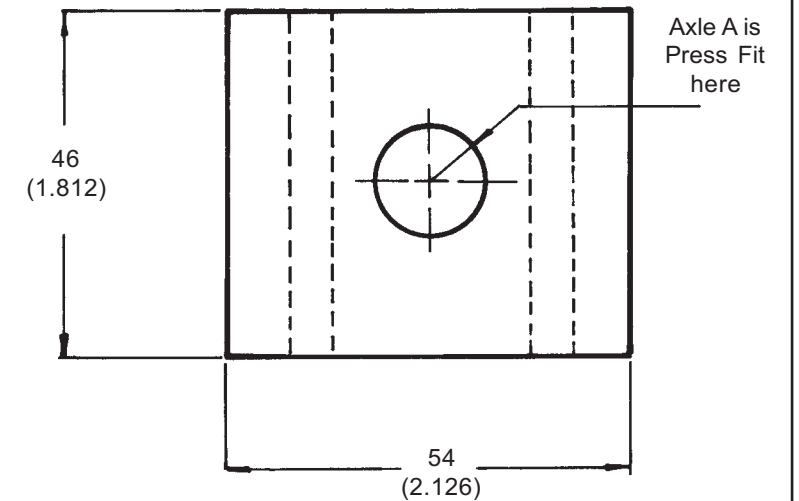
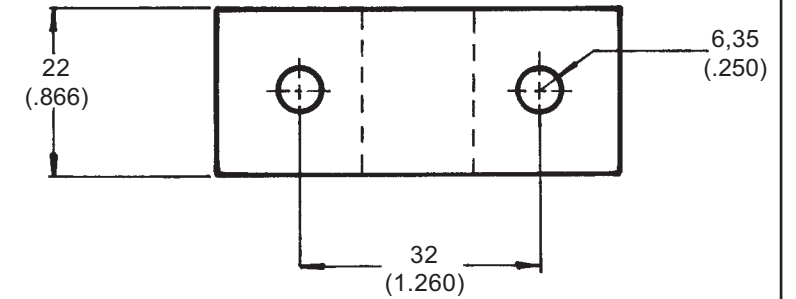
FULL SIZE

Mat: 2024-T3 Aluminum
(2) Req'd.

Axle Housing

FULL SIZE

Mat: 2024-T3 Aluminum
(2) Req'd.



Axes

FULL SIZE

(2) of each req'd.
Mat: 8620 Steel
Heat Treatment: Case hardening
Minimum surface hardness:
58 Rockwell C
Effective case depth: 0,3 (.012)
(after finish grinding)

FURIA HELICOPTER -

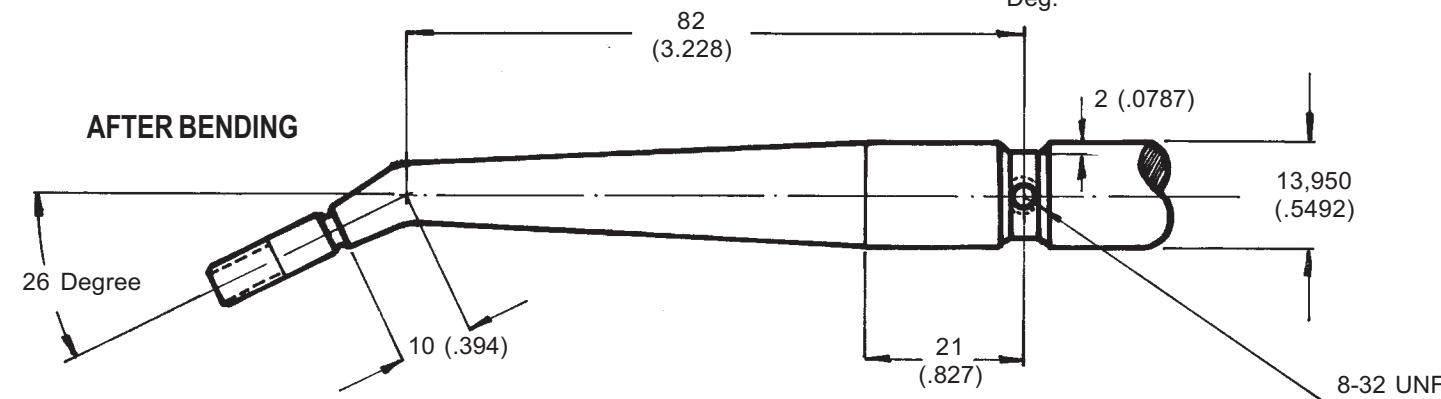
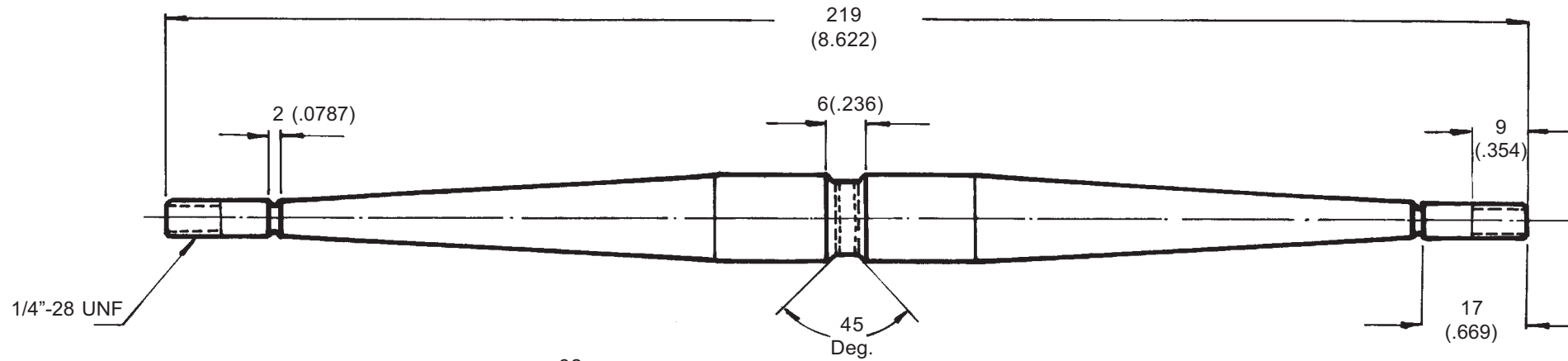
MAIN ROTOR COMPONENTS

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BLADE CONTROL MASTER HORN

Mat: 1045 Steel
(1) req'd

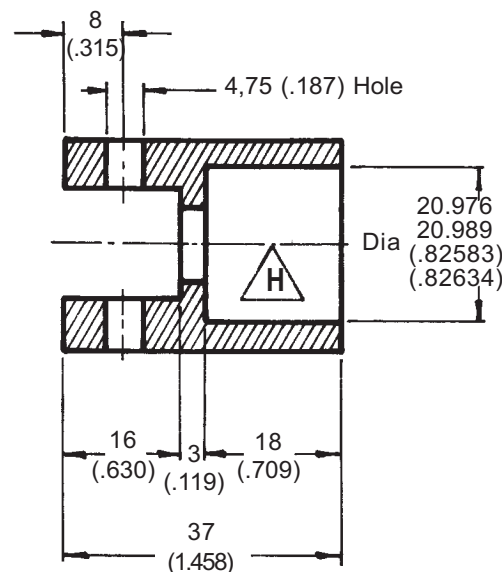
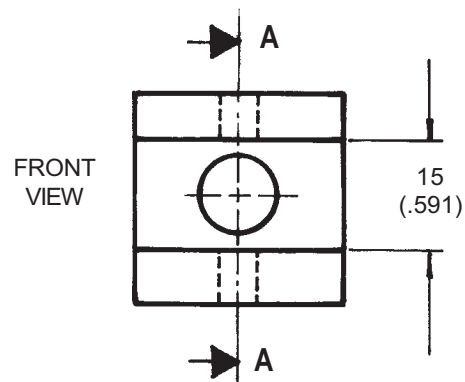
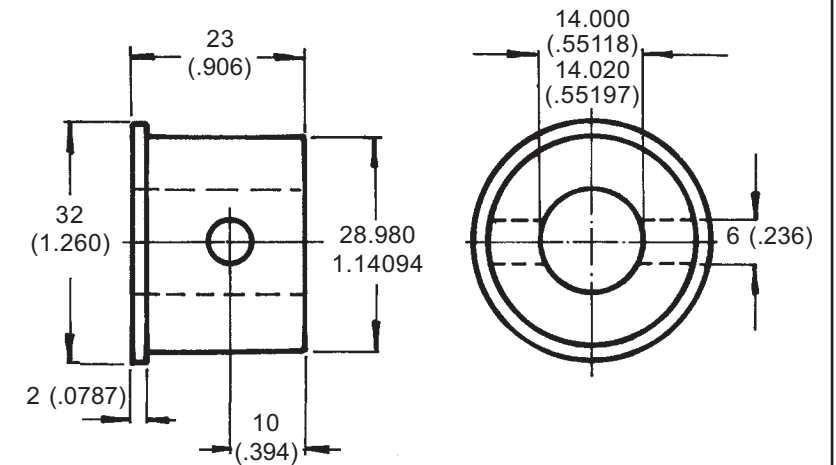
FULL SIZE



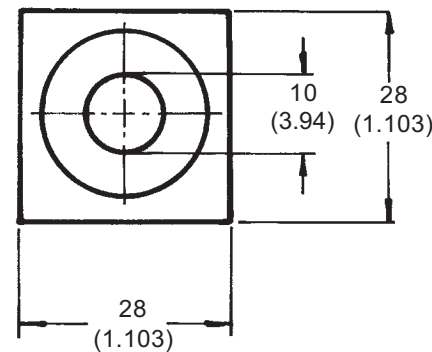
BUSHING

Mat: Steel (1) Req'd.

FULL SIZE



BOTTOM VIEW



CLAW

FULL SIZE

Mat: 4140 Steel
(4) Req'd.

H Bearing housing

Shell type bearings are installed here with the aid of a press

FURIA HELICOPTER -

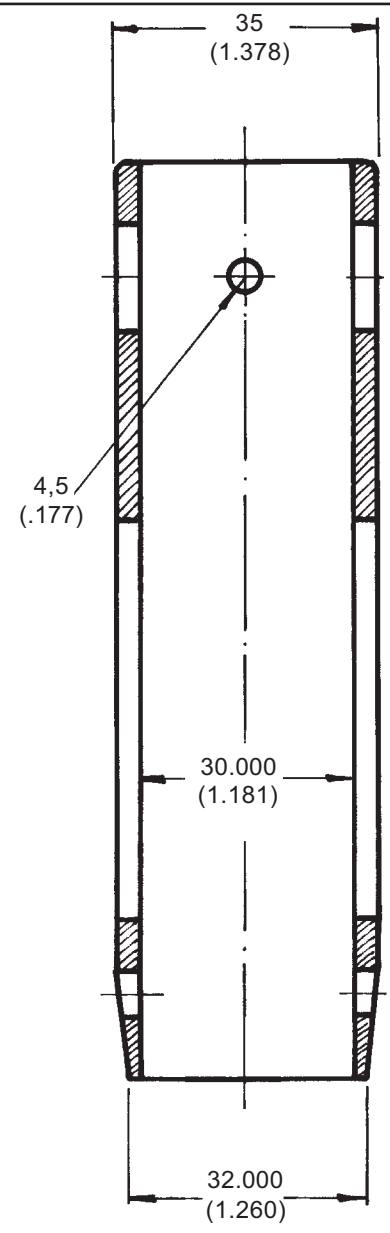
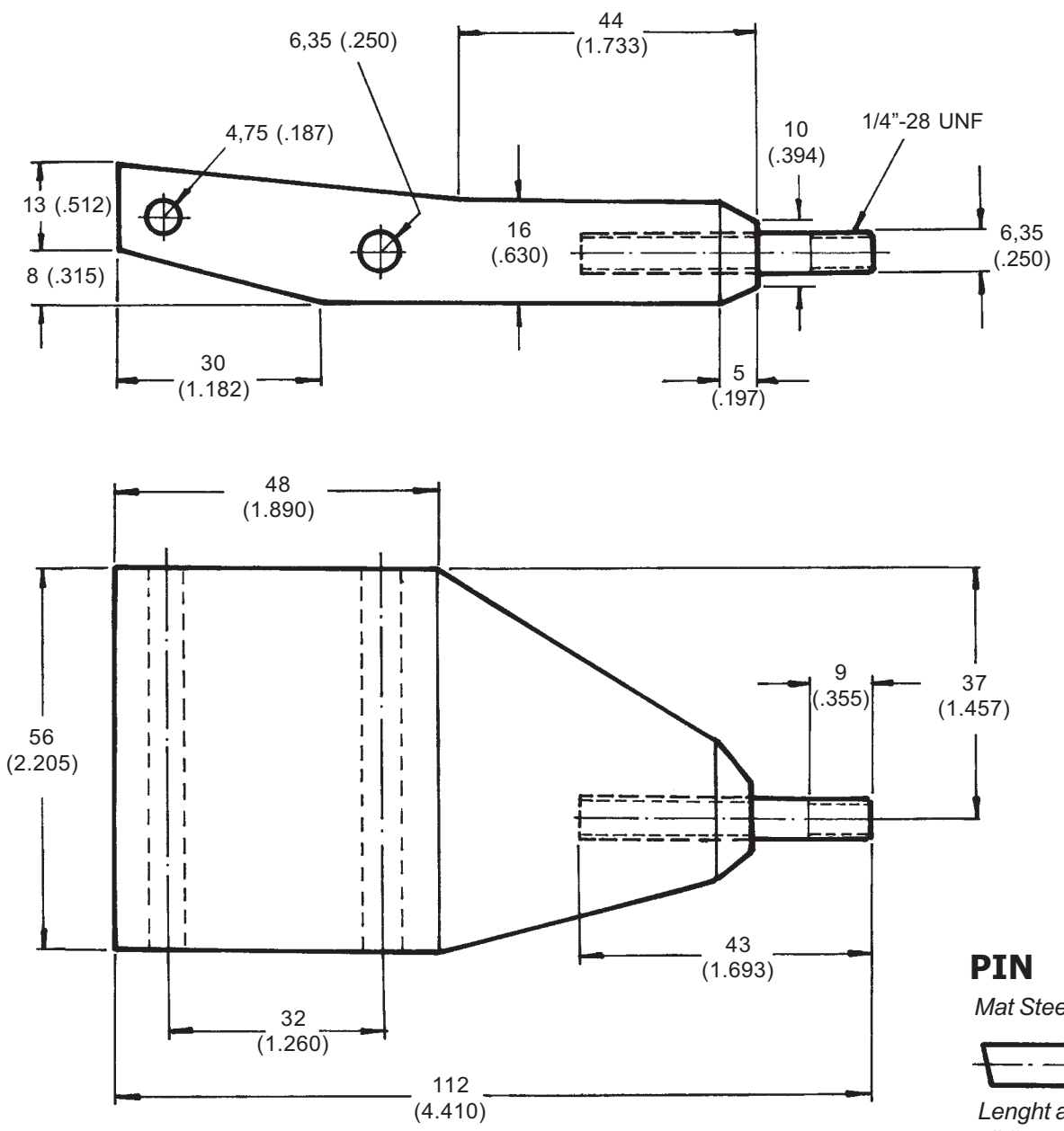
MAIN ROTOR COMPONENTS

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BLADE CONTROL HORN

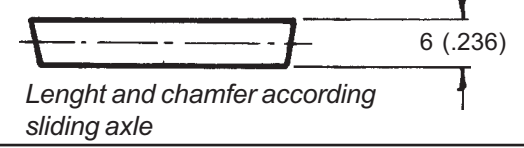
Mat: 2024-T3 Aluminum (2) req'd

FULL SIZE



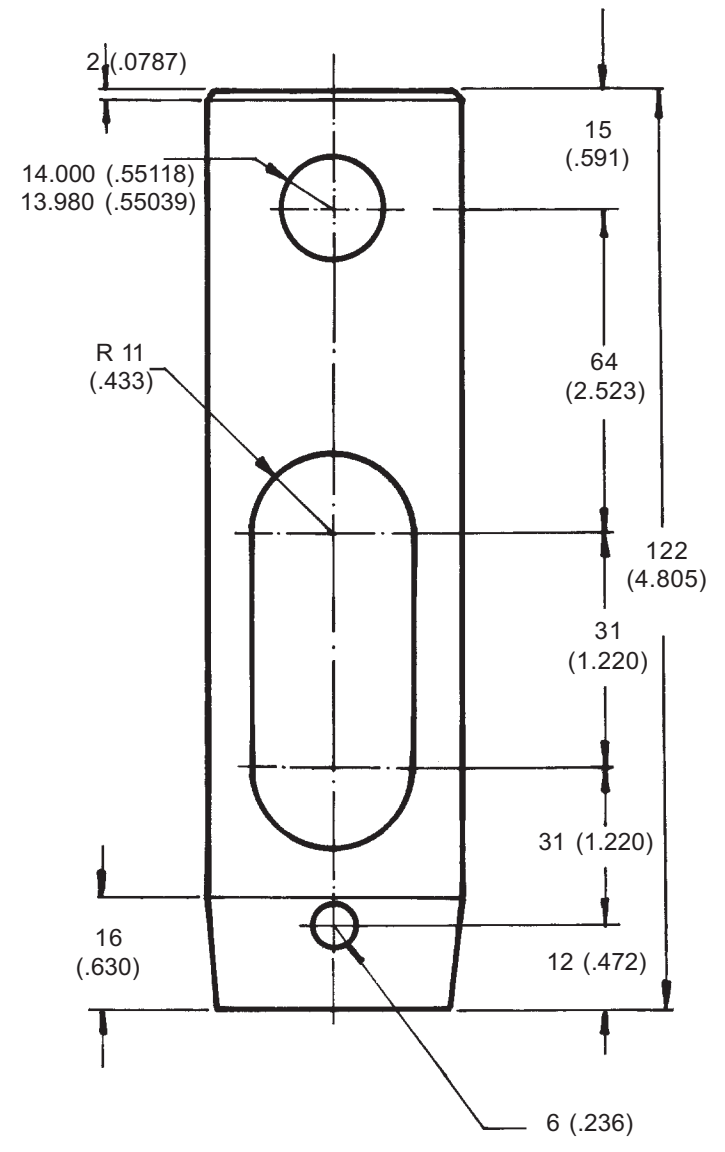
PIN

Mat Steel (1) req'd.



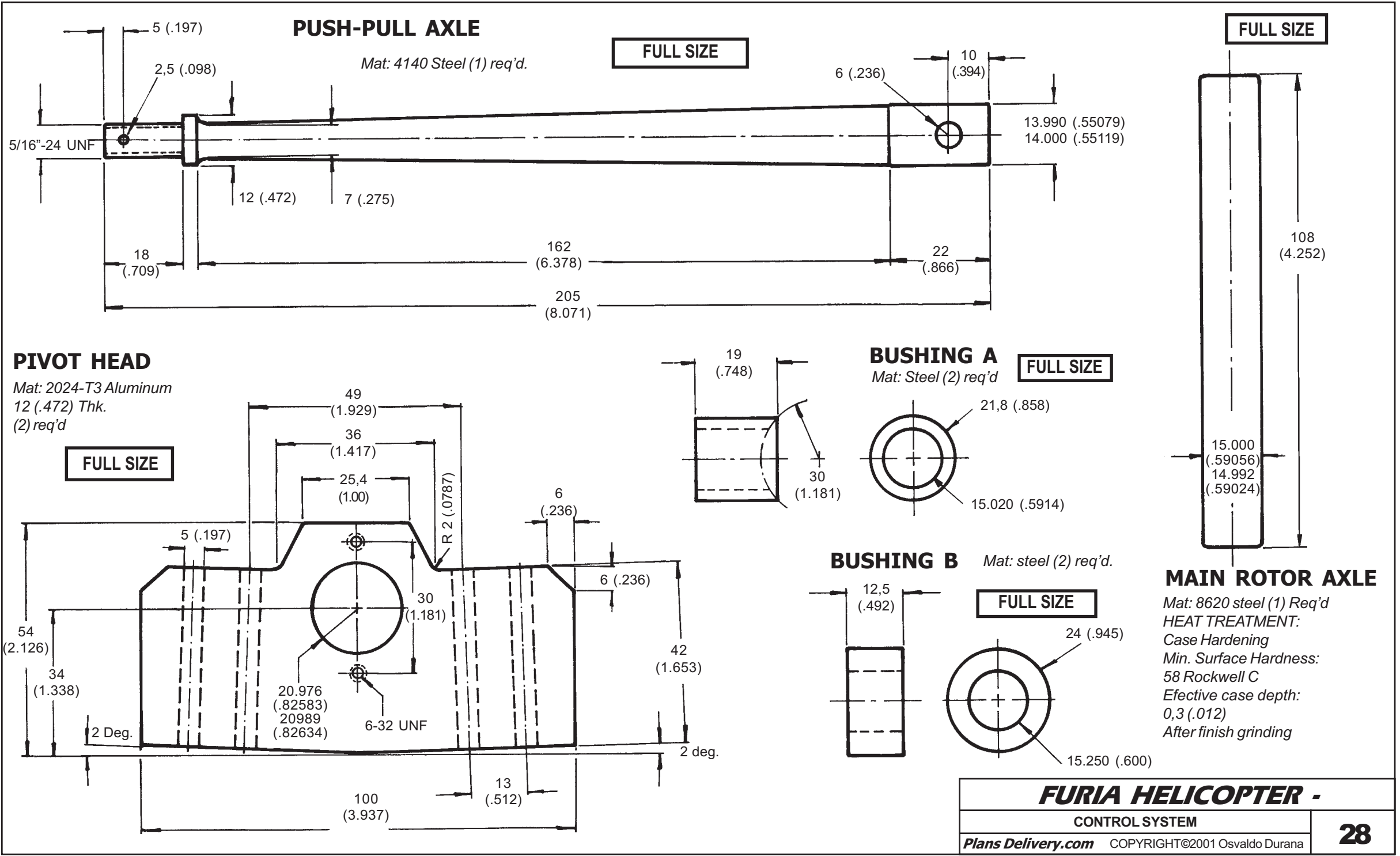
CONTROL SLIDING AXLE

Mat: 41410 Steel (1) req'd.



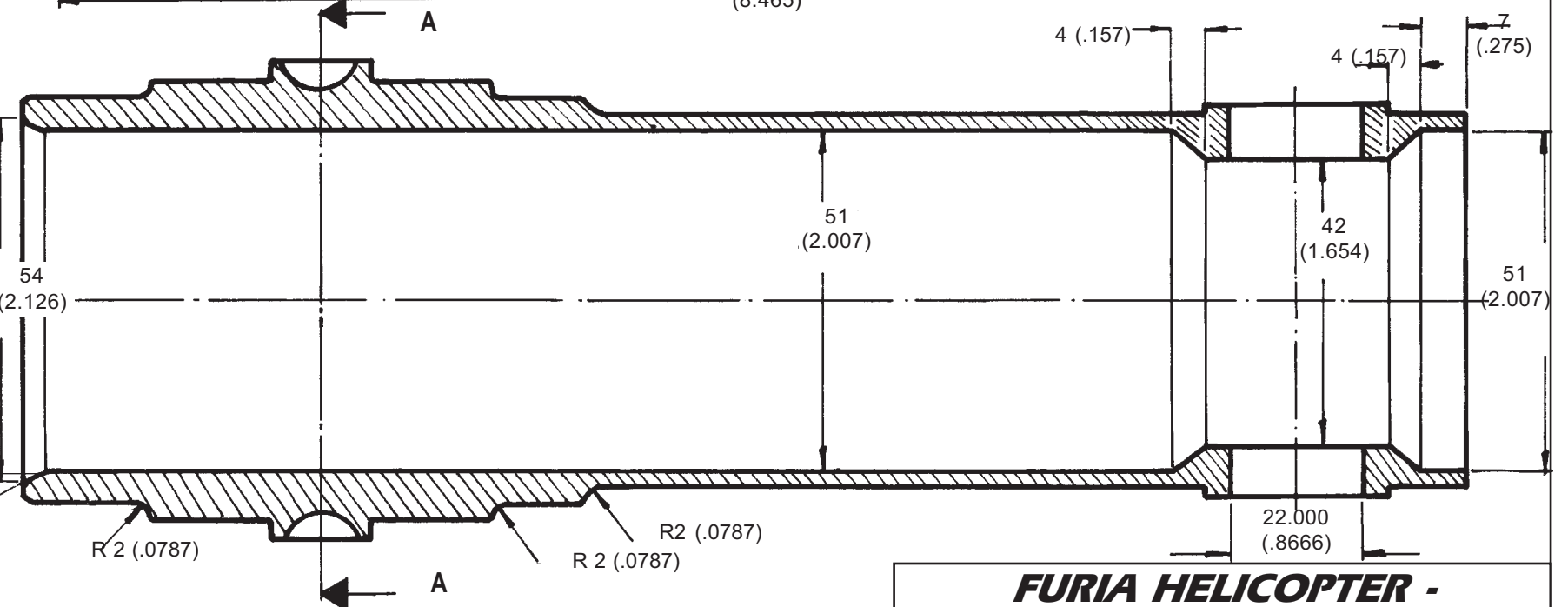
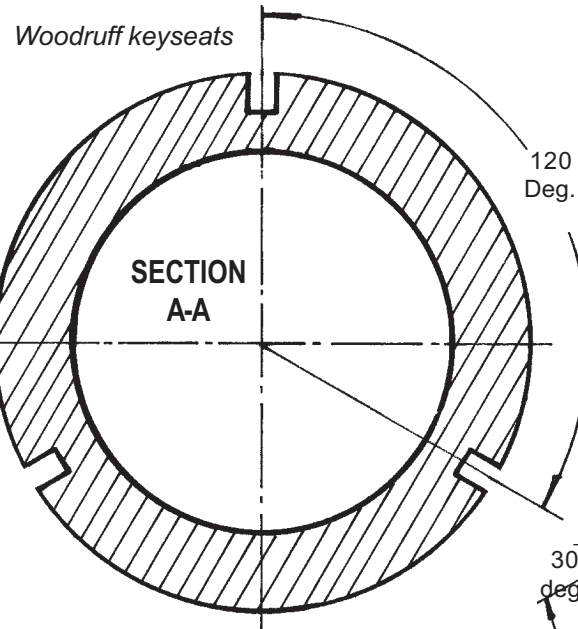
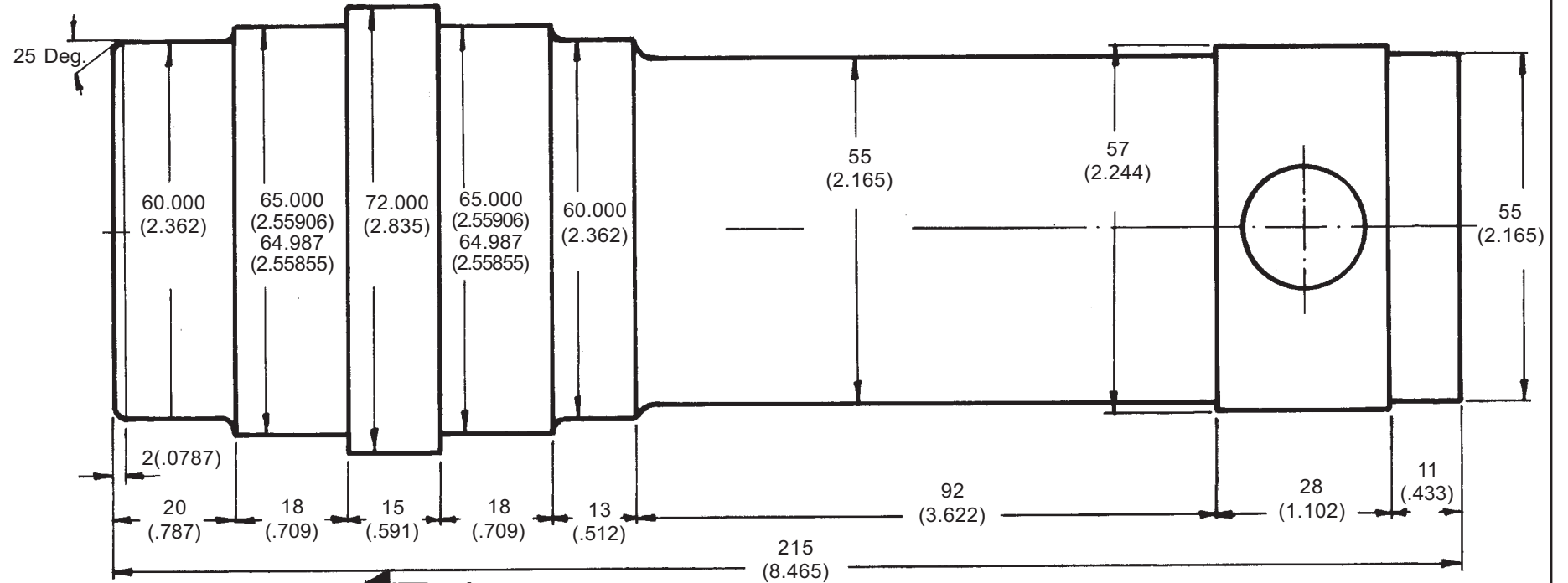
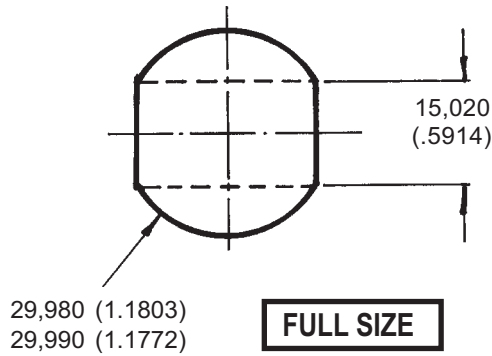
FULL SIZE

FURIA HELICOPTER -	
MAIN ROTOR/CONTROL SYSTEM	
Plans Delivery.com	COPYRIGHT©2001 Osvaldo Durana
27	



BALL

Mat: 8620 Steel (1) req'd.
Heat Treatment: Case Hardening
58 Rockwell C



MAIN ROTOR SHAFT

Mat: 4140 Steel (1) req'd.

FULL SIZE

FURIA HELICOPTER -

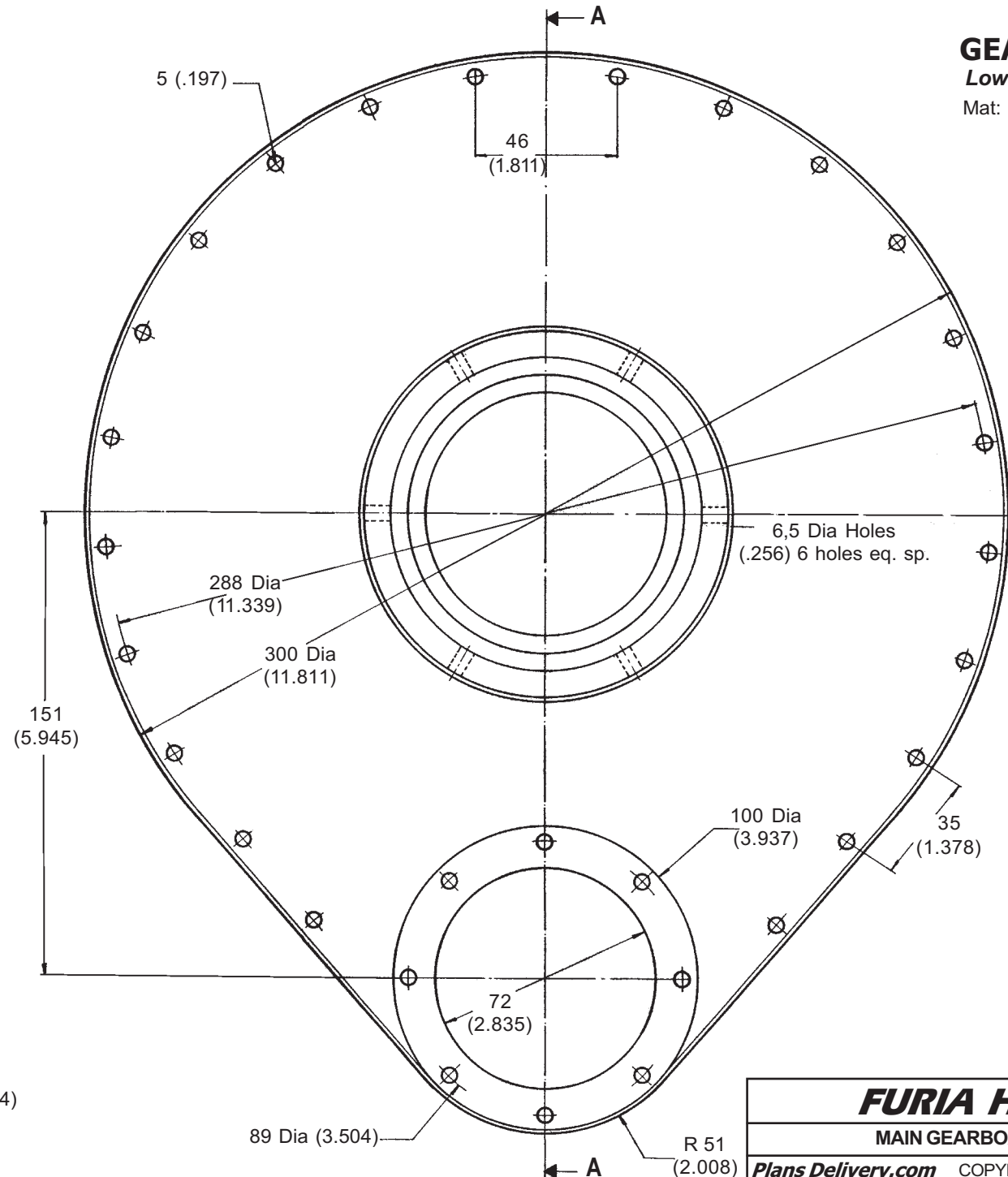
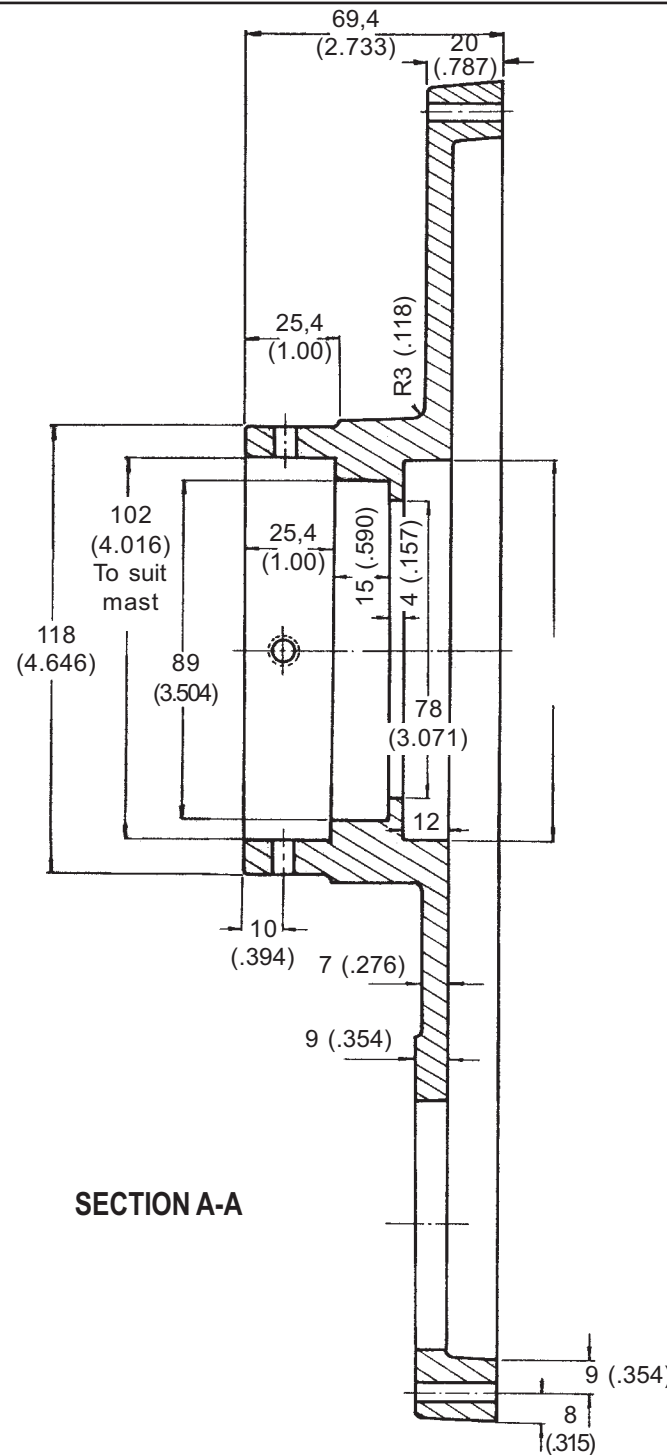
MAIN ROTOR COMPONENTS

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GEARBOX HOUSING

Lower Half

Mat: Aluminum casting



FURIA HELICOPTER -

MAIN GEARBOX HOUSING

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30

GEARBOX HOUSING

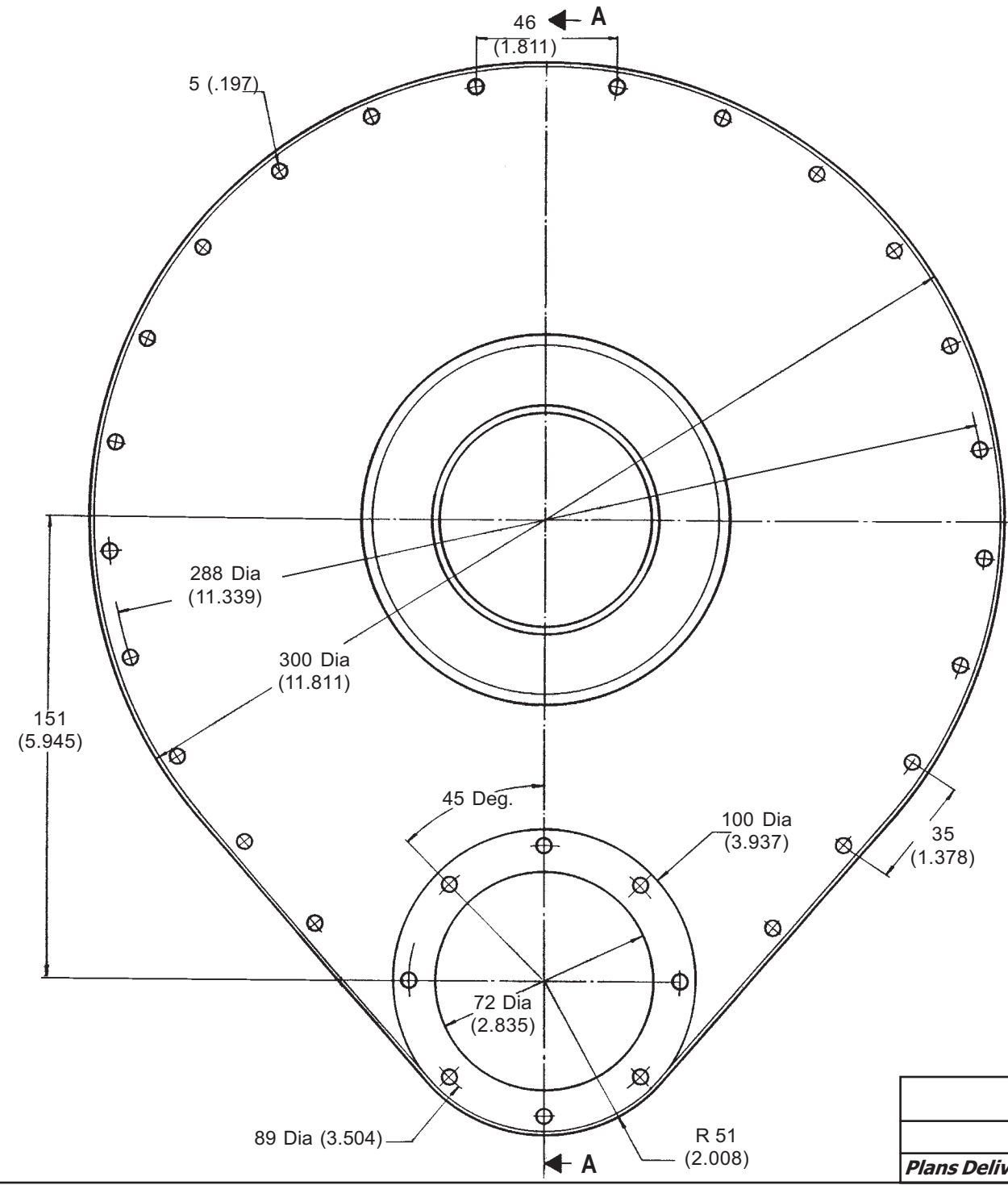
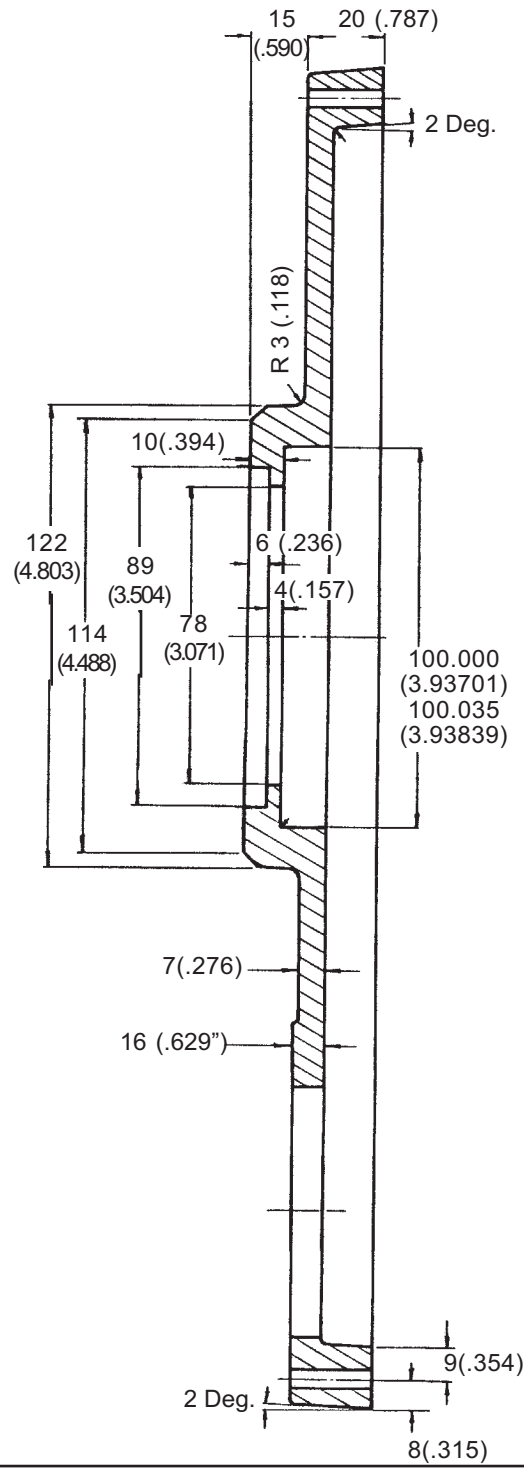
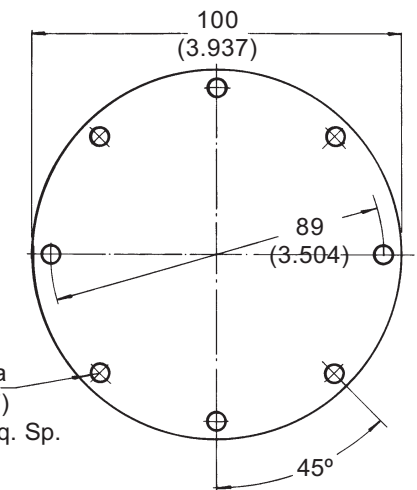
Upper half

Mat: Aluminum casting

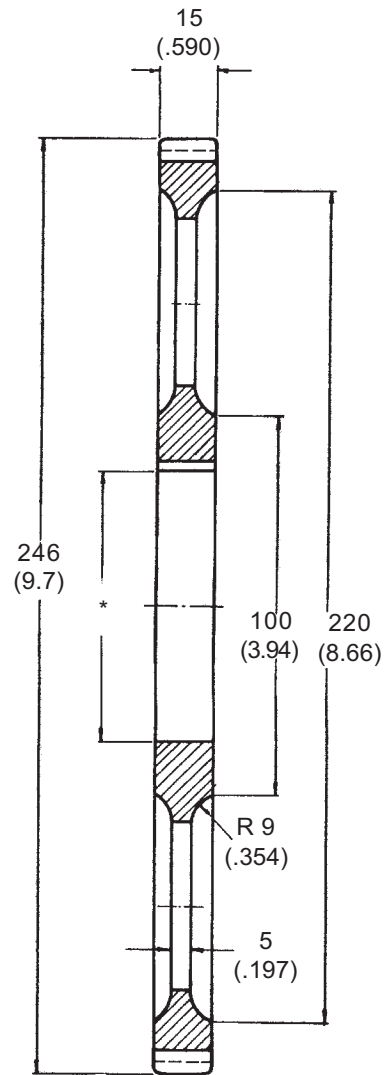
GEARBOX LID

Mat: Aluminun 4 (.157) Thk.

(1) Req'd.

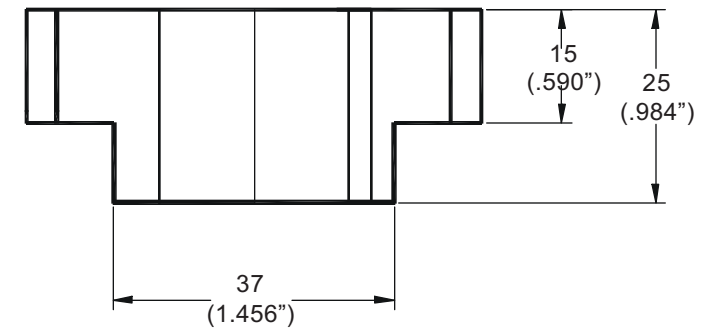
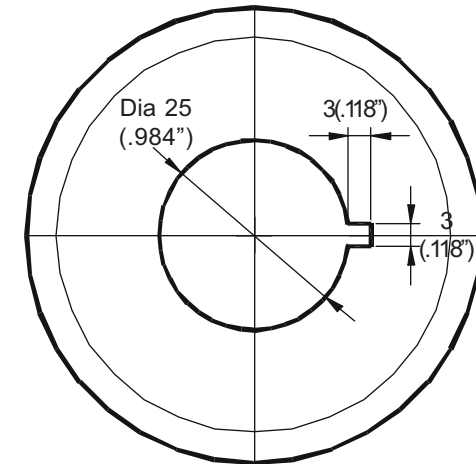
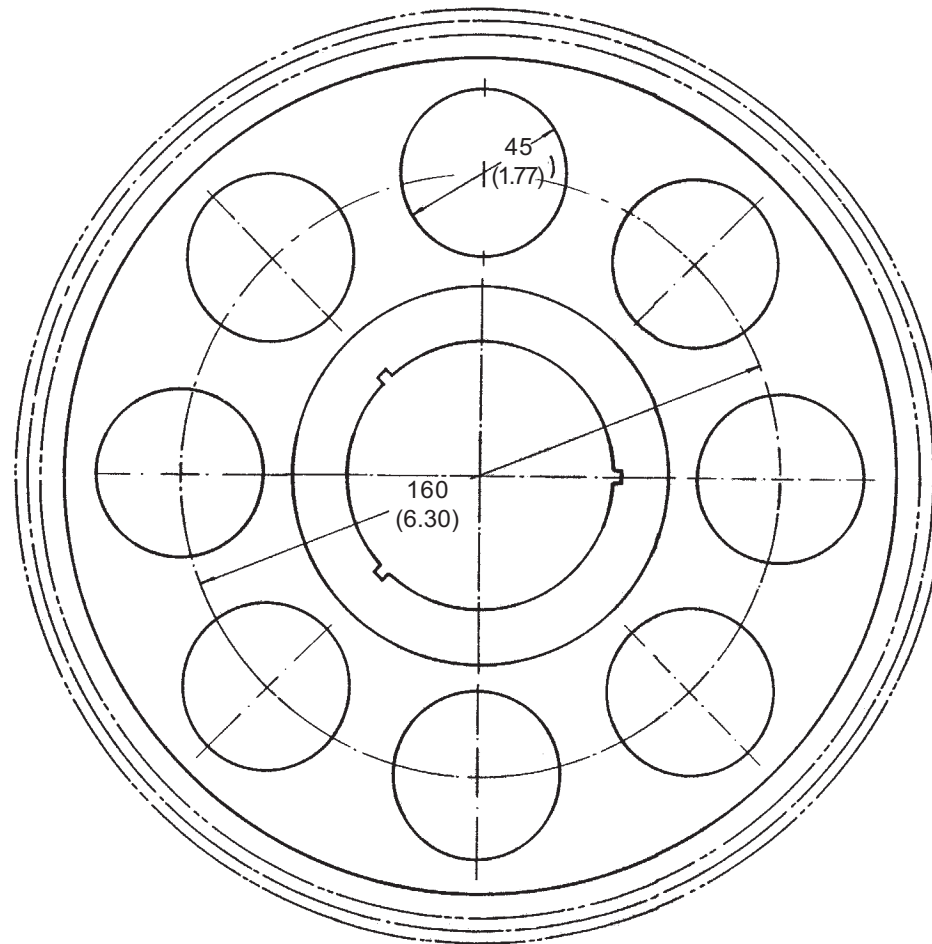


GEAR



*) To fit in main rotor shaft

PINION Full Size



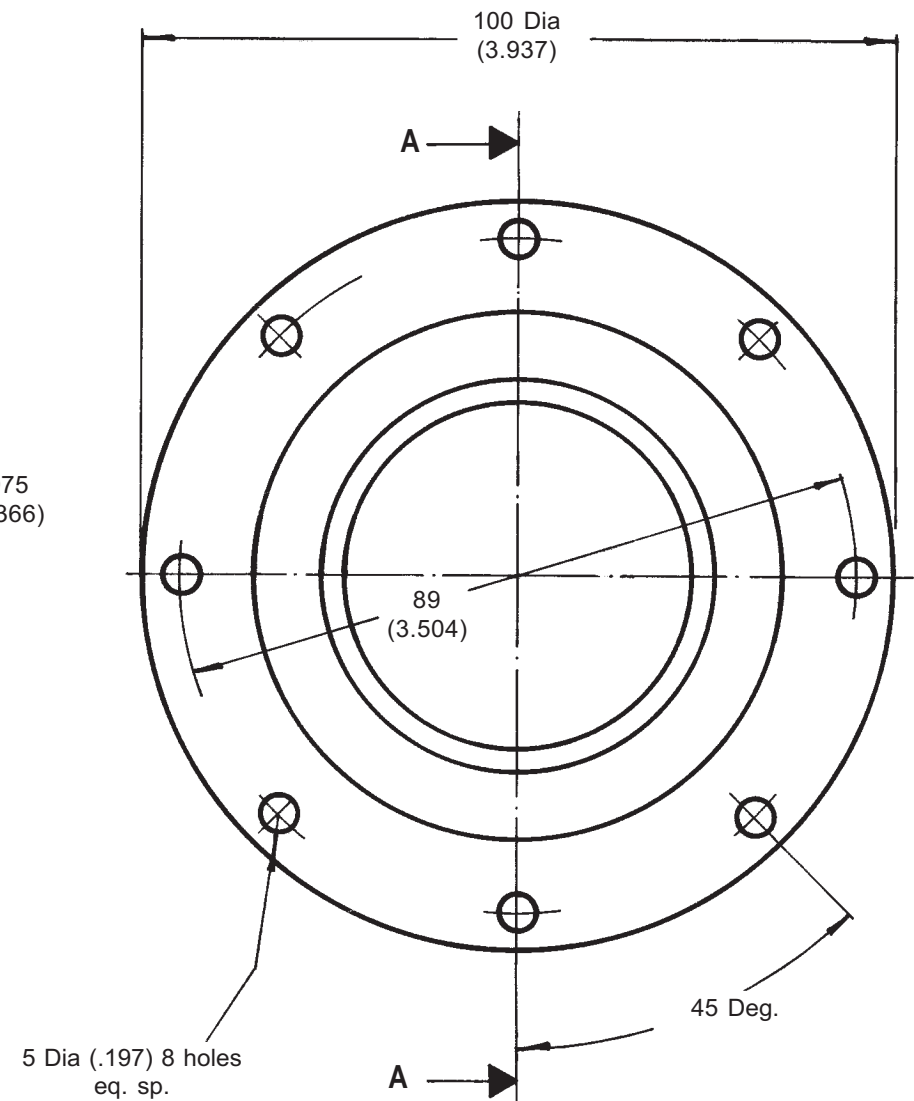
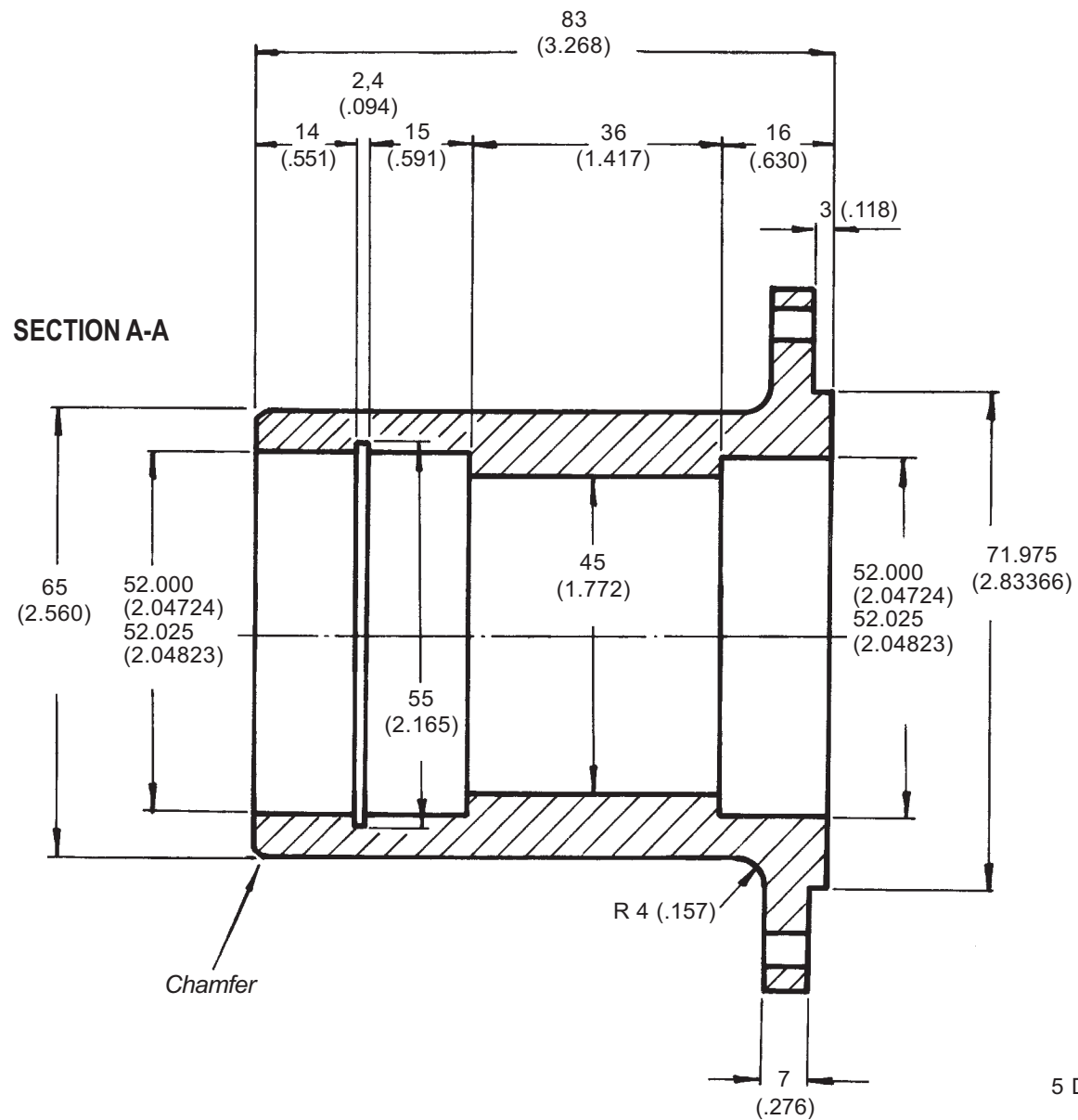
CUTTING DATA

	GEAR	PINION
NUMBER OF TEETH	95	23
DIAMETRAL PITCH	10	10
PITCH DIAMETER	9.5	2.3
OUTSIDE DIAMETER	9.7	2.5
CENTERDISTANCE	5.9	5.9
ADDENDUM	.1	.1
DEDENDUM	.1157	.1157
CLEARANCE	.0157	.0157
WHOLE DEPTH	.2157	.2157

FURIA HELICOPTER -

MAIN ROTOR GEARS

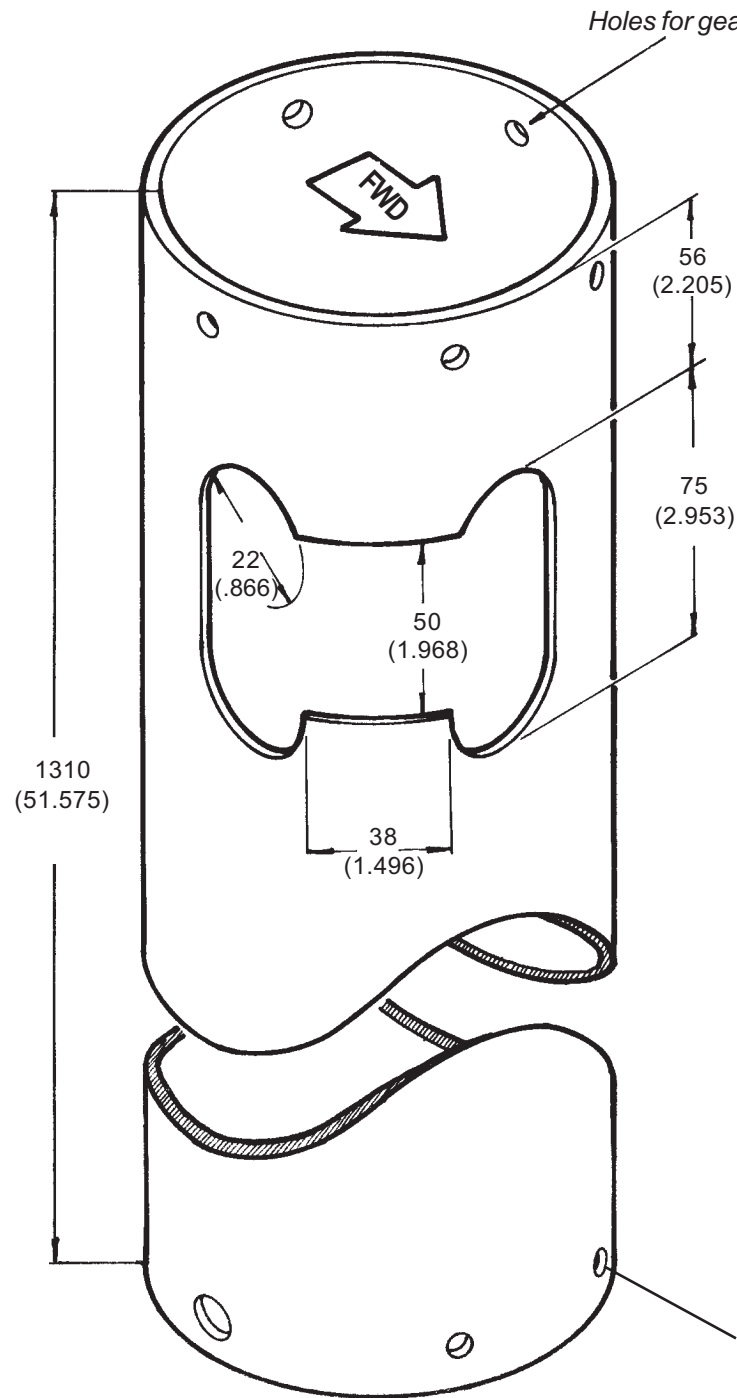
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PINION HOUSING

Mat: Aluminum (1) req'd.

FULL SIZE



MAIN ROTOR MAST

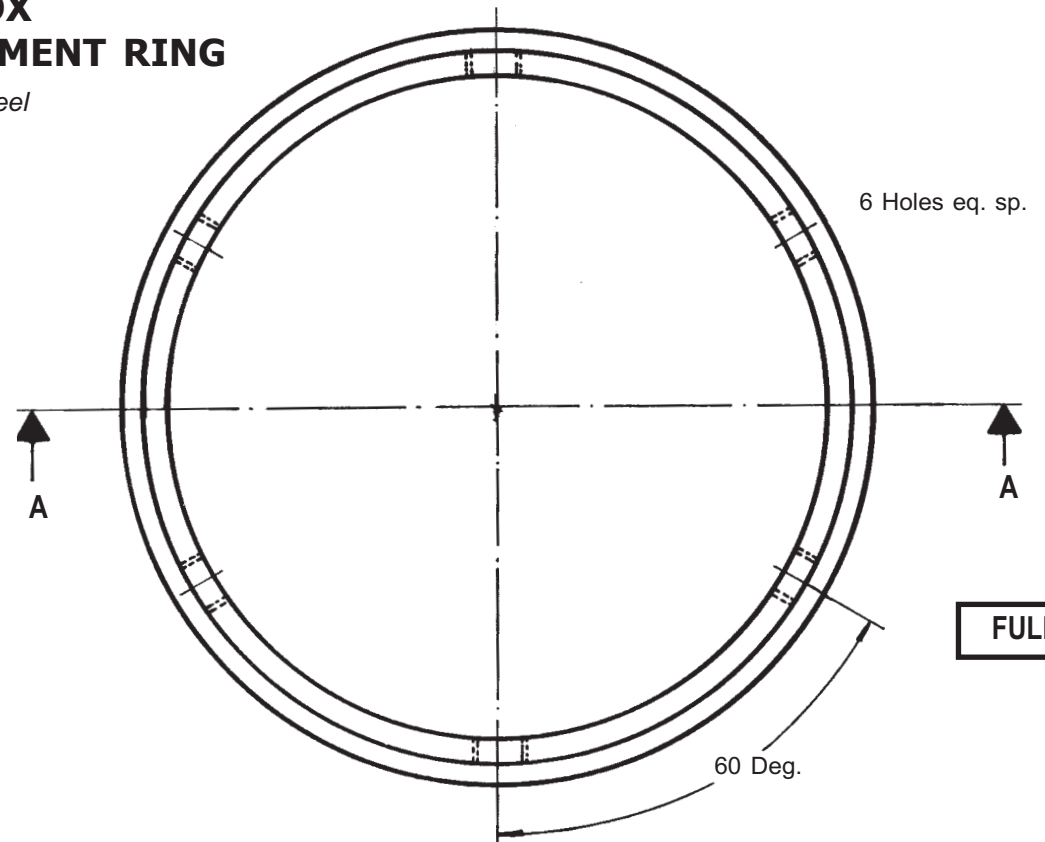
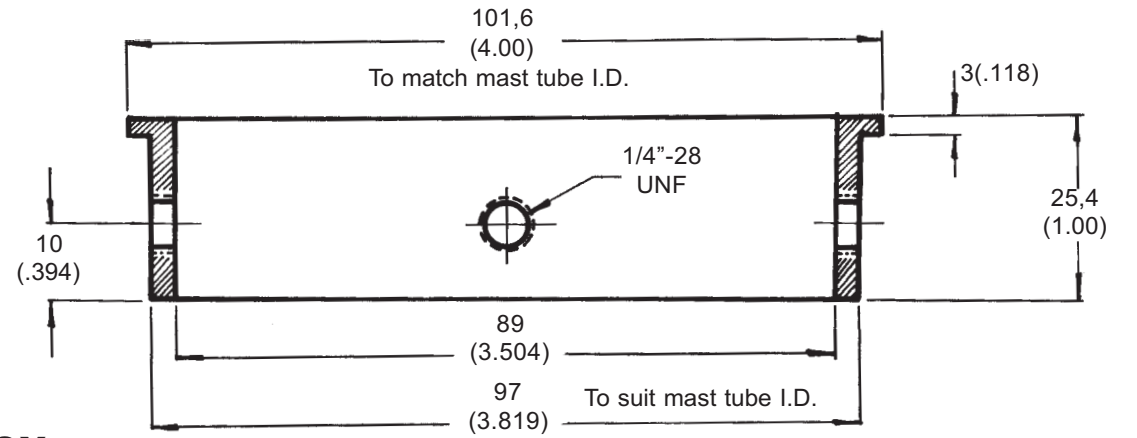
Mat.: 6061-T6 Aluminum Tube
 O.D. 400 (101.6)
 I.D. 97 (3.819) (Approx.)

Holes for gearbox attachment ring

Holes for belcranck mounting ring

GEARBOX ATTACHMENT RING

Mat: 4130 Steel



FULL SIZE

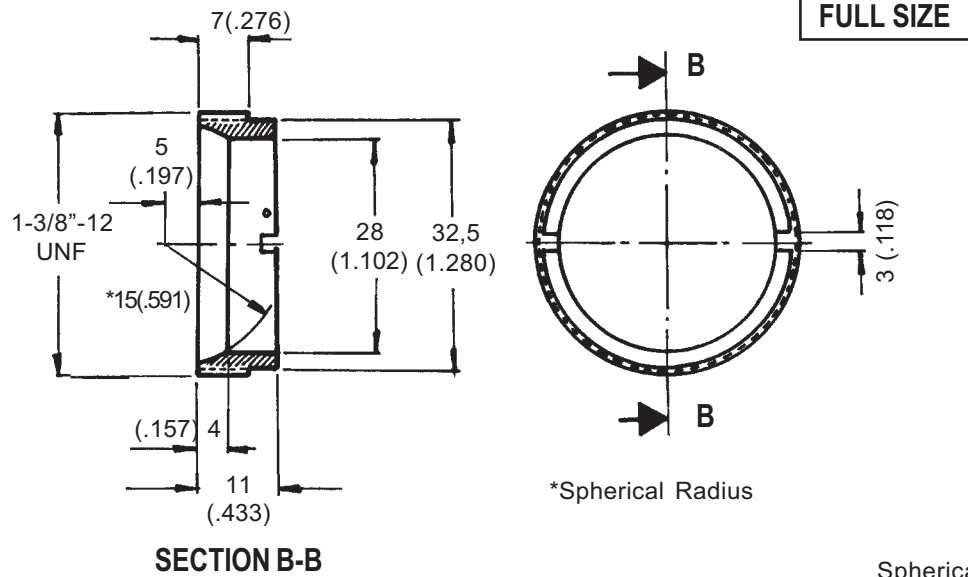
FURIA HELICOPTER -

MAIN ROTOR MAST

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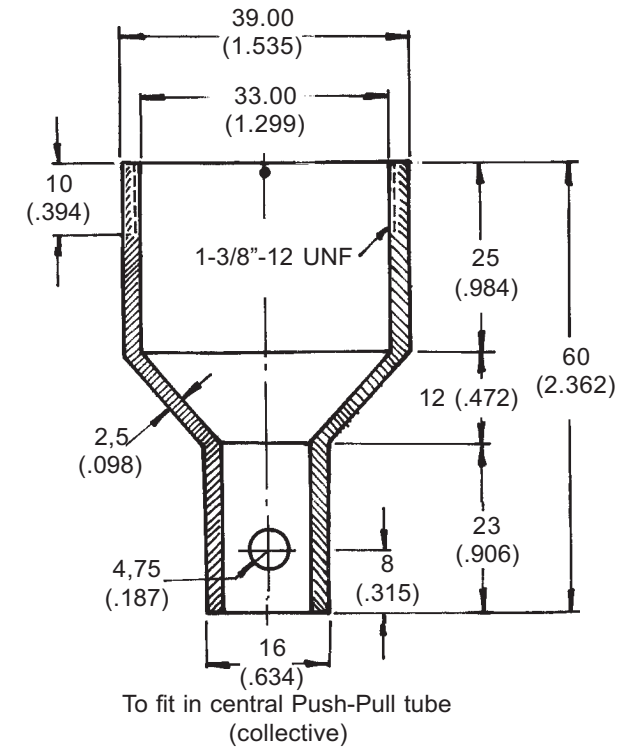
RACE/NUT

Mat: 1050 Steel (1) req'd



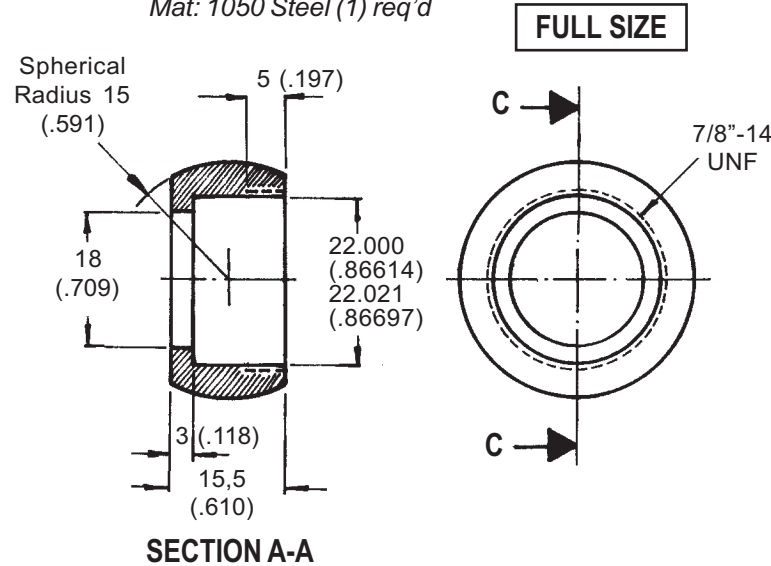
CENTRAL UNIBALL HOUSING

Mat. 1045 Steel (1) req'd



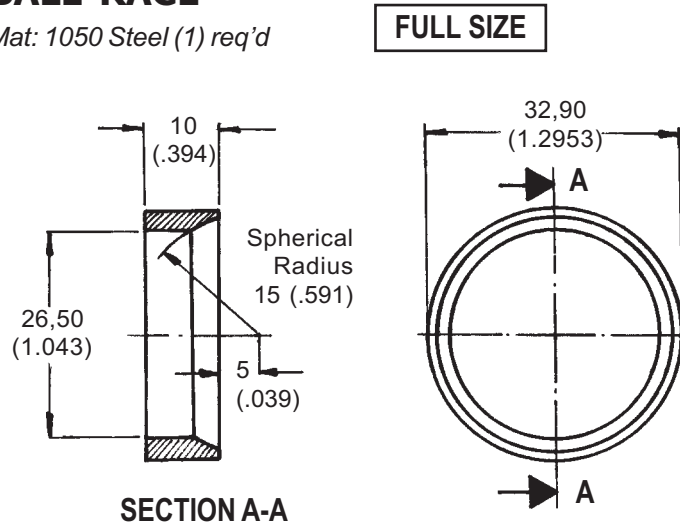
BALL/BEARING HOUSING

Mat: 1050 Steel (1) req'd



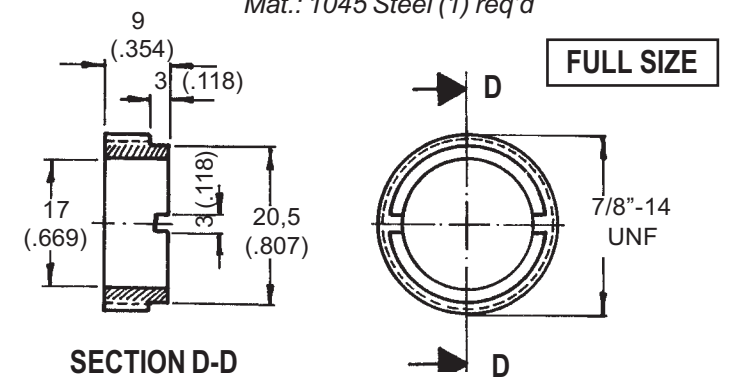
BALL RACE

Mat: 1050 Steel (1) req'd



NUT A

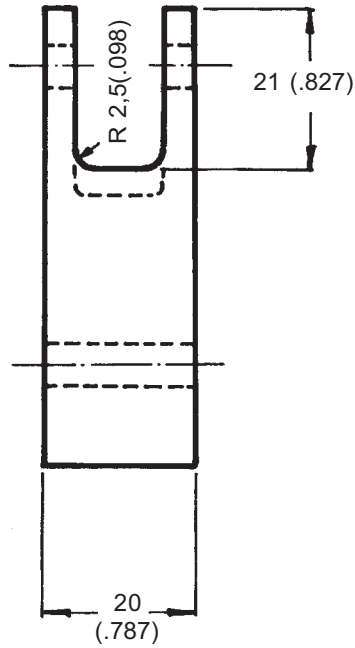
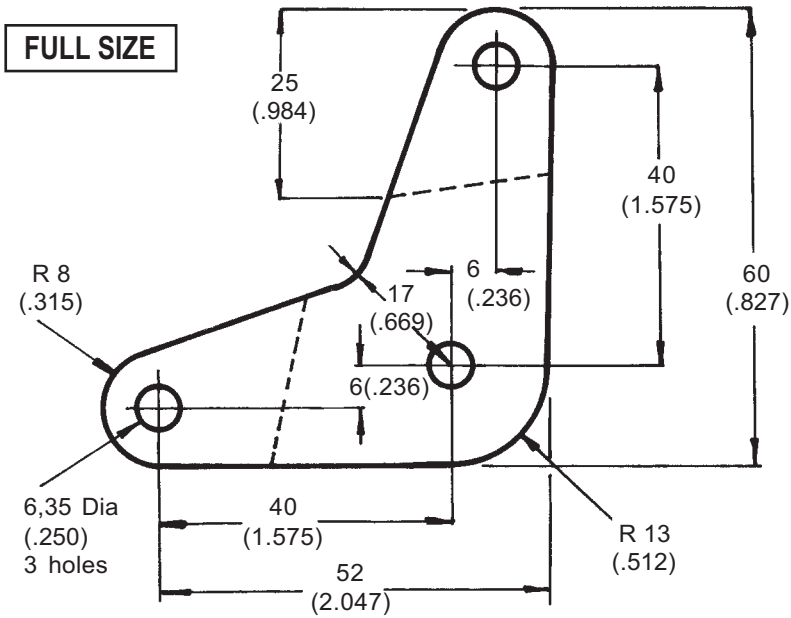
Mat.: 1045 Steel (1) req'd



HEAT TREATMENT
 Ball and races must have hardened surfaces (raceways)
 Minimum surface hardness:
 58 Rockwell C

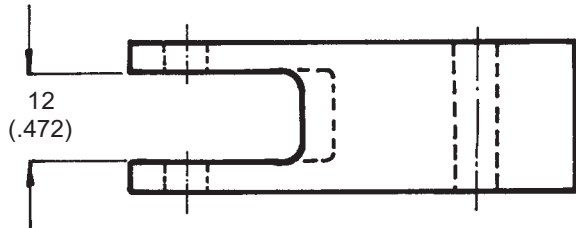
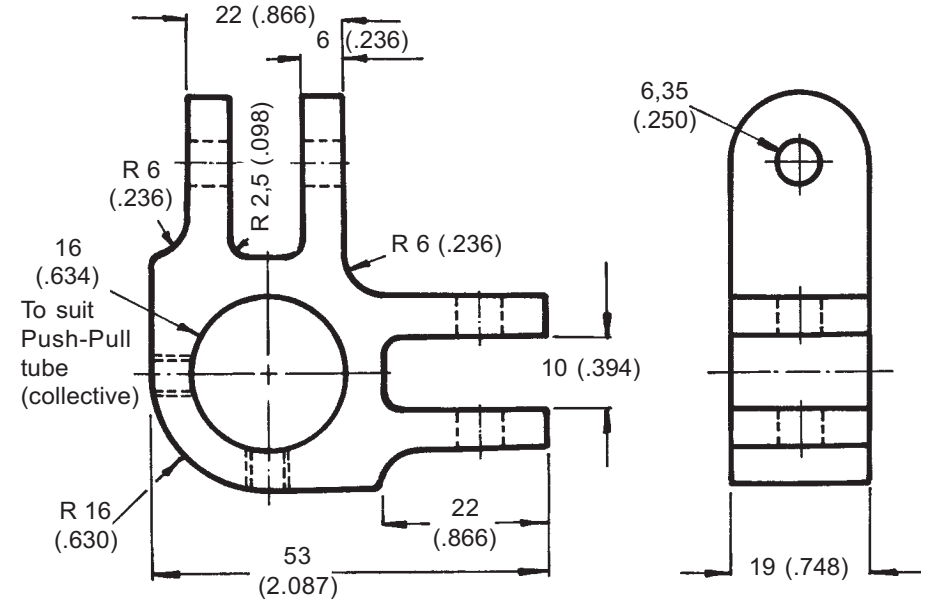
CYCLIC UPPER BELLCRANK

Mat: 2024-T3 Aluminum (2) req'd



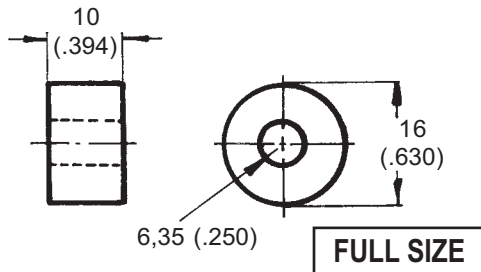
CYCLIC/COLLECTIVE Central Link

Mat: 2024-T3 Aluminum (1) Req'd



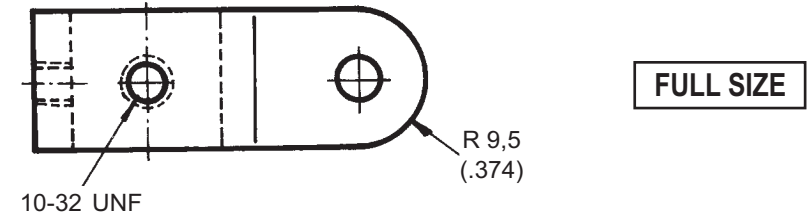
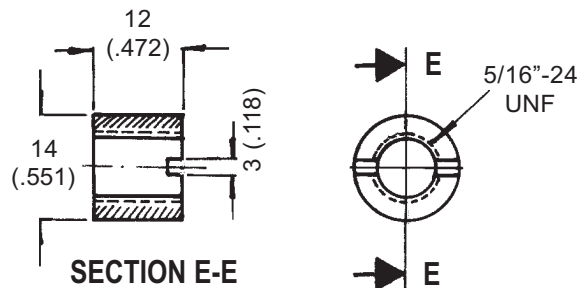
BUSHING -SPACER

Mat: 2024-T3 Aluminum (4) Req'd



NUT B

Mat: 1045 Steel(1) req'd

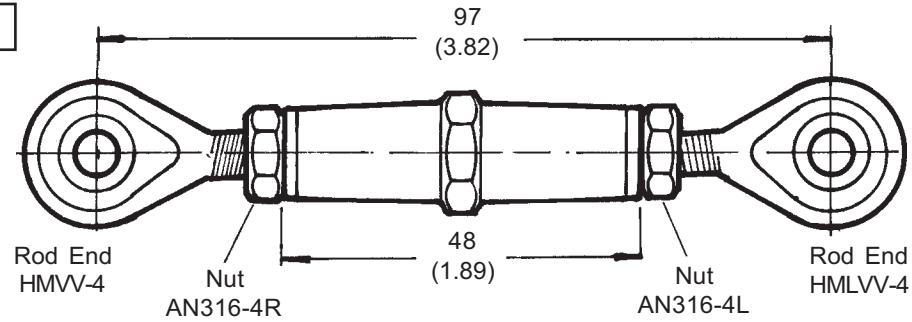


FULL SIZE

BLADE CONTROL LINKAGE

Mat: 2024-T3 Aluminum (2) req'd

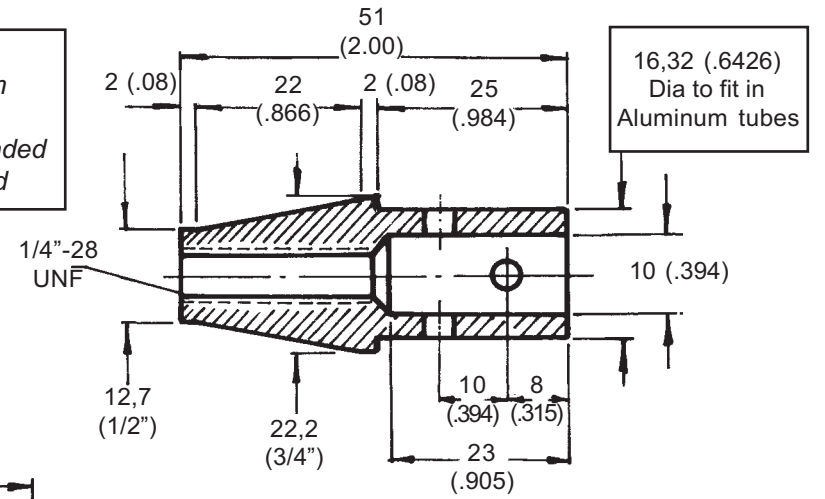
FULL SIZE



PUSH-PULL TUBES THREADED ENDS

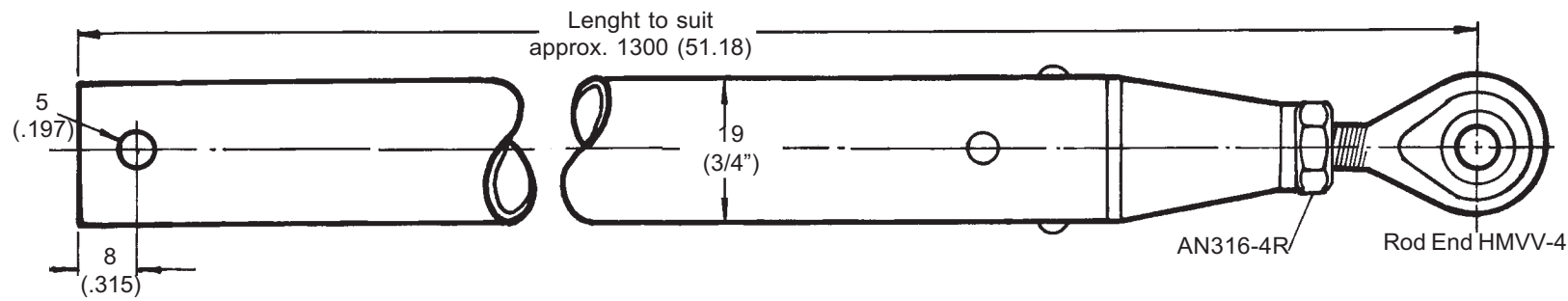
Mat: 2024-T3 or 6061-T6 aluminum (7) req'd
make 4 right threaded and 3 left threaded

FULL SIZE



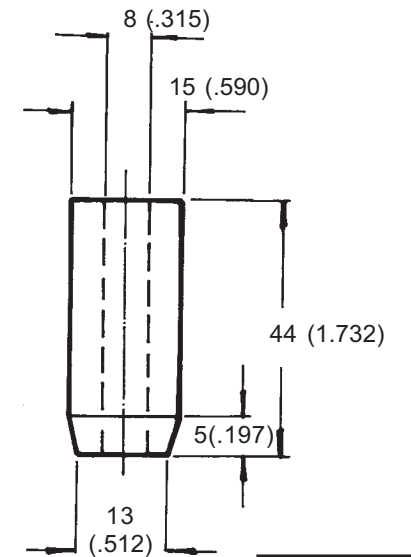
CENTRAL PUSH-PULL TUBE

Mat: 4130 steel tube (1) req'd



DRAG BRACE BUSHING

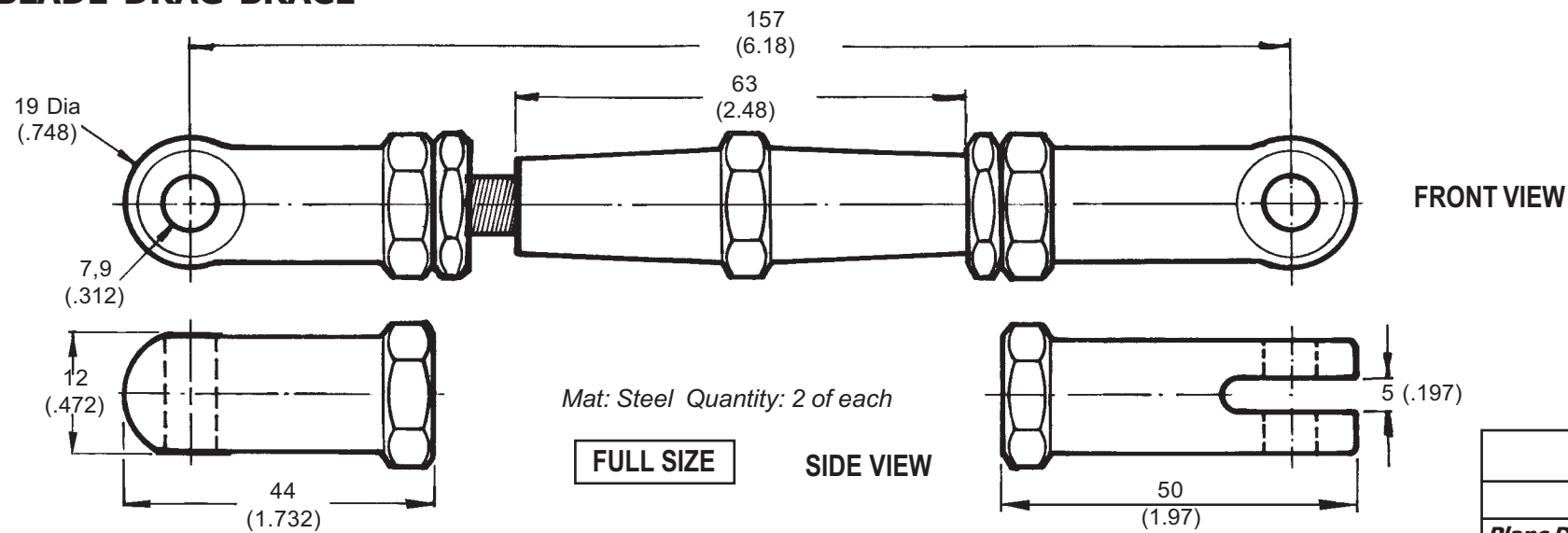
Mat: 2024-T3 aluminum (2) req'd



FULL SIZE

BLADE DRAG BRACE

Mat: Steel Quantity: 2 of each



FULL SIZE

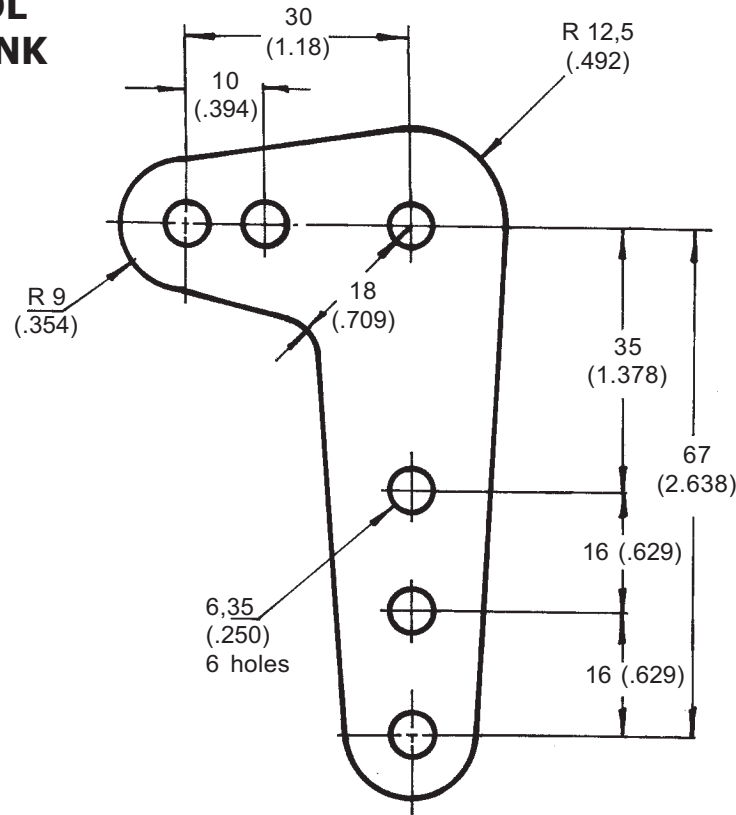
SIDE VIEW

FRONT VIEW

CYCLIC CONTROL LOWER BELLCRANK

Mat: 2024-T3 aluminum
5 (.197) Thk.
(1) req'd

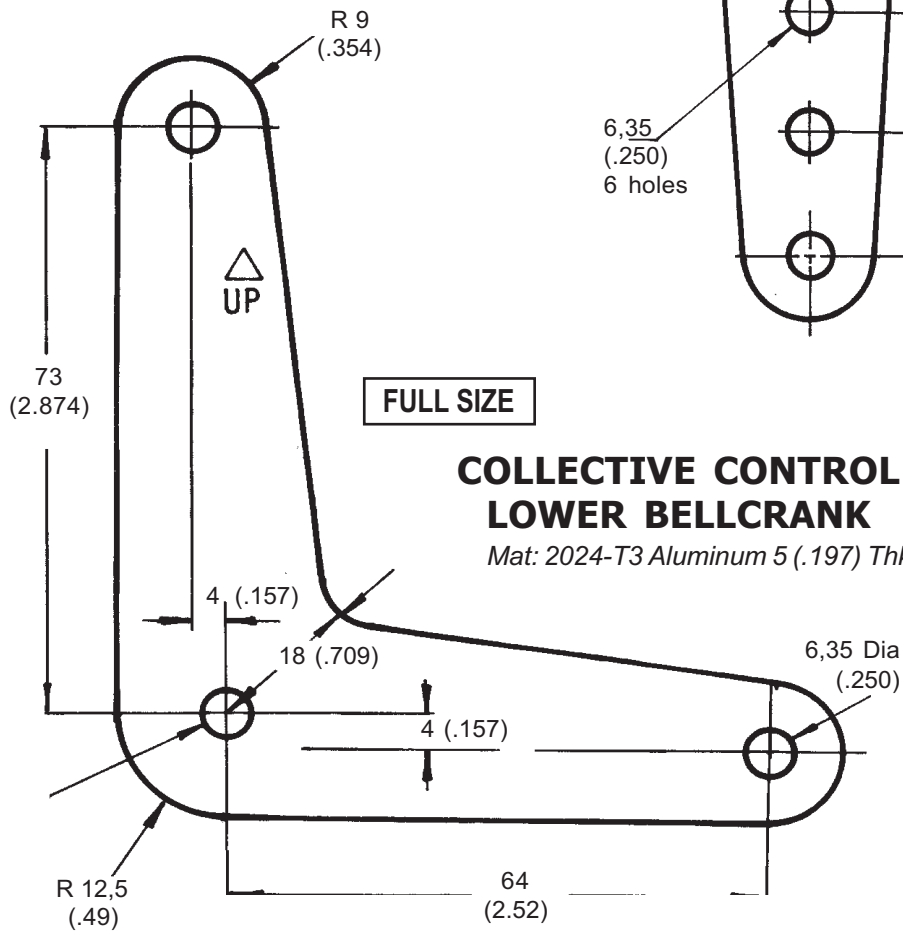
FULL SIZE



FULL SIZE

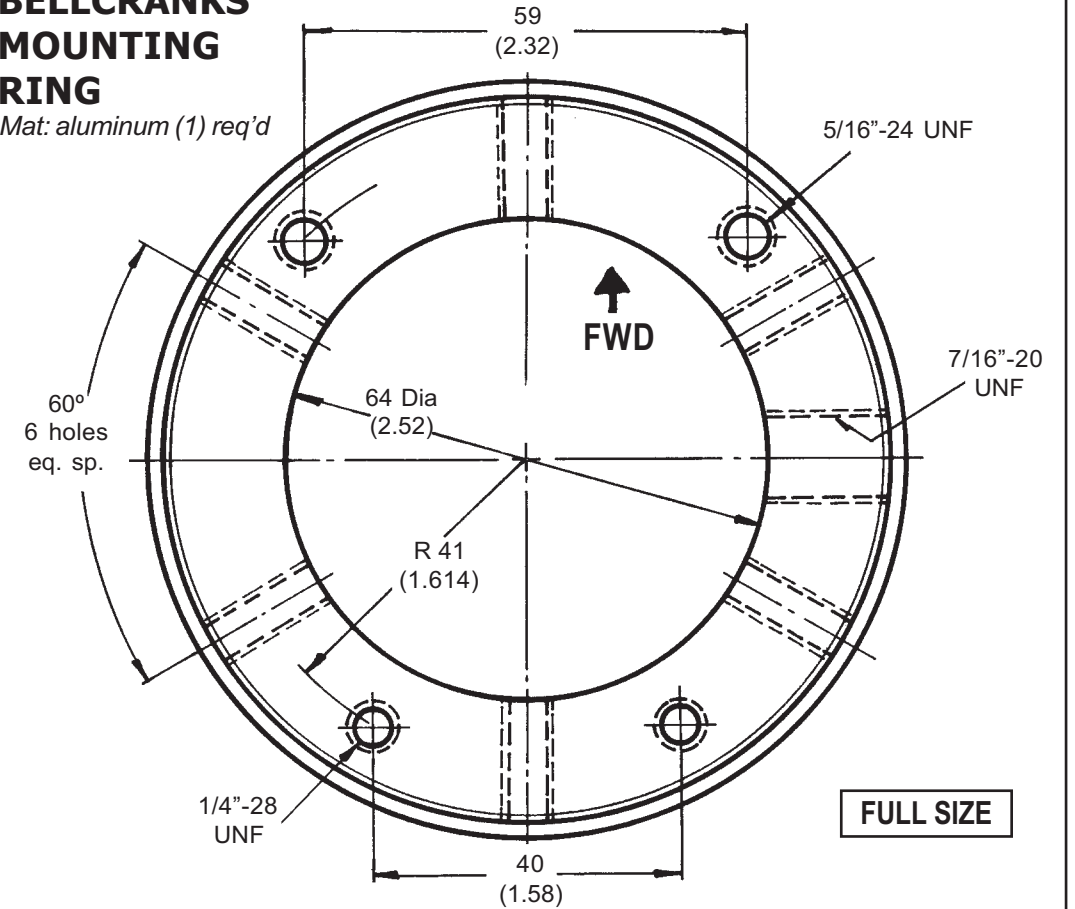
COLLECTIVE CONTROL LOWER BELLCRANK

Mat: 2024-T3 Aluminum 5 (.197) Thk (1) req'd



BELLCRANKS MOUNTING RING

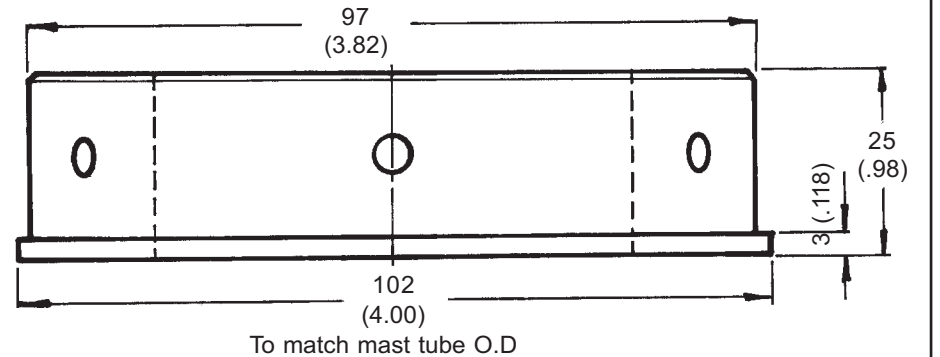
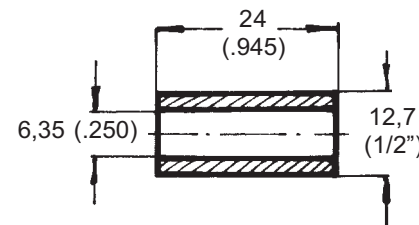
Mat: aluminum (1) req'd



FULL SIZE

SPACER BUSHING

Mat: steel or brass (1) req'd

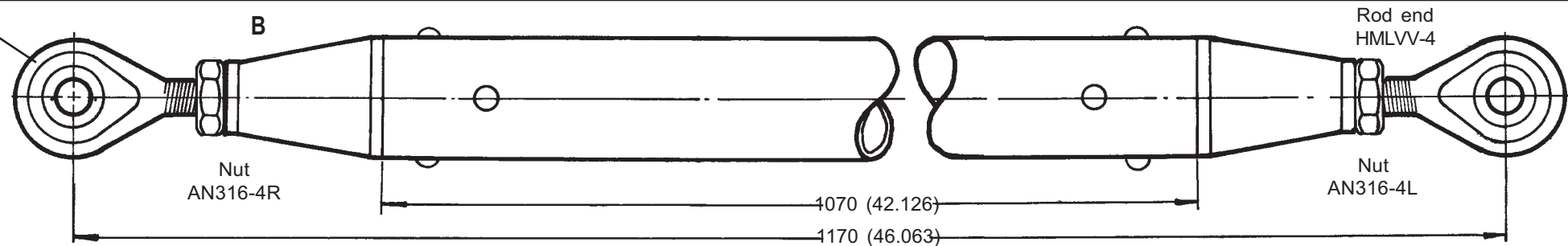
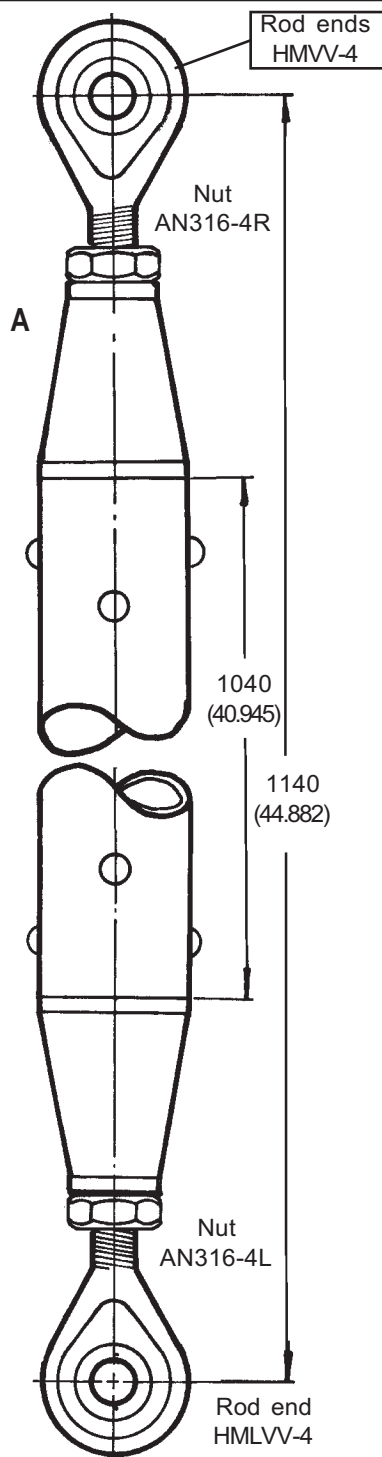


FULL SIZE

FURIA HELICOPTER -

CONTROL SYSTEM

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**CYCLIC CONTROL
PUSH-PULL TUBES**

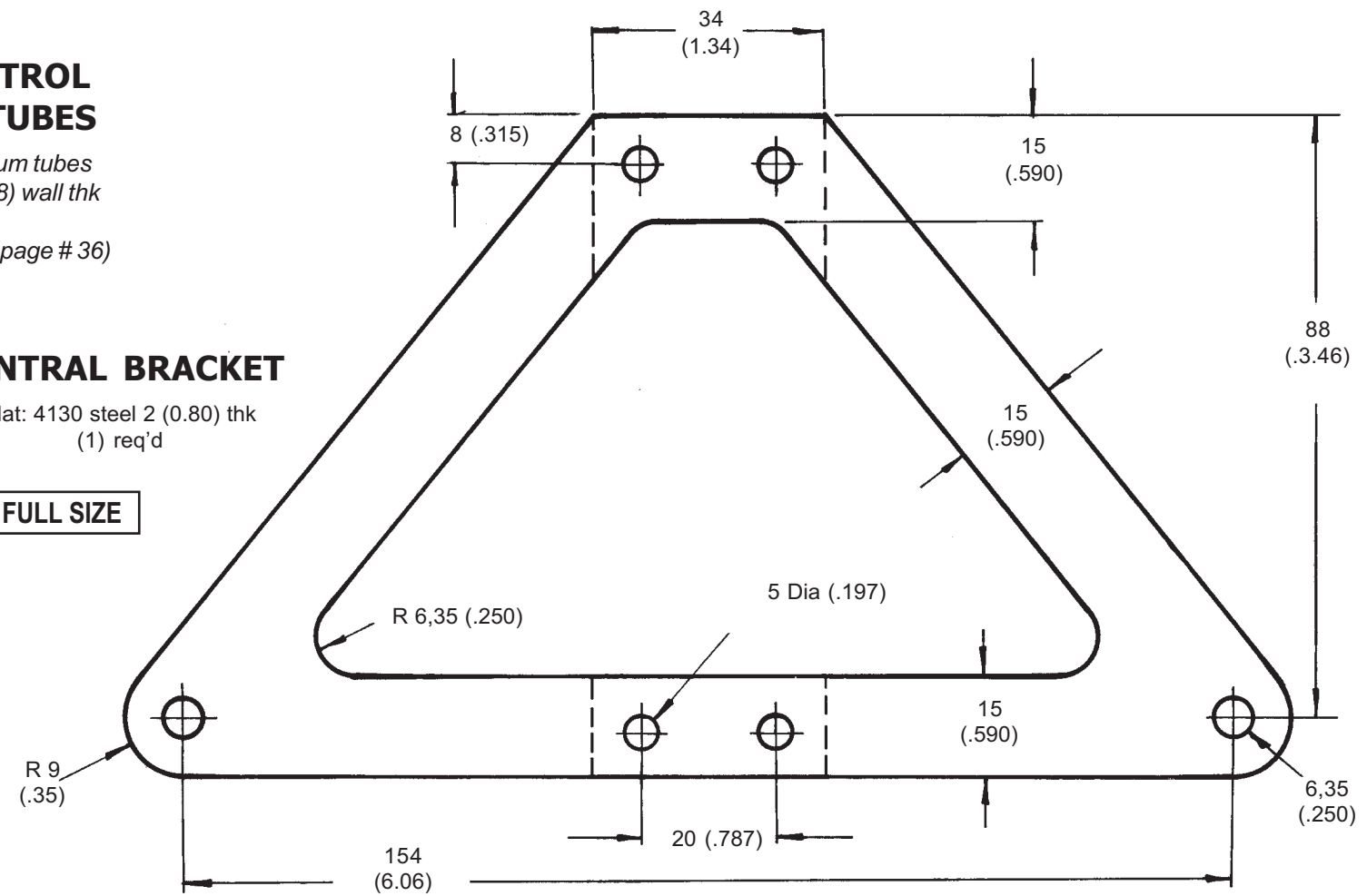
Mat: 6061-T6 aluminum tubes
19 Dia (3/4") 1,5 (.058) wall thk
(1) of each req'd
Threaded ends : (see page # 36)

FULL SIZE

CENTRAL BRACKET

Mat: 4130 steel 2 (0.80) thk
(1) req'd

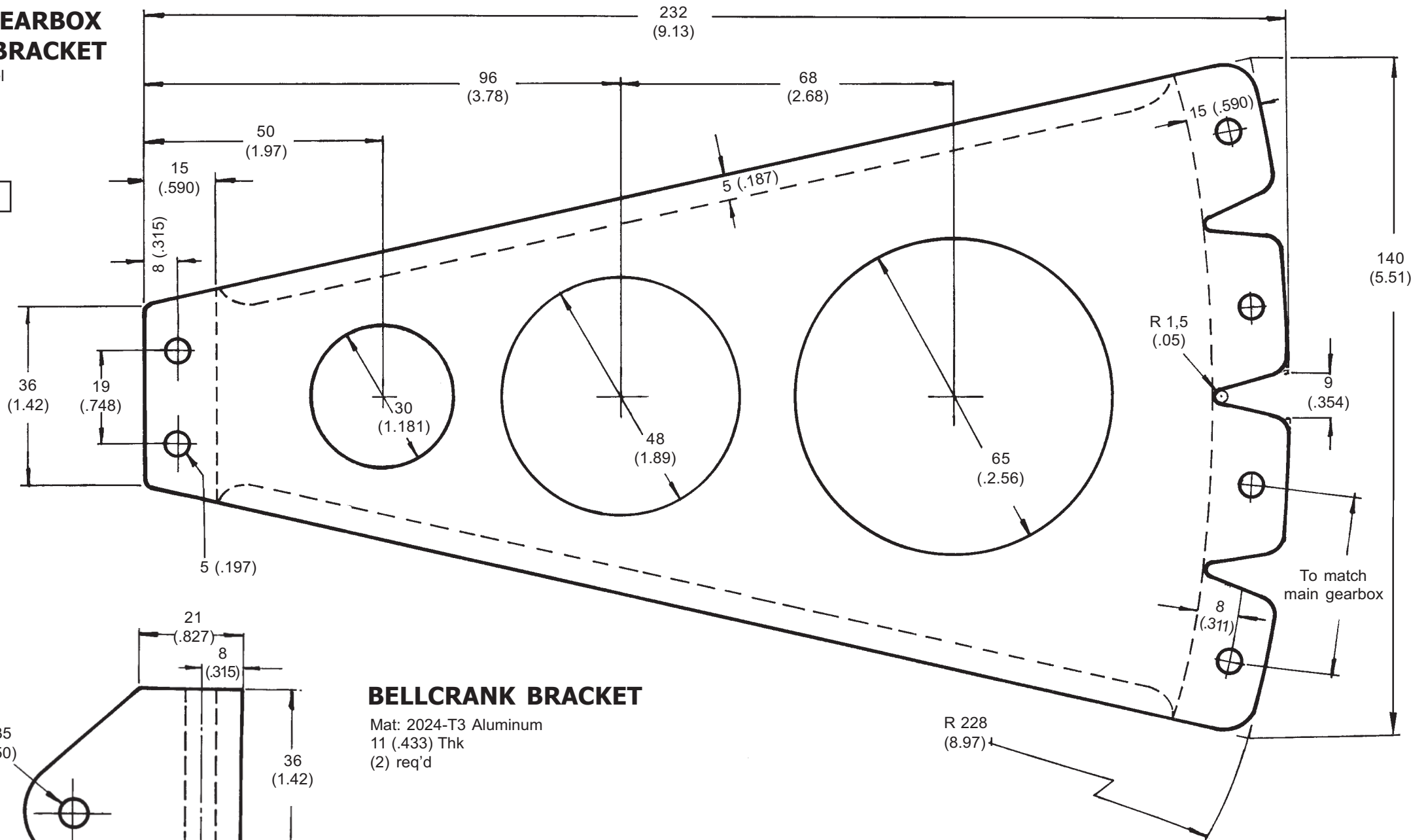
FULL SIZE



MAIN GEARBOX FRONT BRACKET

Mat: 4130 Steel
2 (.080) thk.
(2) req'd

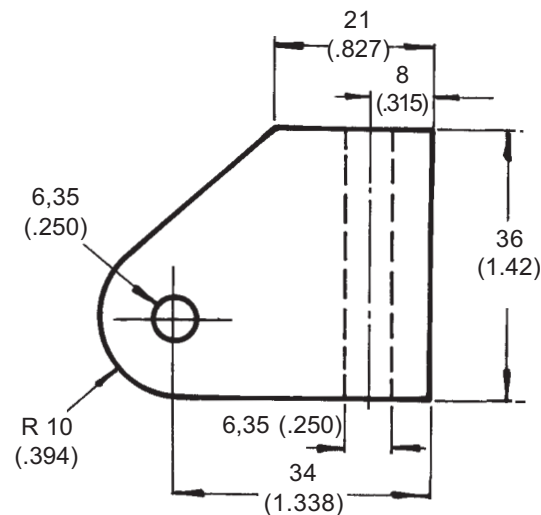
FULL SIZE



BELLCRANK BRACKET

Mat: 2024-T3 Aluminum
11 (.433) Thk
(2) req'd

FULL SIZE



R 228
(8.97)

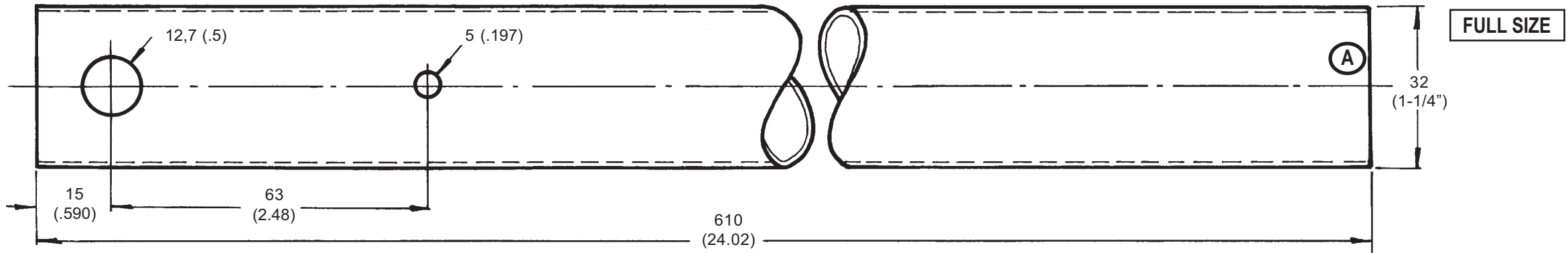
To match
main gearbox

FURIA HELICOPTER -

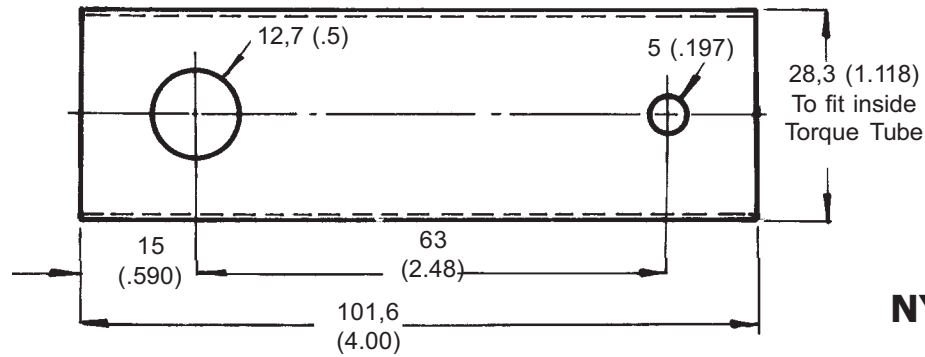
MAIN GEARBOX BRACKET

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40



TORQUE TUBE Mat: 6061-T6 Aluminum 1,6 (.065) wall thk. (1) req'd.

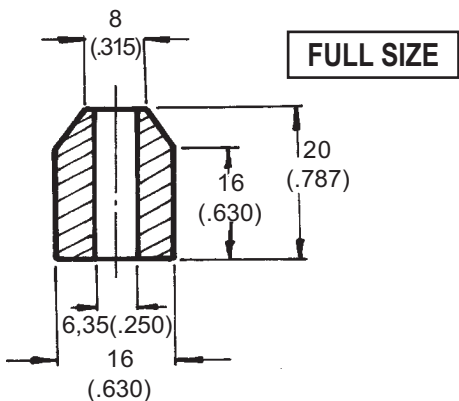


INNER REINFORCEMENT TUBE

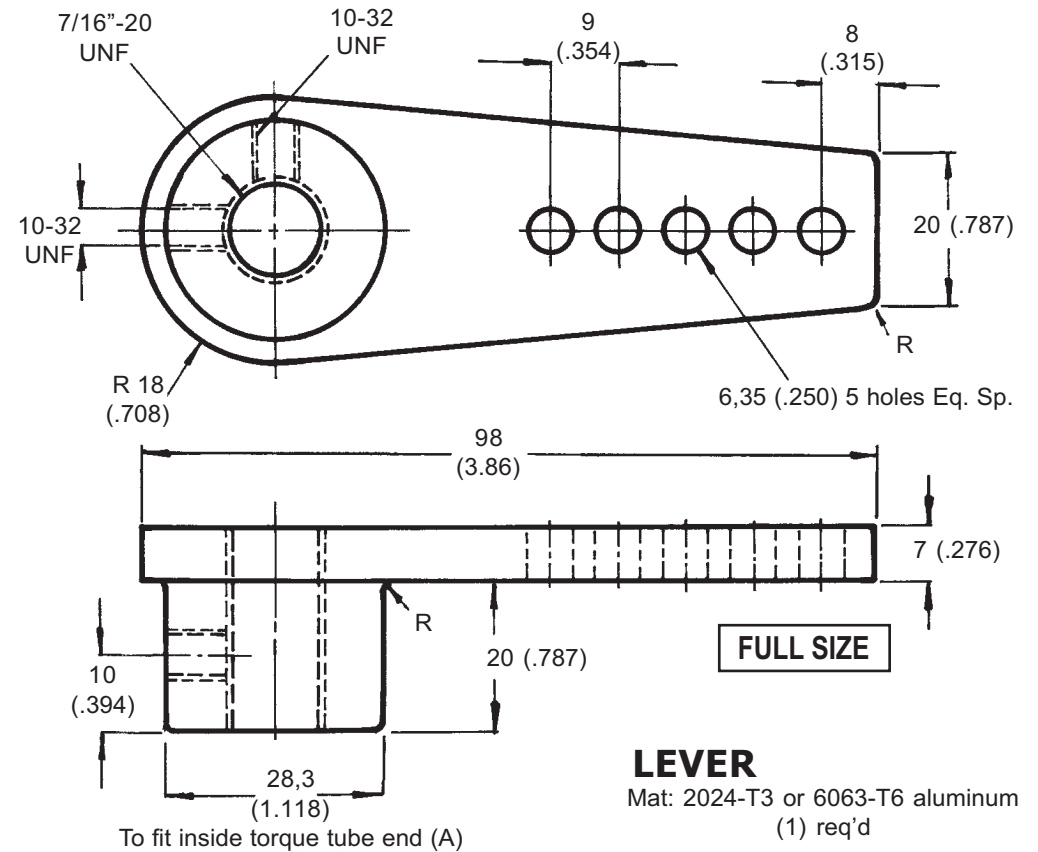
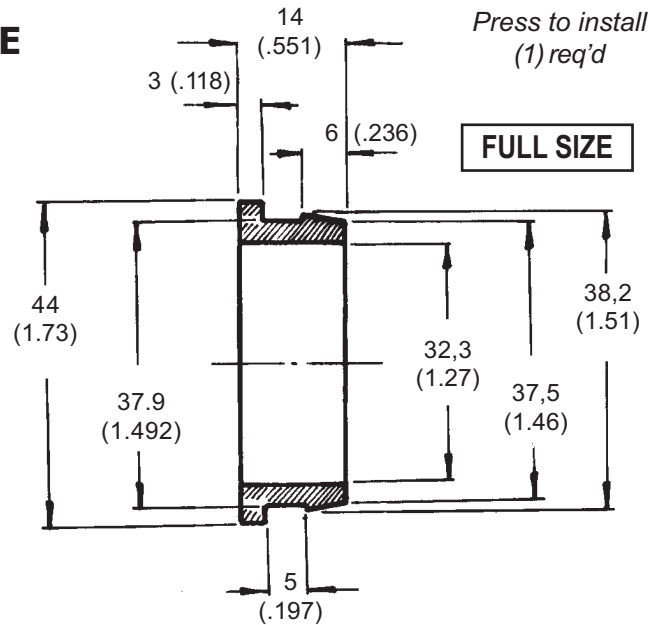
Mat: 4130 Steel 2,10 (.083) wall thk (1) req'd

SPACER

Mat: Aluminum (1) req'd

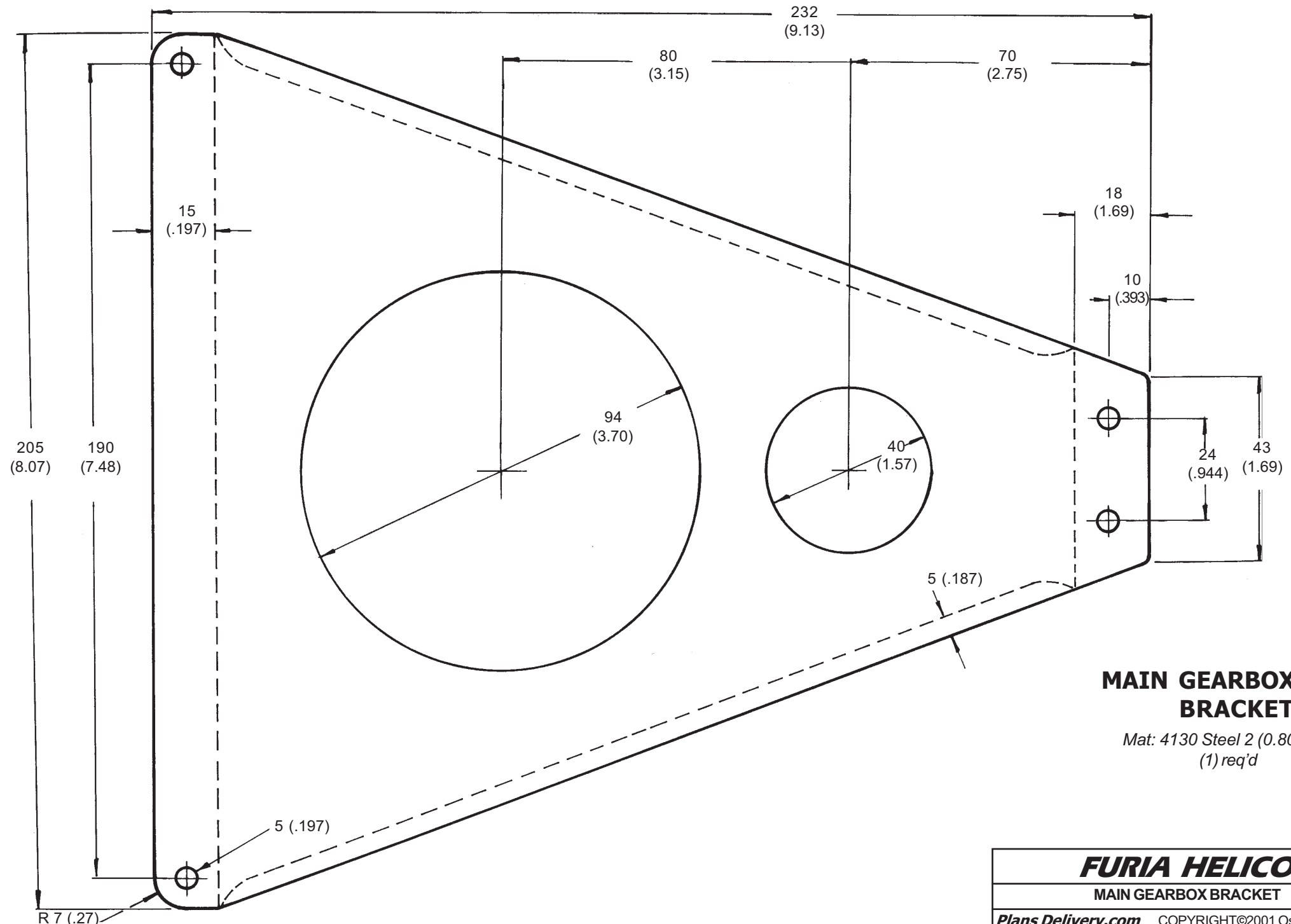


NYLON BUSHING



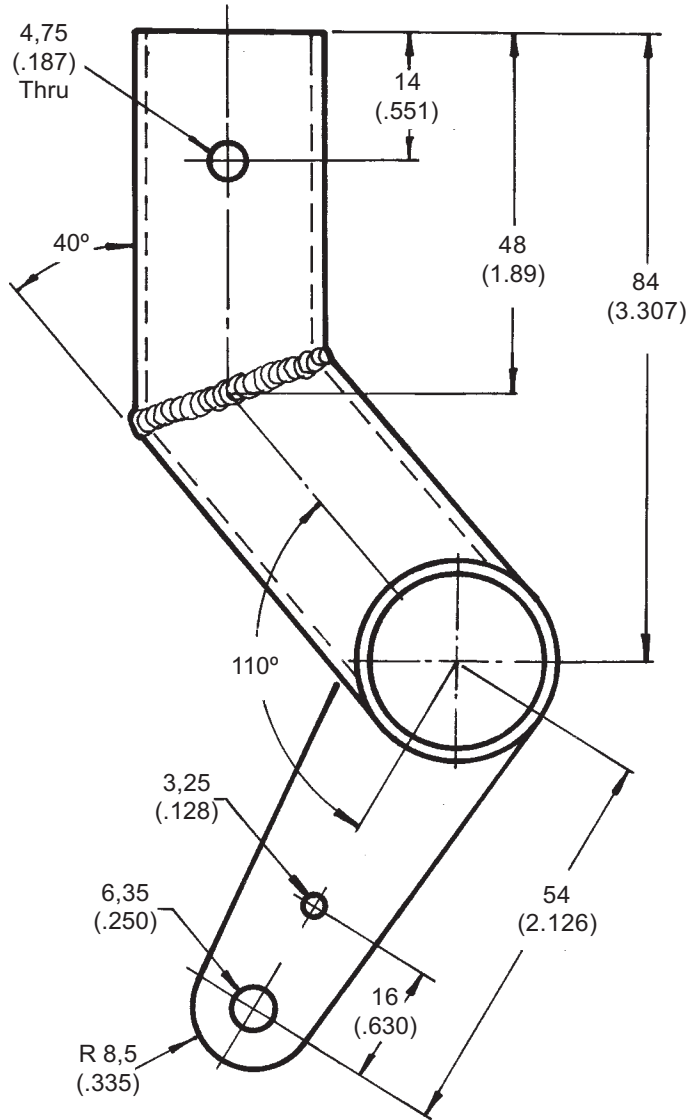
LEVER

Mat: 2024-T3 or 6063-T6 aluminum (1) req'd



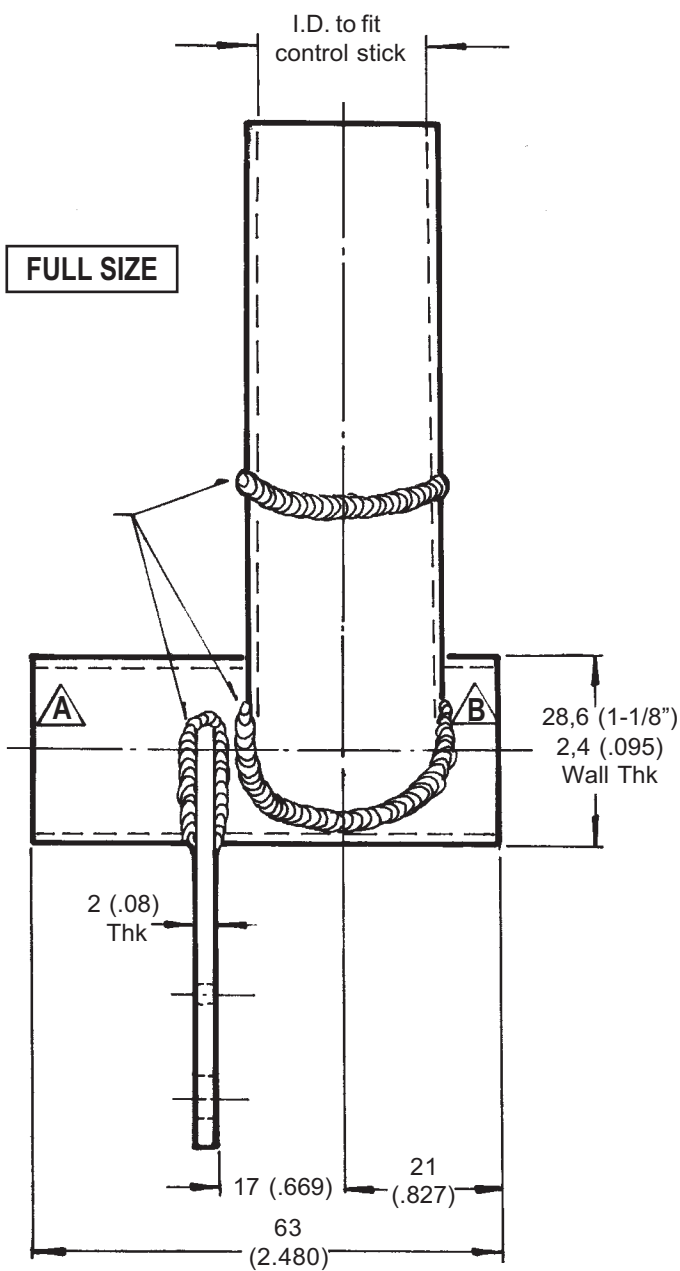
MAIN GEARBOX REAR BRACKET

Mat: 4130 Steel 2 (0.80) Thk
(1) req'd



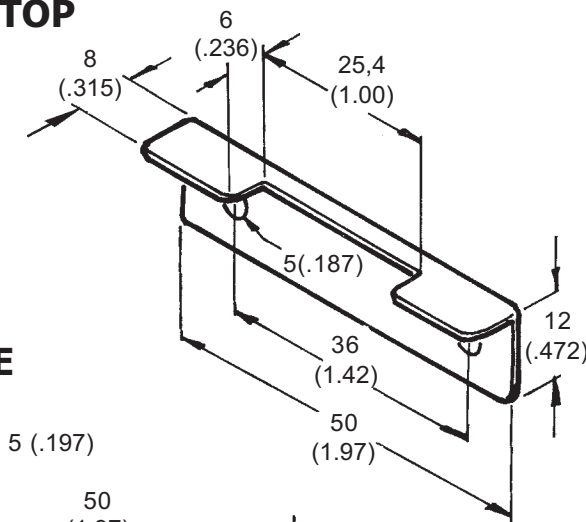
CYCLIC CONTROL STICK HOLDER

Mat: 4130 Steel (1) req'd



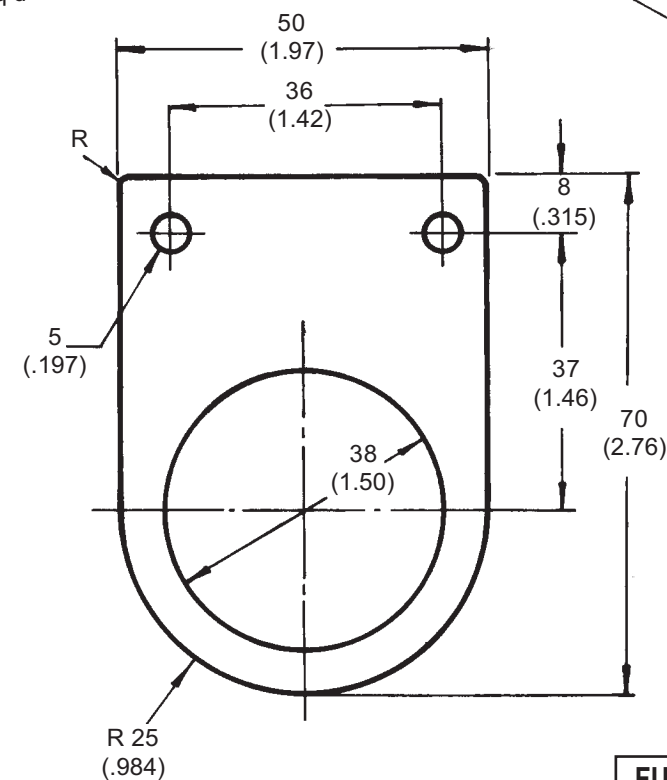
LATERAL STOP

Mat: 4130 Steel
2 (.08) Thk



TORQUE TUBE BRACKET

Mat: 2024-T3 aluminum 5 (.197)
(1) req'd



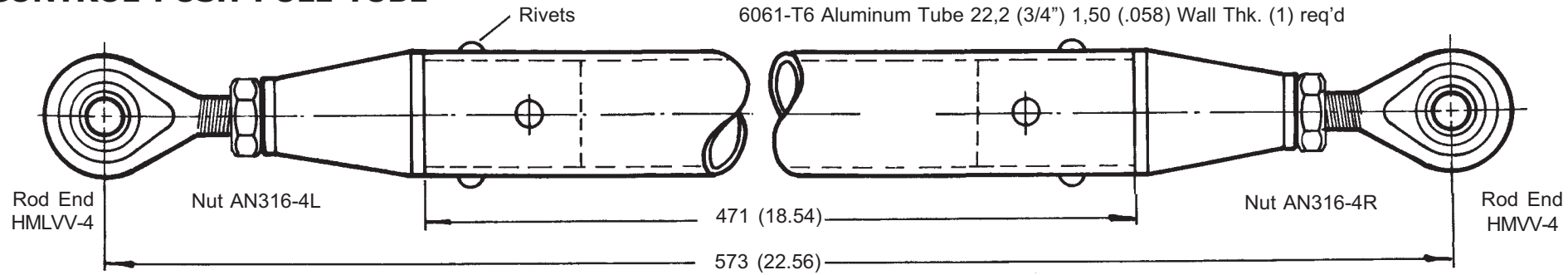
FULL SIZE

FURIA HELICOPTER -

CONTROL SYSTEM

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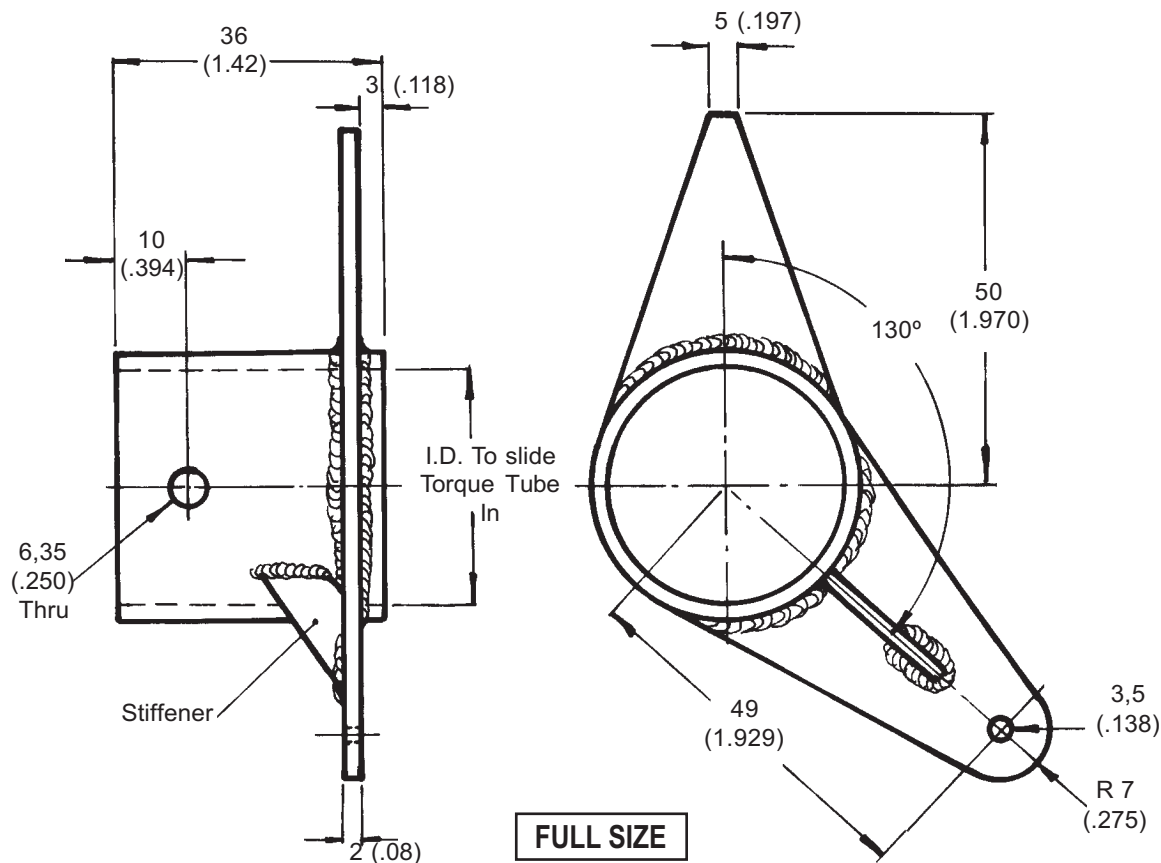
CYCLIC CONTROL PUSH-PULL TUBE



FULL SIZE

TRAVEL LIMITING STOP

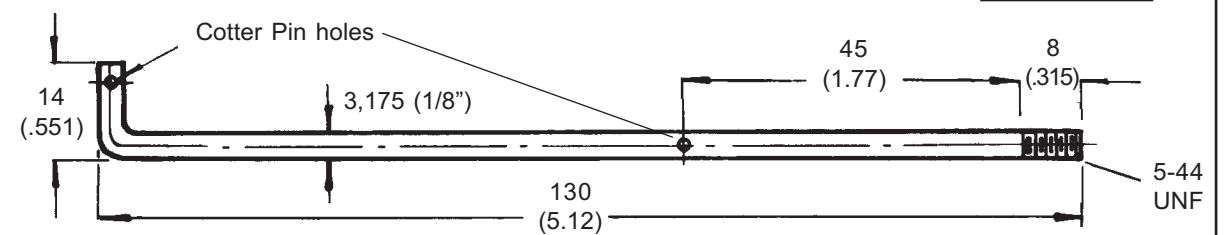
Mat: 4130 Steel (.095) Wall Thk (1) Req'd



FULL SIZE

LIMITING BAR

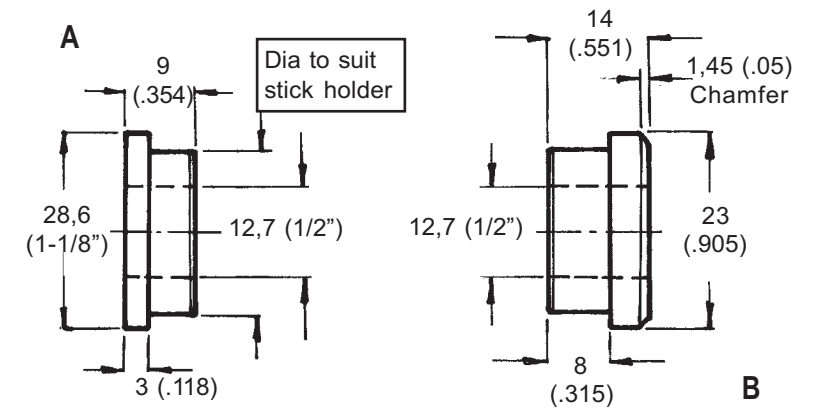
Mat: Steel (1) req'd



FULL SIZE

STICK HOLDER CAPS

Mat: Aluminum (1) of each req'd

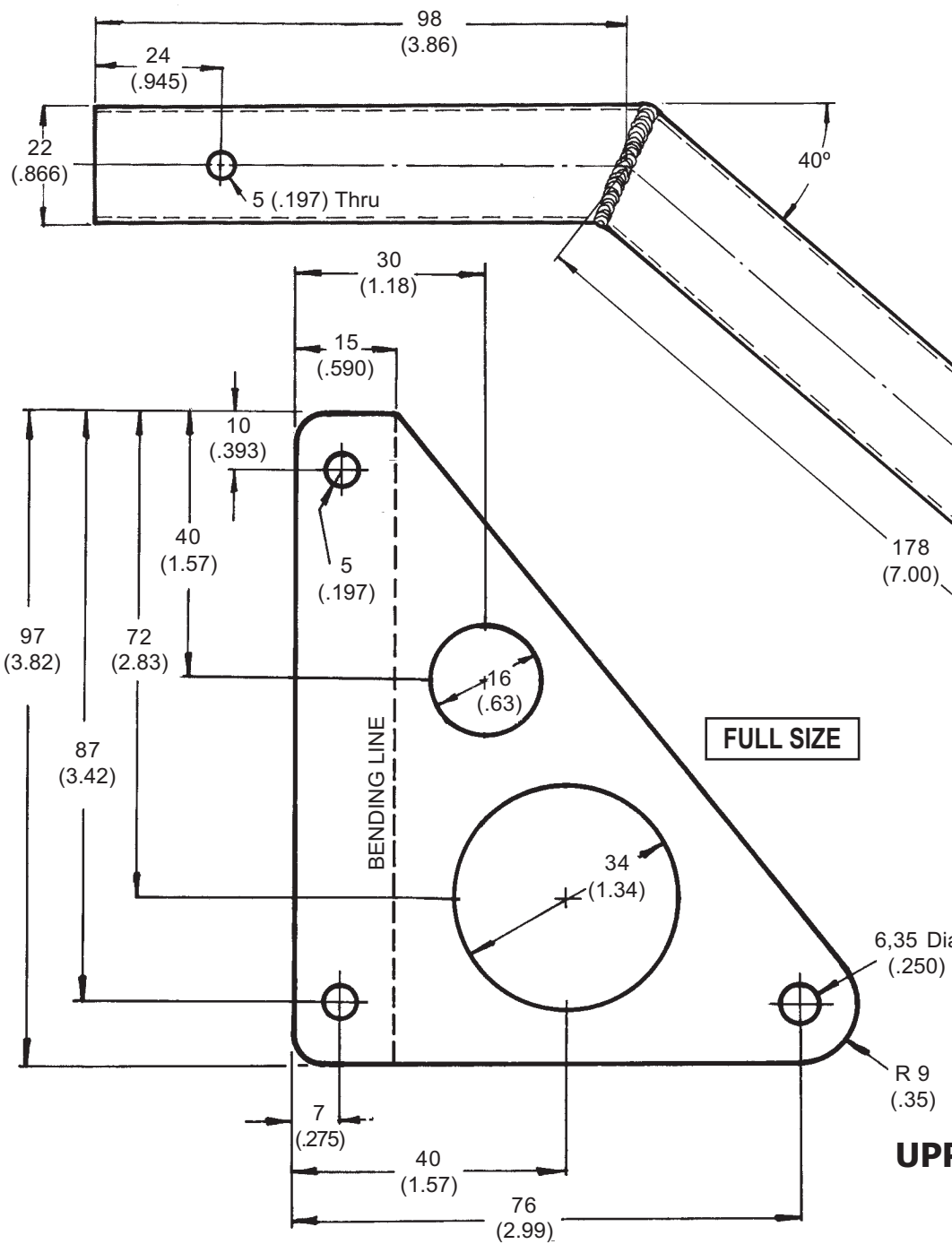


FULL SIZE

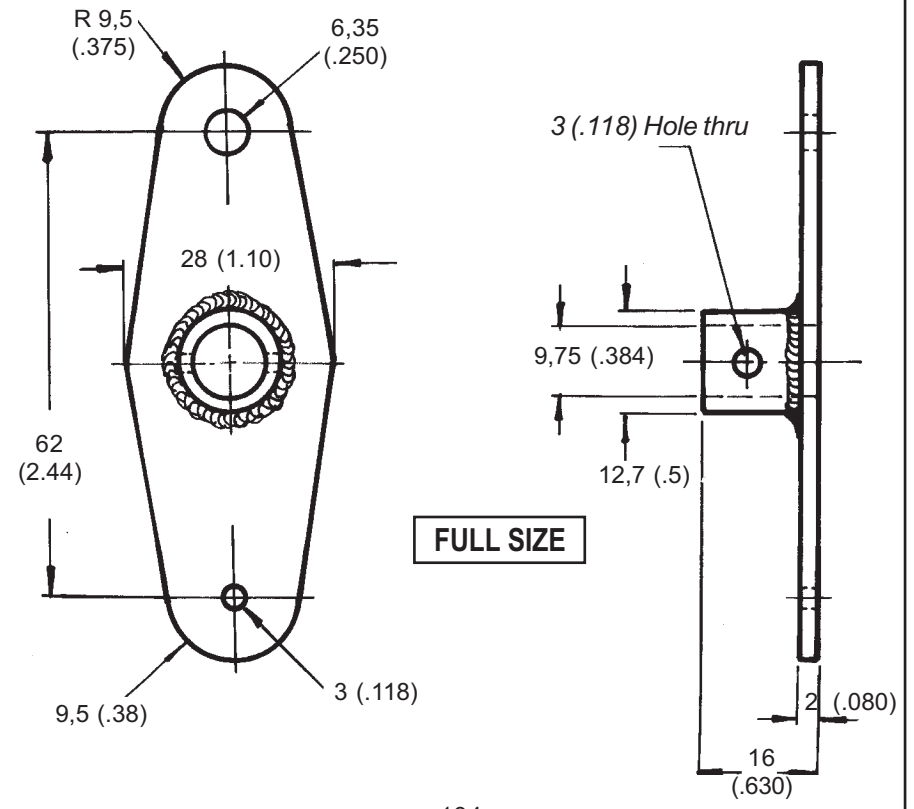
FURIA HELICOPTER -

CONTROL SYSTEM

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THROTTLE LEVER
 Mat: 4130 Steel (1) Req'd

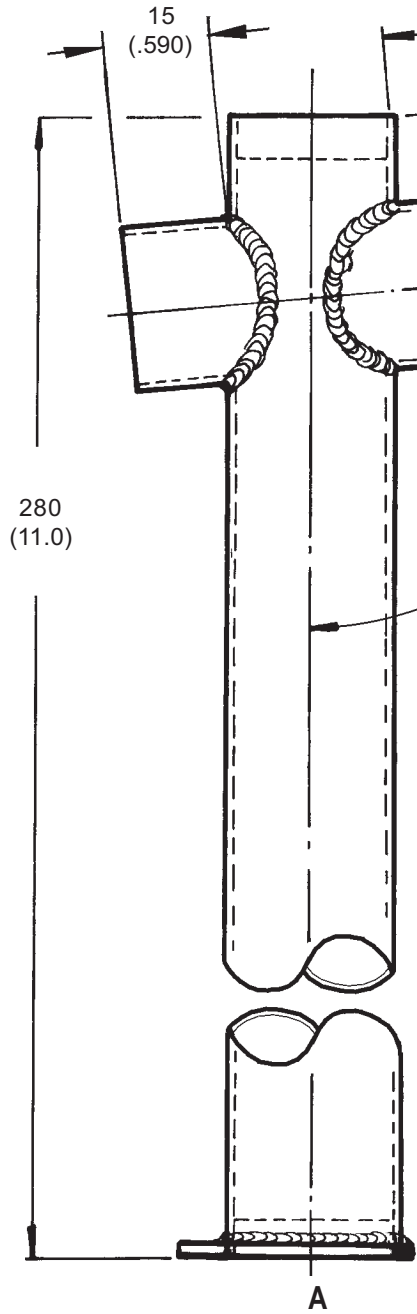


UPPER CYCLIC BELLCRANKS MOUNTING BRACKET
 Mat: 4130 Steel - 2 (.080) Thk (2) req'd (left and right)

CYCLIC CONTROL STICK
 Mat: 4130 Steel (1) Req'd
 22,2 (7/8") O.D. 1,65 (.065) Wall Thk (1) Req'd

COLLECTIVE CONTROL STICK

Mat: 4130 Steel tubing (1) req'd



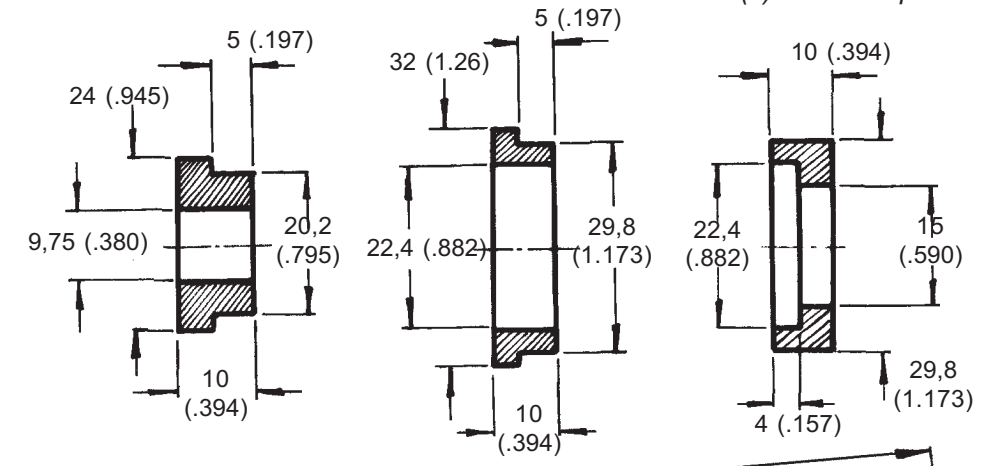
500
(19.68)

FULL SIZE

22.2 (7/8") O.D.
(.035) Wall Thk

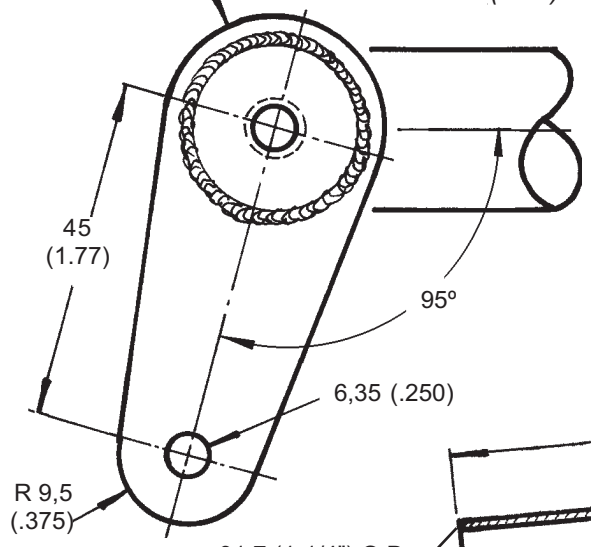
NYLON BUSHINGS

(1) of each req'd

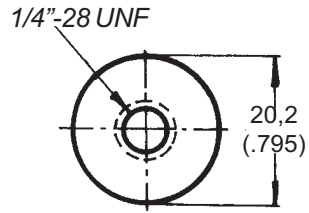


COLLECTIVE LEVER

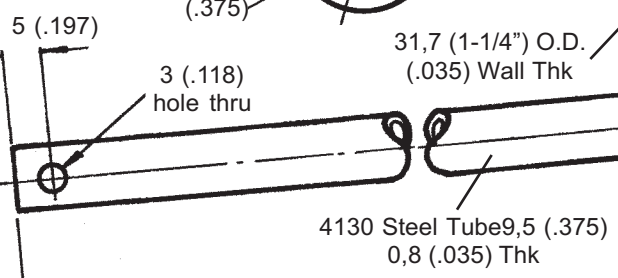
Mat: 4130 2(.080) Thk



DETAIL A



THREADED END
10 (.394) Thk



FULL SIZE

568
(22.36)

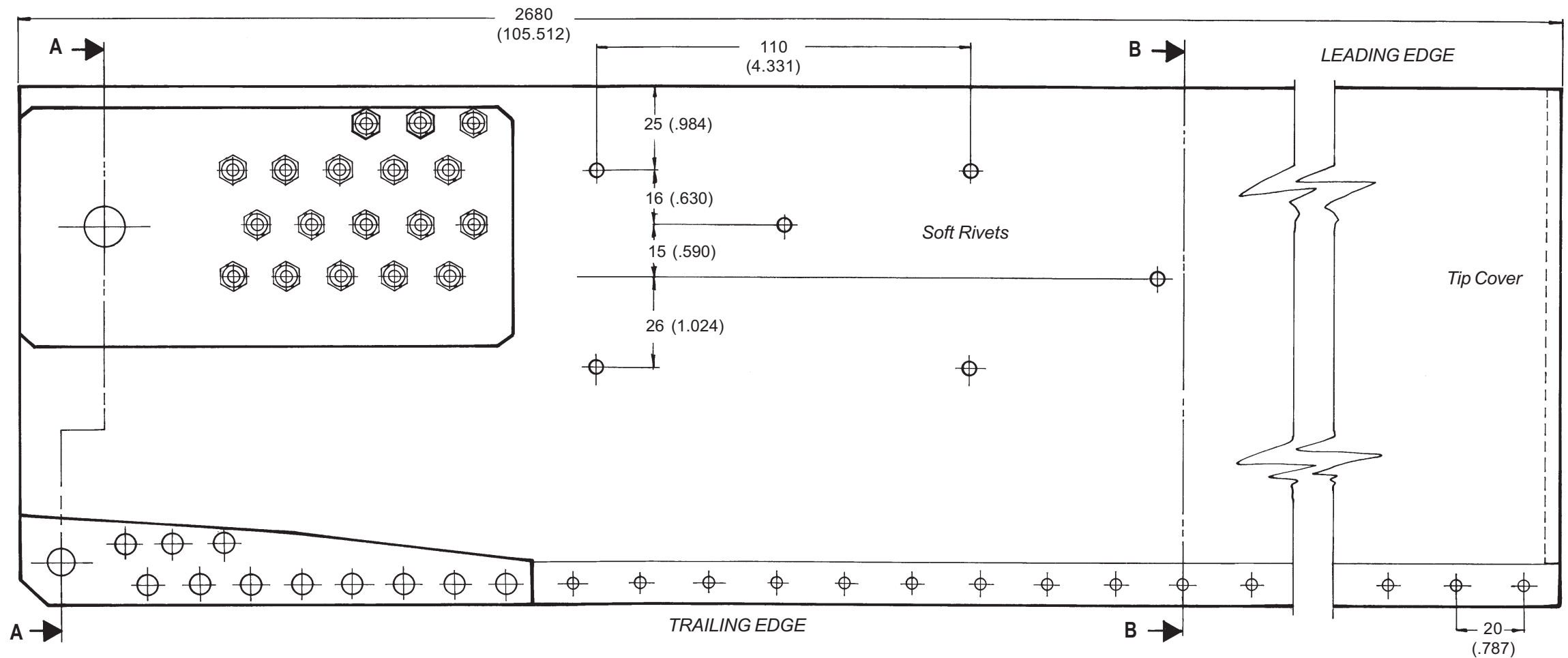
HANDLE THROTTLE CONTROL

FURIA HELICOPTER -

CONTROL SYSTEM

Plans Delivery.com COPYRIGHT©2001 Osvaldo Durana

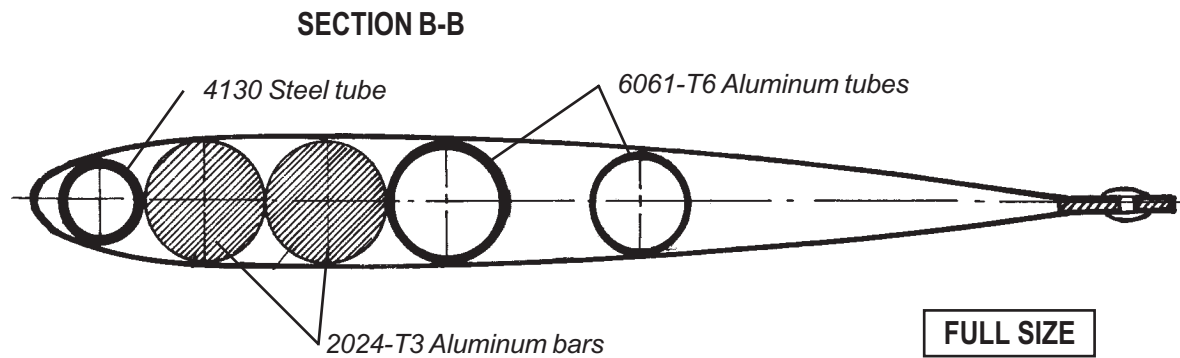
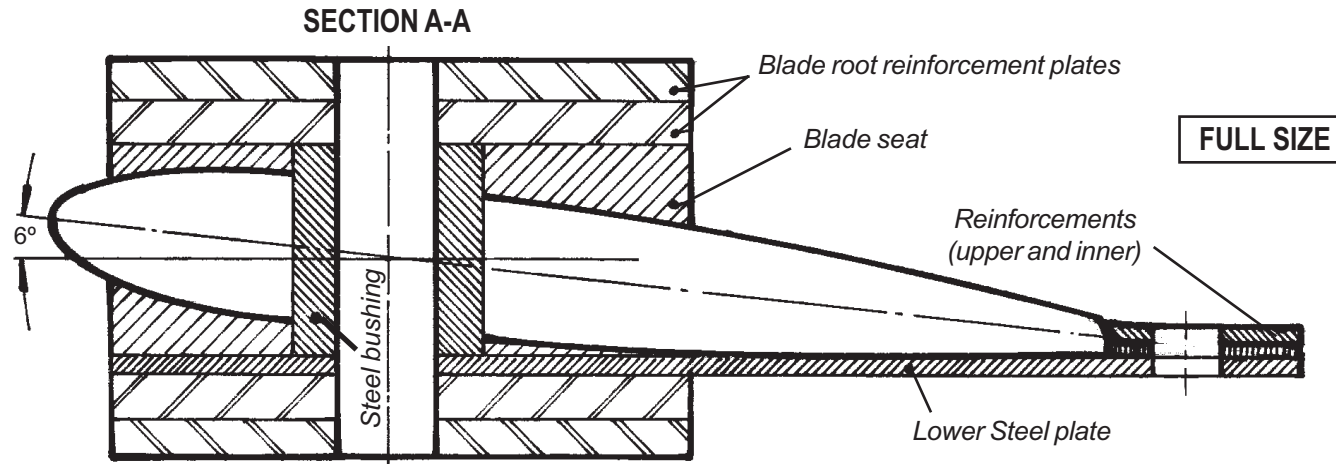
MAIN ROTOR BLADE TOP VIEW



SEE SECTIONS A-A and B-B on page # 47

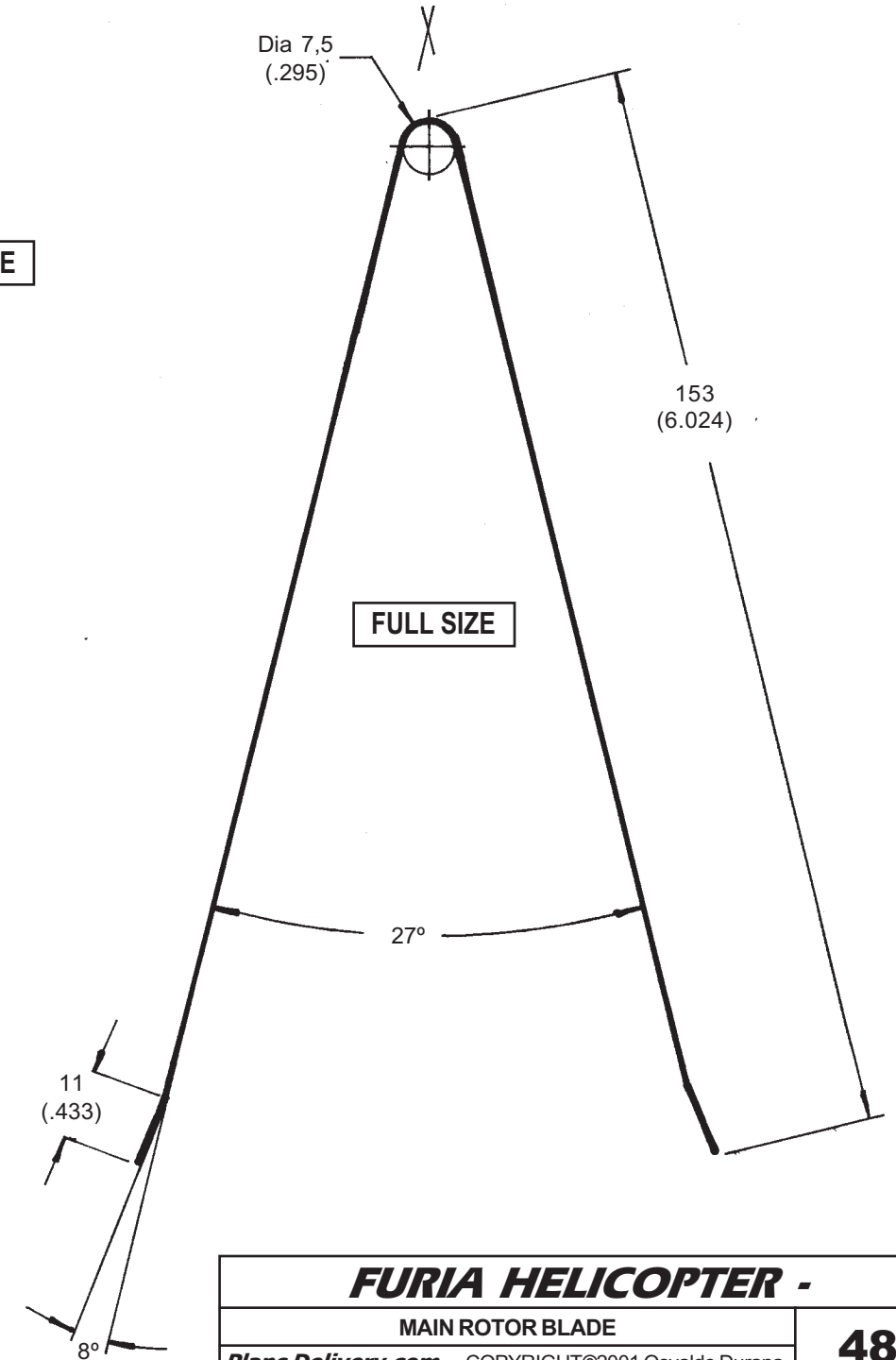
Note:
All tubes must have a inner aluminum bar at the root - Lenght: 150 (5.905)

MAIN ROTOR BLADE CROSS SECTIONS



MAIN BLADE SKIN SECTION

Mat: 2024-T3 Aluminum 0,5 (.020) Thk
 Length: 2680 (105.51) (2) Req'd
 Bend the aluminum sheet to conform this shape

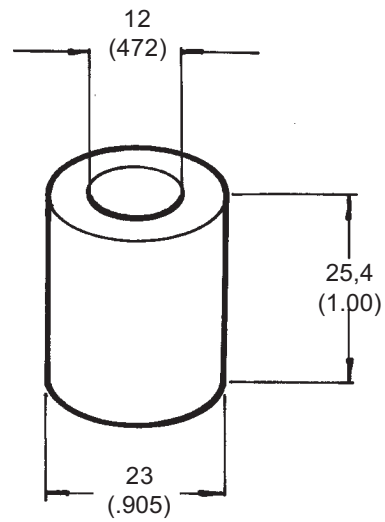


FURIA HELICOPTER -

MAIN ROTOR BLADE

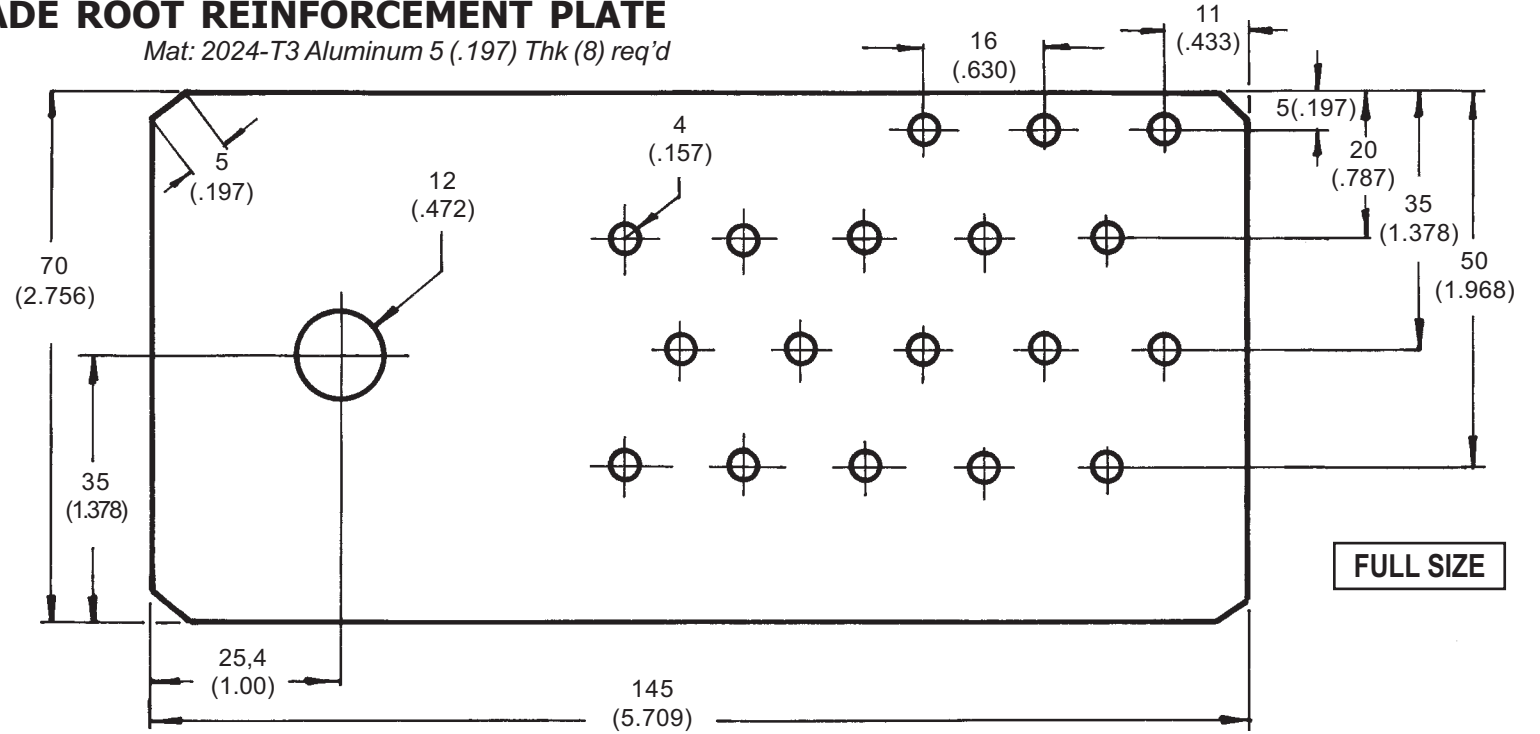
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STEEL BUSHING



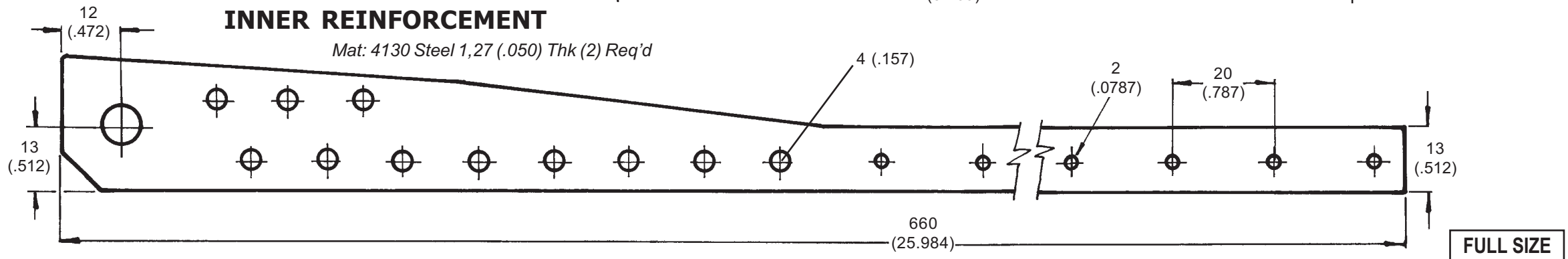
BLADE ROOT REINFORCEMENT PLATE

Mat: 2024-T3 Aluminum 5 (.197) Thk (8) req'd



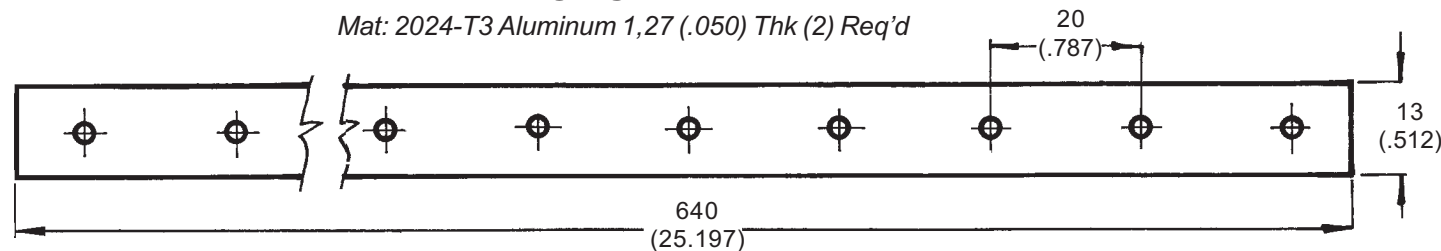
INNER REINFORCEMENT

Mat: 4130 Steel 1,27 (.050) Thk (2) Req'd



INNER REINFORCEMENT

Mat: 2024-T3 Aluminum 1,27 (.050) Thk (2) Req'd



FULL SIZE

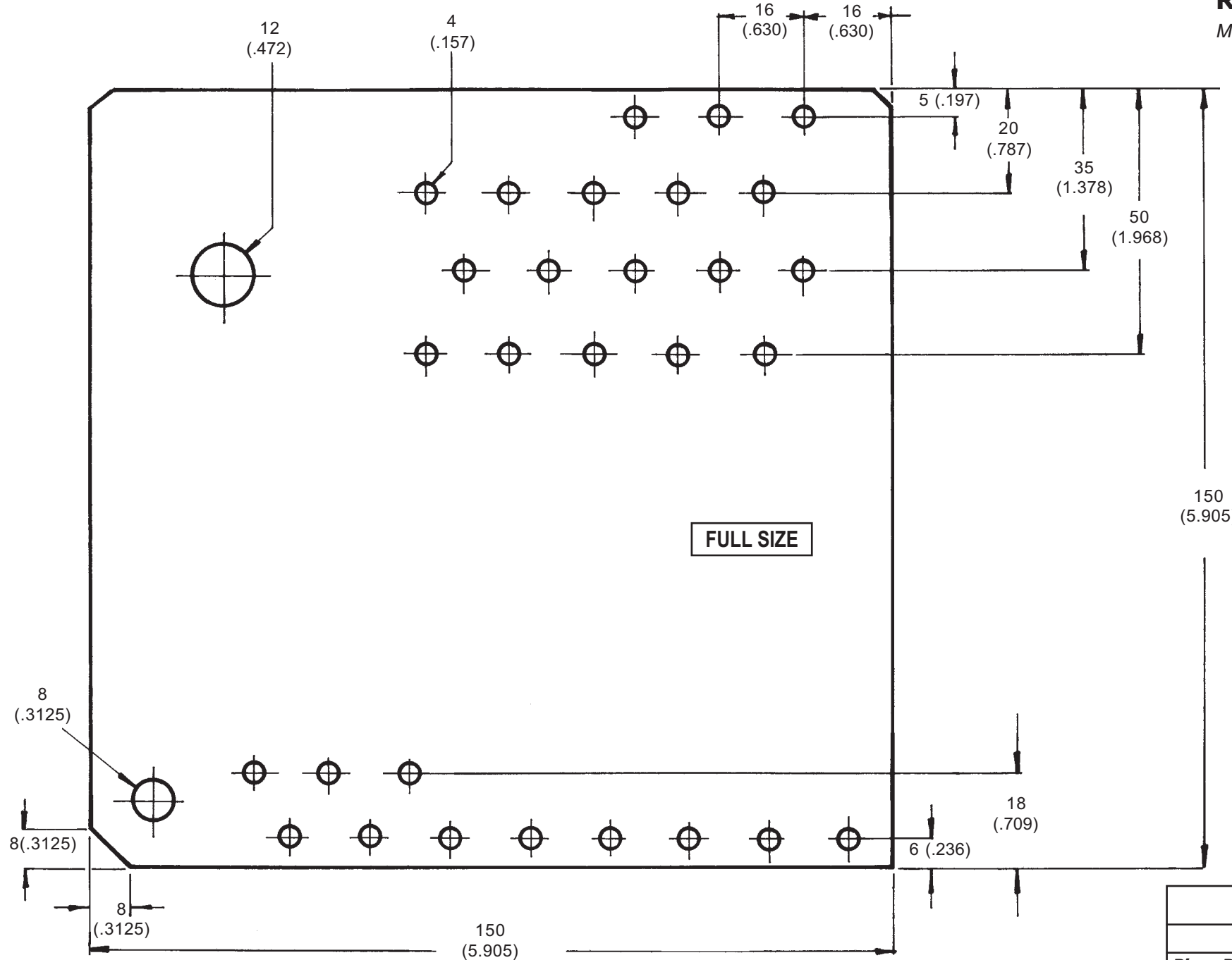
FURIA HELICOPTER -

MAIN ROTOR BLADE

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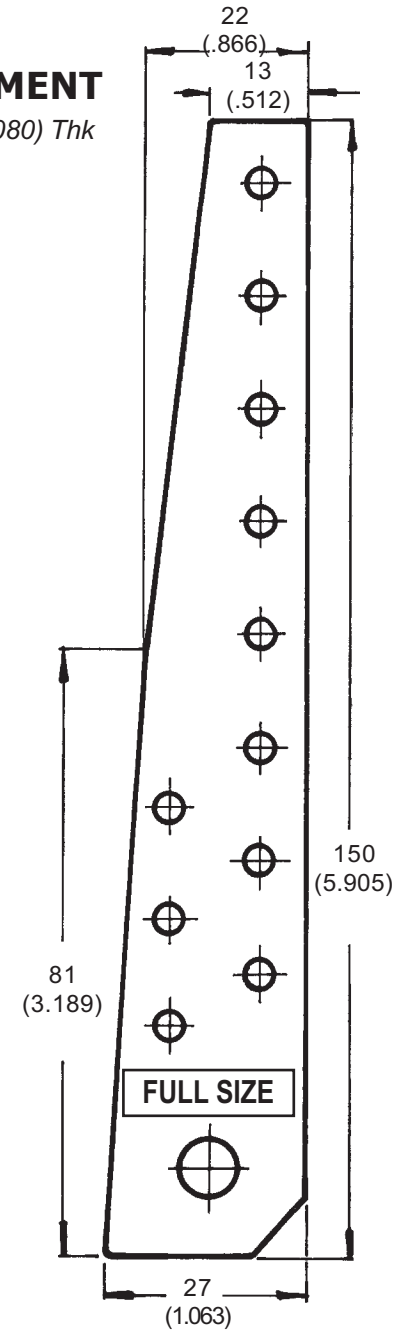
LOWER BLADE PLATE

Mat: 4130 Steel 2 (.080) Thk (2) Req'd



UPPER REINFORCEMENT

Mat: 4130 Steel 2 (.080) Thk (2) Req'd



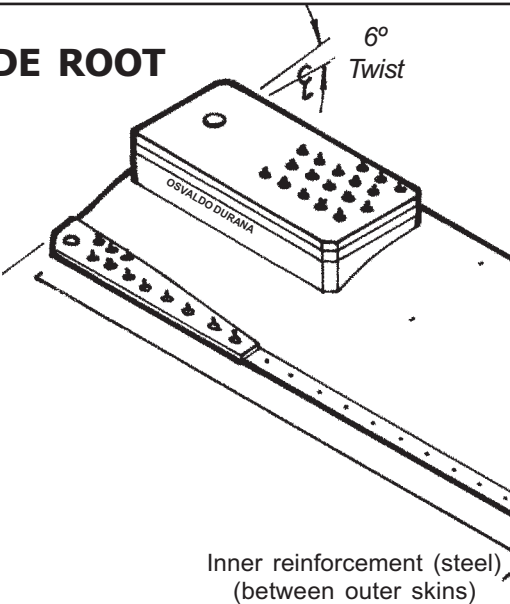
FURIA HELICOPTER -

MAIN ROTOR BLADE

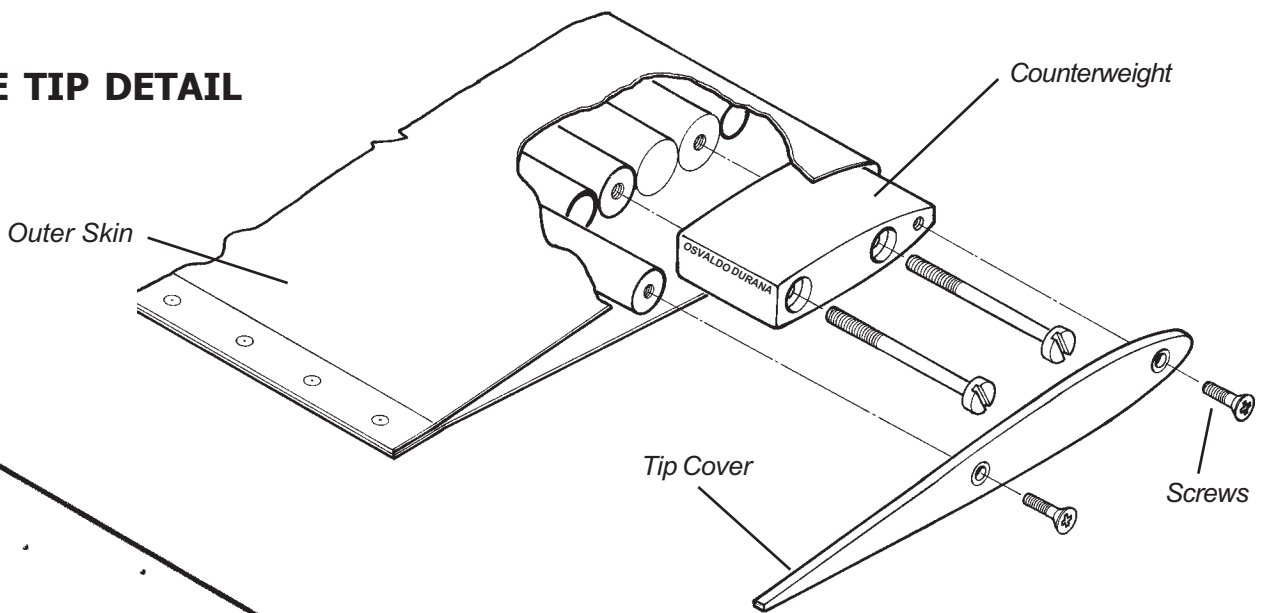
Plans Delivery.com COPYRIGHT©2001 Osvaldo Durana

50

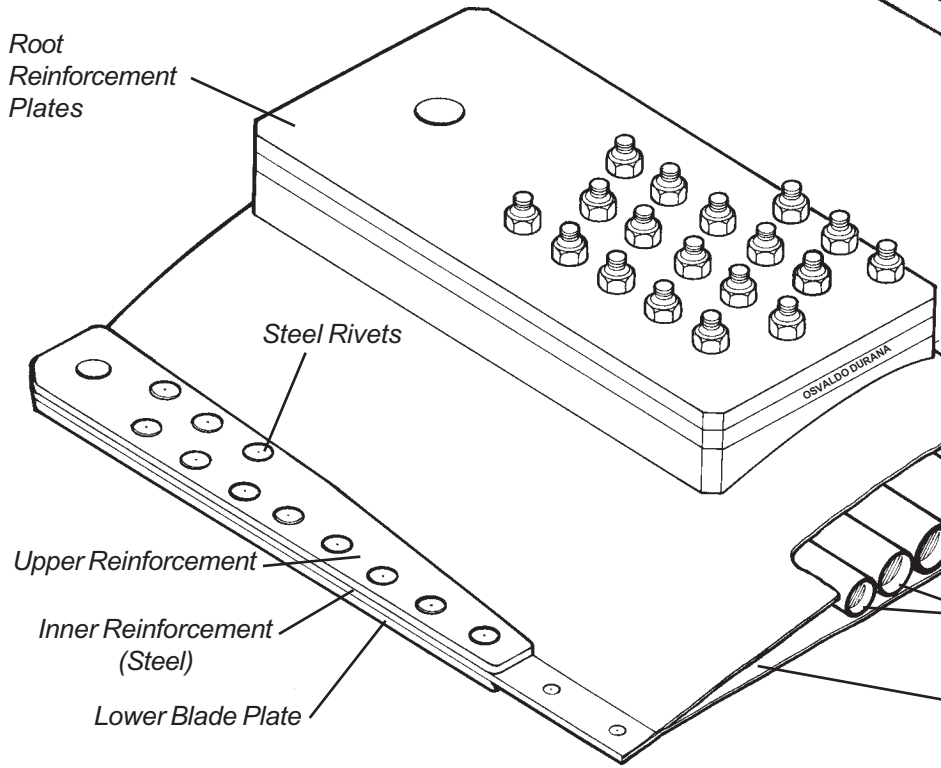
BLADE ROOT



BLADE TIP DETAIL



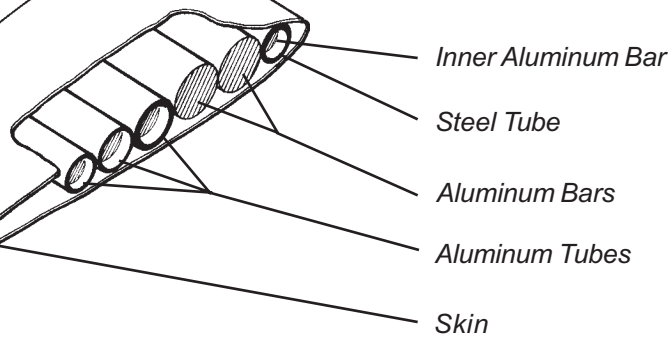
BLADE ROOT DETAIL



Inner reinforcement (aluminum)
(Between outer skins)

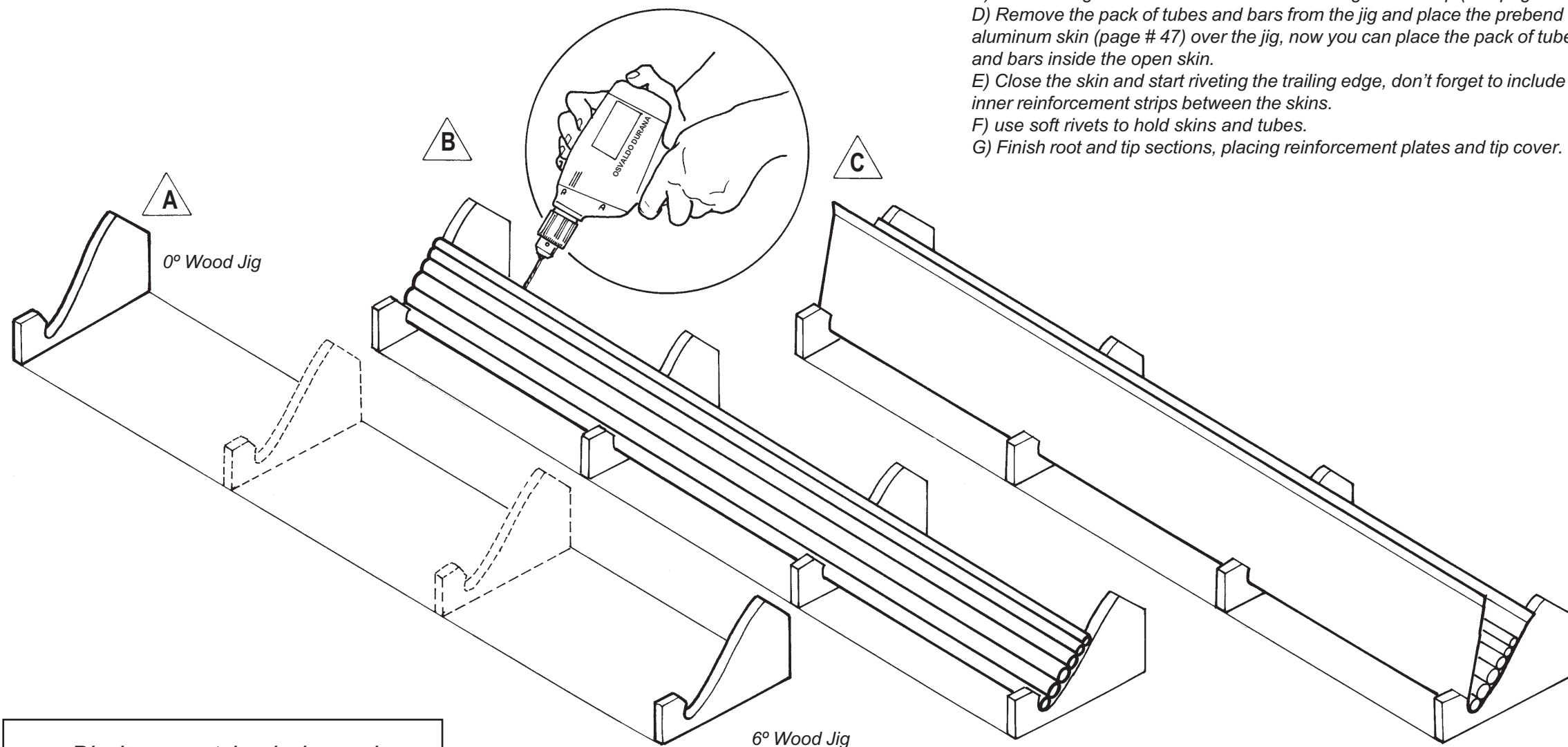
Leading Edge

BLADE TIP



Trailing Edge

MAIN ROTOR BLADE CONSTRUCTION



- A) Setting wood jigs, check alignment and determine jigs #1 and #2. You can add wood stringers between the jigs to make the assembly stronger.
- B) Mount the tubes and bars over the jig so you can rivet them together, Check that tubes follow the twist. (6°)
- C) After cutting the tubes to allow fit counterweight at the tip (see page # 50).
- D) Remove the pack of tubes and bars from the jig and place the prebend aluminum skin (page # 47) over the jig, now you can place the pack of tubes and bars inside the open skin.
- E) Close the skin and start riveting the trailing edge, don't forget to include the inner reinforcement strips between the skins.
- F) use soft rivets to hold skins and tubes.
- G) Finish root and tip sections, placing reinforcement plates and tip cover.

Blades must be balanced

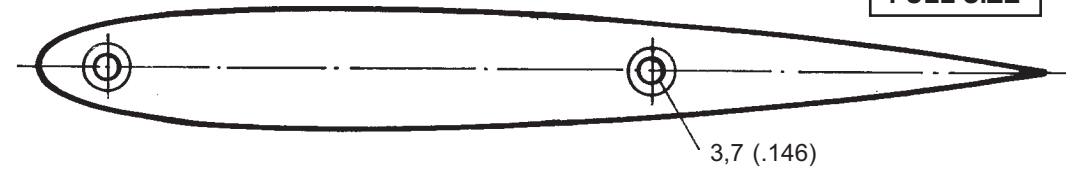
FURIA HELICOPTER -

MAIN ROTOR BLADE CONSTRUCTION

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FULL SIZE

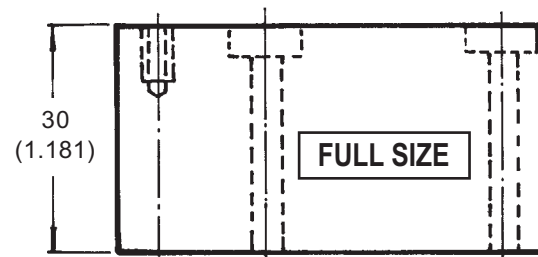
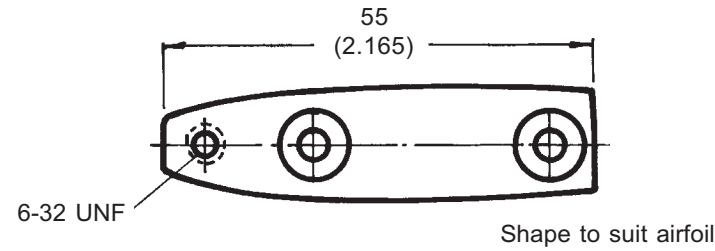


BLADE TIP COVER

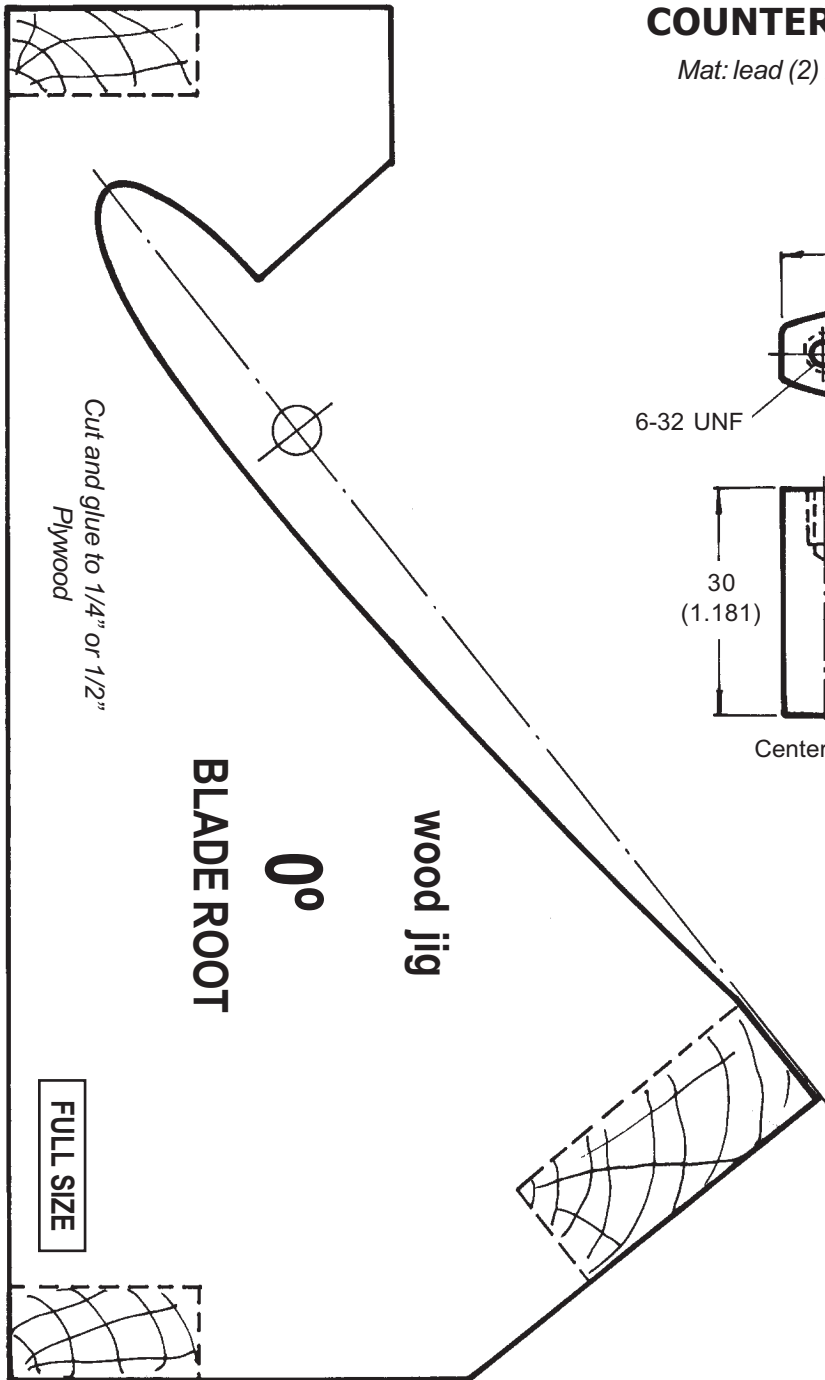
Mat: 2024-T-3 aluminum 5 (.197) Thk (2) req'd
(Shape to suit airfoil)

COUNTERWEIGHT

Mat: lead (2) Req'd



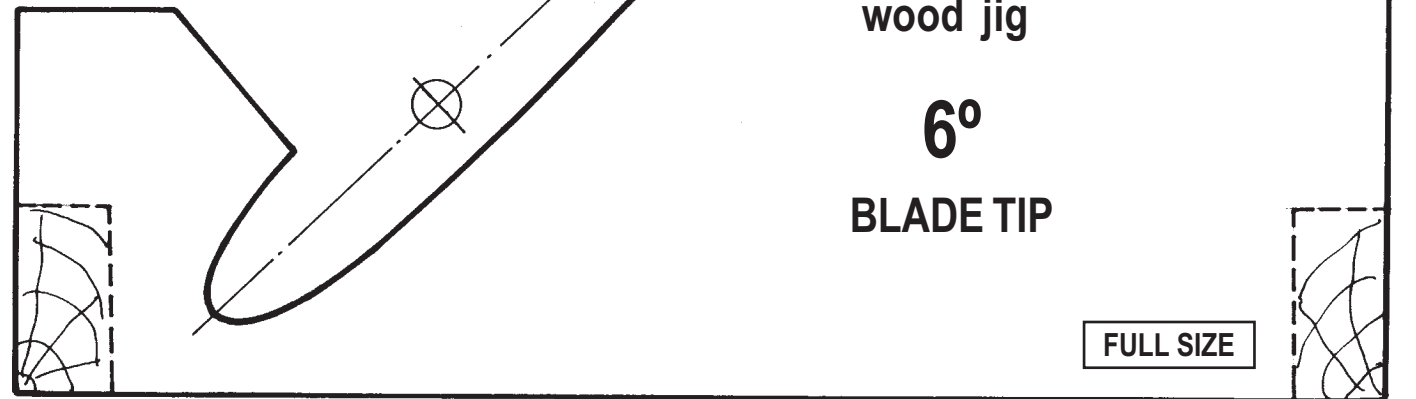
Center holes according aluminum bar centers



BLADE ROOT

0°

wood jig



wood jig

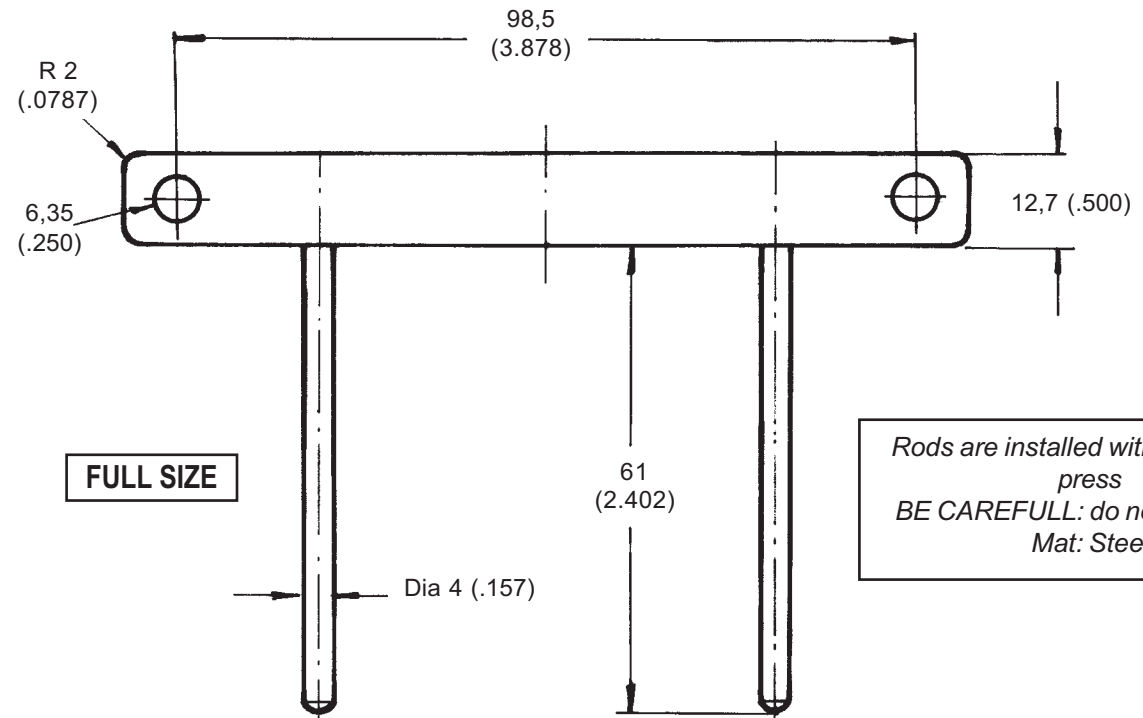
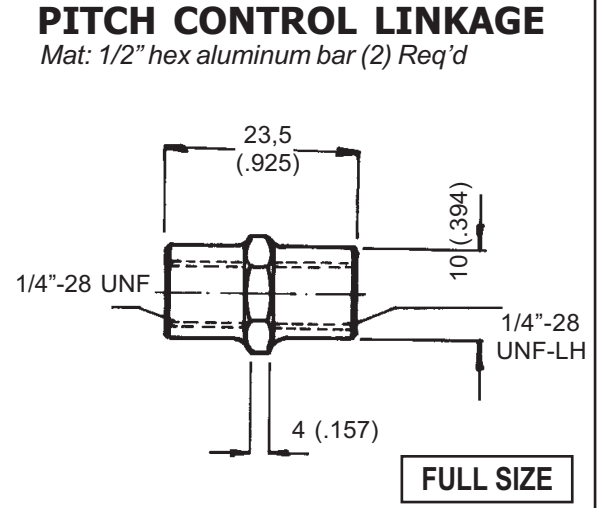
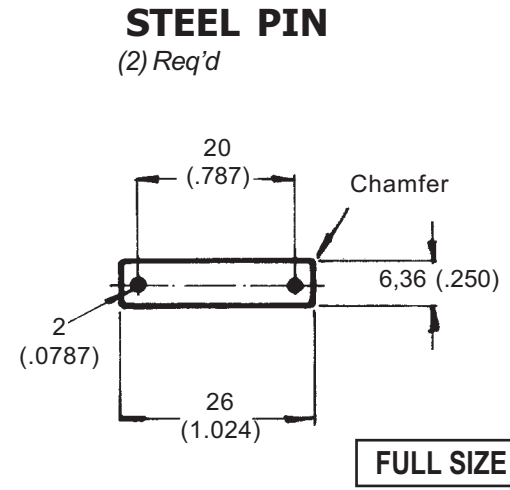
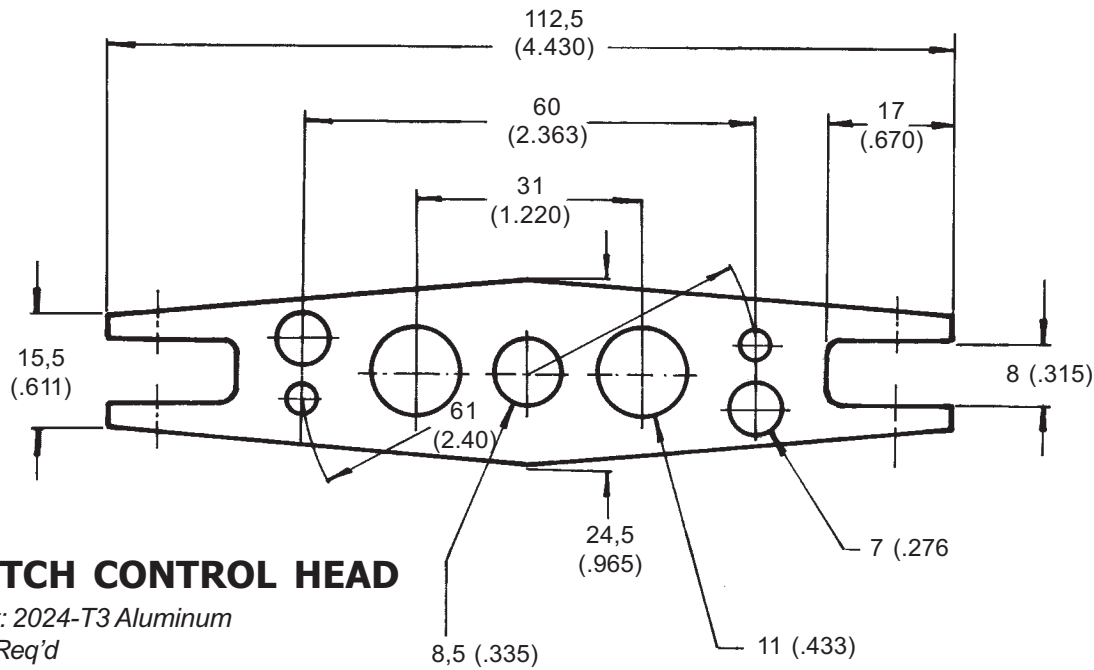
6°

BLADE TIP

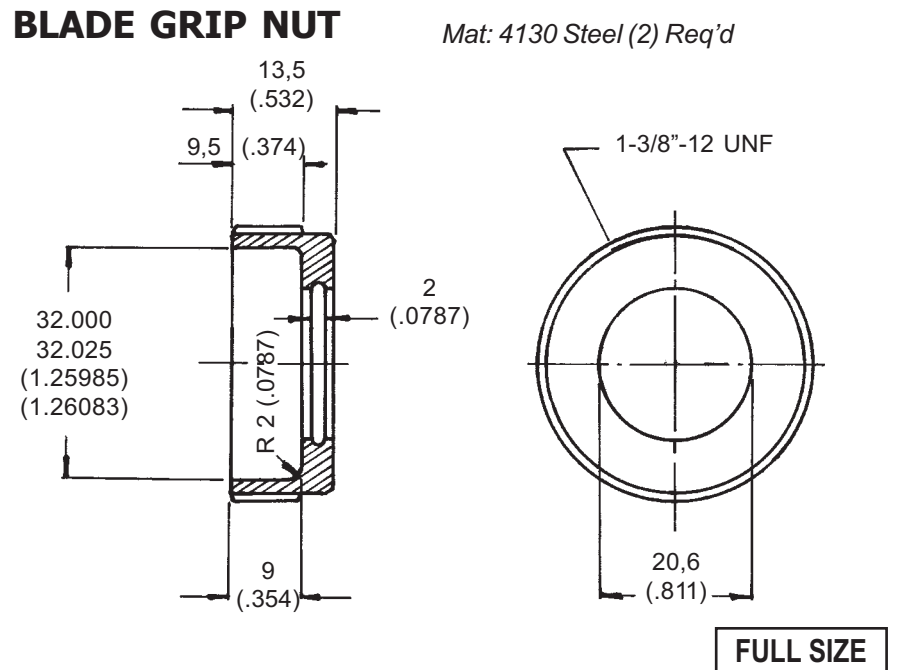
FURIA HELICOPTER -

MAIN ROTOR BLADE

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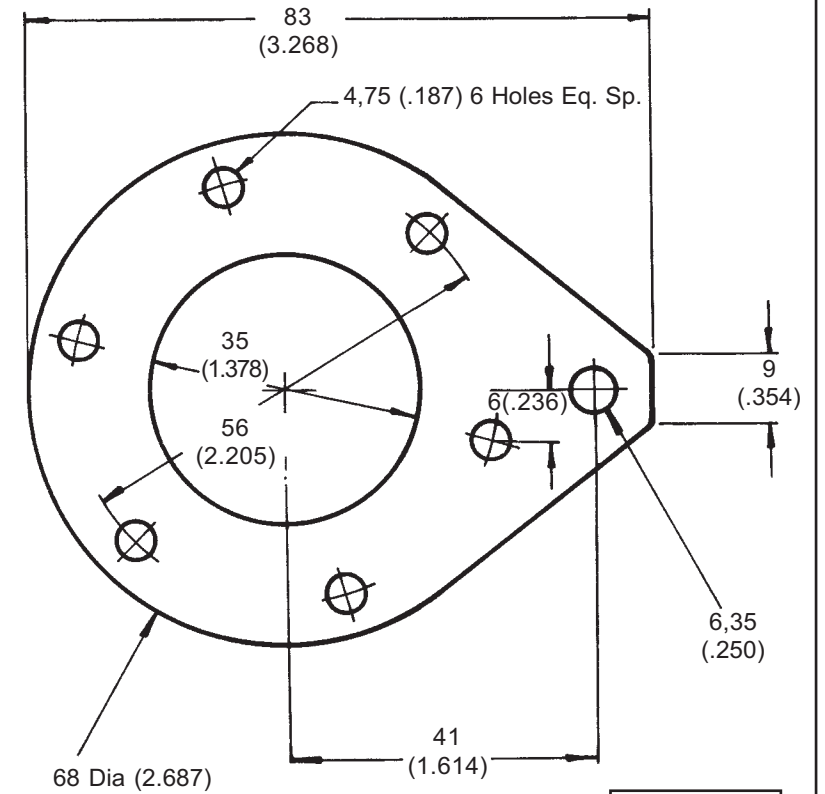
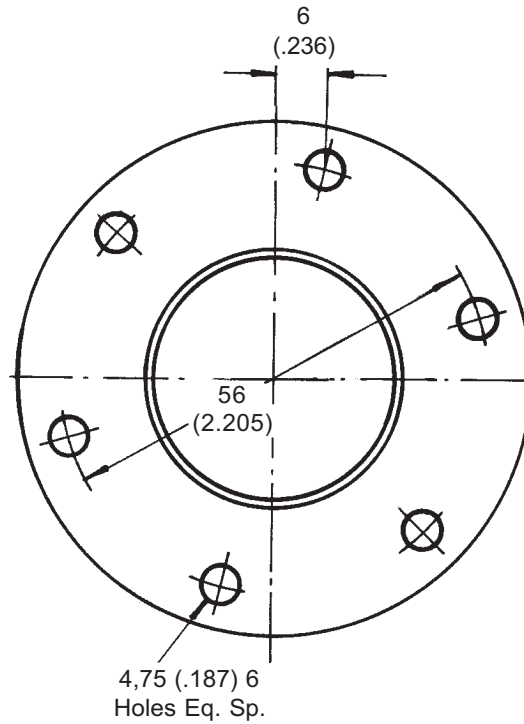
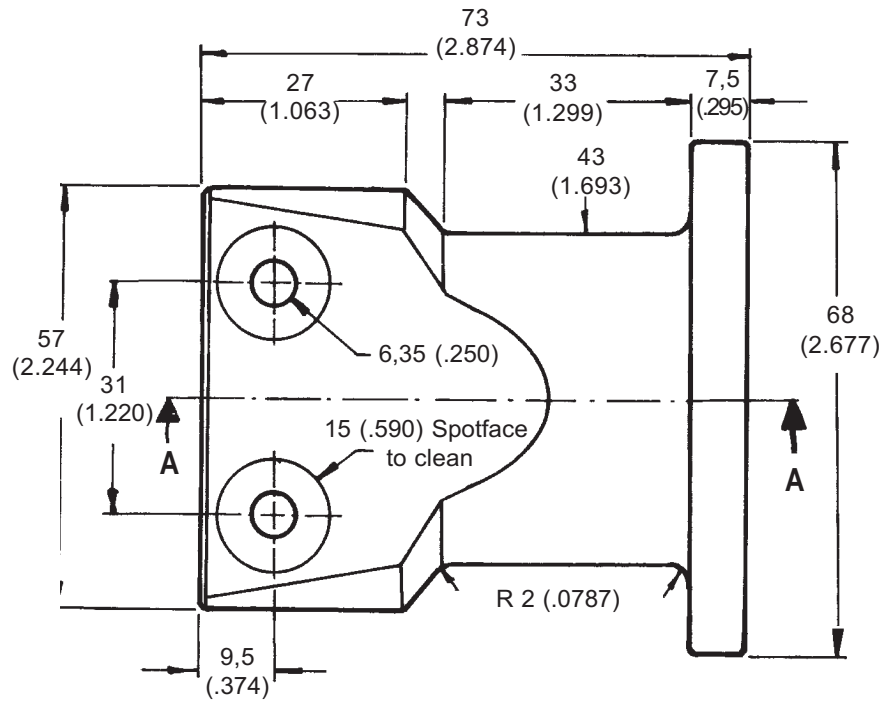


Rods are installed with the aid of a press
 BE CAREFULL: do not bend rods
 Mat: Steel



TAIL BLADE GRIP

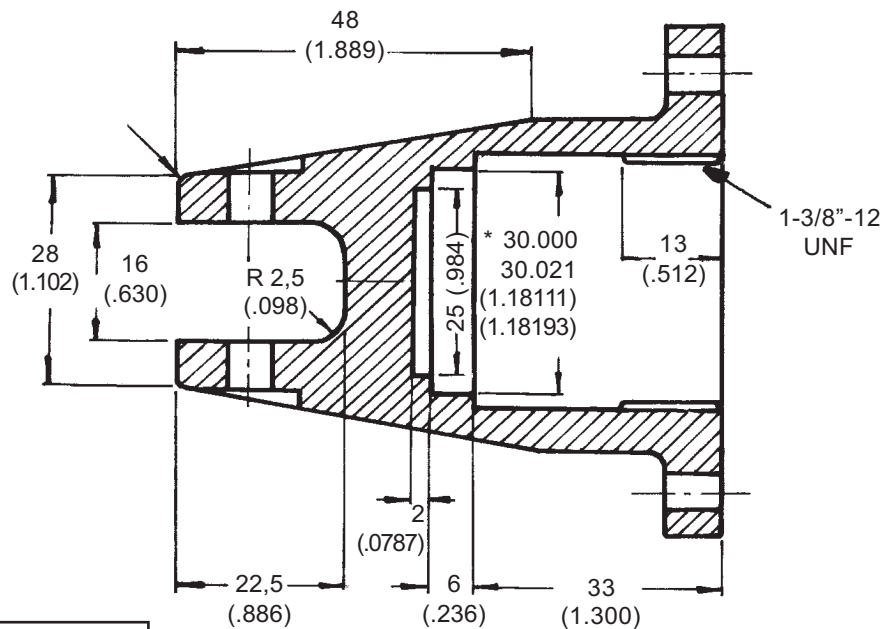
Mat: 6061-T6 or 2024-T3 Aluminum (2) Req'd



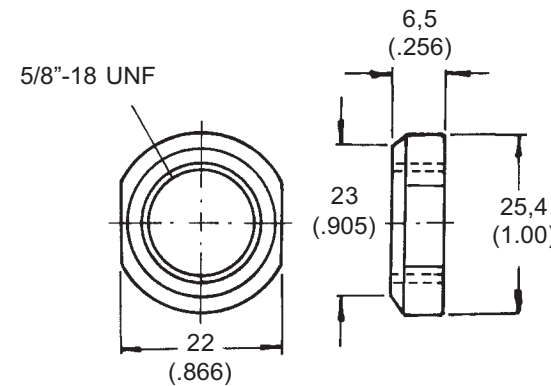
FULL SIZE

PITCH CONTROL HORN

Mat: 2024-T3 Aluminum 4 (.157) Thk (2) Req'd



FULL SIZE



FULL SIZE

AXLE NUT

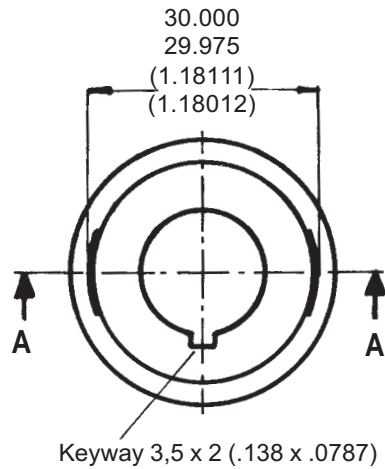
Mat: Steel (2) Req'd

FURIA HELICOPTER -

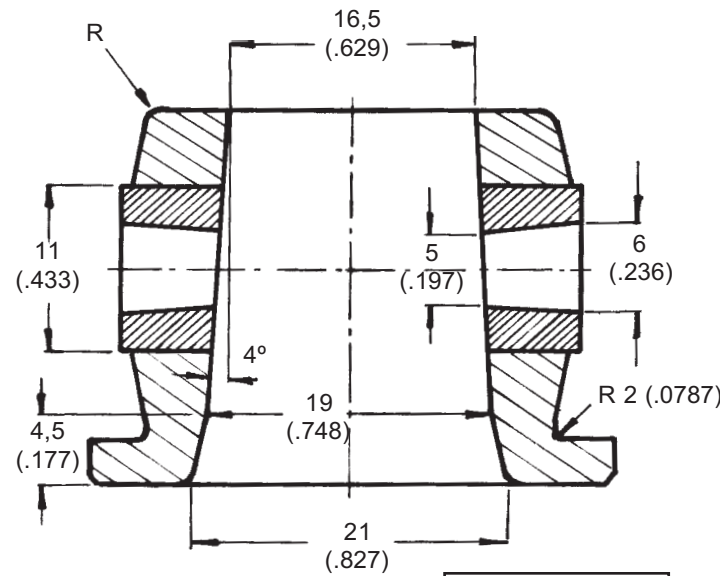
TAIL ROTOR

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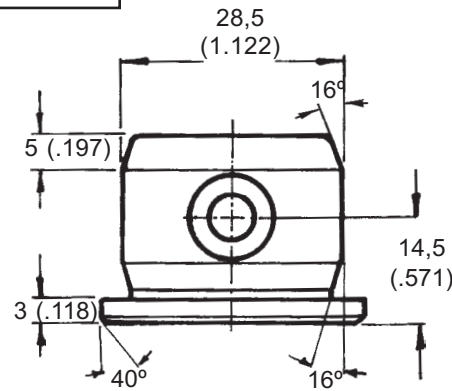
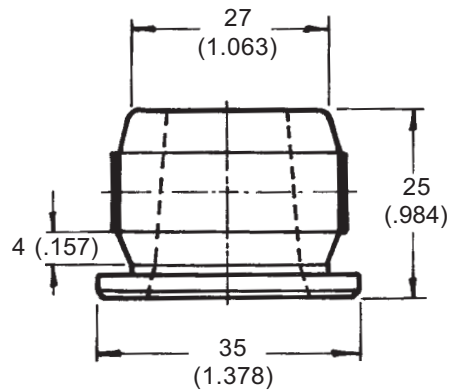
TAIL ROTOR HUB



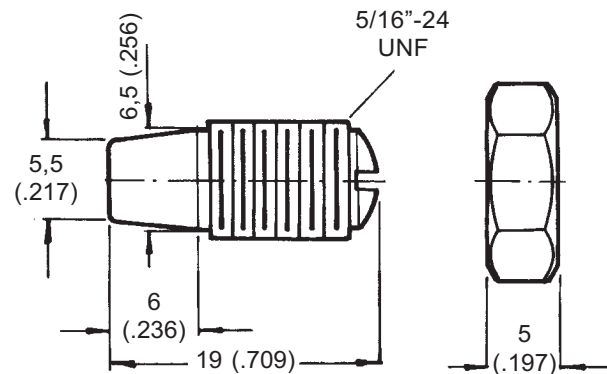
FULL SIZE



SECTION A-A
ENLARGED



TAIL ROTOR HUB
(1) Req'd
Mat: 2024-T3 Aluminum with Bronze inserts (tapered bushings)
Use anaerobic adhesive to fix bushings in place (Loctite®)



AXLE PIVOT SCREWS AND NUTS

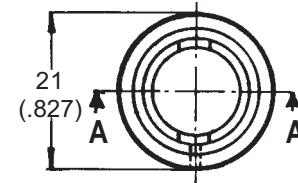
Mat: Steel (2) Req'd

(ENLARGED)

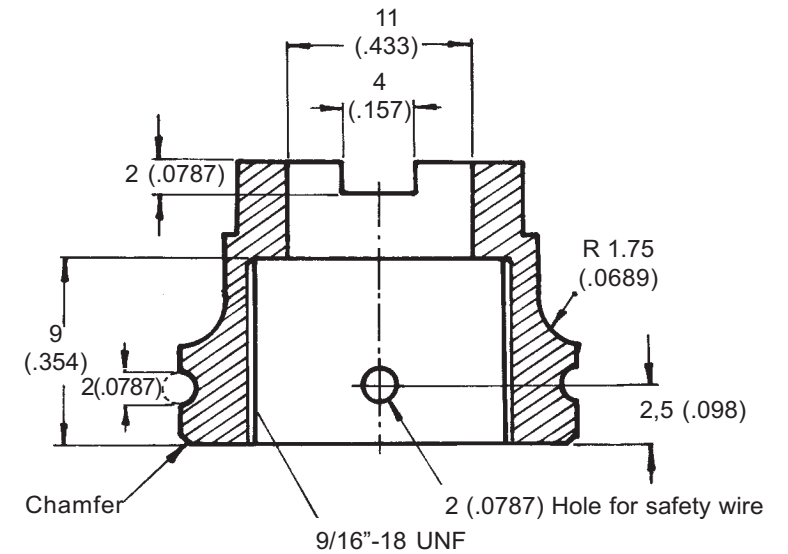
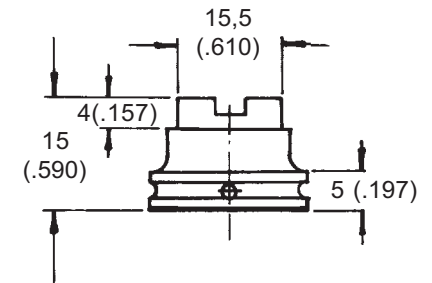
FASTEN SCREWS WITH ADHESIVE (Loctite)

RETAINER NUT

Mat: Steel (1) Req'd



FULL SIZE



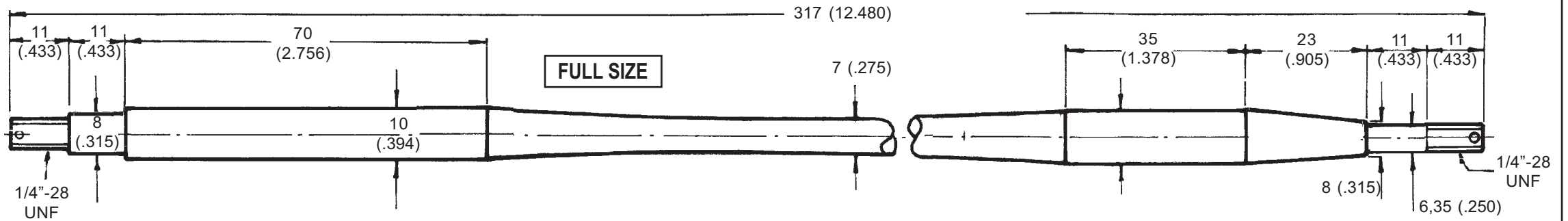
SECTION A-A ENLARGED

FURIA HELICOPTER -

TAIL ROTOR

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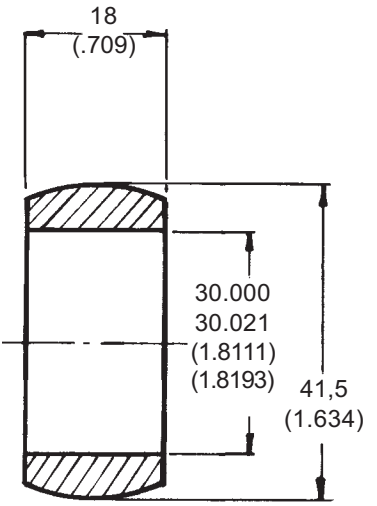
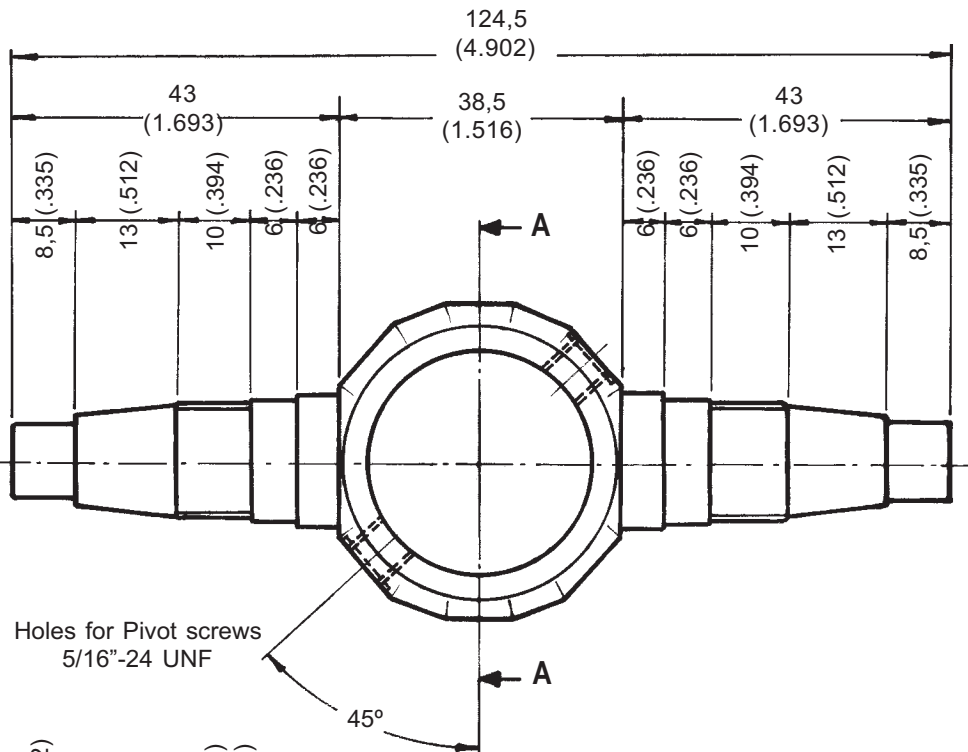
PITCH-CONTROL AXLE *Mat: Steel (1) Req'd*



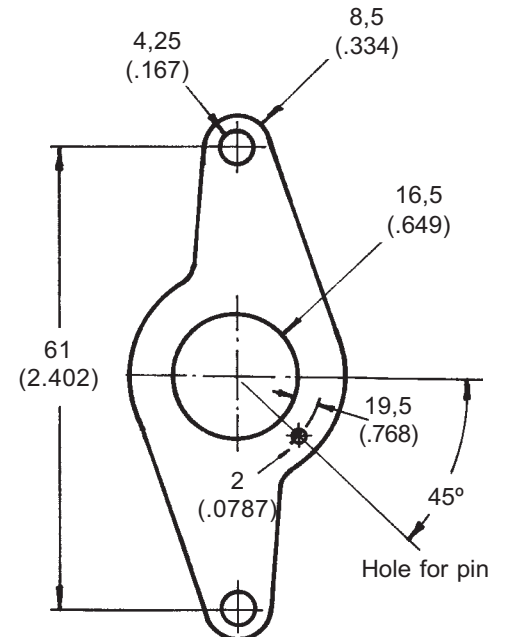
FULL SIZE

CONTROL HEAD GUIDE

Mat: Steel 2 (.0787) Thk (1) Req'd



SECTION A-A

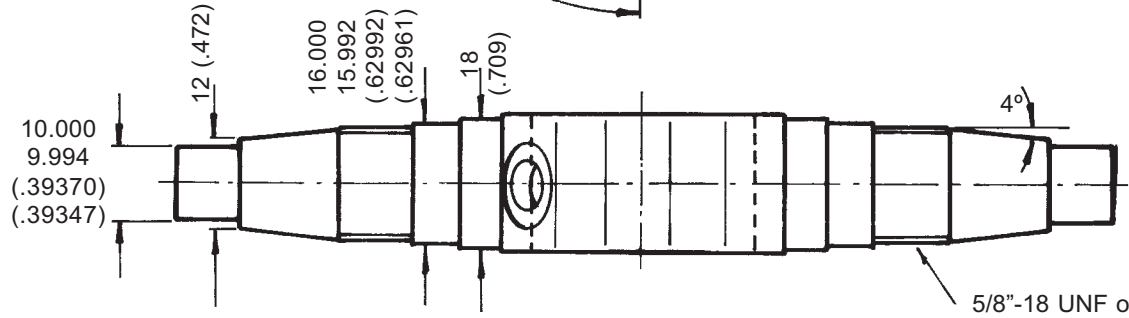


Once installed properly over the hub, make the 2 mm (.0787) hole on Tail Rotor Hub and place a Pin (See tail Rotor Exploded view Page # 11

FULL SIZE

AXLE

Mat: 4140 Steel (1) Req'd



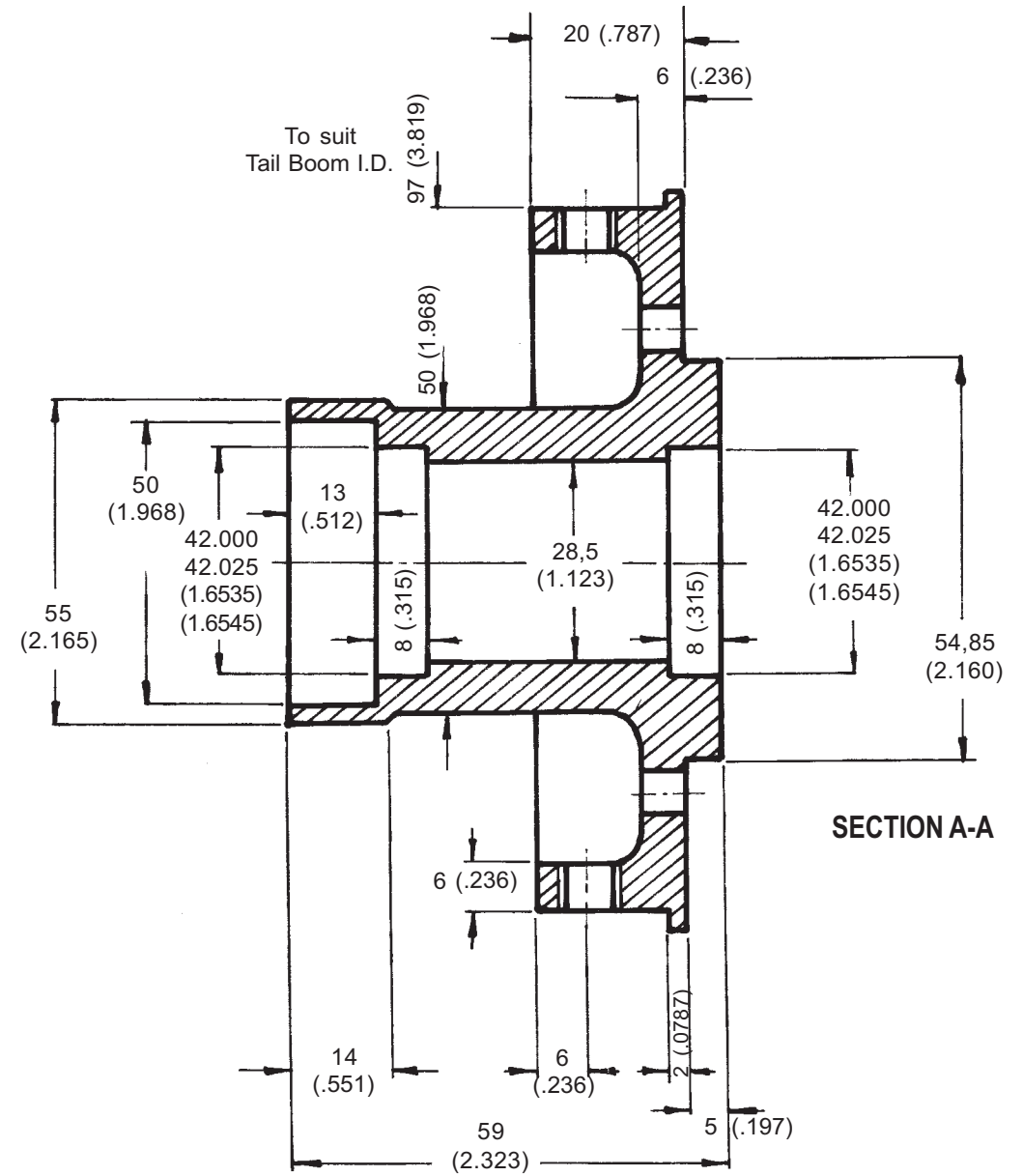
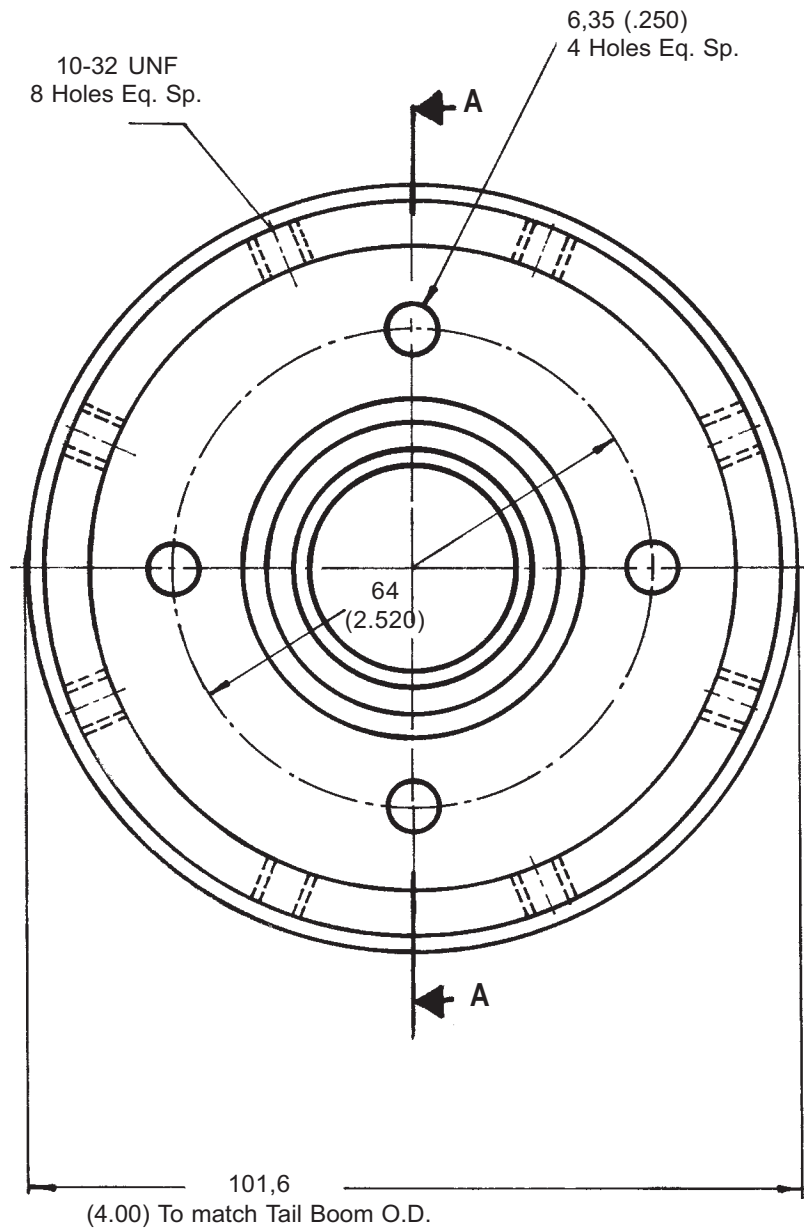
FULL SIZE

FURIA HELICOPTER -

TAIL ROTOR

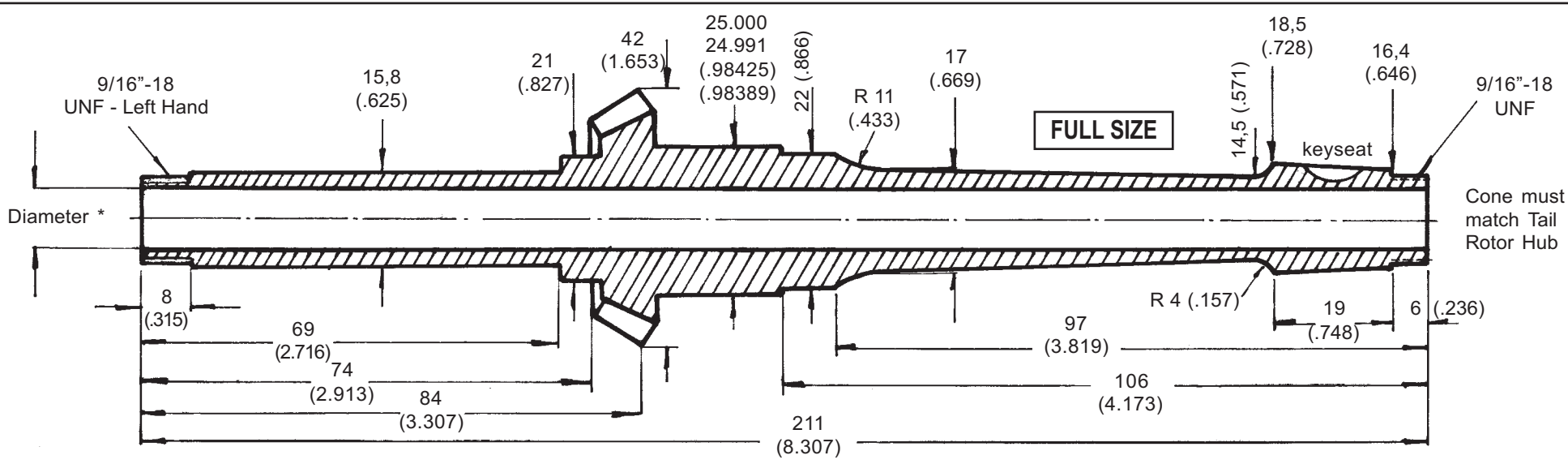
TAIL ROTOR GEARBOX REAR CAP

Mat: Aluminum (2) Req'd



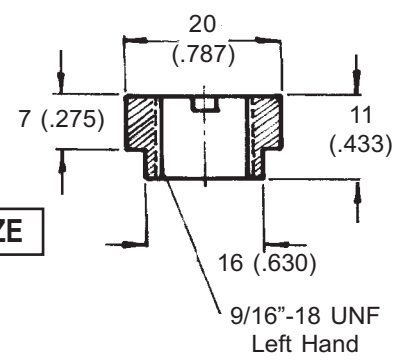
FULL SIZE

FURIA HELICOPTER -	
TAIL ROTOR GEARBOX CAP	
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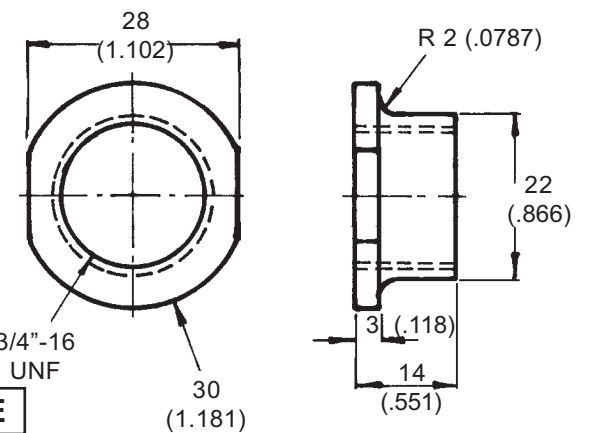
Cone must match Tail Rotor Hub

NUT C
Mat: Steel (1) Req'd



FULL SIZE

NUT D
Mat: Steel (2) Req'd



FULL SIZE

TAIL ROTOR GEARS

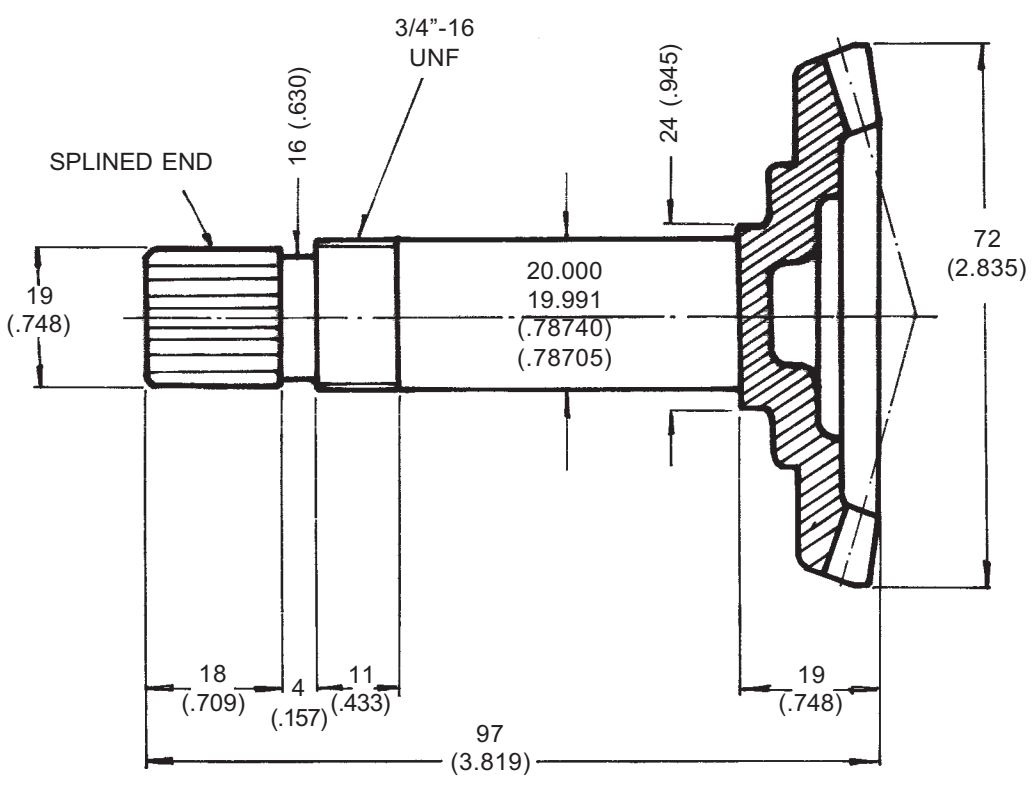
GEARS CUTTING DATA

	PINION	GEAR
NUMBER OF TEETH	18	34
DIAMETRAL PITCH	12	12
PRESSURE ANGLE	20°	20°
PITCH DIAMETER	1.5	2.833
ADDENDUM	.0833	.0833
WHOLE DEPTH	.18433	.18433
CIRCULAR THICKNESS	.1309	.1309
SHAFT ANGLE	90°	90°
DEDENDUM	.10103	.10103
CLEARANCE	.01773	.01773

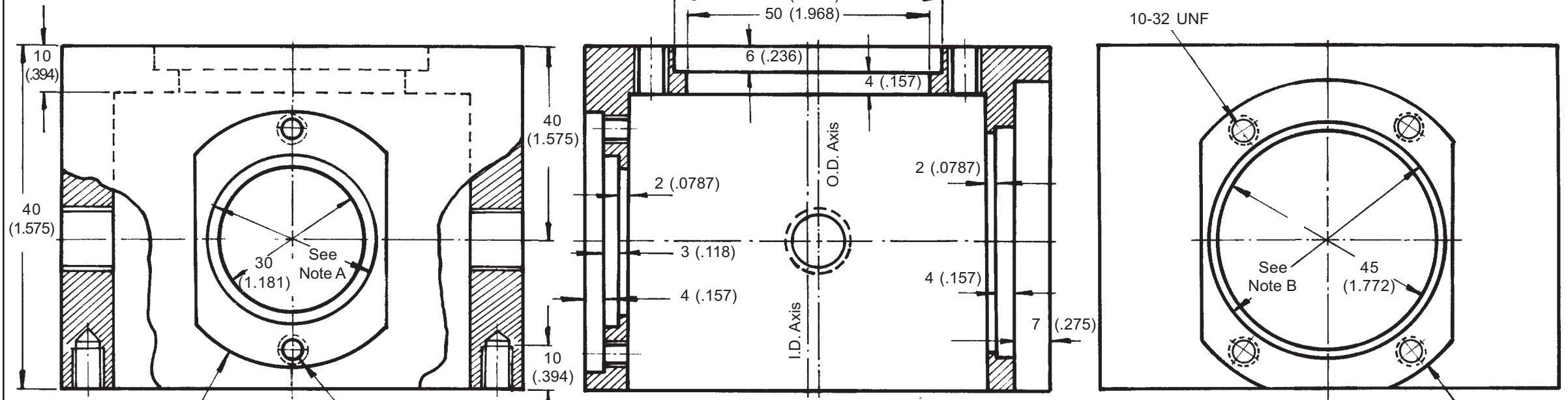
Gear 2 req'd

FULL SIZE

*To suit Pitch-Control Axle (must slide freely)



SECTION A-A



Dia 54 (2.125)
10-32 UNF
Recess to suit Bearing Cover (Small)

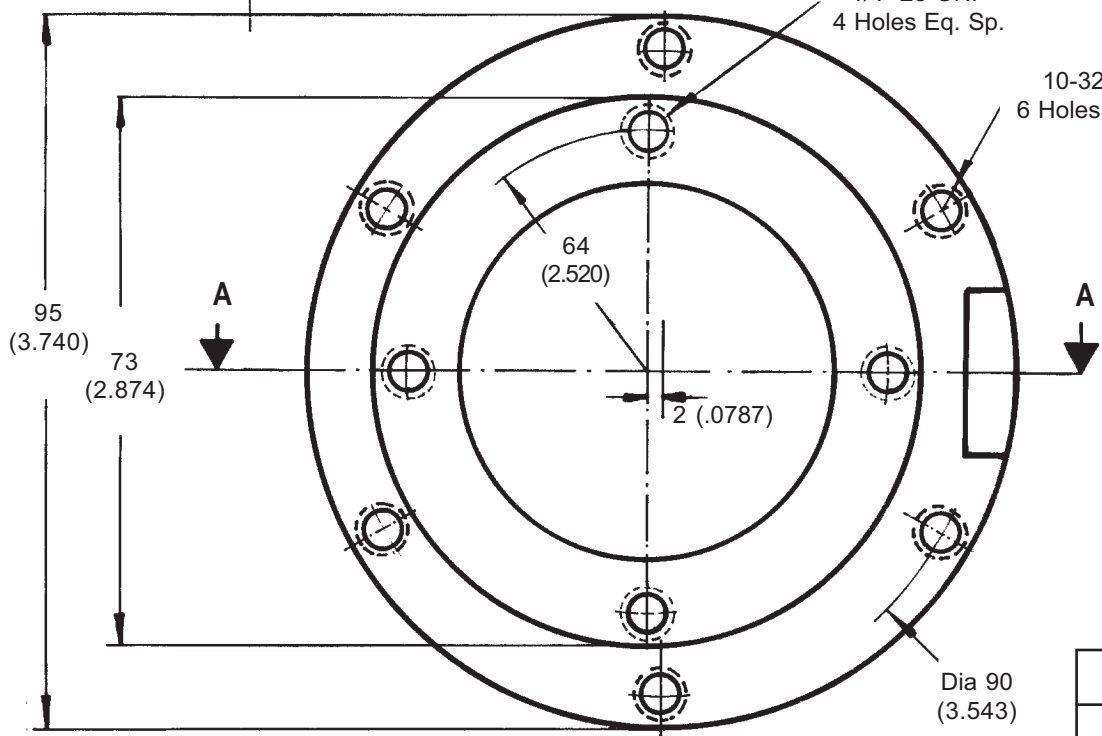
Note A:
Diameter
35.000
35.025
(1.3779)
(1.3789)

10-32 UNF
Dia. 66 (2.598)
Recess to suit Bearing Cover

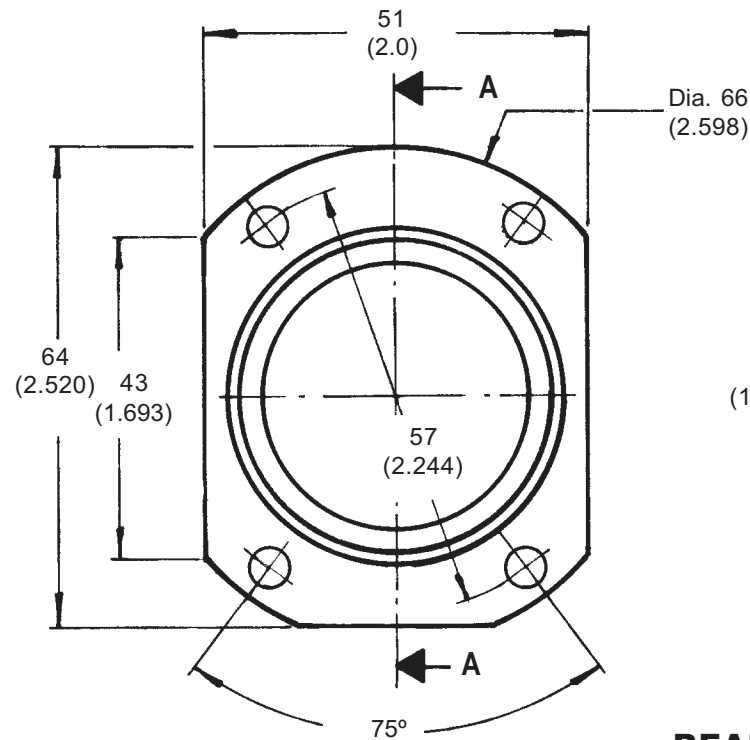
Note B
Diameter
47.000
47.025
(1.85040)
(1.85138)

TAIL ROTOR GEARBOX

Mat: Aluminum (2) Req'd

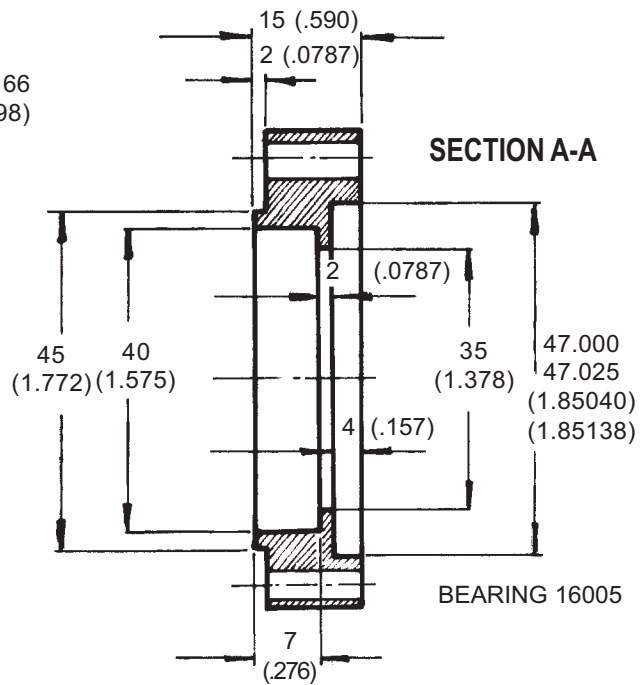


FULL SIZE



FULL SIZE

Dia. 66
(2.598)

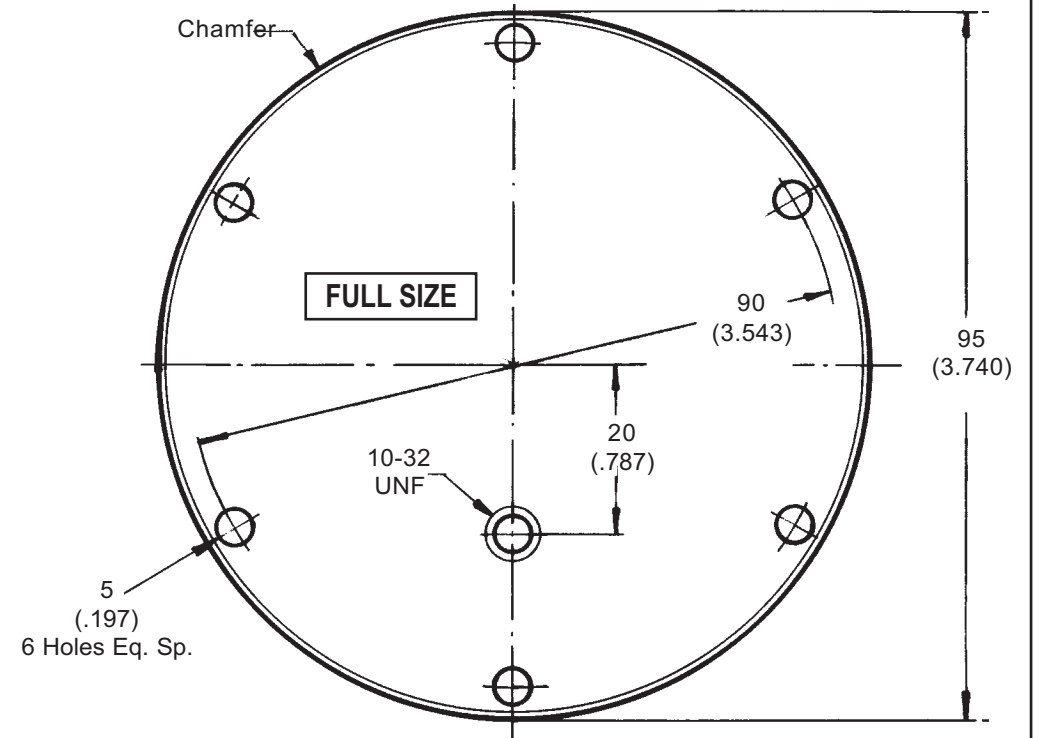


SECTION A-A

BEARING 16005

TAIL ROTOR LID

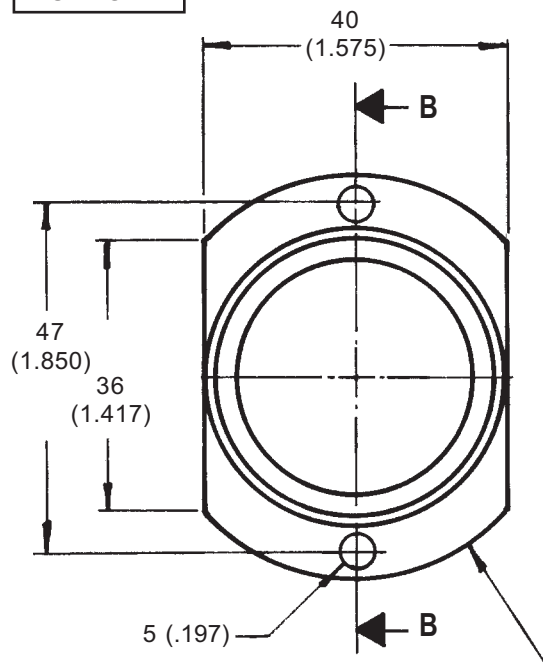
Mat: Aluminum 6 (.236) Thk (2) Req'd



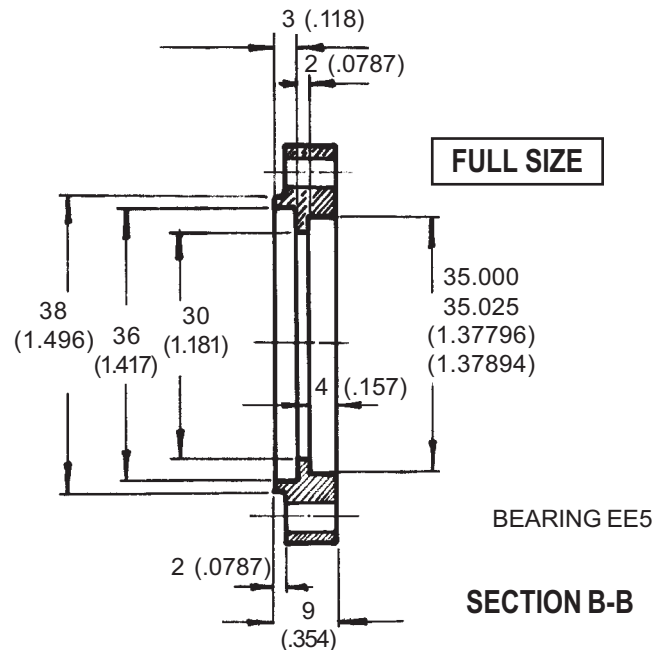
FULL SIZE

BEARING COVERS

Mat: Aluminum (2) of each Req'd

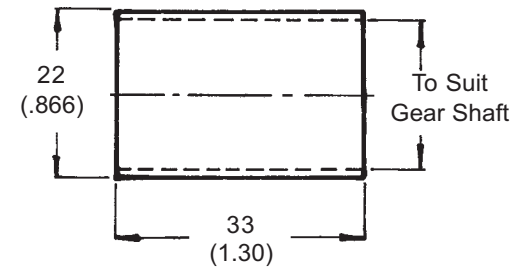


FULL SIZE



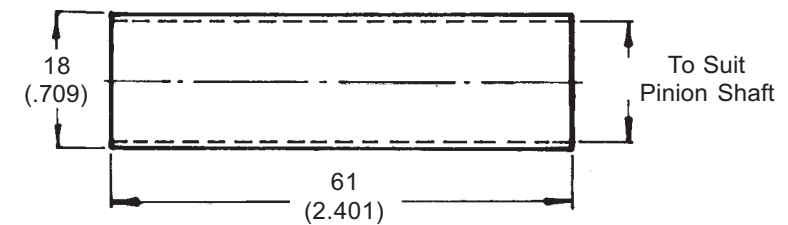
SECTION B-B

BEARING EE5



**GEARS
STEEL BUSHINGS**

Mat: Steel (1) of each Req'd



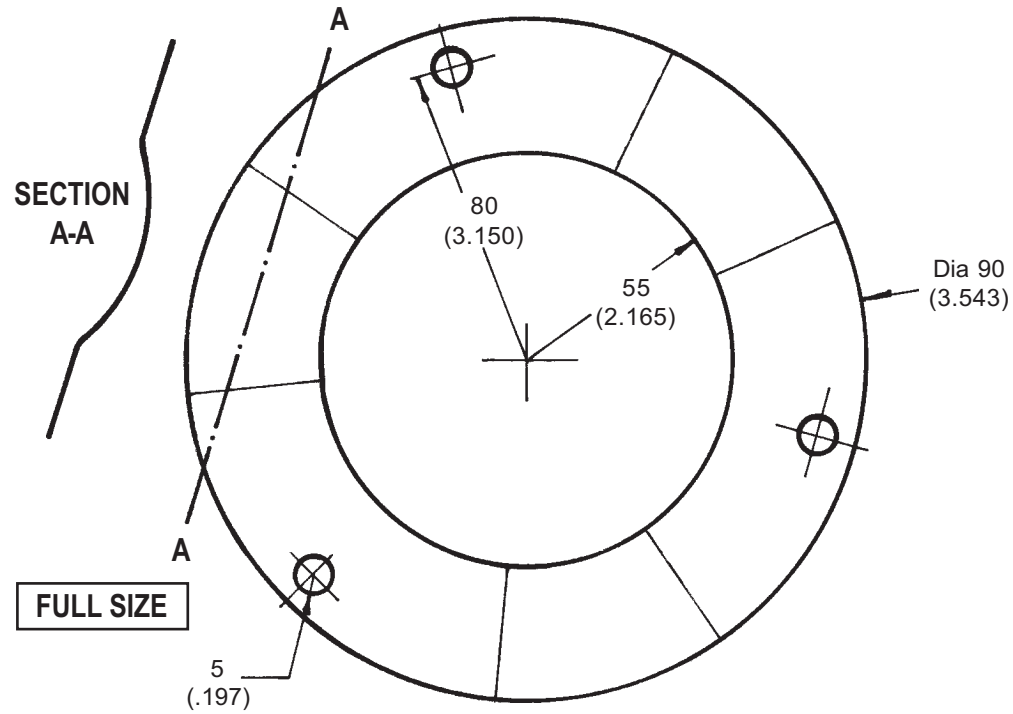
FULL SIZE

FURIA HELICOPTER -

TAIL ROTOR GEARBOX

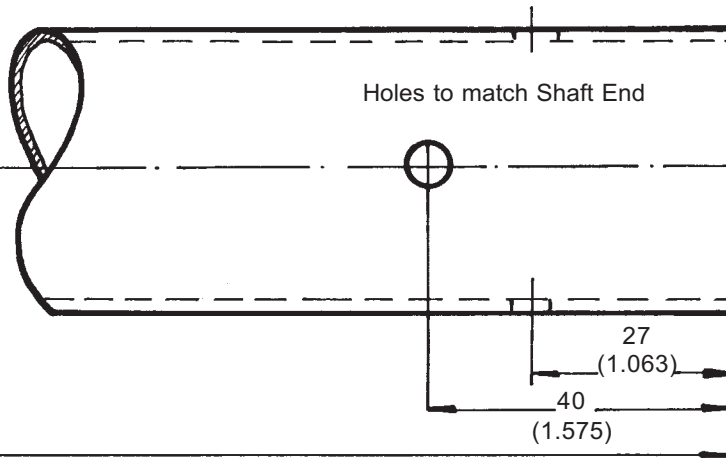
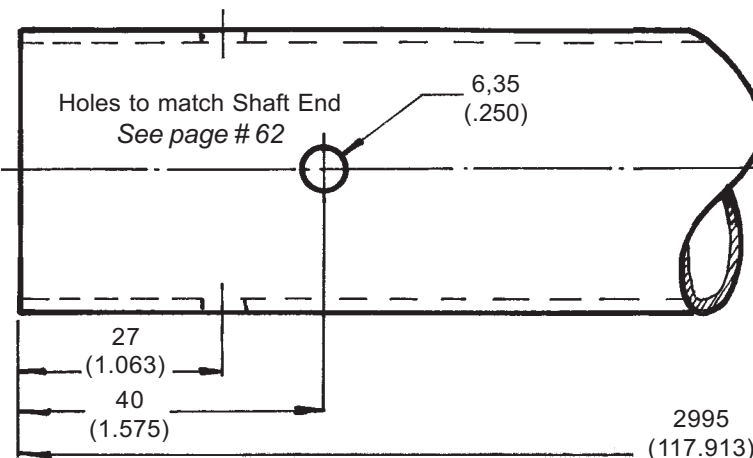
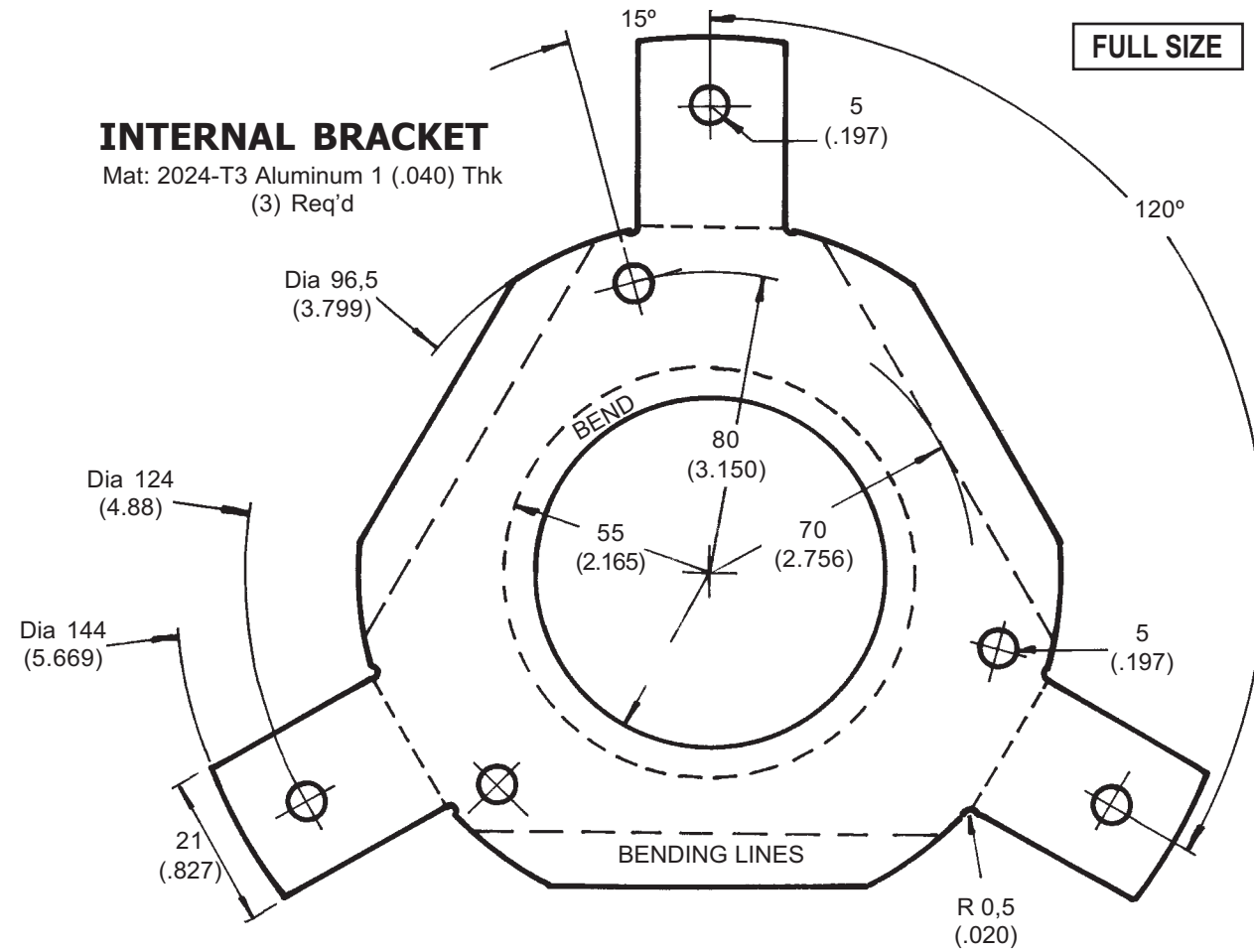
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RETAINING WASHER Mat: Aluminum 0,8 (.032) Thk (3) Req'd



INTERNAL BRACKET

Mat: 2024-T3 Aluminum 1 (.040) Thk (3) Req'd



SHAFT

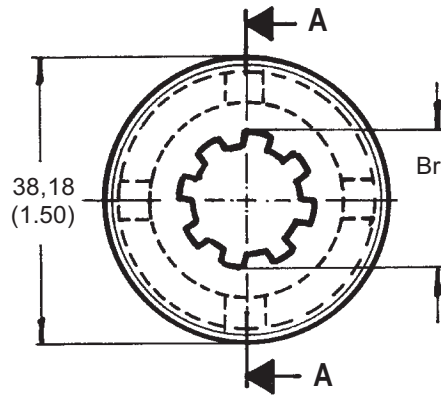
Mat: 6061-T6 Aluminum O.D. 1-1/2" (.080) Wall Thk (1) Req'd

FULL SIZE

FURIA HELICOPTER -

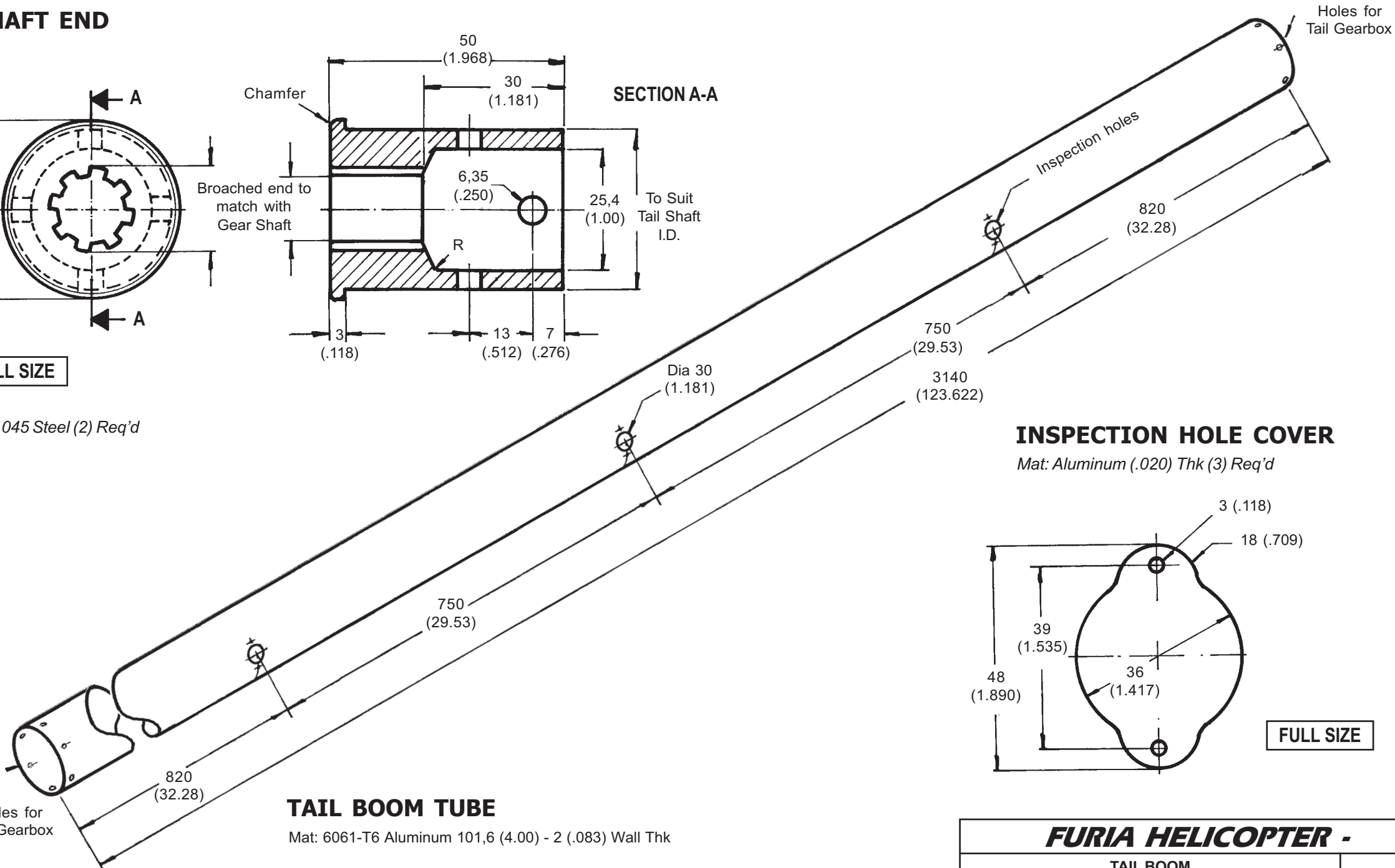
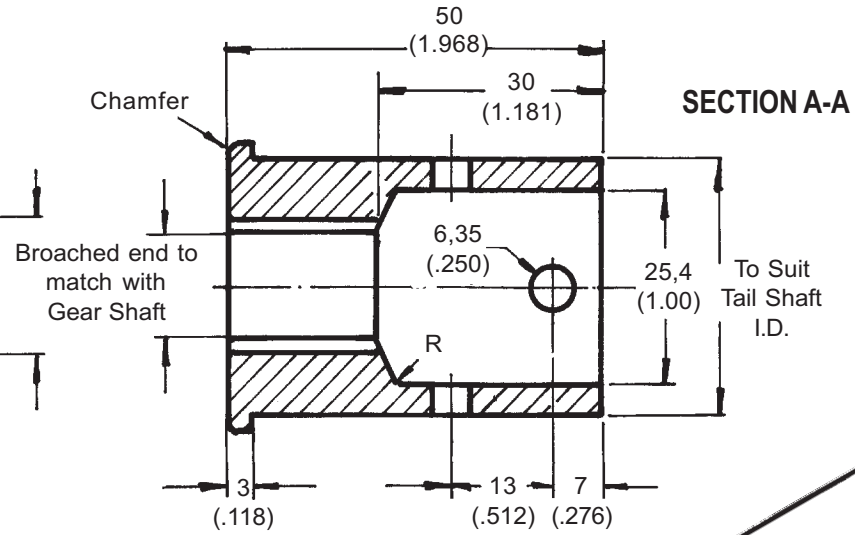
TAIL BOOM SHAFT

SHAFT END



FULL SIZE

Mat: 1045 Steel (2) Req'd

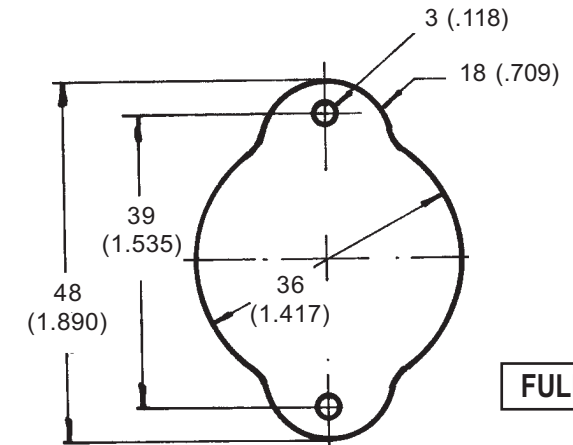


TAIL BOOM TUBE

Mat: 6061-T6 Aluminum 101,6 (4.00) - 2 (.083) Wall Thk

INSPECTION HOLE COVER

Mat: Aluminum (.020) Thk (3) Req'd



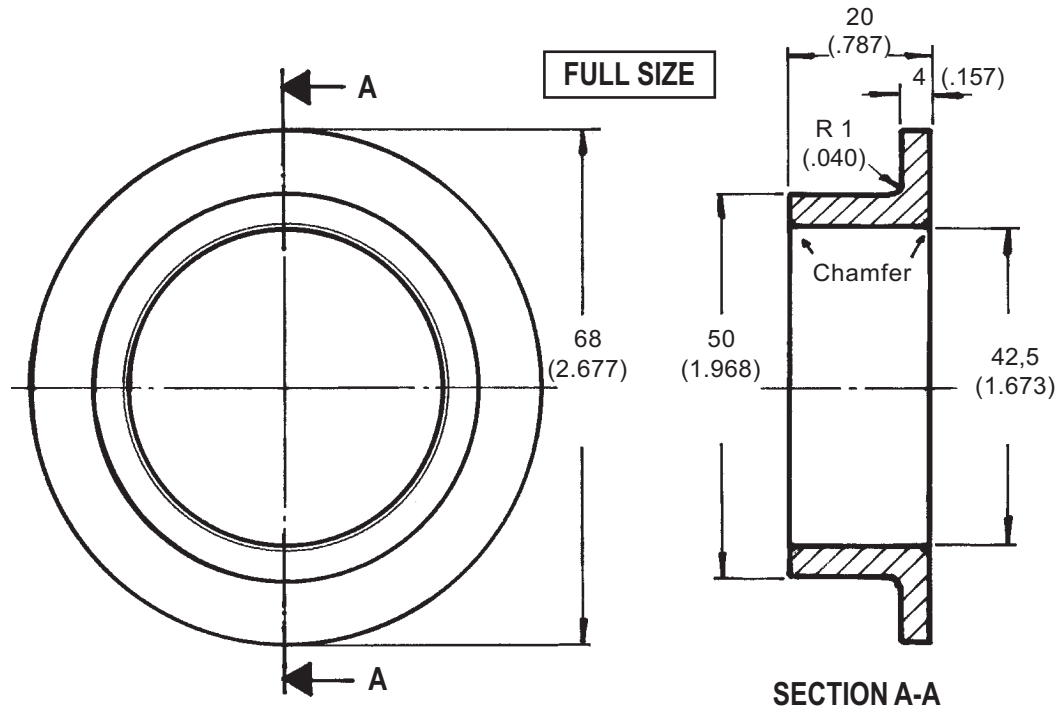
FULL SIZE

FURIA HELICOPTER -

TAIL BOOM

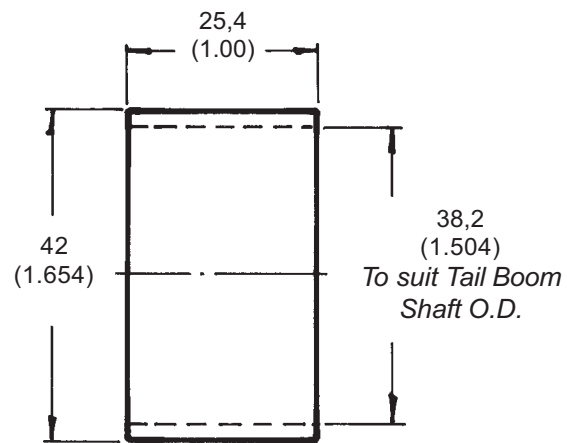
BUSHING

Mat: Black Grillon (with Molikote) (3) Req'd

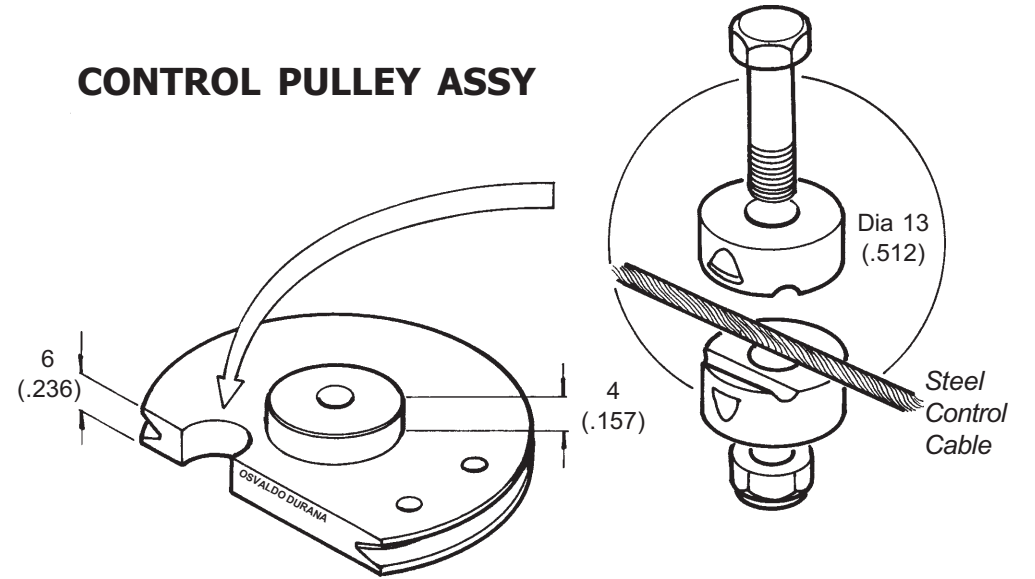


RACEWAY

Mat: 8620 Steel (3) Req'd
 HEAT TREATMENT
 CASE HARDENING
 Min Surface Hardness
 58 Rockwell C
 Effective Case Depth
 0,3 (.012)
 (After Finish Grinding)

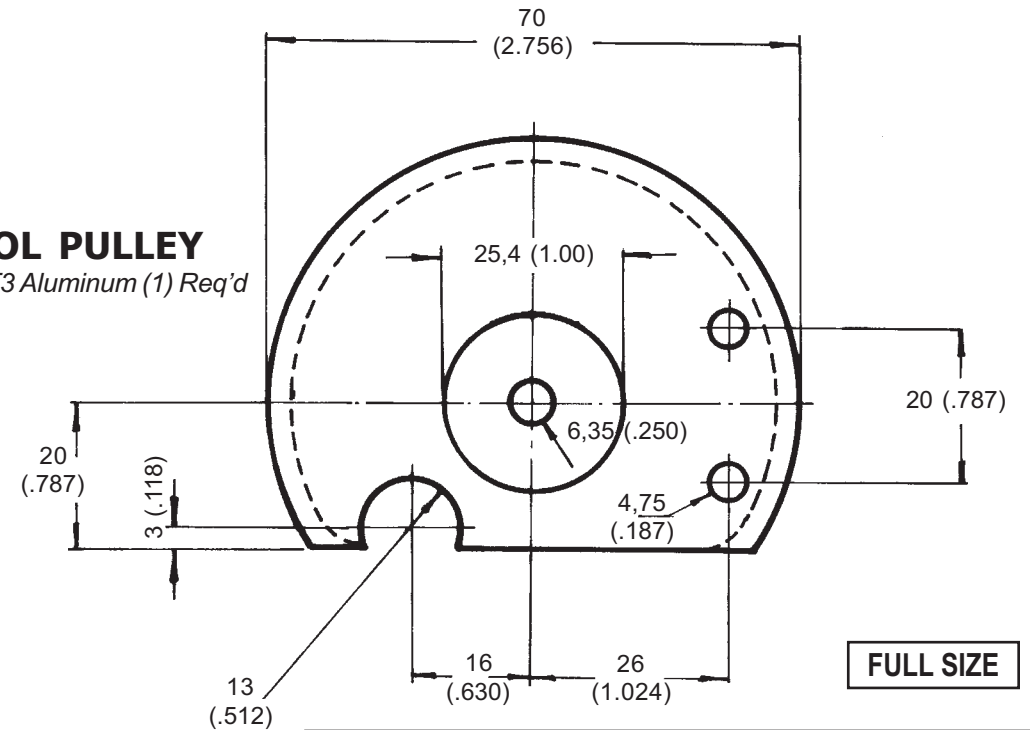


CONTROL PULLEY ASSY



CONTROL PULLEY

Mat: 2024-T3 Aluminum (1) Req'd



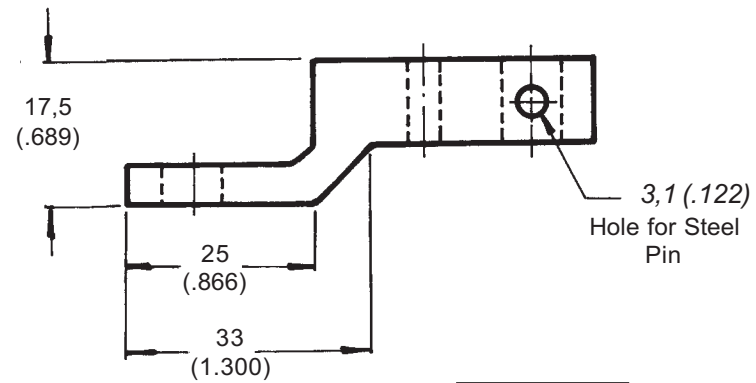
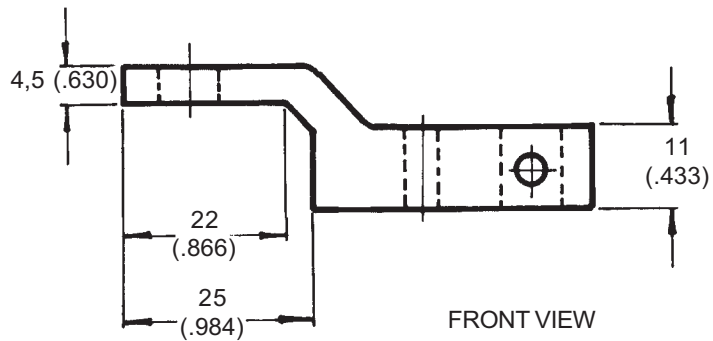
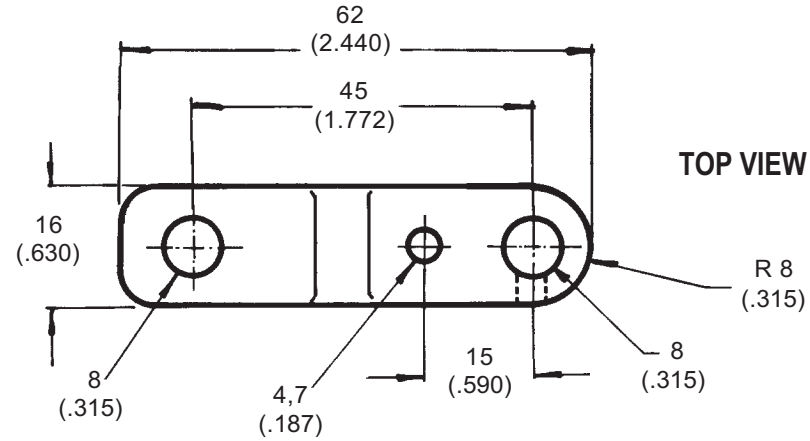
FURIA HELICOPTER -

TAIL BOOM

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SCISSORS A

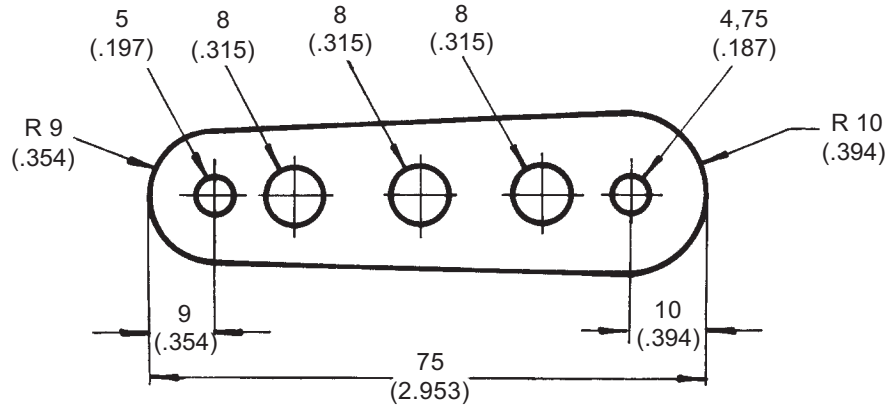
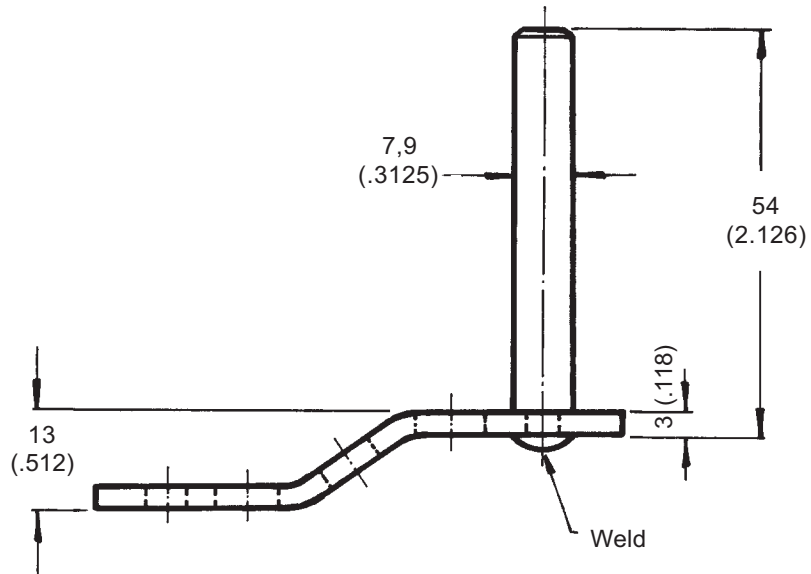
Mat: 2024-T3 Aluminum (1) Req'd



FULL SIZE

LEVER

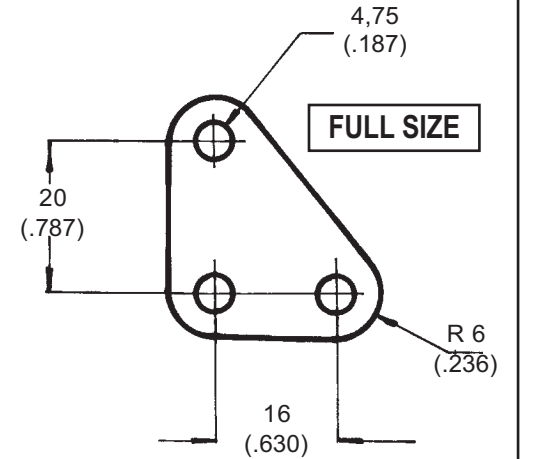
Mat: Steel (1) Req'd



FULL SIZE

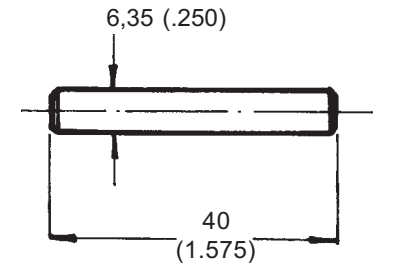
PULLEY ARM

Mat: Steel (1) Req'd
2 (.0787) Thk



AXLE

Mat Steel (1) Req'd



FULL SIZE

FURIA HELICOPTER -

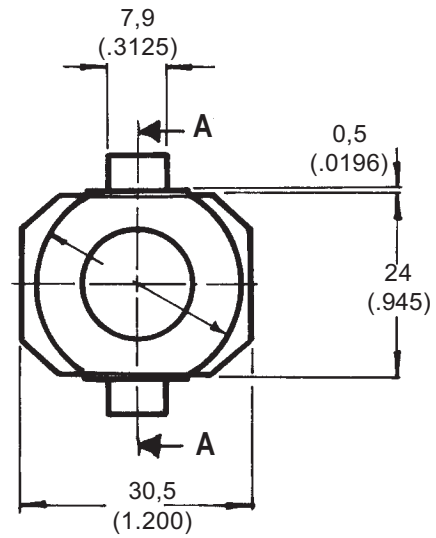
TAIL ROTOR CONTROL

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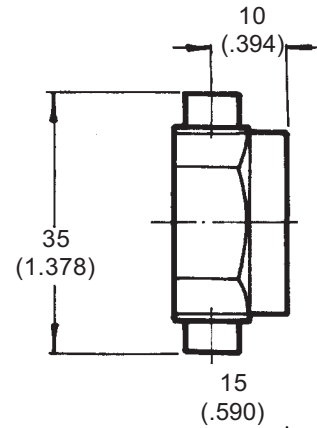
BEARING HOUSING

Mat: 2024-T3 Aluminum (1) Req'd

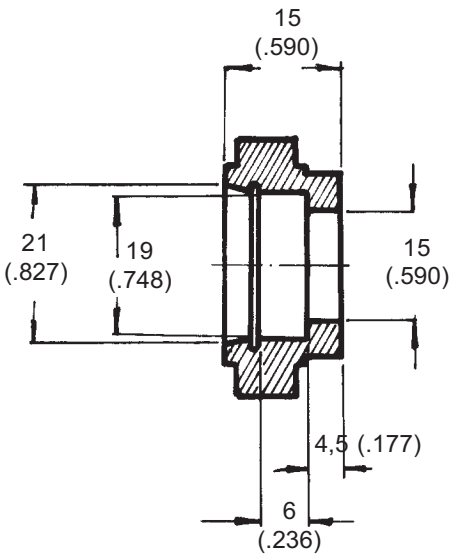
FULL SIZE



FRONT VIEW



SIDE VIEW

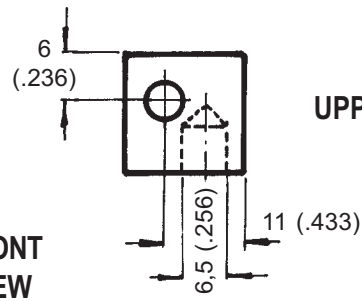


SECTION A-A

SCISSORS HINGE

Mat: 2024-T3 Aluminum (2) Req'd (Upper and Lower)

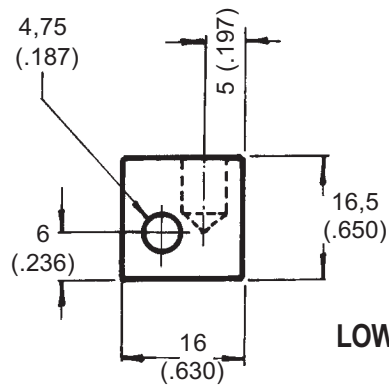
FRONT VIEW



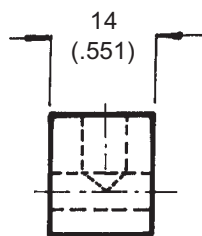
UPPER



SIDE VIEW



LOWER

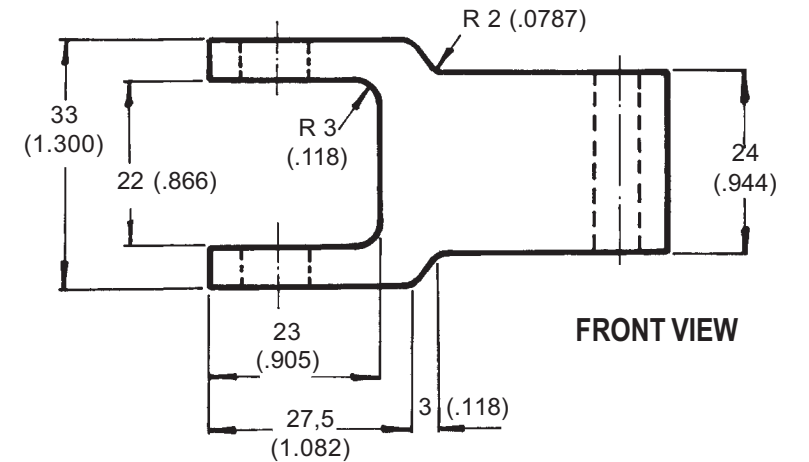
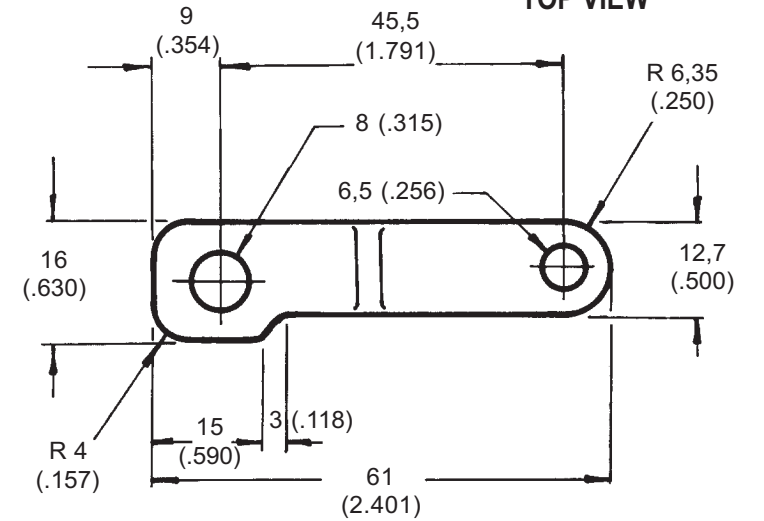


FULL SIZE

SCISSORS B

Mat: 2024-T3 Aluminum (1) Req'd

TOP VIEW



FRONT VIEW

FULL SIZE

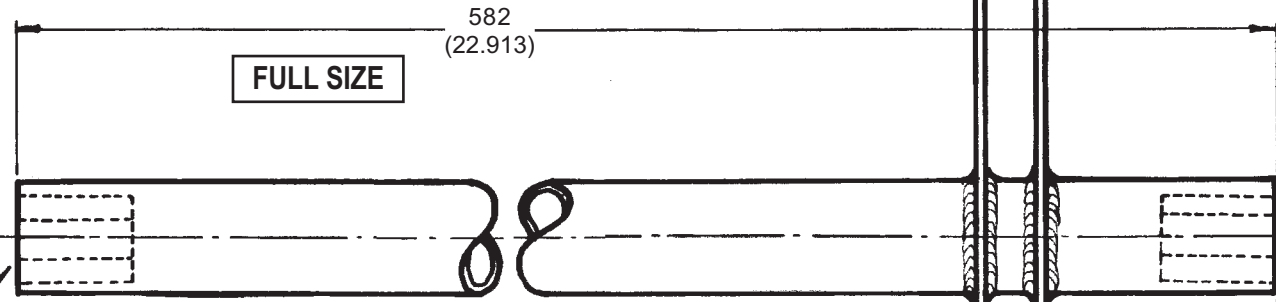
FURIA HELICOPTER -

TAIL ROTOR CONTROL

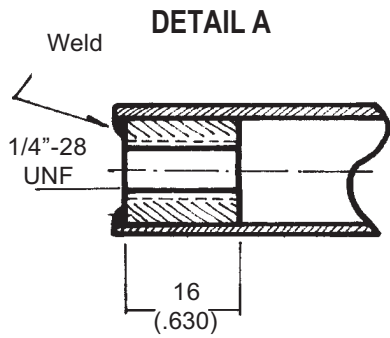
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PEDALS AXLE

Mat: 4130 Steel tubing 15,8 (5/8") O.D. - 2,4 (.095) Wall Thk.
(1) Req'd

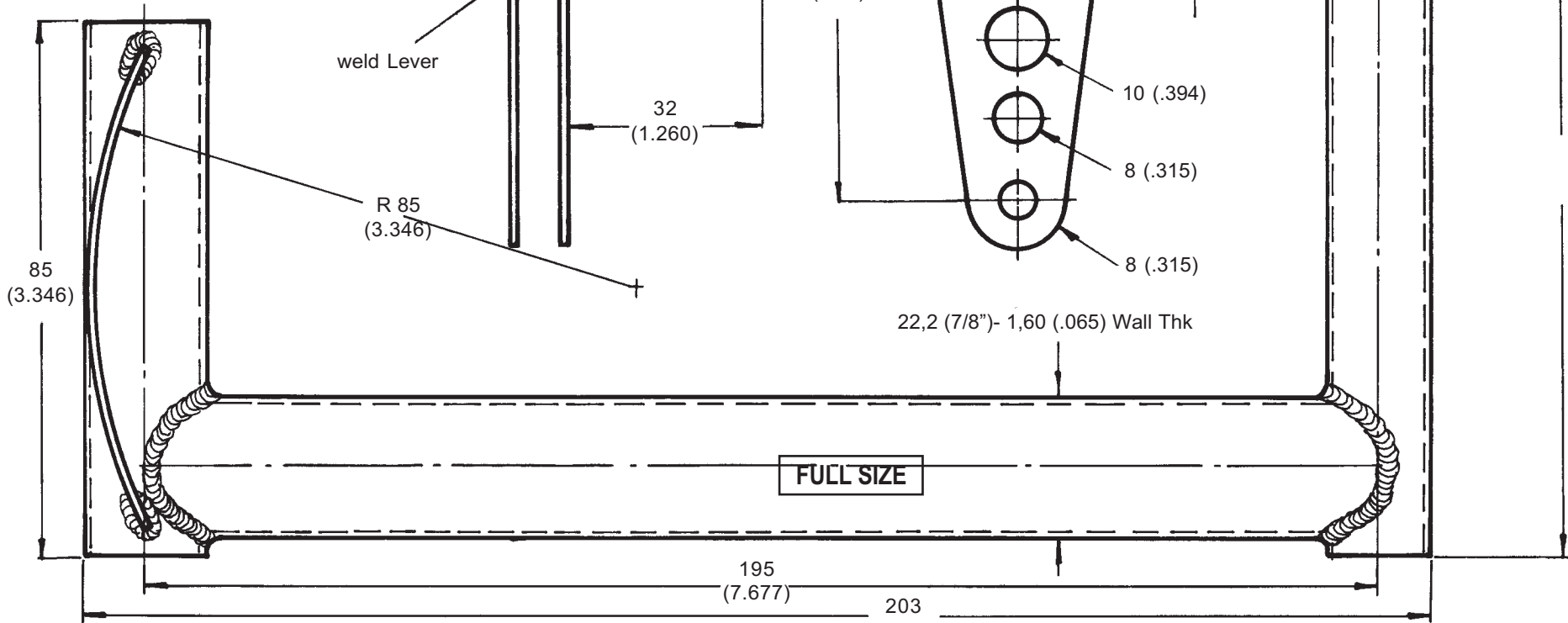


DETAIL A



Axle Threaded ends
Mat: Steel

FULL SIZE



LEVER

Mat: 4130 Steel 2 (.0787) Thk (2) req'd

LEFT PEDAL FRONT VIEW

DIRECTIONAL CONTROL PEDALS

NOTE: Left pedal is fixed to axle by Clevis Pin
Right pedal is free to rotate

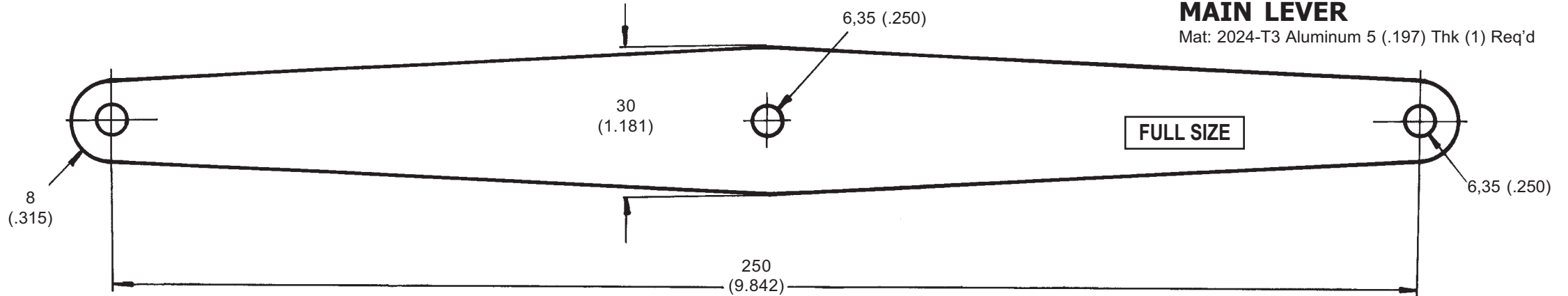
FURIA HELICOPTER -

CONTROL SYSTEM / PEDALS

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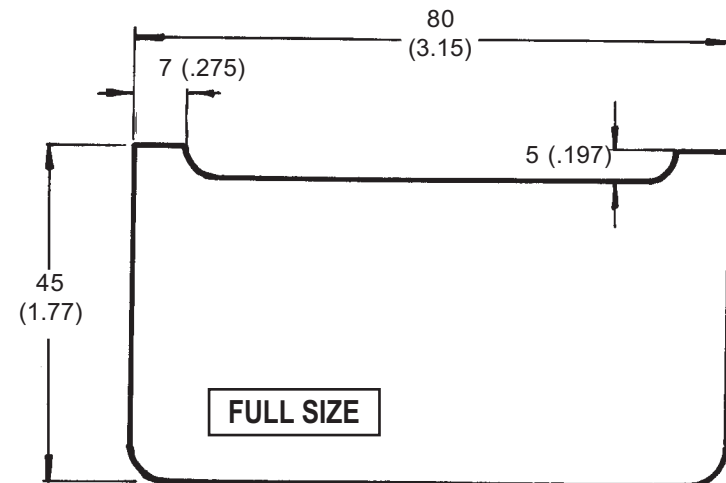
MAIN LEVER

Mat: 2024-T3 Aluminum 5 (.197) Thk (1) Req'd

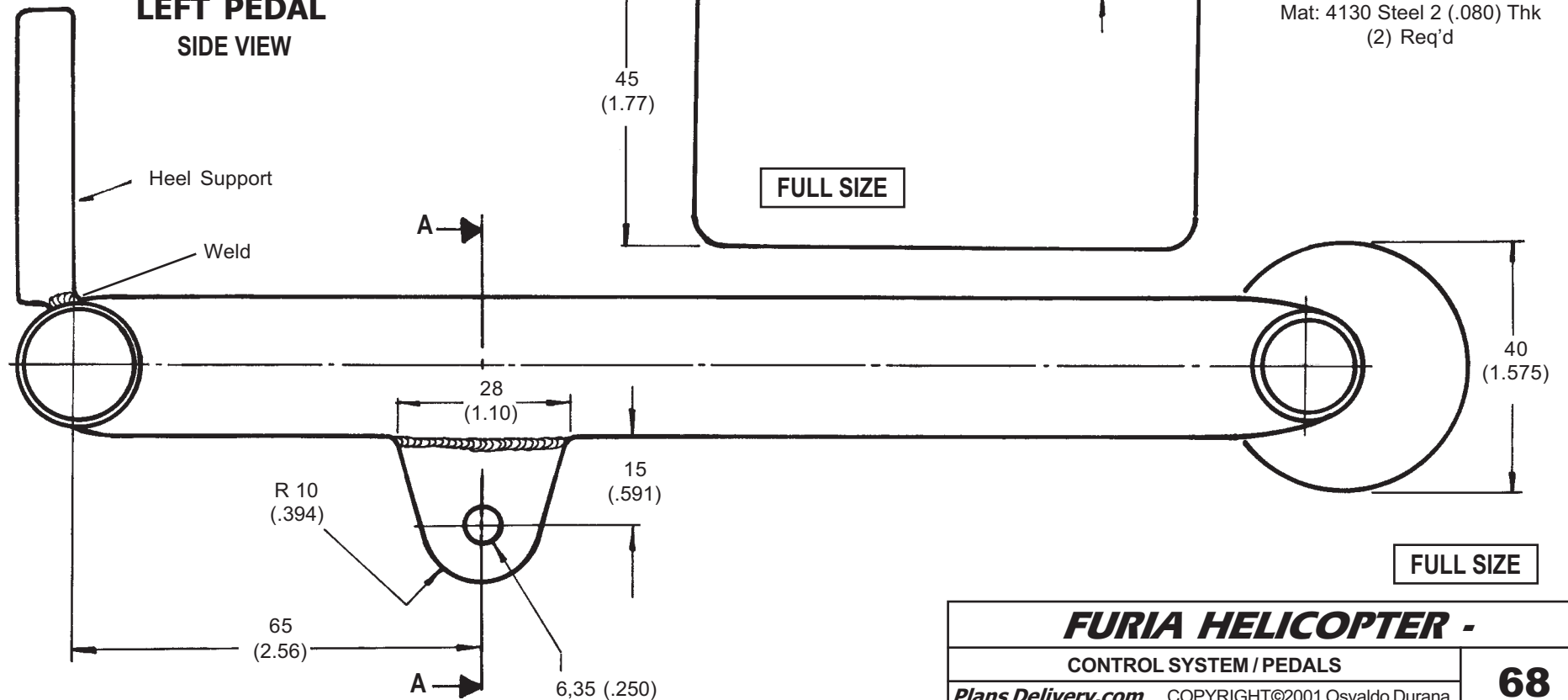


HEEL SUPPORT

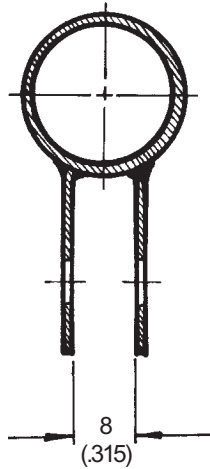
Mat: 4130 Steel 2 (.080) Thk (2) Req'd



LEFT PEDAL SIDE VIEW



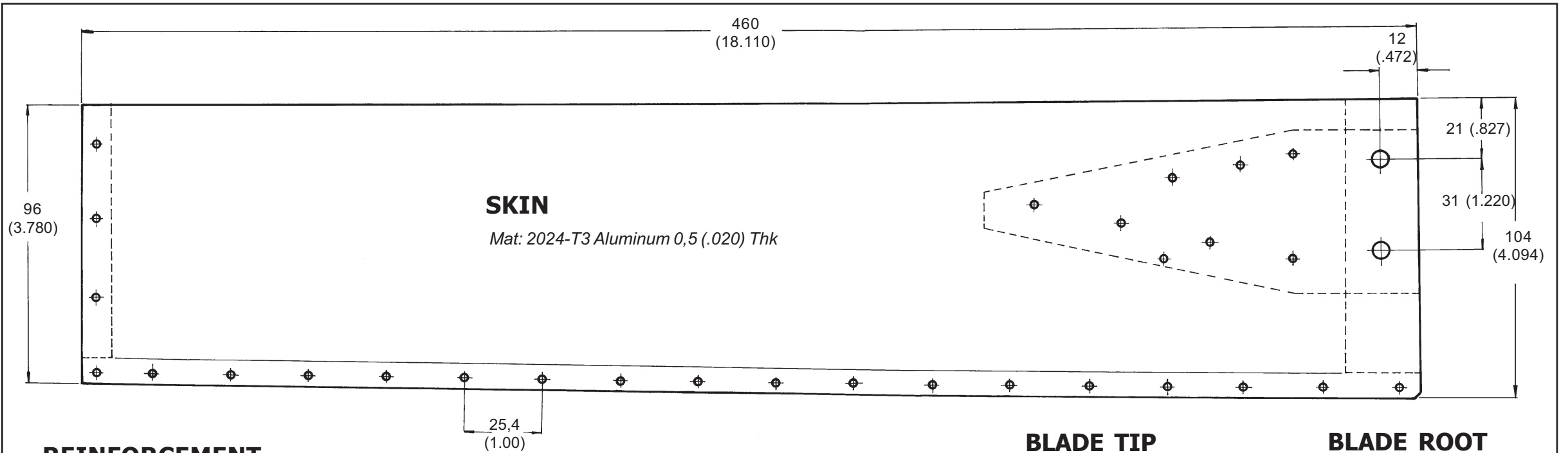
SECTION A-A



FURIA HELICOPTER -

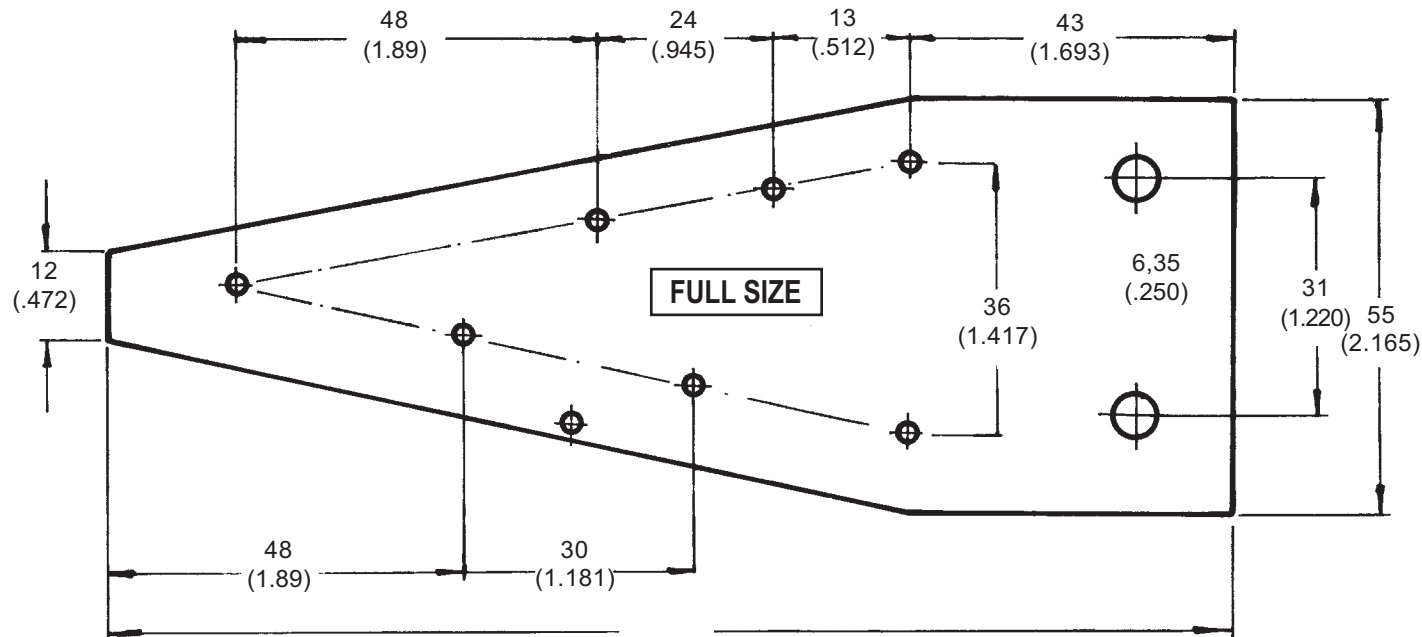
CONTROL SYSTEM / PEDALS

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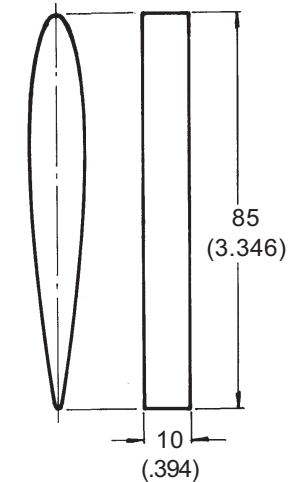
REINFORCEMENT

Mat: 2024-T3 Aluminum 0,5 (.020) Thk (4) Req'd One on each side (inner side only)



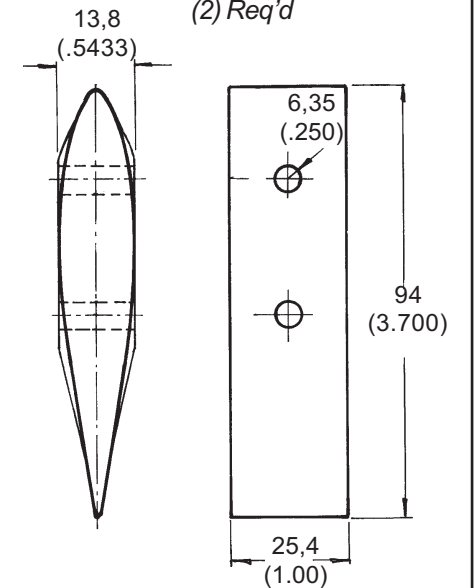
BLADE TIP

Mat: 2024-T3 Aluminum
 (2) Req'd

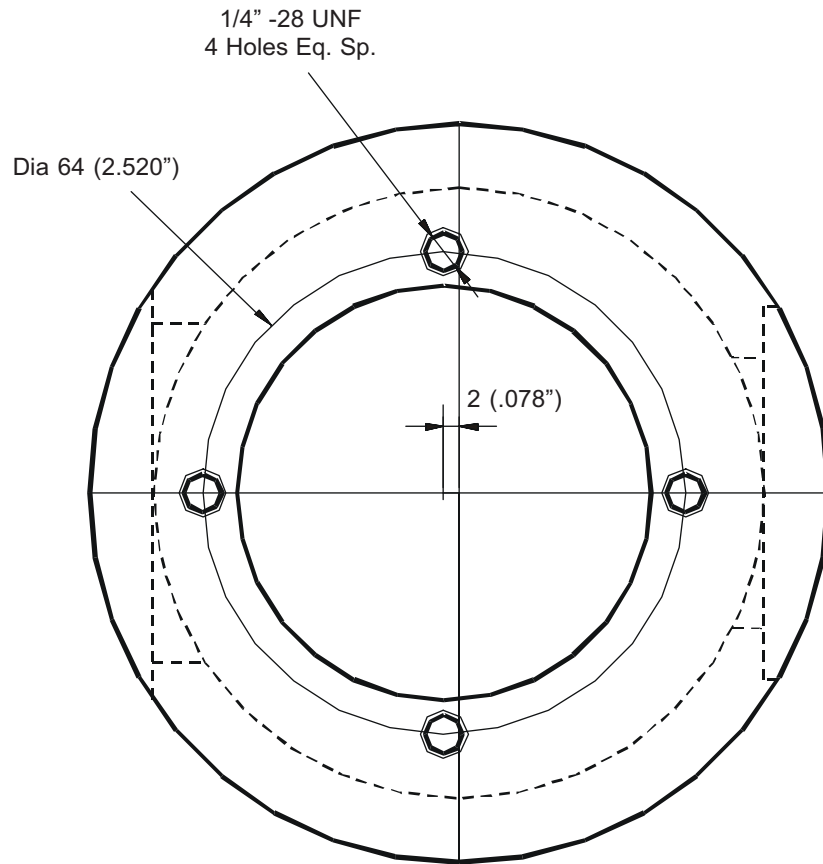


BLADE ROOT

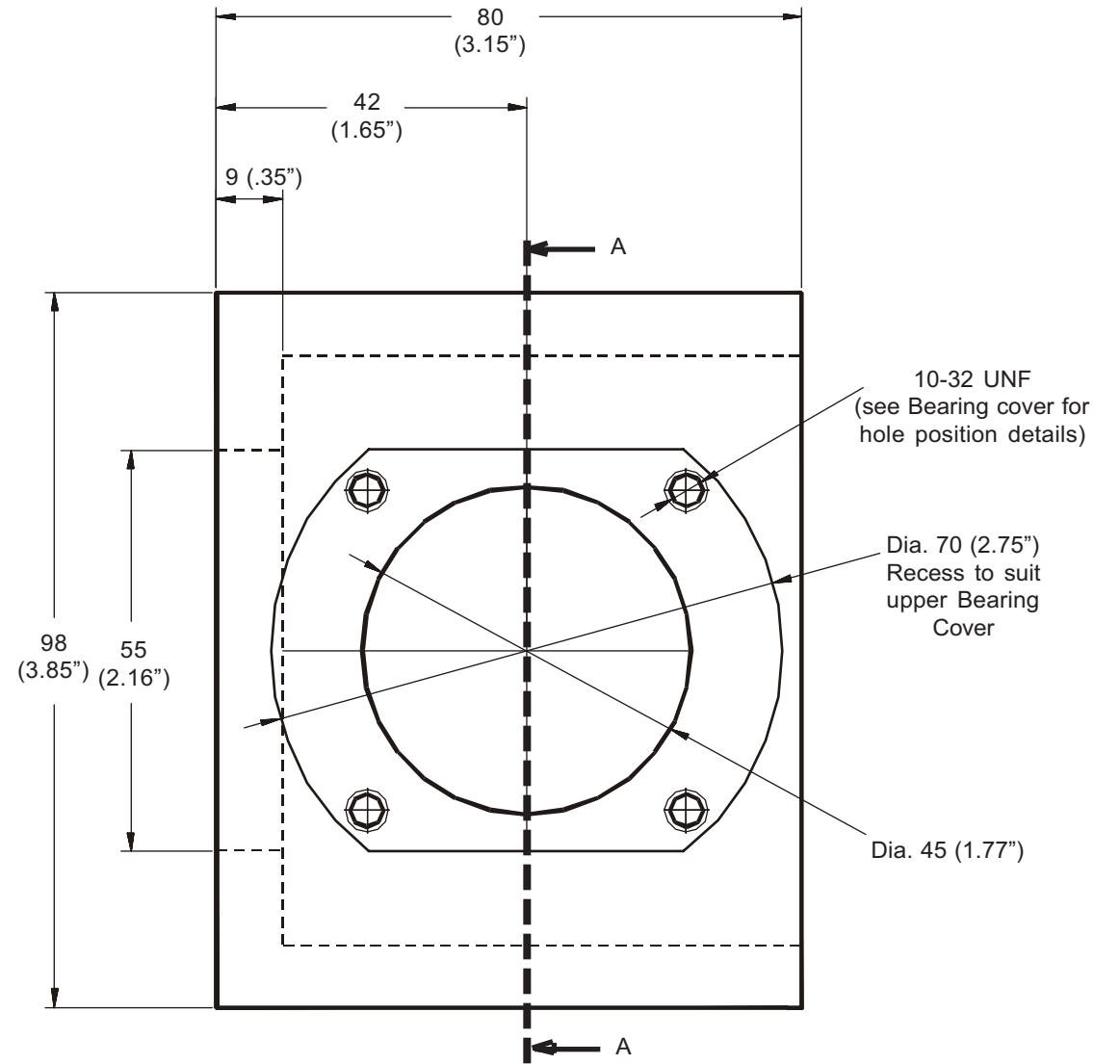
Mat: 2024-T3 Aluminum
 (2) Req'd



CENTRAL GEARBOX END VIEW



Material: Aluminum 1-Reqd.



TOP VIEW

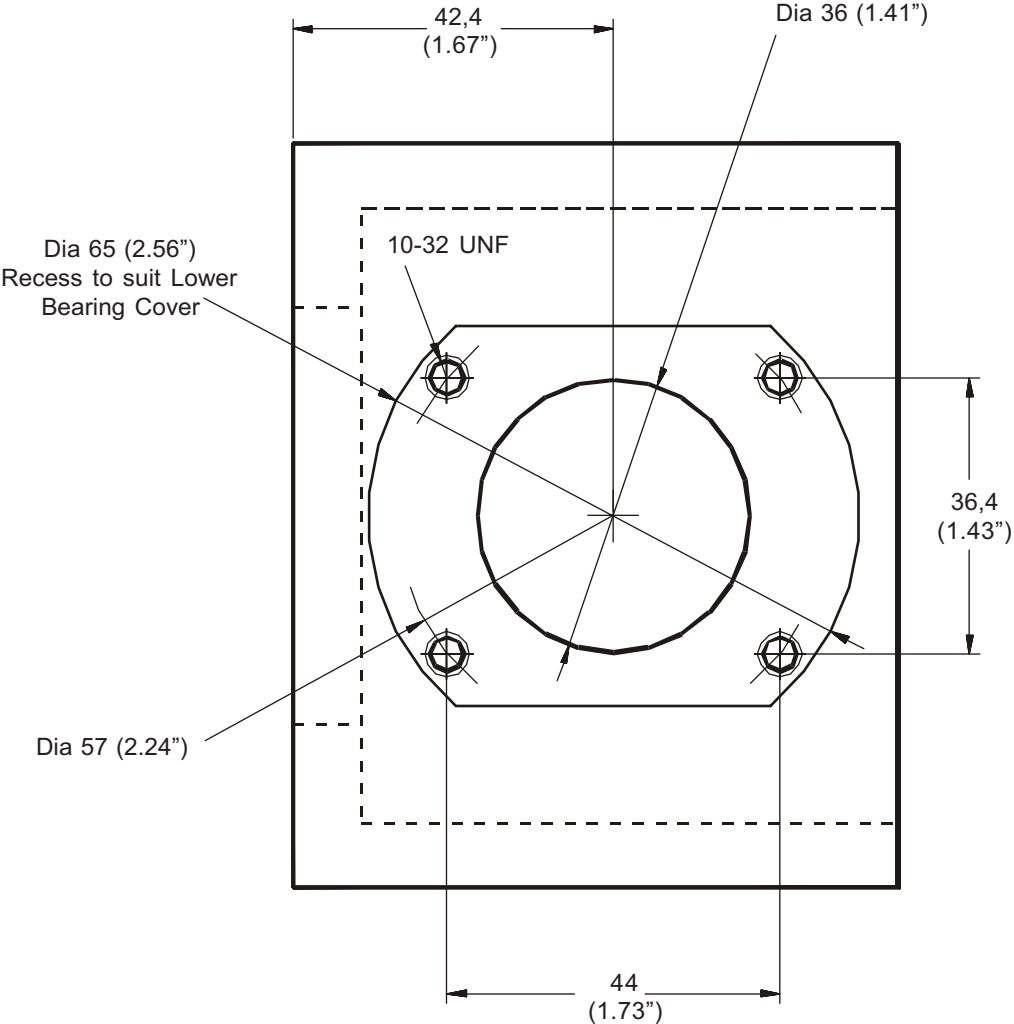
FURIA HELICOPTER -

CENTRAL GEARBOX

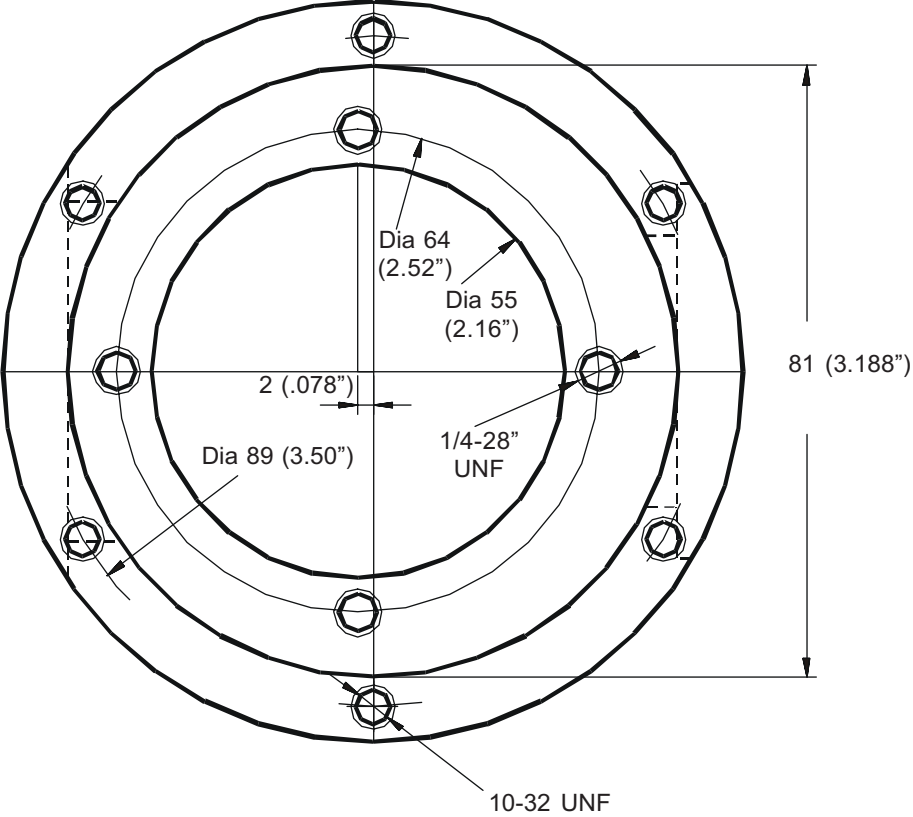
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**CENTRAL GEARBOX
BOTTOM VIEW**

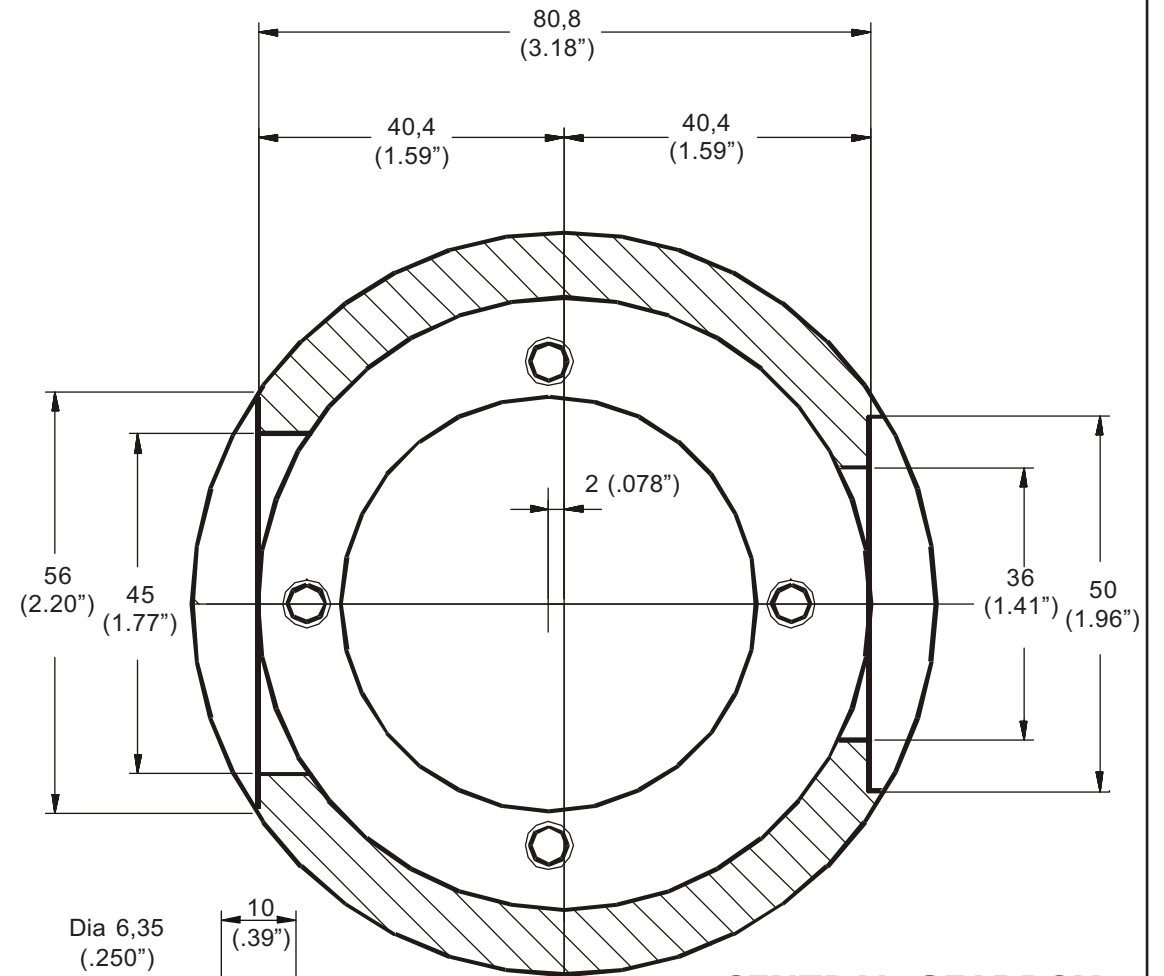
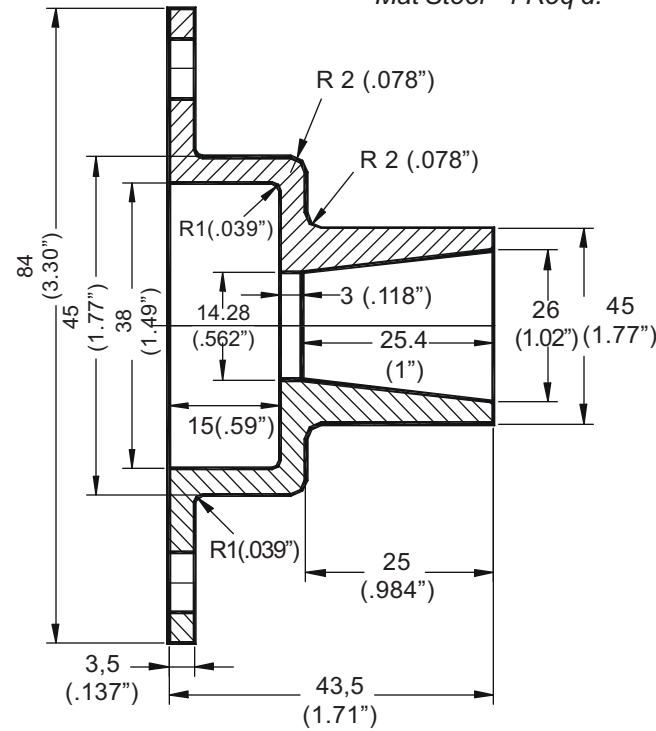
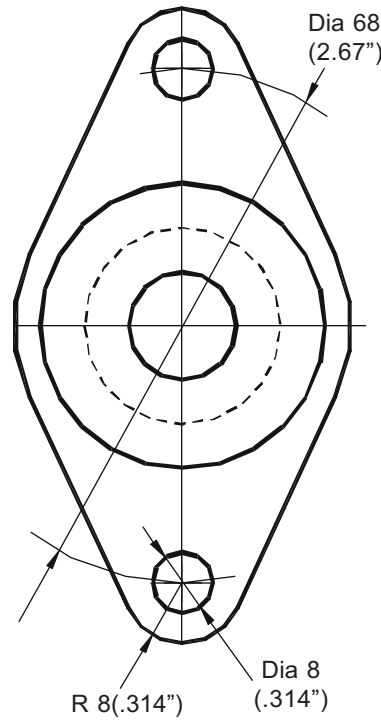


FRONT VIEW



COUPLING (Long Axle Central Gearbox)

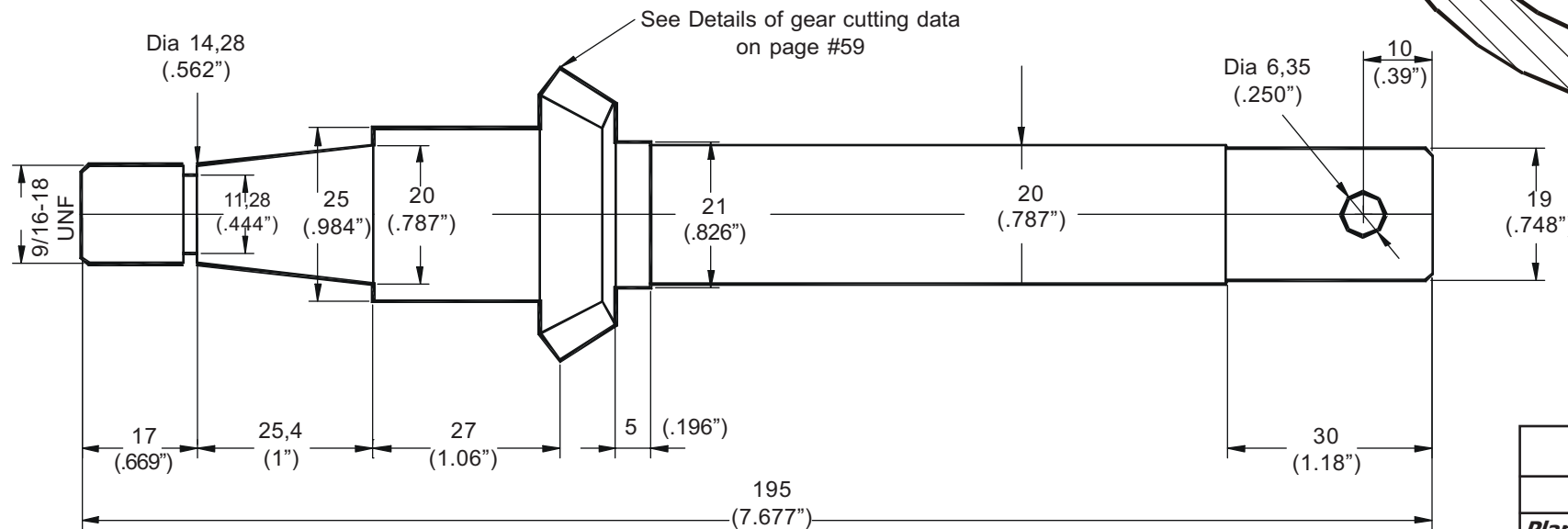
Mat Steel - 1 Req'd.



**CENTRAL GEARBOX
SECTION A-A**

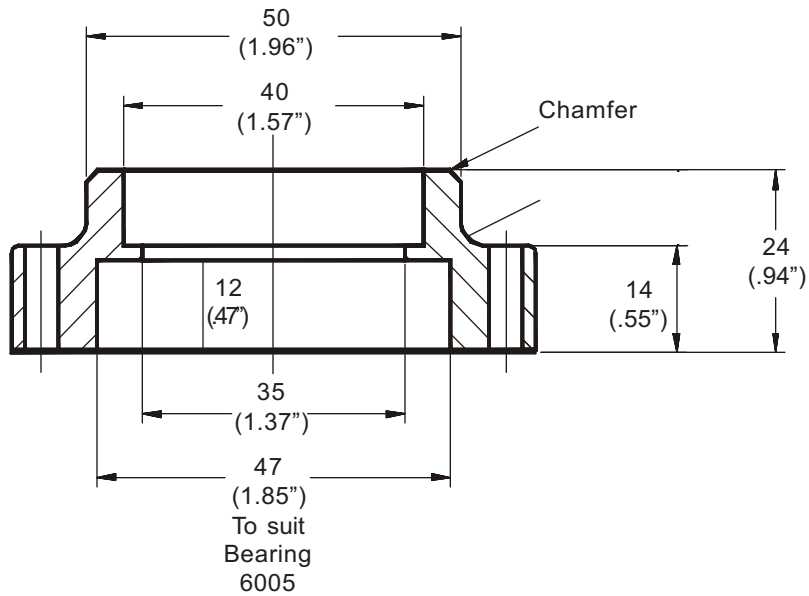
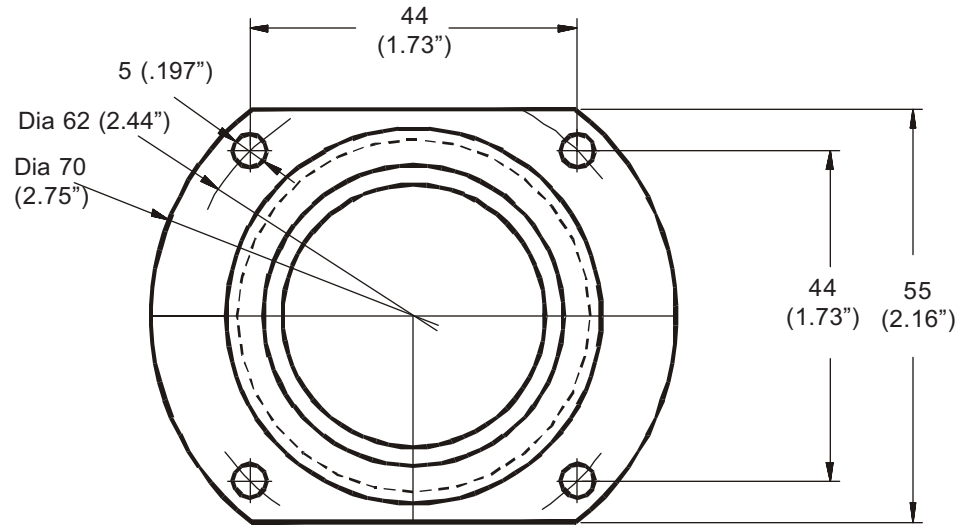
LONG AXLE

Mat Steel - 1 Req'd



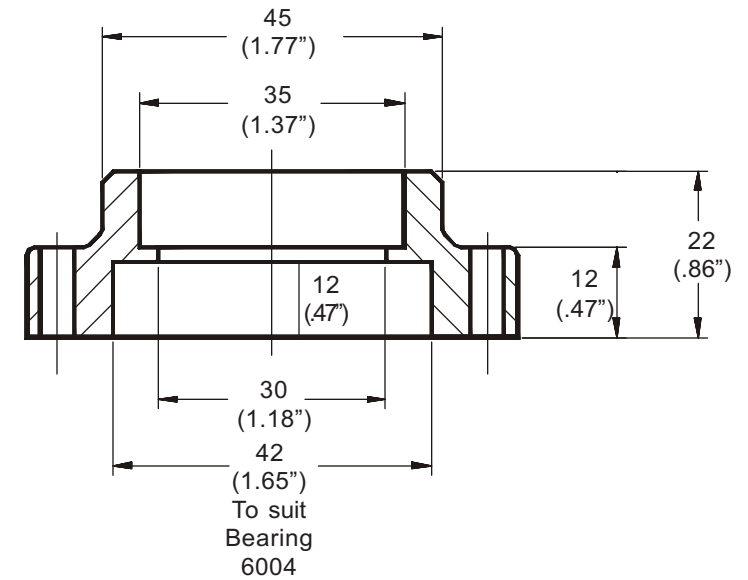
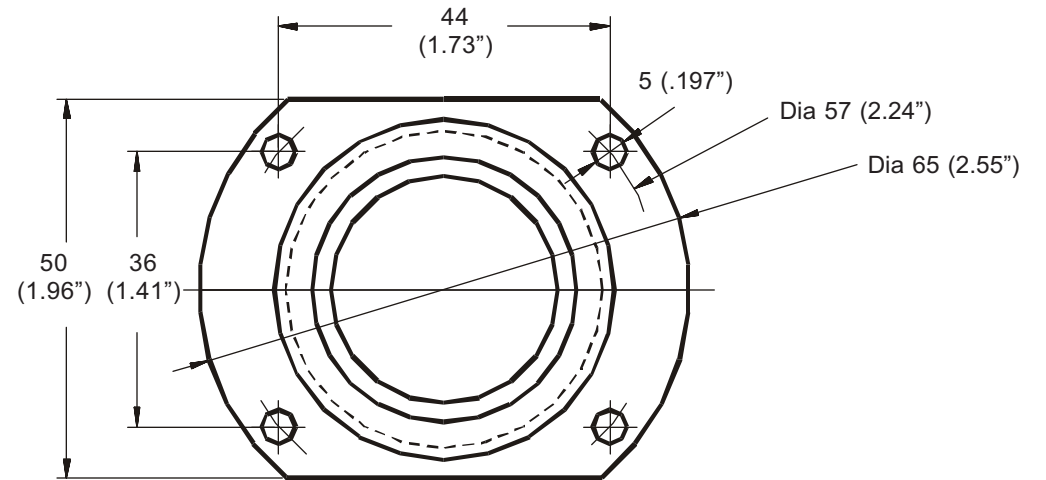
UPPER BEARING COVER

Material: Aluminum, 1 Reqd.



LOWER BEARING COVER

Material: Aluminum, 1 Reqd.

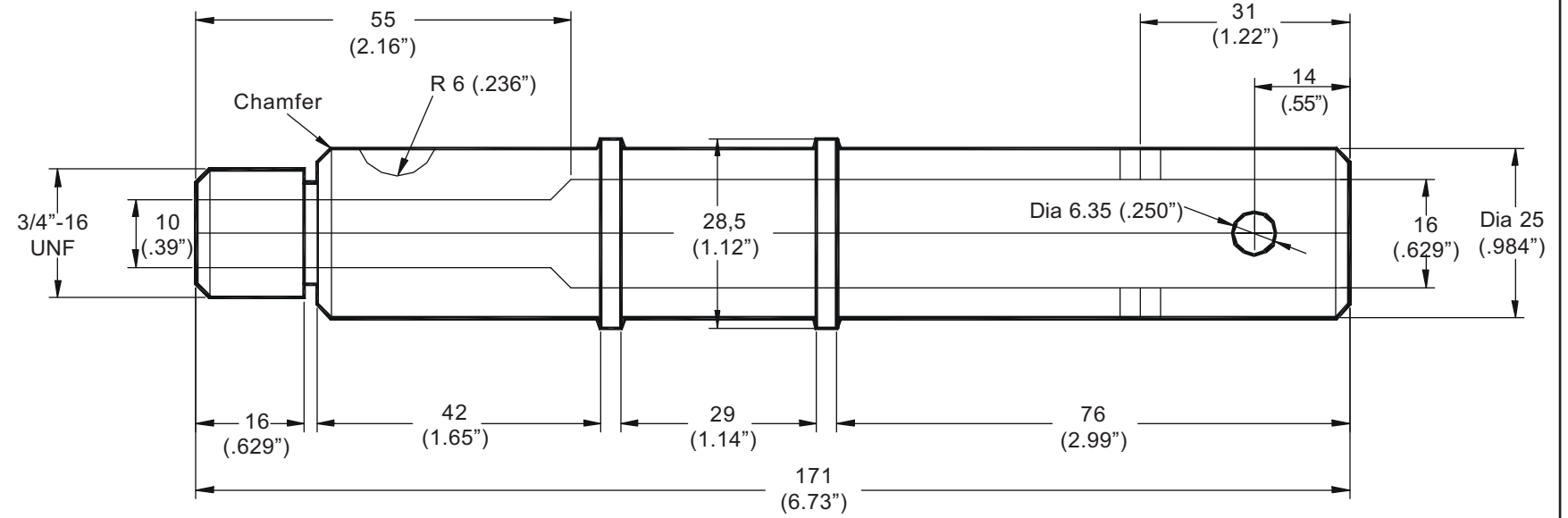


FURIA HELICOPTER -

CENTRAL GEARBOX BEARING COVERS

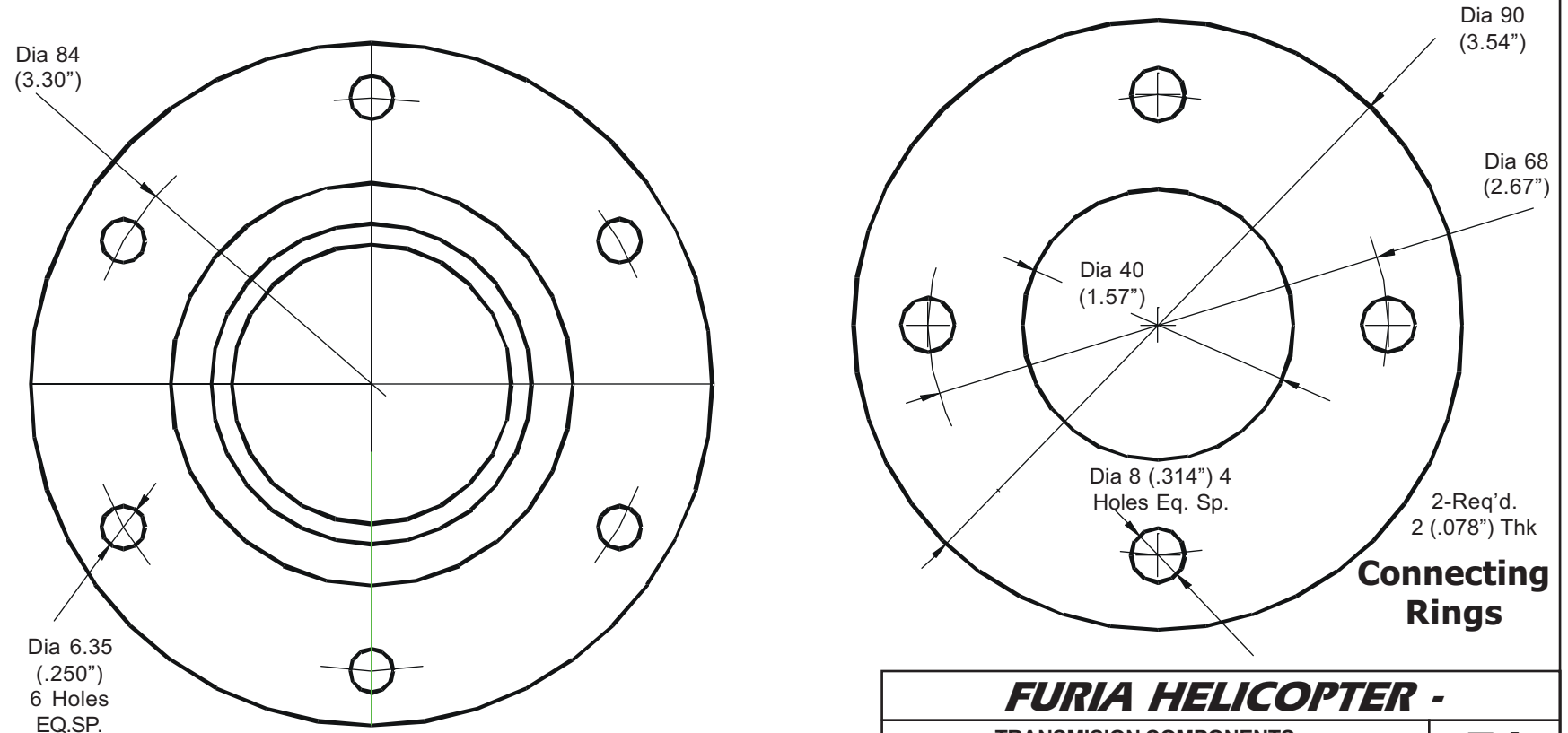
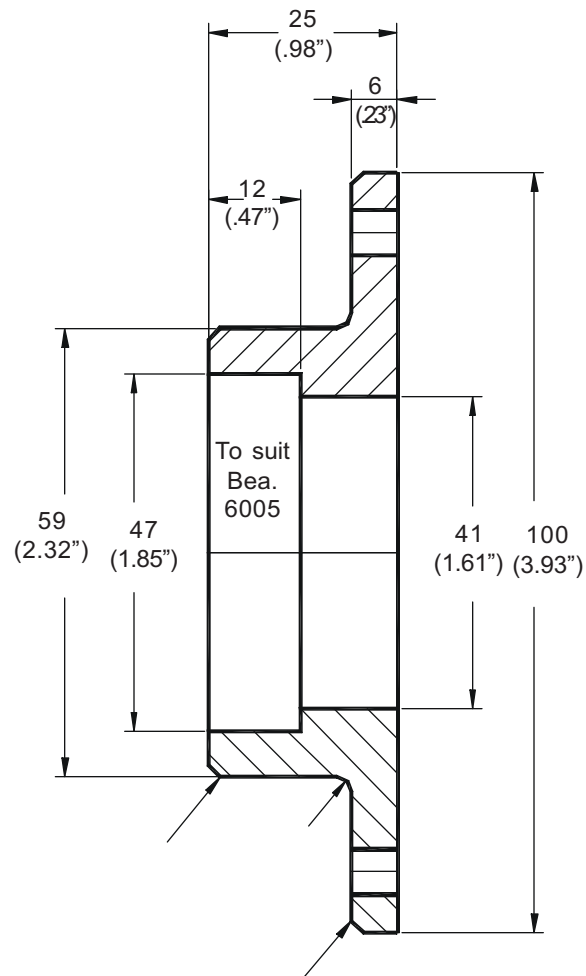
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MAIN ROTOR GEARBOX PINION AXLE



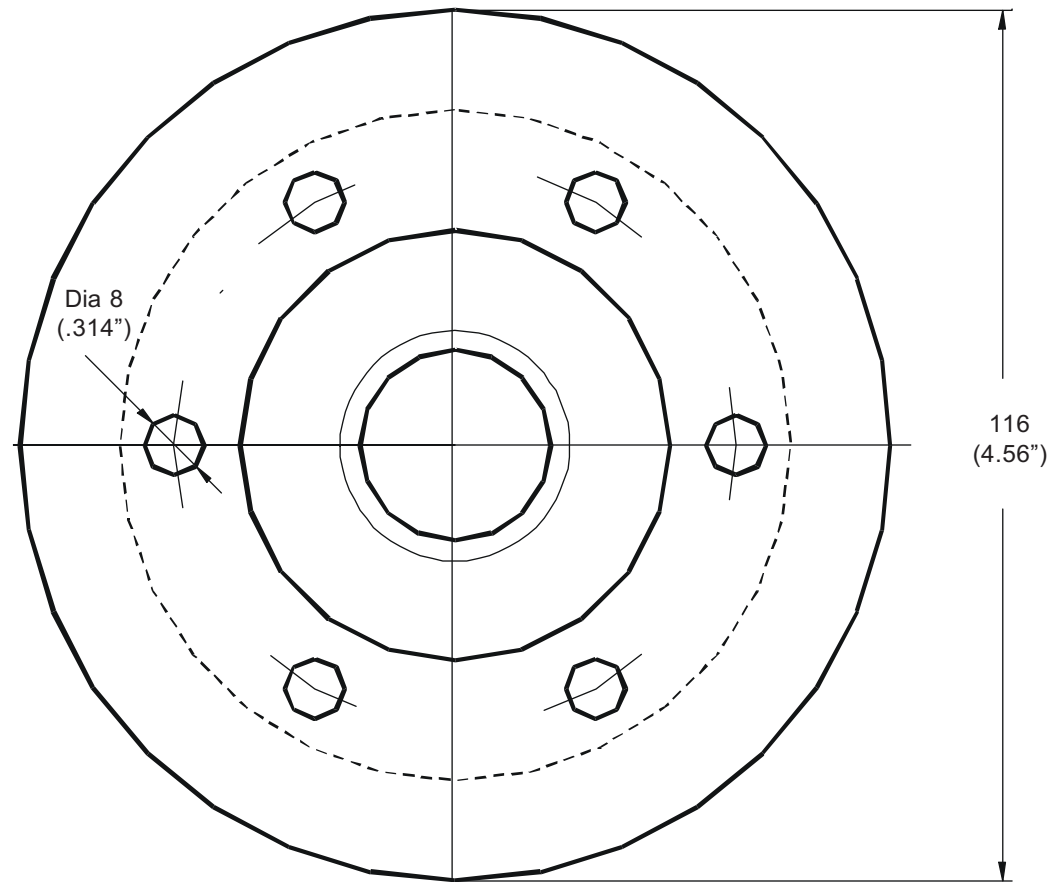
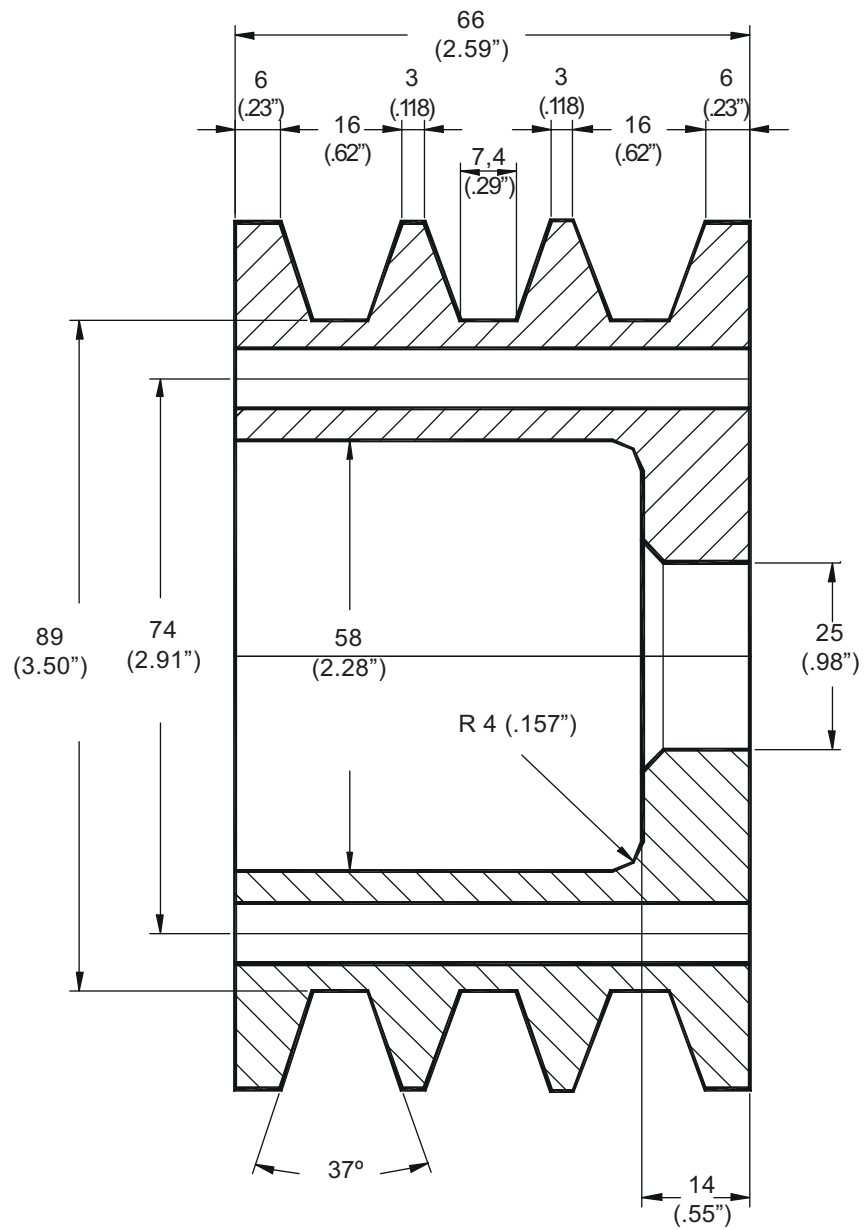
PULLEY SUPPORT

Mat. Aluminum 1 Req'd.



ENGINE PULLEY

Mat: Aluminum - 1 Req'd



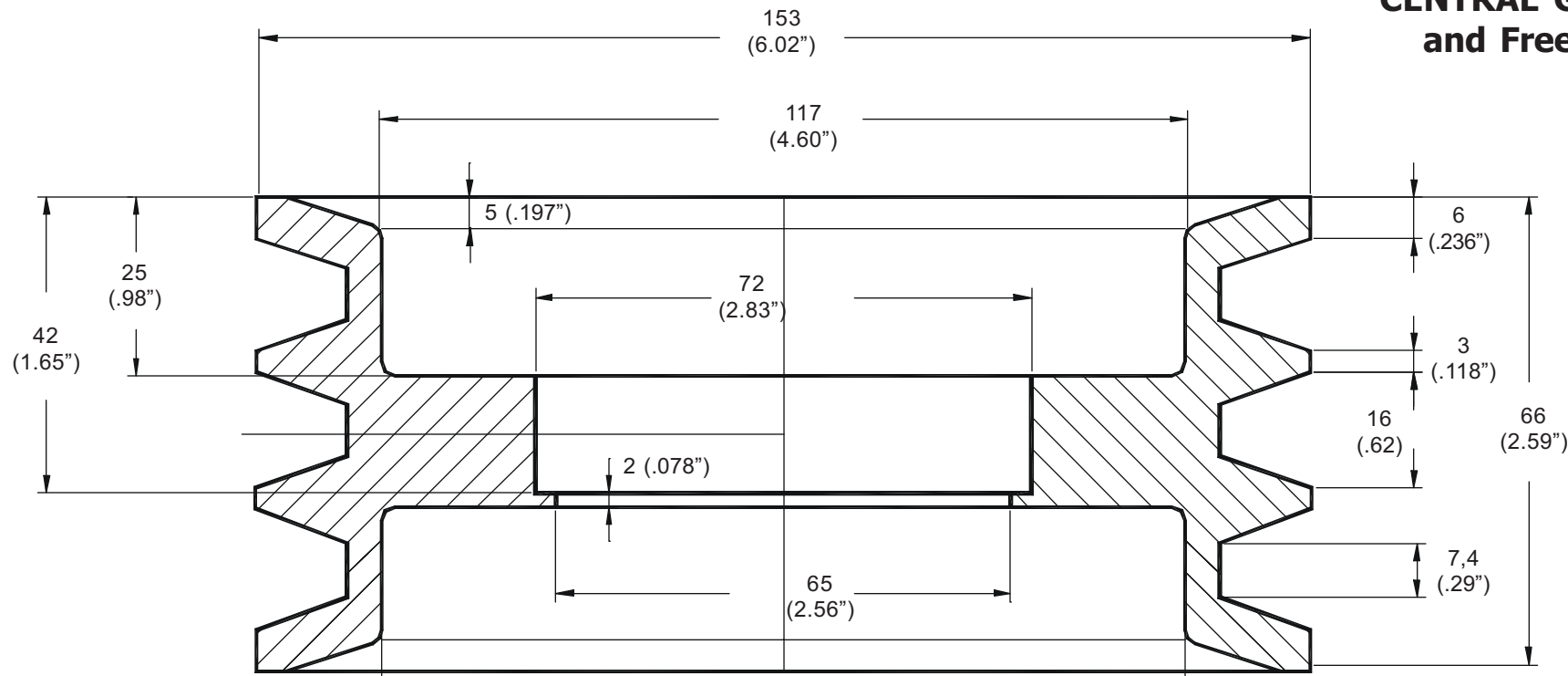
FURIA HELICOPTER -

TRANSMISSION - ENGINE PULLEY

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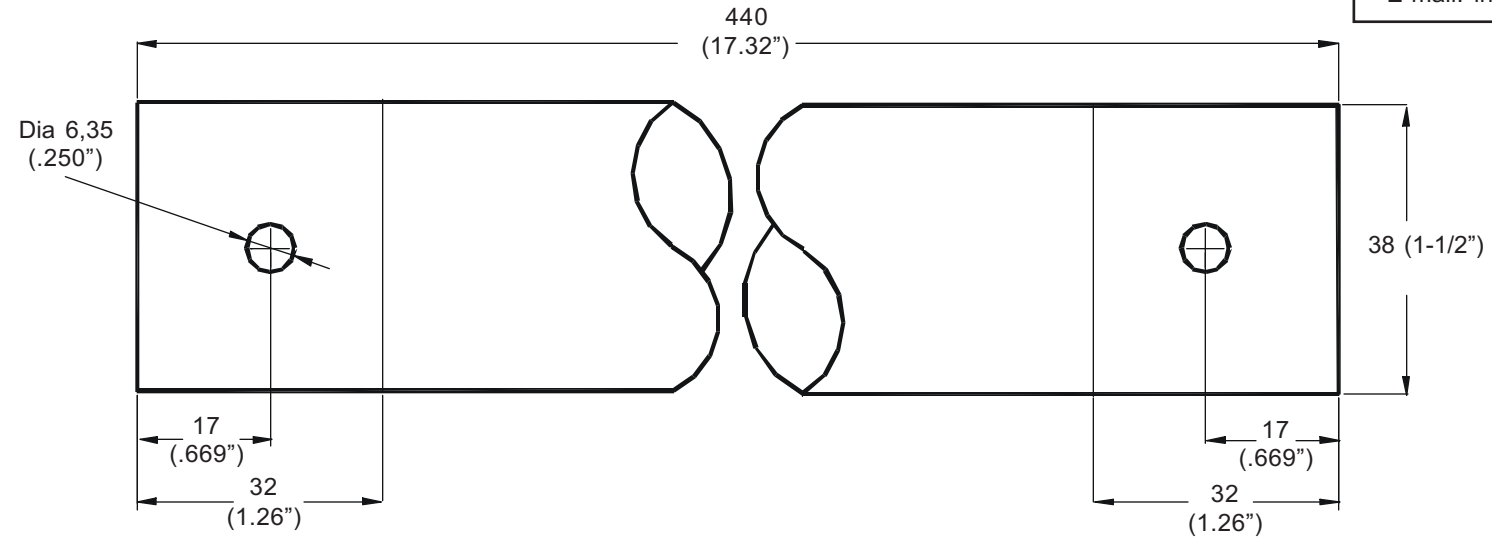
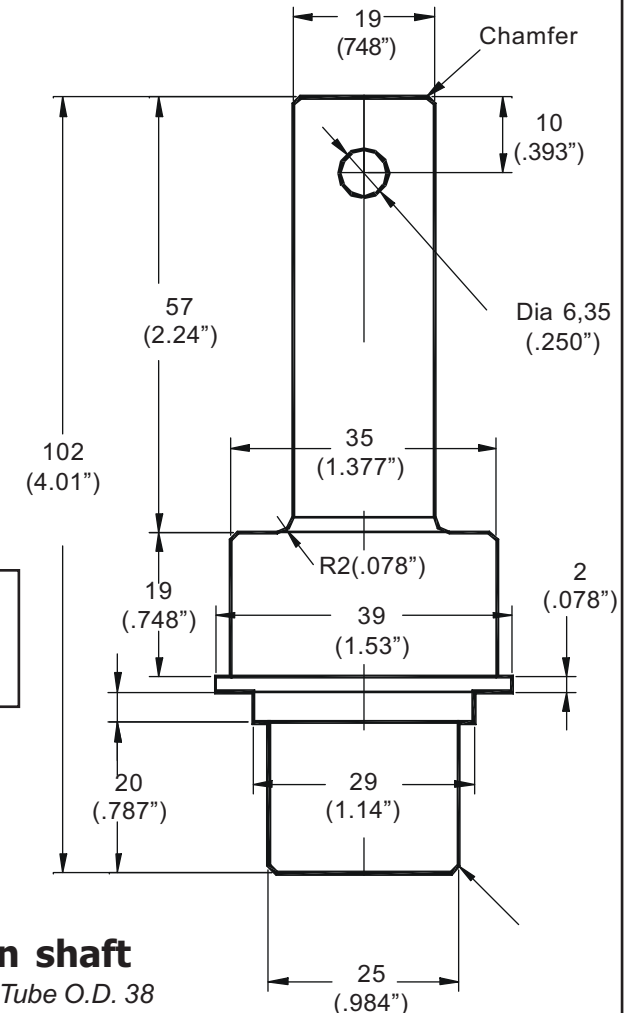
75

CENTRAL GEARBOX PULLEY and Freewheel housing



Freewheel:
Type 202-...-030 Size 35
Rexnord Antriebstechnik Dortmund
E-mail: info@rexnord-antrieb.de

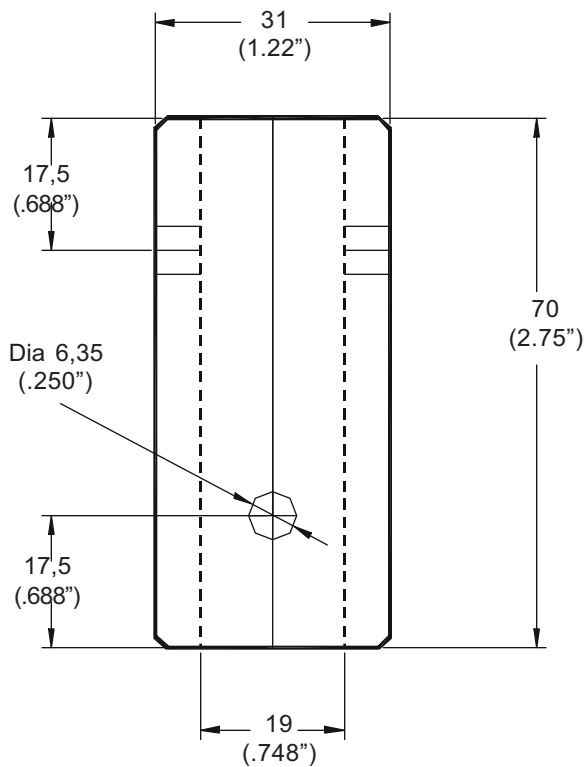
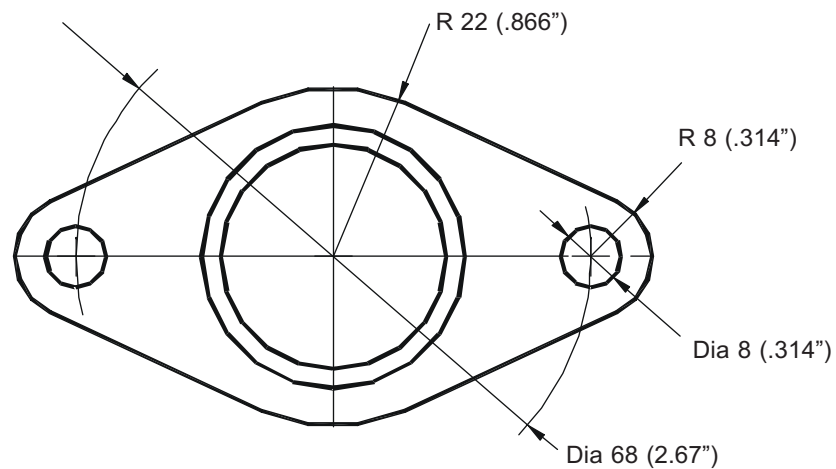
FREEWHEEL AXLE Mat: Steel 1req'd



Transmission shaft
Mat: 4130 Steel Tube O.D. 38
(1-1/2") Wall Thk. 1,6 (.065")
1 Req'd

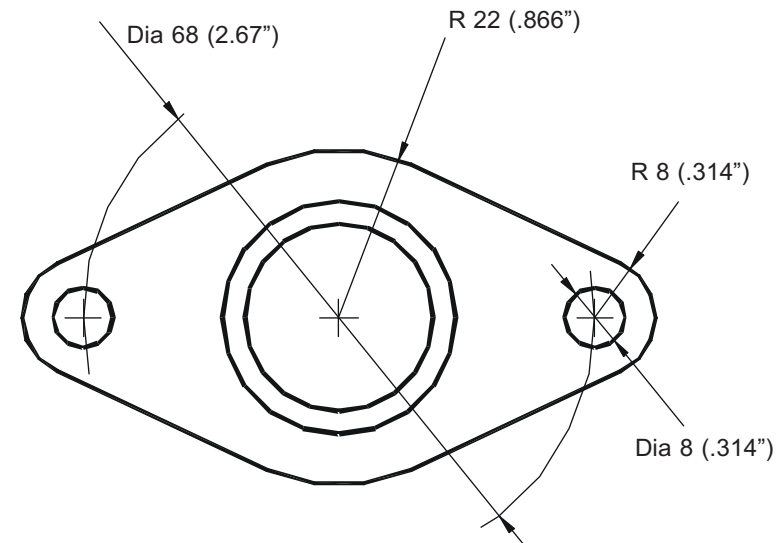
SHAFT COUPLINGS

Mat: Steel - 2 Req'd.



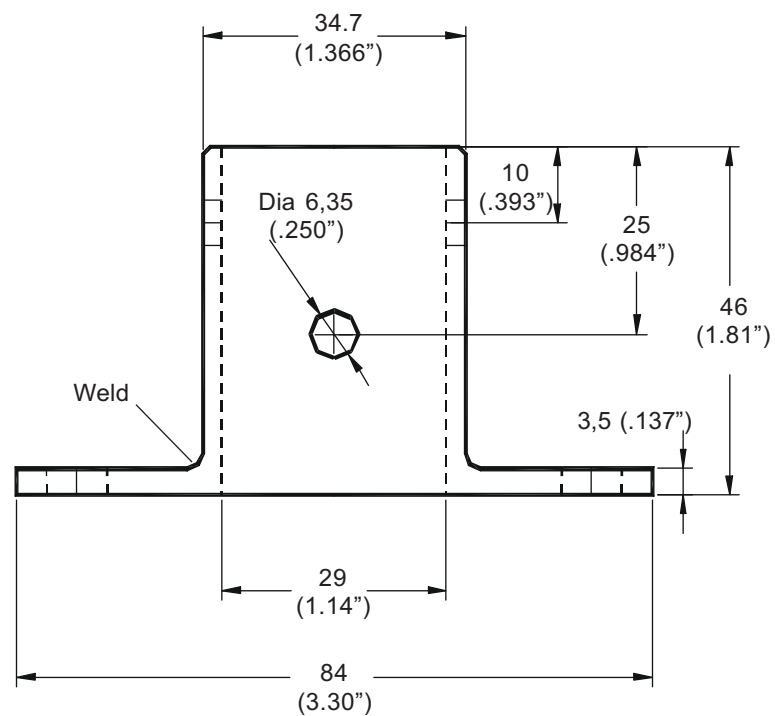
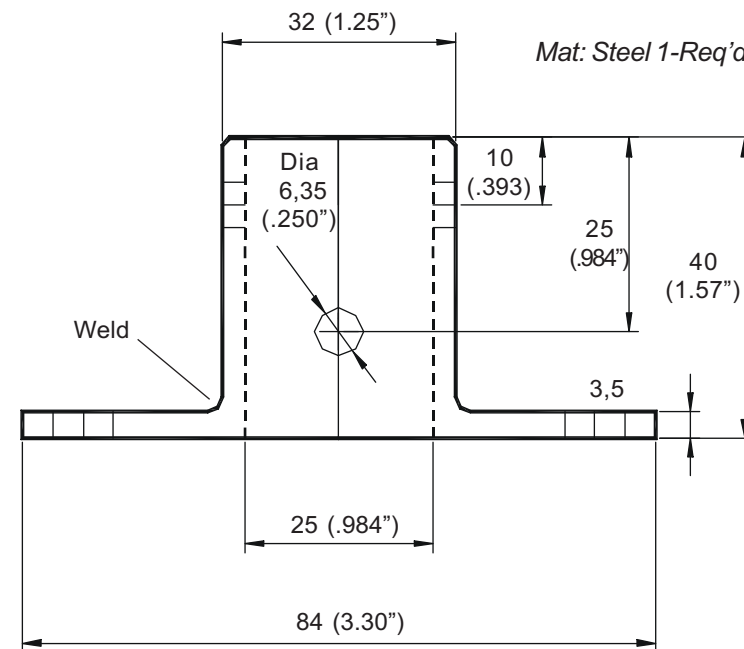
LONG/FREEWHEEL AXLE COUPLING

Mat Steel 1 req'd



MAIN ROTOR GEARBOX PINION AXLE COUPLING

Mat: Steel 1-Req'd



FURIA HELICOPTER -

TRANSMISSION COMPONENTS

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MAIN GEARBOX

Note: some elements have not been depicted to simplify views

MAST TUBE

PINION

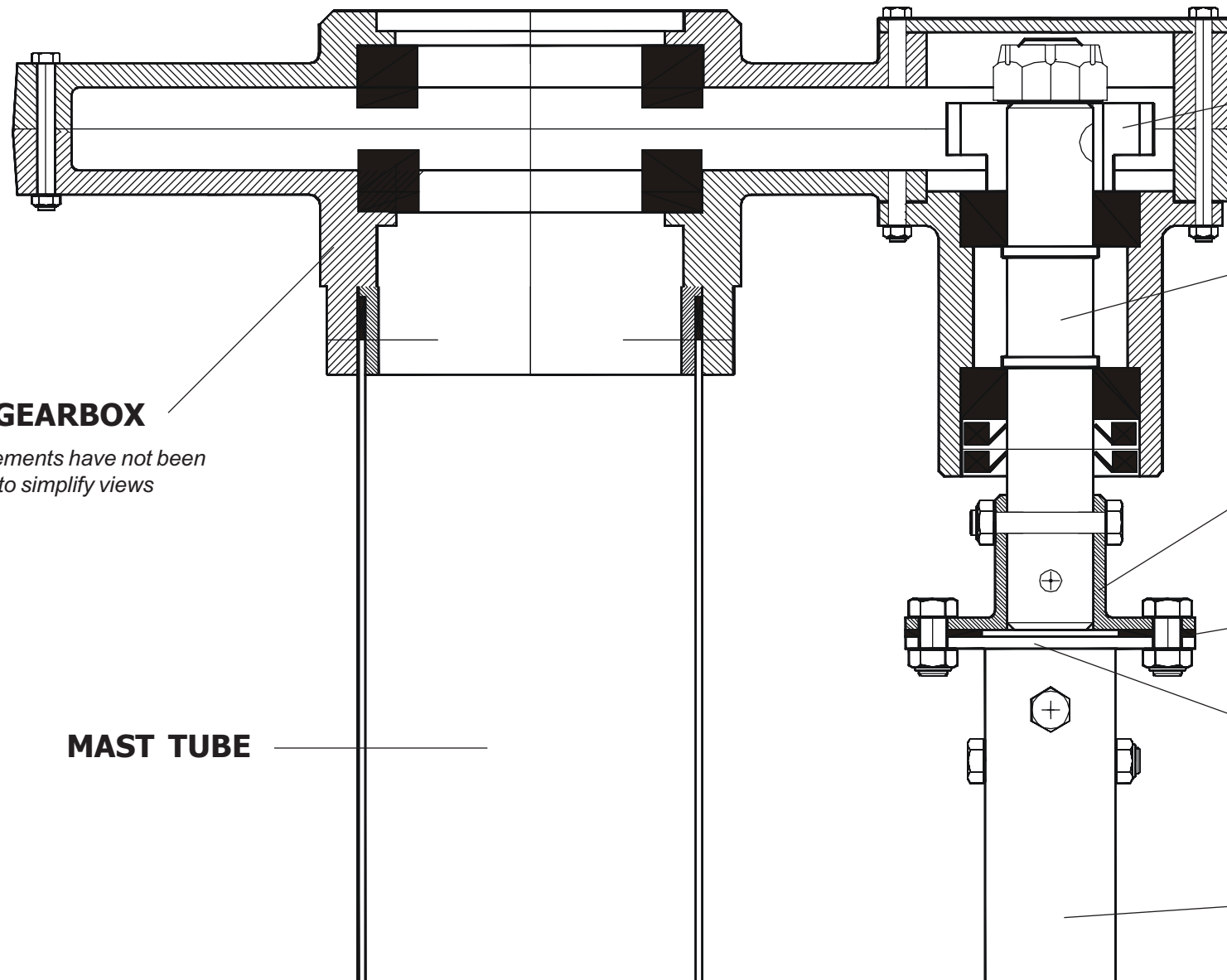
PINION AXLE

PINION AXLE COUPLING

CONNECTING DISK

SHAFT COUPLING

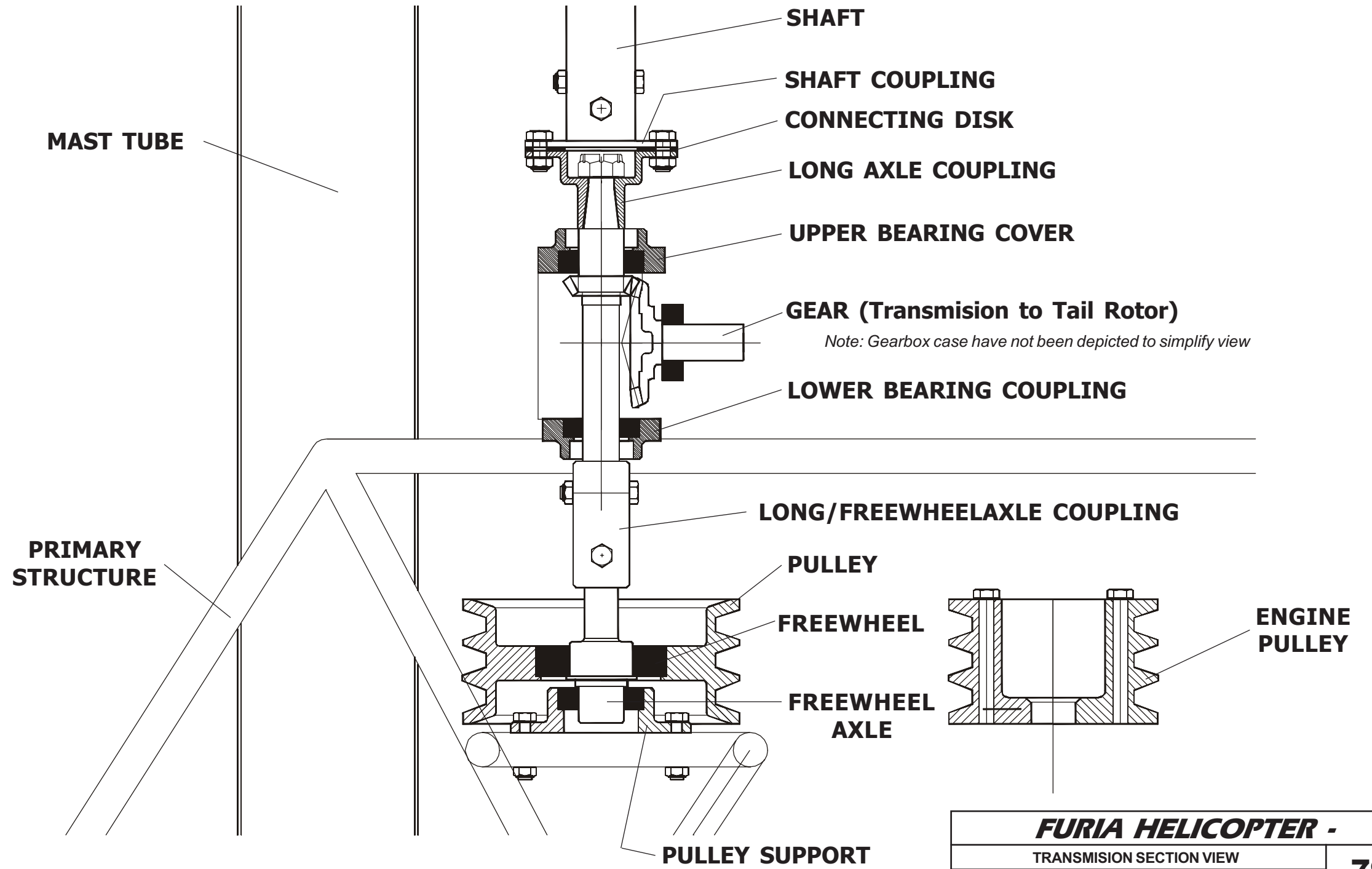
SHAFT



FURIA HELICOPTER -

TRANSMISSION SECTION VIEW

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