

FOLD

U.S. ARMY TANK - AUTOMOTIVE COMMAND
ATTN: AMSTA-GDS
WARREN, MICHIGAN 48397-5000

POSTAGE AND FEES PAID



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PENALTY FOR PRIVATE USE \$300

Commanding Officer
U.S. Army Tank-Automotive
Command
ATTN: AMSTA-GDS
Warren, Michigan 48397-5000

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* INCH-POUND *

KKK-R-2800
November 22, 1993

SUPERSEDING
MIL-R-23314F
8 August 1986

FEDERAL SPECIFICATION

RAILWAY CAR SPOTTER, SELF-PROPELLED, GED OR DED

This specification is approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

1. SCOPE

1.1 Scope. This specification covers a gasoline or diesel-engine-driven vehicle, with railway car couplers or a vehicle towing clevis, designed for operation on rails or on paved surfaces.

1.2 Classification. The railway car spotter shall be of the following type and class as specified (see 6.2.1).

Type I - Locomotive rail car
Type II - Truck-tractor

Class 1 - Gasoline engine driven
Class 2 - Diesel engine driven
Class 3 - Diesel engine driven, 30,000 pounds (lb) (13 608 kilograms (kg)), draw bar pull

2. APPLICABLE DOCUMENTS

2.1 Government documents.

*Beneficial comments (recommendations, additions, deletions) and any *
*pertinent data which may be of use in improving this document should be *
*addressed to: Commanding Officer (Code 156), Naval Construction Battalion *
*Center, 1000 23rd Avenue, Port Hueneme, CA 93043-4301, by using the *
*Standardization Document Improvement Proposal (DD Form 1426) appearing at *
*the end of this document or by letter. *

FSC 2210

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

MIL-STD-100G

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. The requirements contained herein apply to hardcopy drawings, digital data file(s), associated lists and textual data resulting from the contractual application of DOD-D-1000, MIL-DTL-31000 or MIL-T-47500.

6.1.1 Applicability. The current document specifying engineering drawings as a technical data package element is MIL-DTL-31000. DOD-D-1000 and MIL-T-47500 are inactive for new design.

6.2 Acquisition requirements.

6.2.1 Issue of DODISS. When this standard is used in acquisition, the applicable issue of the DODISS must be cited in the solicitation (see 2.1.1, and 2.2).

6.2.2 Tailoring guidance. To ensure proper application, MIL-STD-100G and ASME Y14.100M must be tailored to exclude unnecessary requirements. It is essential that the contractual applicability of the numerous referenced documents, as contained in these two standards, especially regarding basic practices, be as definitive as practicable. Any tailoring of MIL-STD-100G and ASME Y14.100M must also be consistent with MIL-DTL-31000, TDP Option Selection Worksheets. Although the manner and extent of such tailoring will vary in accordance with program or end-item requirements, the following is provided as a minimum for consideration in acquisition documents:

TAILORING**A. Drawing Media (Choose all that apply)**

- | | |
|---------------------------------|--------------------------|
| (1) Non-digital (Specify_____) | <input type="checkbox"/> |
| (2) Digital Data (Specify_____) | <input type="checkbox"/> |
| (3) Other (Specify_____) | <input type="checkbox"/> |

B. Drawing Format (Choose One)

- | | |
|---------------------------------------------------|--------------------------|
| (1) Contractor | <input type="checkbox"/> |
| (2) Government (forms supplied by the Government) | <input type="checkbox"/> |
| (3) Government (forms supplied by the Contractor) | <input type="checkbox"/> |

C. Drawing Sheet Size (and Format) (Choose One)

- | | |
|-----------------|--------------------------|
| (1) ASME Y14.1 | <input type="checkbox"/> |
| (2) ASME Y14.1M | <input type="checkbox"/> |

MIL-STD-100G

D. Drawing Reference to MIL-STD-100 (4.1.1) (Choose all that apply)

- (1) Reference to MIL-STD-100 will not appear on drawing
- (2) Reference to MIL-STD-100 will be made on drawing
- (3) Reference to MIL-STD-100 to include applicable revision level
- (4) Reference to MIL-STD-100 to include applicable revision level and notices

E. Application Data (Choose all that apply)

- (1) Contractor option
- (2) Required
- (a) On drawing
- (b) By reference. Specify _____
- (c) Contractor option
- (3) General use or multi-use notations
- (a) allowed
- (b) not allowed

F. Drawing Detail (ASME Y14.24M) (Choose all that apply)

- (1) Monodetail
- (2) Multidetail
- (3) Tabulated

G. Dimensioning and Tolerancing (Choose all that apply)

- (1) Metric
- (2) Decimal-inch
- (3) Application of ASME Y14.5M
- (a) Specific issue (revision) required (Specify issue _____)
- (b) Issue in effect (Specify issue _____)

H. Drawing Notes (Choose One)

- (1) On drawing
- (2) By reference. Specify _____
- (3) Contractors option

I. Types of Drawings (ASME Y14.24M and Chapter 200) (Choose one)

- (1) Contractor selects
- (2) Government selects

MIL-STD-100G

J. Maintenance of Multi-Sheet Drawings (ASME Y14.35M)

(Choose all that apply)

- (1) Drawing revision level (DOD preferred)
- (2) All sheets same revision level
- (3) Sheet revision level

K. Redrawn Drawings (redrawing without change) (ASME Y14.35M) (Choose one)

- (1) Advance revision level
- (2) Revision level is not advanced

L. Maintenance of Revision History (Choose all that apply)

- (1) Contractor option
- (2) Optional methods
- (a) Remove one or more revision record as required
- (b) Remove all previous revision history
- (c) Remove all revision history but retain line entry for revision authorization and date of revision
- (d) Remove all except revision preceding current
- (e) Maintain revision history in its entirety

M. Adding Sheets (ASME Y14.35M) (Choose all that apply)

- (1) Contractor option
- (2) Optional methods
- (a) Renumber sheet using consecutive whole numbers
- (b) Number added sheets in decimal-number sequence
- (c) Number added sheets in alpha-numeric sequence

N. Deleting Sheets (ASME Y14.35M) (Choose all that apply)

- (1) Contractor option
- (2) Optional methods
- (a) Renumber all affected remaining sheets
- (b) Affected remaining sheets not renumbered (revision status of sheets block is updated with notations such as CANC or DEL)

O. Markings on Engineering Drawings (Choose one)

- (1) Special items and processes apply
- (a) Applicable symbols (Specify _____)
- (b) Applicable special notes (Specify _____)
- (2) Special items and processes do not apply

MIL-STD-100G

P. Associated Lists (ASME Y14.34M) (Choose all that apply)

- (1) Non-digital (Specify_____)
- (2) Digital Data (Specify_____)
- (3) Other (Specify_____)

Q. Types of Associated Lists (ASME Y14.34M) (Choose all that apply)

- (1) Parts Lists
 - (a) Integral
 - (b) Separate
 - (c) Contractors option
- (2) Data Lists
- (3) Index Lists
- (4) Other (Specify_____)

R. Angle of Projection (ASME Y14.3M) (Choose one)

- (1) 3rd Angle
- (2) 1st Angle

S. Language (Choose one)

- (1) English required
- (2) Other (as specified)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced documents(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:	1. DOCUMENT NUMBER MIL-STD-100G	2. DOCUMENT DATE (YYMMDD) 970609
3. DOCUMENT TITLE Engineering Drawing Practices		
4. NATURE OF CHANGE (<i>Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.</i>)		
5. REASON FOR RECOMMENDATION		
6. SUBMITTER		
a. NAME (<i>Last, First, Middle Initial</i>)	b. ORGANIZATION	
c. ADDRESS (<i>Include Zip Code</i>)	d. TELEPHONE (<i>Include Area Code</i>) (1) Commercial (2) AUTOVON (<i>if applicable</i>)	7. DATE SUBMITTED (YYMMDD)
8. PREPARING ACTIVITY		
a. NAME U. S. Army TACOM-ARDEC	b. TELEPHONE (<i>Include Area Code</i>) (1) Commercial (2) AUTOVON (201) 724-6671 880-6671	
c. ADDRESS (<i>Include Zip Code</i>) ATTN: AMSTA-AR-EDE-S, B-12 Picatinny Arsenal, NJ 07806-5000	IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT: Defense Quality and Standardization Office 5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041-3466 Telephone (703) 756-2340 AUTOVON 289-2340	

NOT MEASUREMENT
SENSITIVE

MIL-HDBK-404
12 June 1990
SUPERSEDING
TACOM PAMPHLET
DRSTA-RP-702-114
September 1982

MILITARY HANDBOOK
CALCULATION AND DESIGN OF
MASTER GEARS

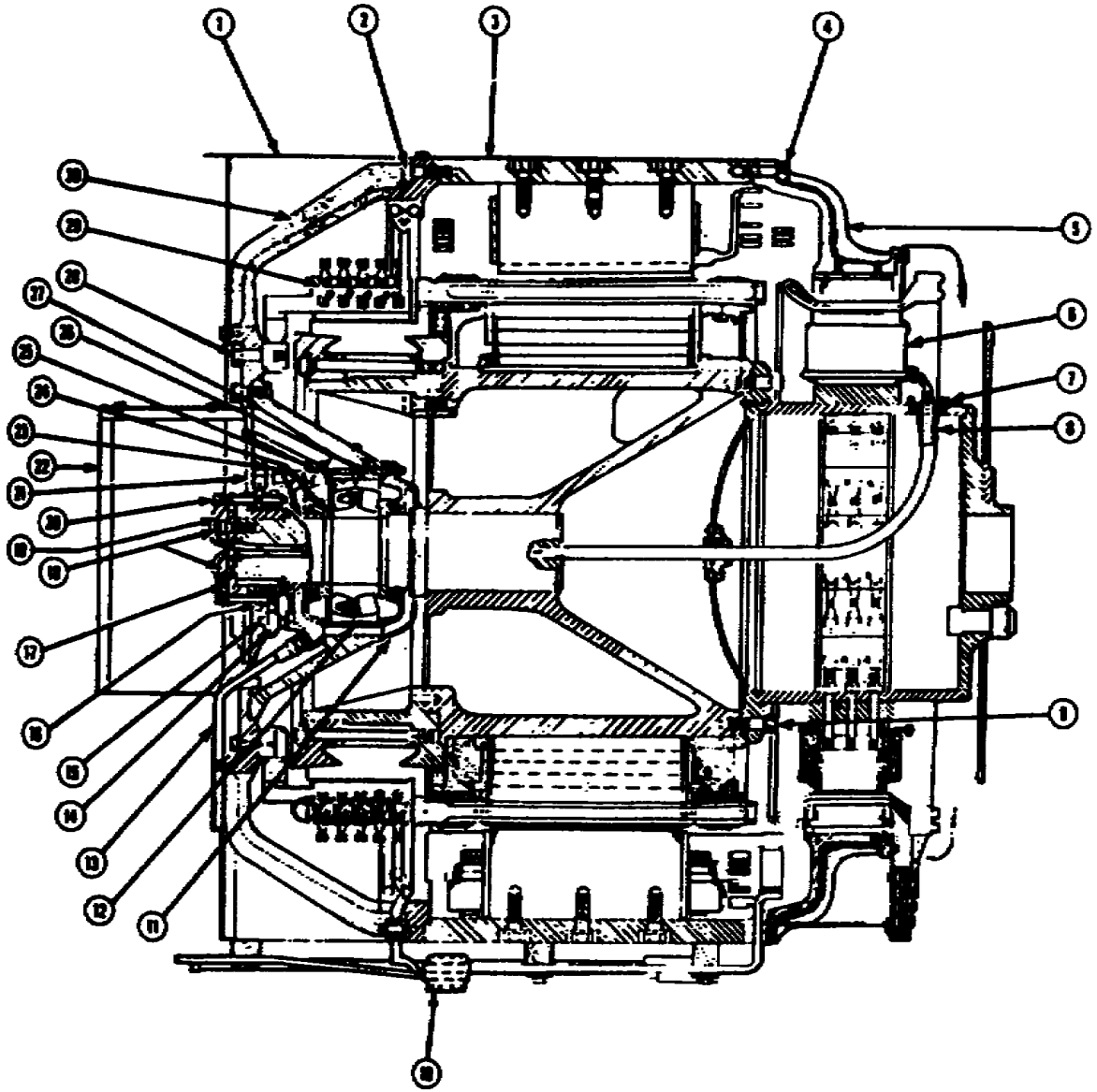


AMSC N/A

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unlimited.

Approved for public release; distribution is

AREA QCIC



- | | | | |
|-------------------------|-----------------------|----------------------|-------------------------------|
| 1 Commutator covers | 9 Rotor nuts | 17 Plate | 25 Bearing cover |
| 2 Generator frame bolts | 10 Bolted connections | 18 Bolts | 26 Spline nut |
| 3 Main generator frame | 11 Bearing cap | 19 Lead | 27 Bearing housing |
| 4 Bolts | 12 Bearing outer race | 20 Terminal post | 28 Brush holder mounting bolt |
| 5 AC Stator end frame | 13 Drain pipe | 21 Ac brush holders | 29 Commutator brushes |
| 6 Rotor poles | 14 Slip ring brushes | 22 Guard assembly | 30 End housing |
| 7 Steel flange | 15 Studs | 23 Sleeve | |
| 8 Fibre bushing | 16 Slip ring | 24 Outer oil thrower | |

Figure 2.7. Main Generator.

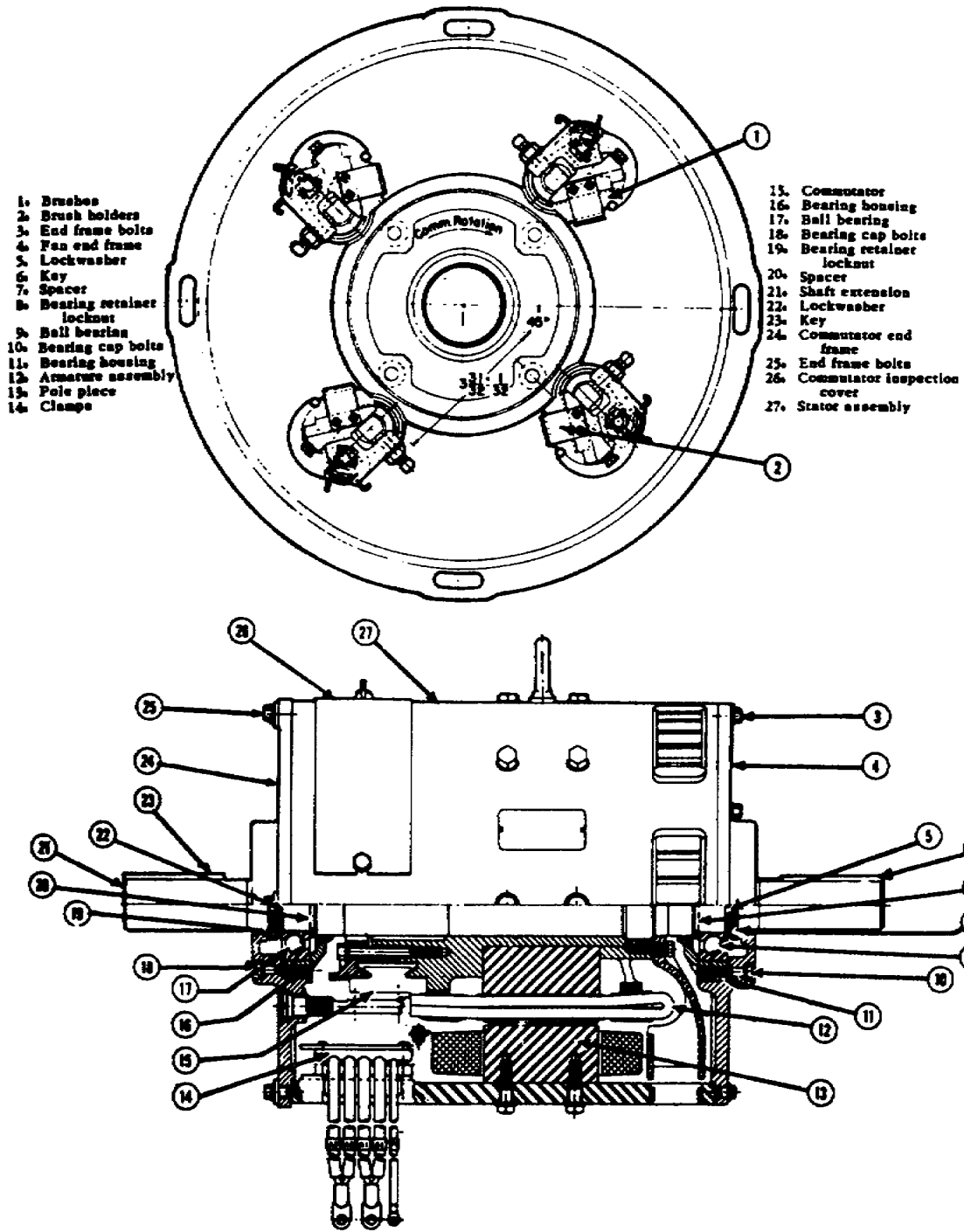
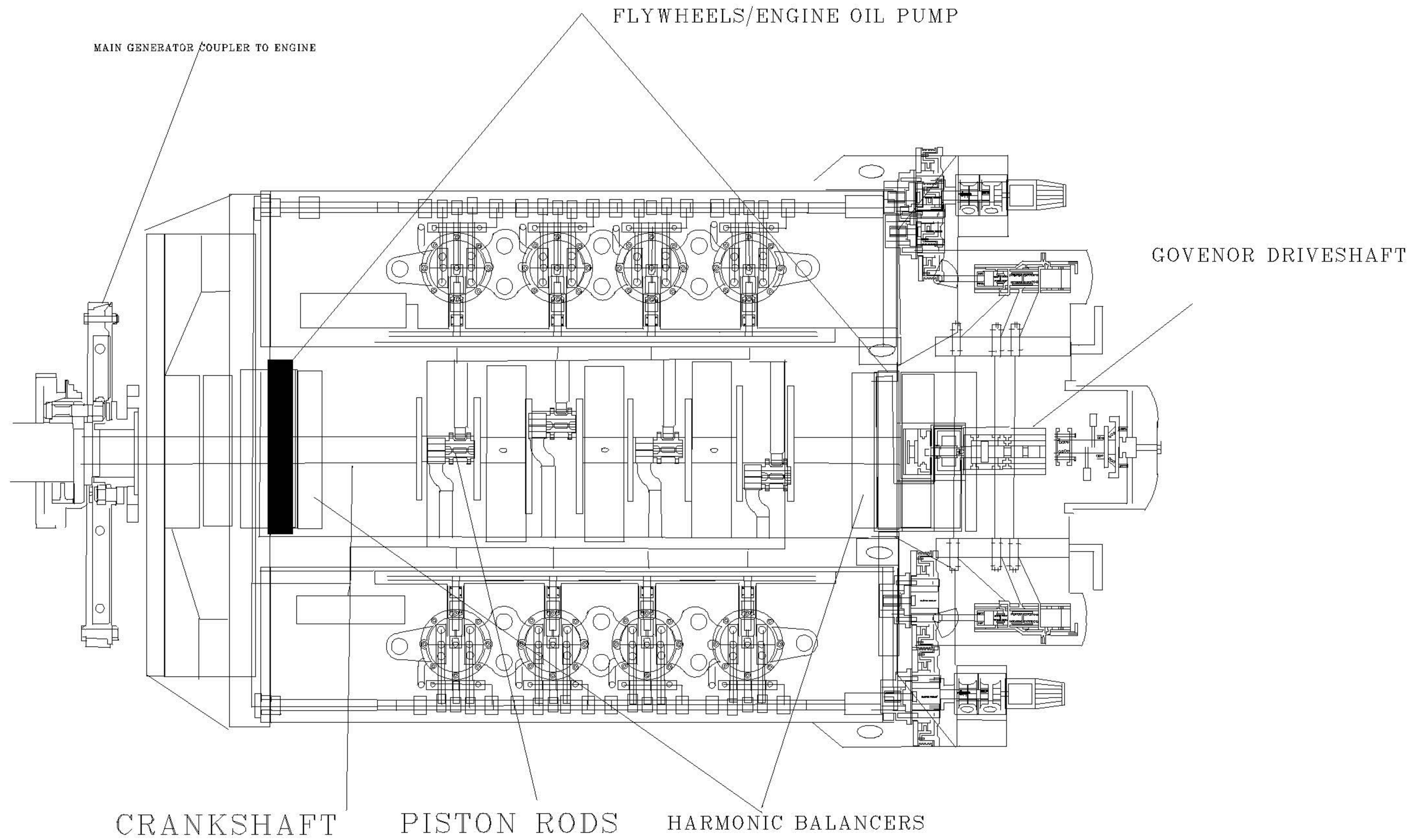


Figure 2.8. Auxiliary Generator.



MAIN GENERATOR COUPLER TO ENGINE

FLYWHEELS/ENGINE OIL PUMP

GOVENOR DRIVESHAFT

CRANKSHAFT

PISTON RODS

HARMONIC BALANCERS



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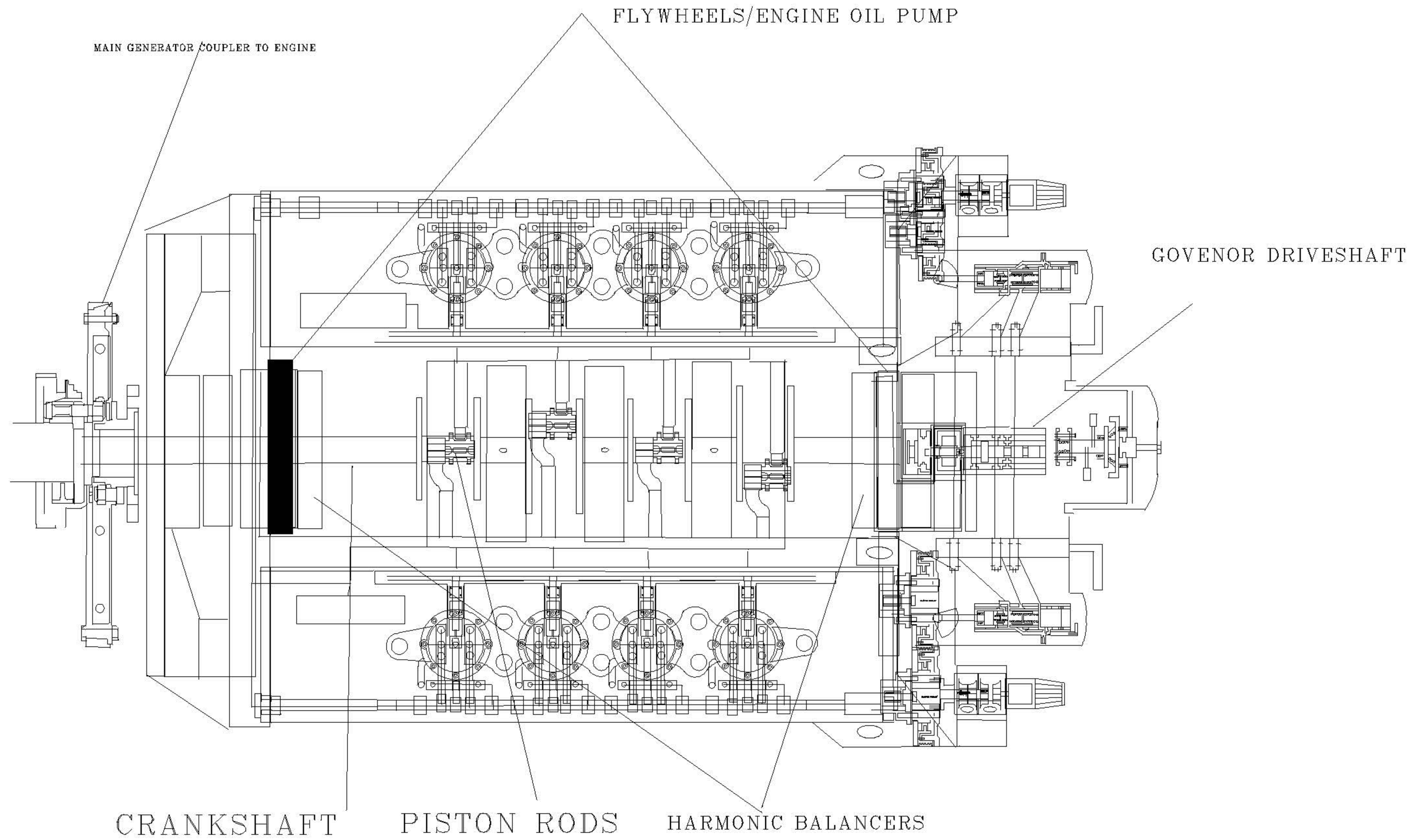
Colloquial Name

Name DIESEL POWER UNIT
INC H3913
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see GENERATOR SET, DIESEL ENGINE

Approved Item Name

Name GENERATOR SET,DIESEL ENGINE
INC [00476](#)
FIIG T322-A (displayed for historical purposes only)
FIIG Title
Condition Code 1
Applicability Key AB (displayed for historical purposes only)
Definition A generator set using a diesel engine as the prime mover. Excludes GENERATOR SET, DIESEL ENGINE, TRAILER MOUNTED.

FSC	Name
6115	Generators and Generator Sets, Electrical
1 FSC(s) found.	





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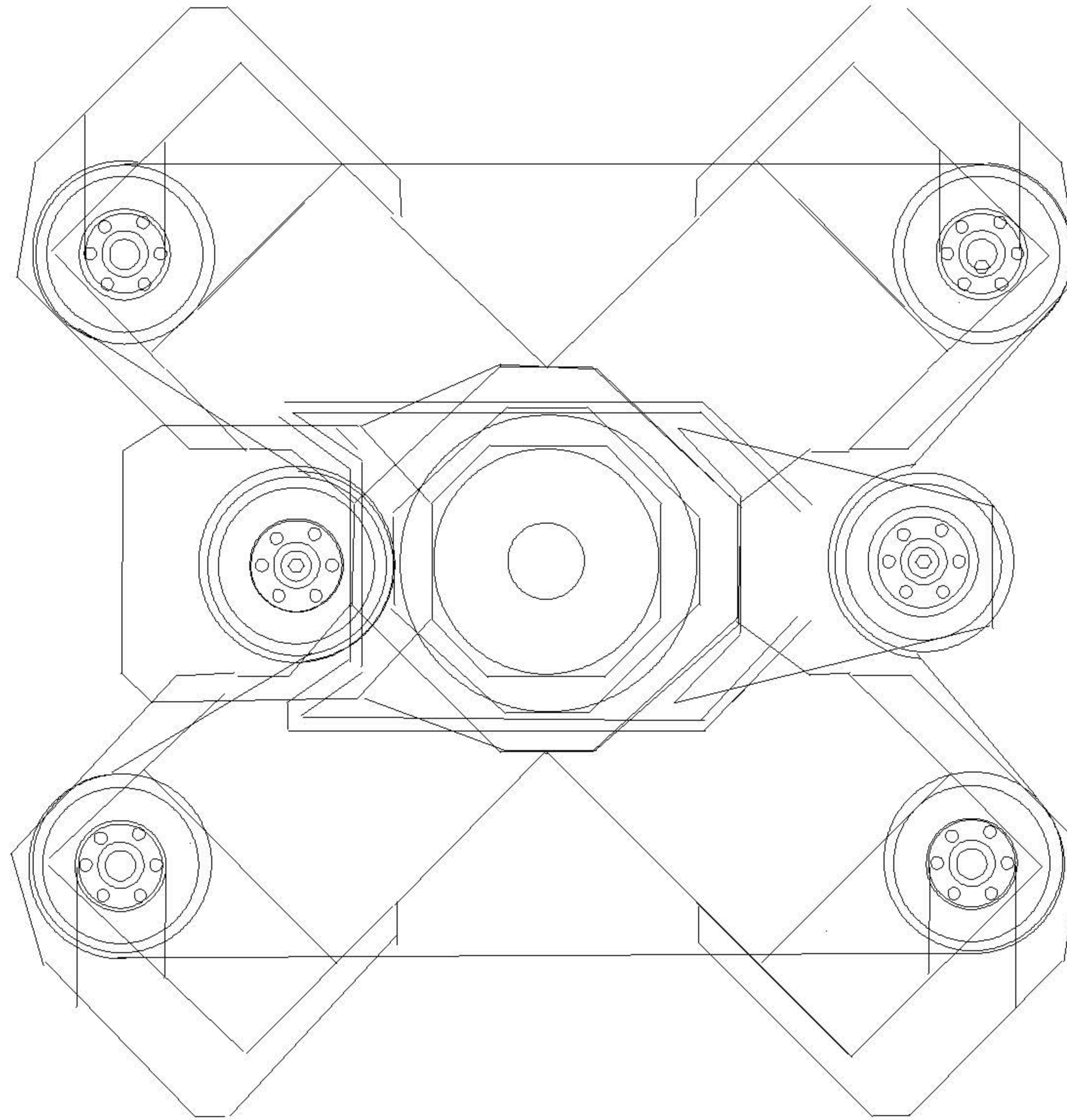
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Approved Item Name

Name	DRIVE UNIT,DIESEL
INC	46107
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	An assembly consisting of an ENGINE, DIESEL, a TRANSMISSION (as modified) and further accessories such as fuel system without tank, cooling system, pipes, oil filter and air filter. See POWER UNIT (1), DIESEL.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	





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Approved Item Name

Name	DRIVE UNIT,HARMONIC
INC	53562
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	An assembly comprised of a circular spline, flexible spline, and an elliptical wave generator, designed to reduce rotational input motion to the output shaft by a specified ratio. The assemblies input and output shaft connections are both concentric and coaxial, reducing rate of rotary motion without changing the axis of rotation.

FSC	Name
3010	Torque Converters and Speed Changers
1 FSC(s) found.	



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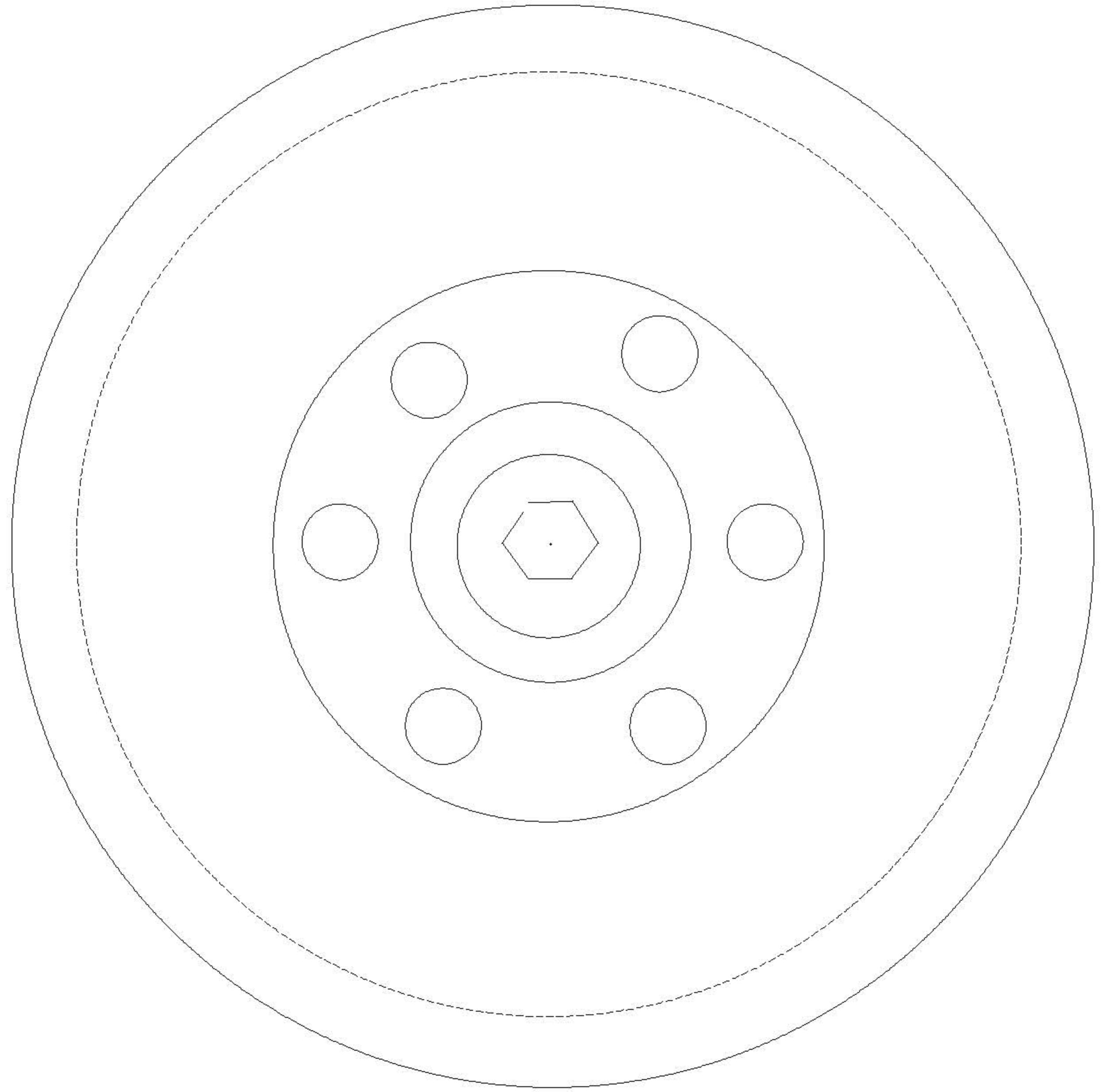
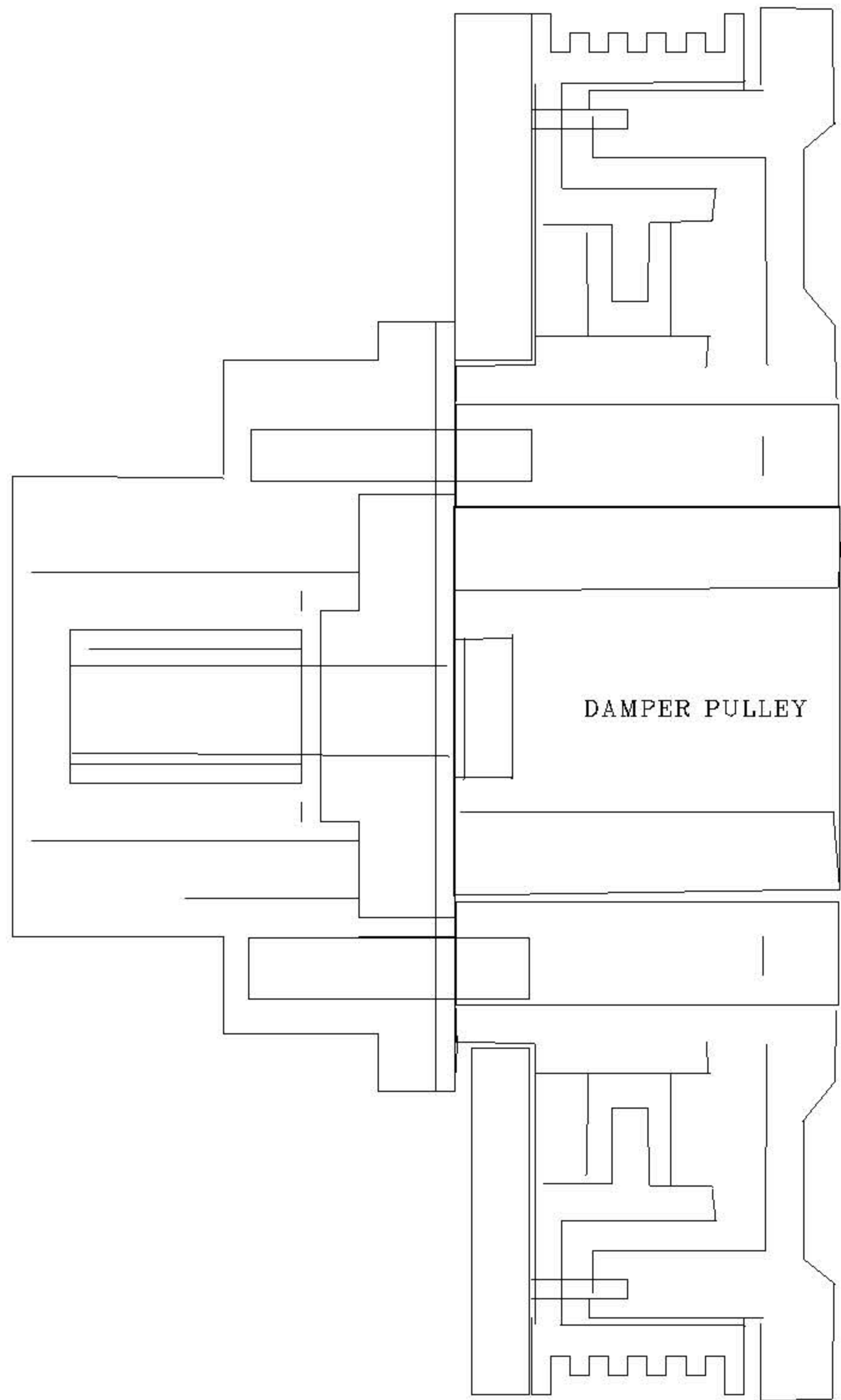
Colloquial Name

Name DAMPER ASSEMBLY,VIBRATION
INC G2348
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see DAMPER, VIBRATION ENGINE

Approved Item Name

Name DAMPENER,VIBRATION,ENGINE
INC [36118](#)
FIIG A502M0 (displayed for historical purposes only)
FIIG Title DAMPENER, VIBRATION, ENGINE
Condition Code 2
Applicability Key
Definition A device designed to compensate for and reduce the effects of torsional vibration in the crankshaft of an engine. May include rubber cone(s), tension spring(s), friction plate(s), groove(s) for belts, and the like.

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2815	Diesel Engines and Components
2 FSC(s) found.	



DAMPER PULLEY

ADAM NUGENT ROSENBERGER . 11/20/2020



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Colloquial Name

Name COVER,FLYWHEEL
INC G3351
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see HOUSING, FLYWHEEL

Approved Item Name

Name HOUSING,FLYWHEEL
INC [36328](#)
FIIG A526D0 (displayed for historical purposes only)
FIIG Title HOUSING, FLYWHEEL
Condition Code 2
Applicability Key
Definition An item designed to enclose the flywheel and related parts, clutch, plates, ring gear and the like on the end of the cylinder block. May be fabricated from a single casting or compound of two separate castings and may include mounting facilities.

FSC	Name
2520	Vehicular Power Transmission Components
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2810	Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
2815	Diesel Engines and Components
4310	Compressors and Vacuum Pumps
6105	Motors, Electrical
6 FSC(s) found.	



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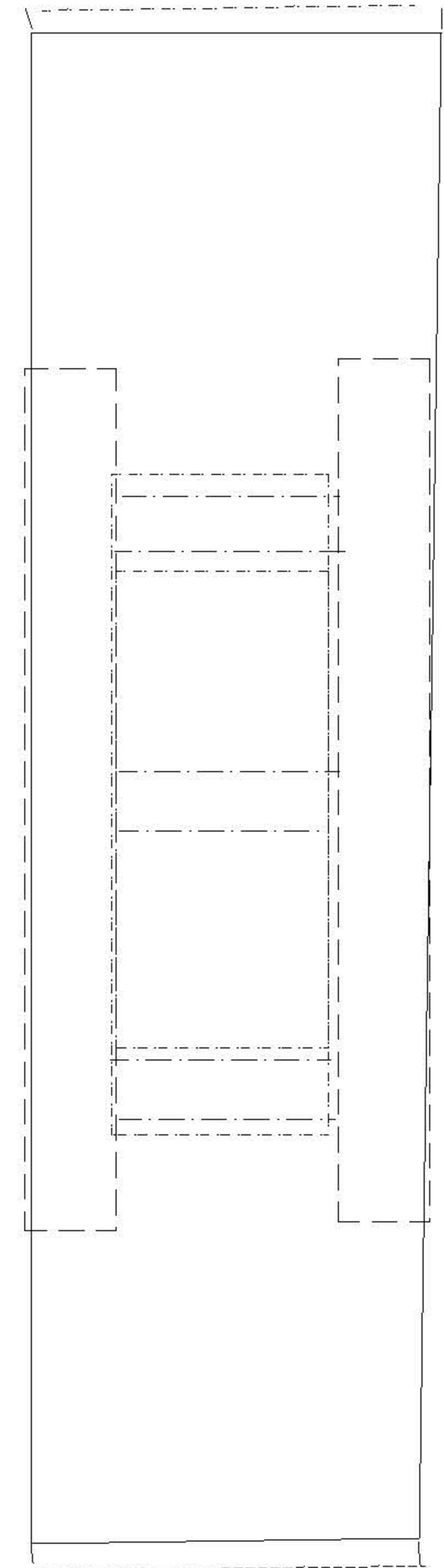
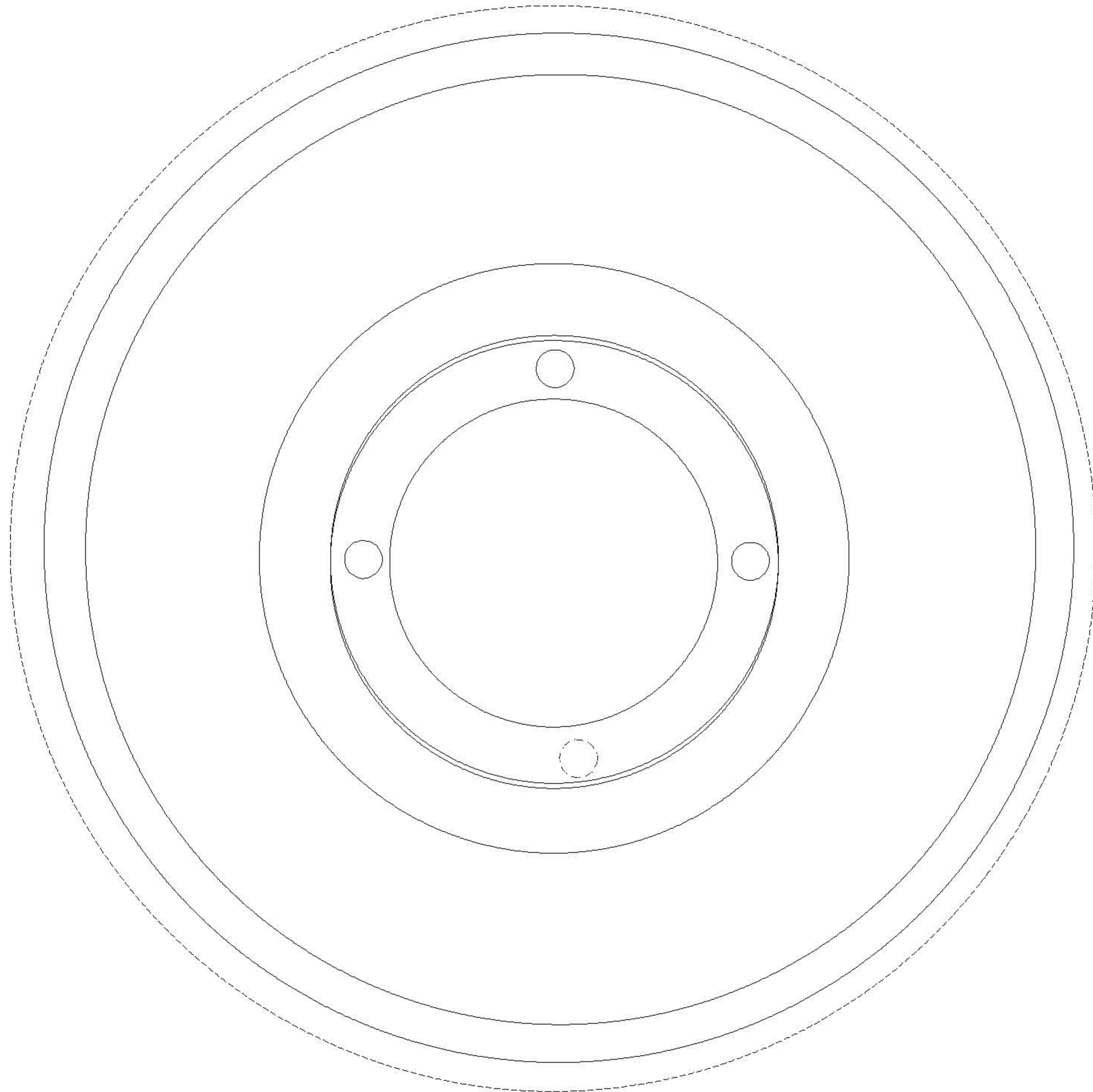
Approved Item Name

Name FLYWHEEL,ENGINE
INC [60500](#)
FIIG A526B0 (displayed for historical purposes only)
FIIG Title FLYWHEEL, ENGINE
Condition Code 2

Applicability Key
Definition

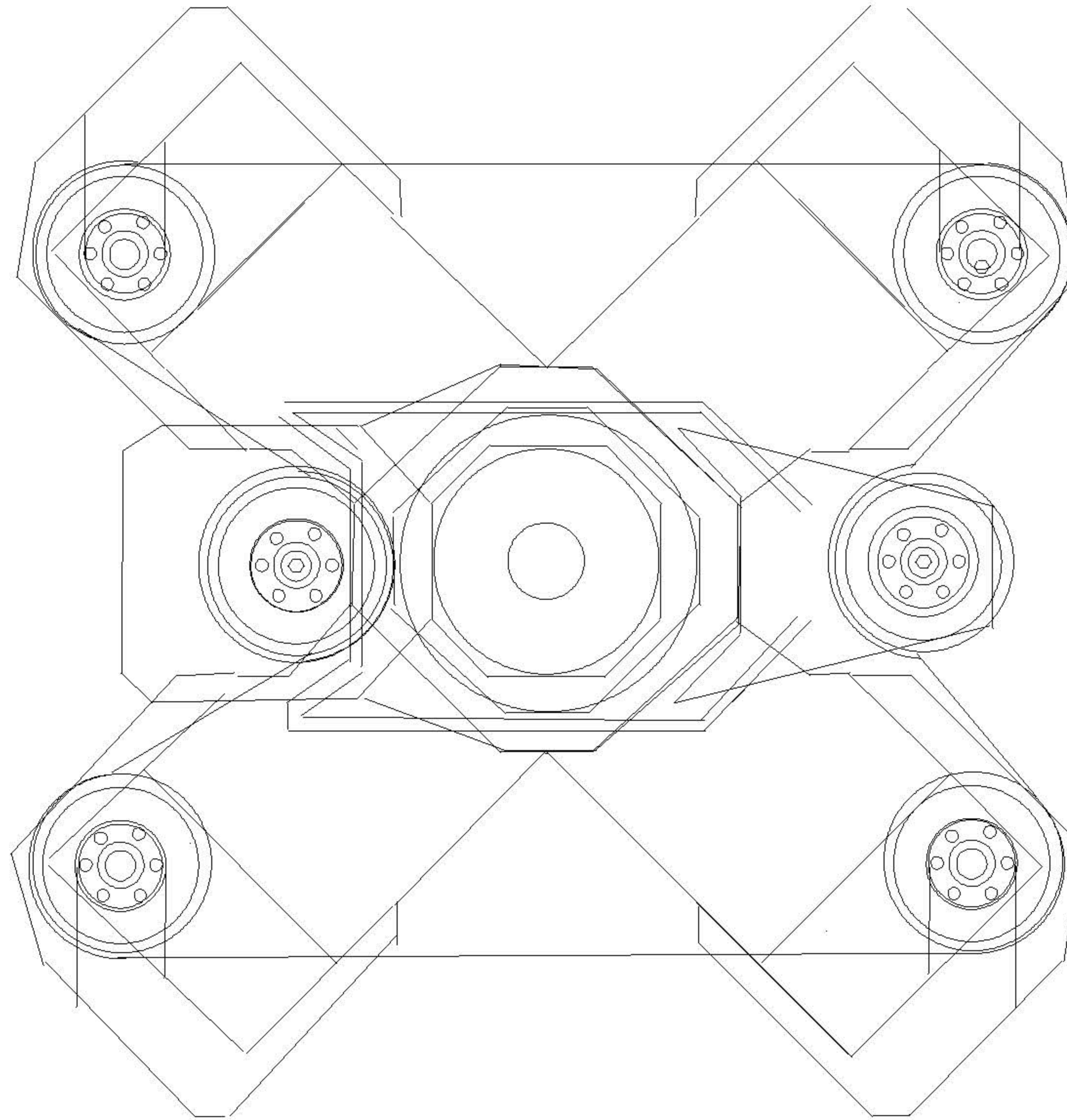
A circular metal item specifically designed to be attached to the engine crankshaft. Its primary function is to counteract variable torque and reduce the fluctuations of an internal combustion engine, during changes of speed. It may have a ring gear, cooling fan, permanent magnets, and/or the like. Excludes engine crankshaft dampers.

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2815	Diesel Engines and Components
2 FSC(s) found.	



FLY WHEEL

ADAM NUGENT ROSENBERGER.11/14/2021





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Colloquial Name

Name BALANCER,HARMONIC,CRANKSHAFT
INC G3777
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see DAMPENER, VIBRATION, ENGINE

Approved Item Name

Name DAMPENER,VIBRATION,ENGINE
INC [36118](#)
FIIG A502M0 (displayed for historical purposes only)
FIIG Title DAMPENER, VIBRATION, ENGINE
Condition Code 2
Applicability Key
Definition A device designed to compensate for and reduce the effects of torsional vibration in the crankshaft of an engine. May include rubber cone(s), tension spring(s), friction plate(s), groove(s) for belts, and the like.

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2815	Diesel Engines and Components
2 FSC(s) found.	

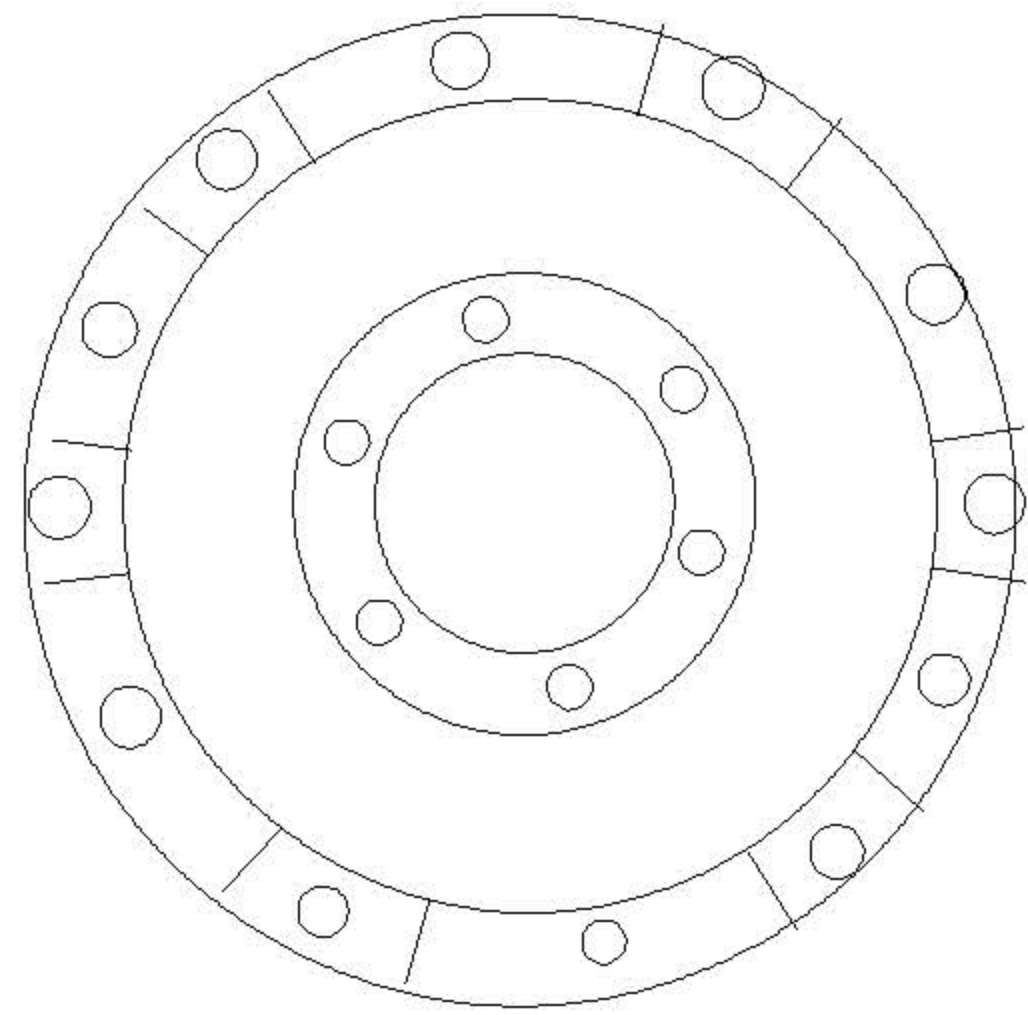


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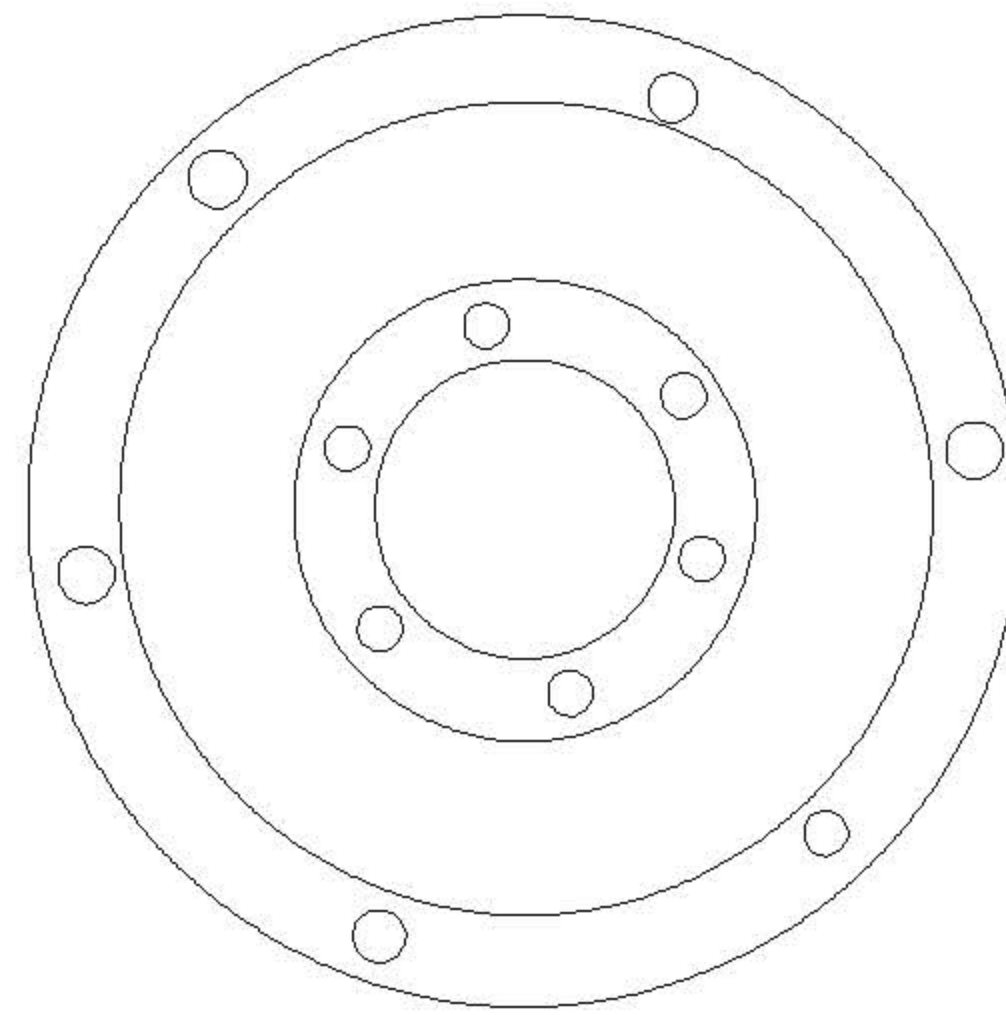
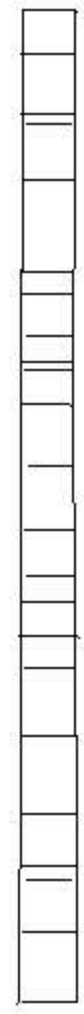


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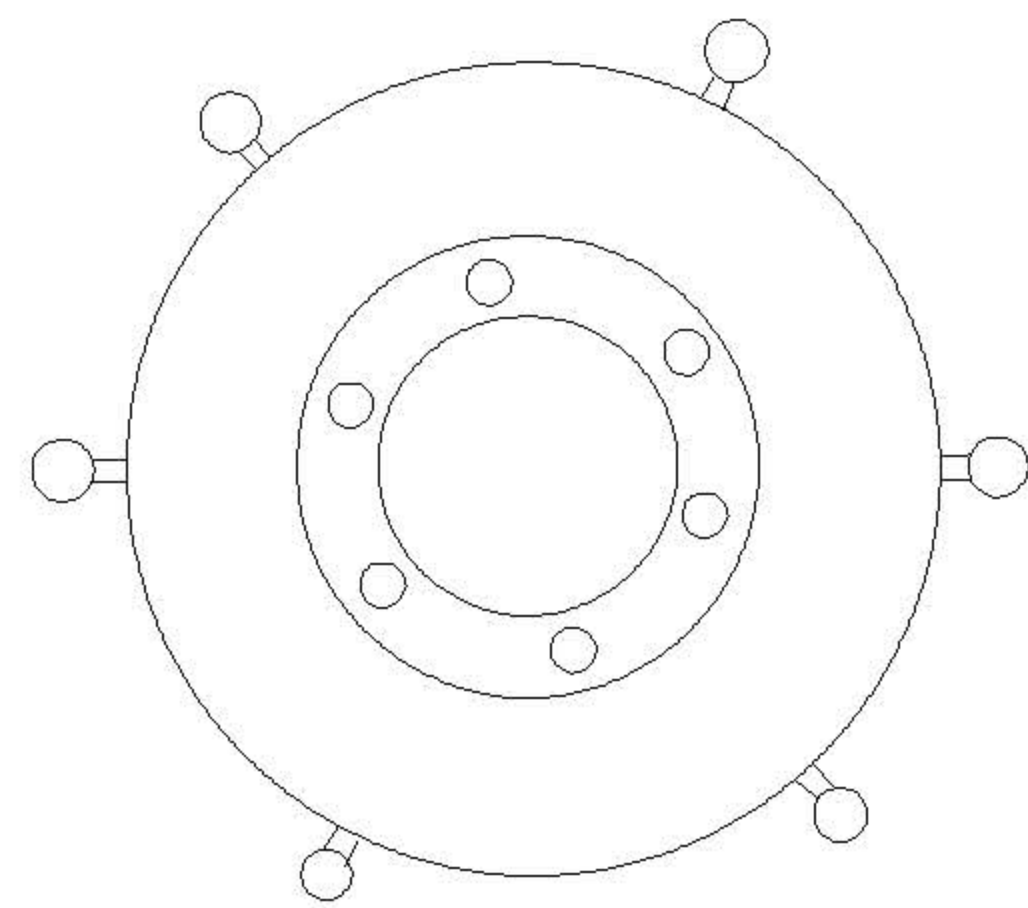
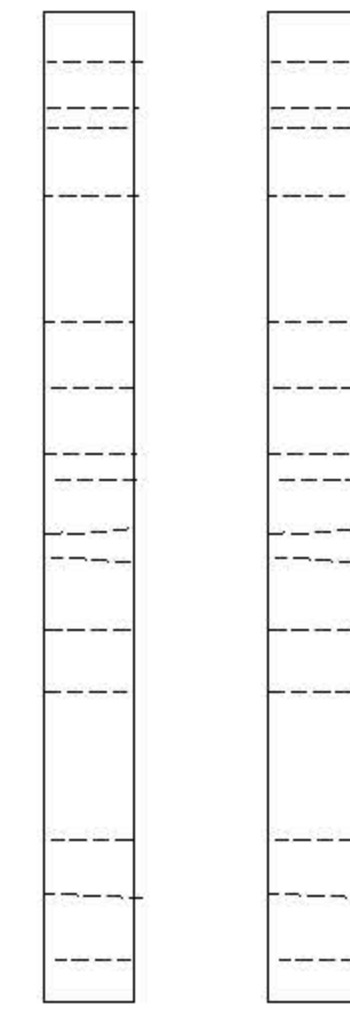


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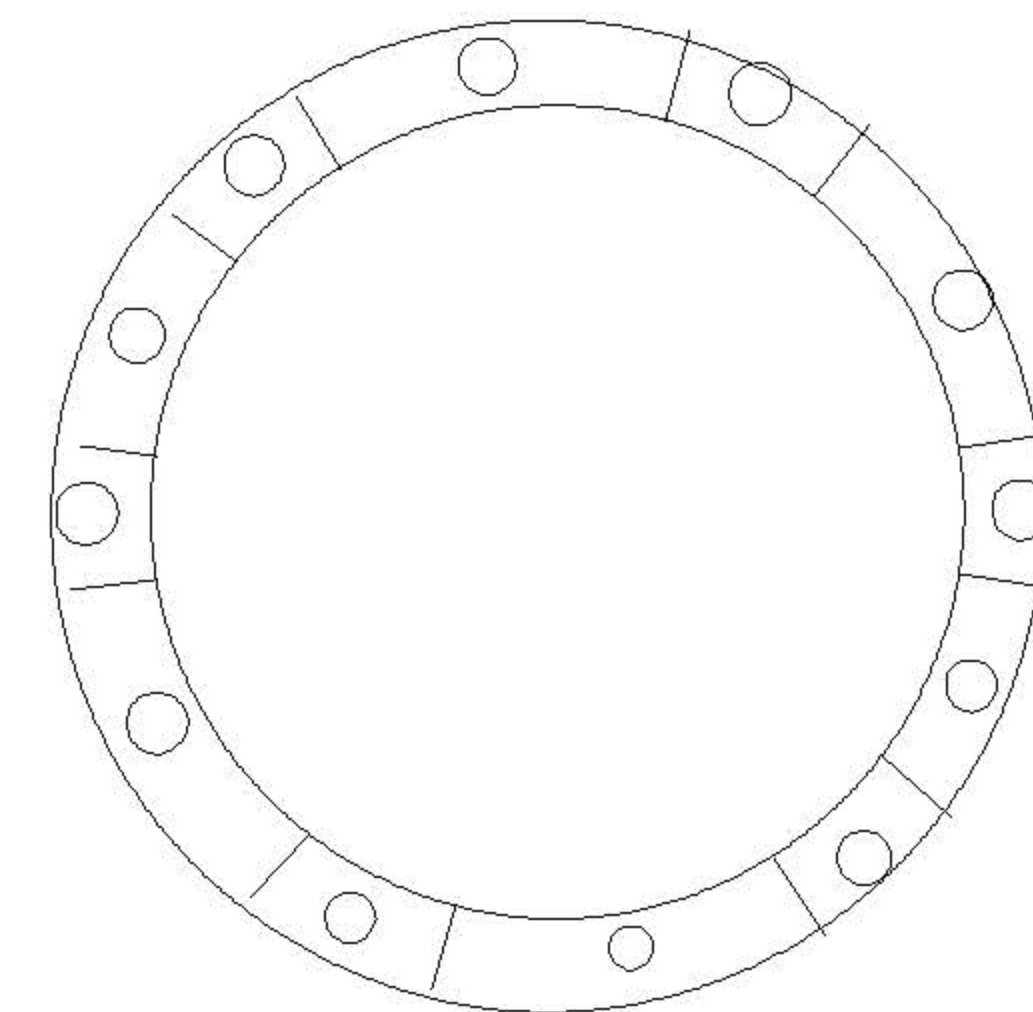
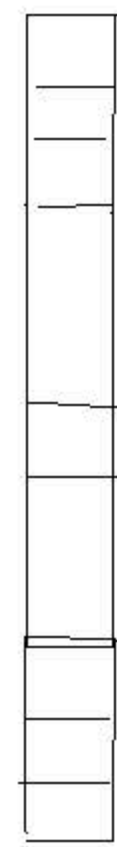
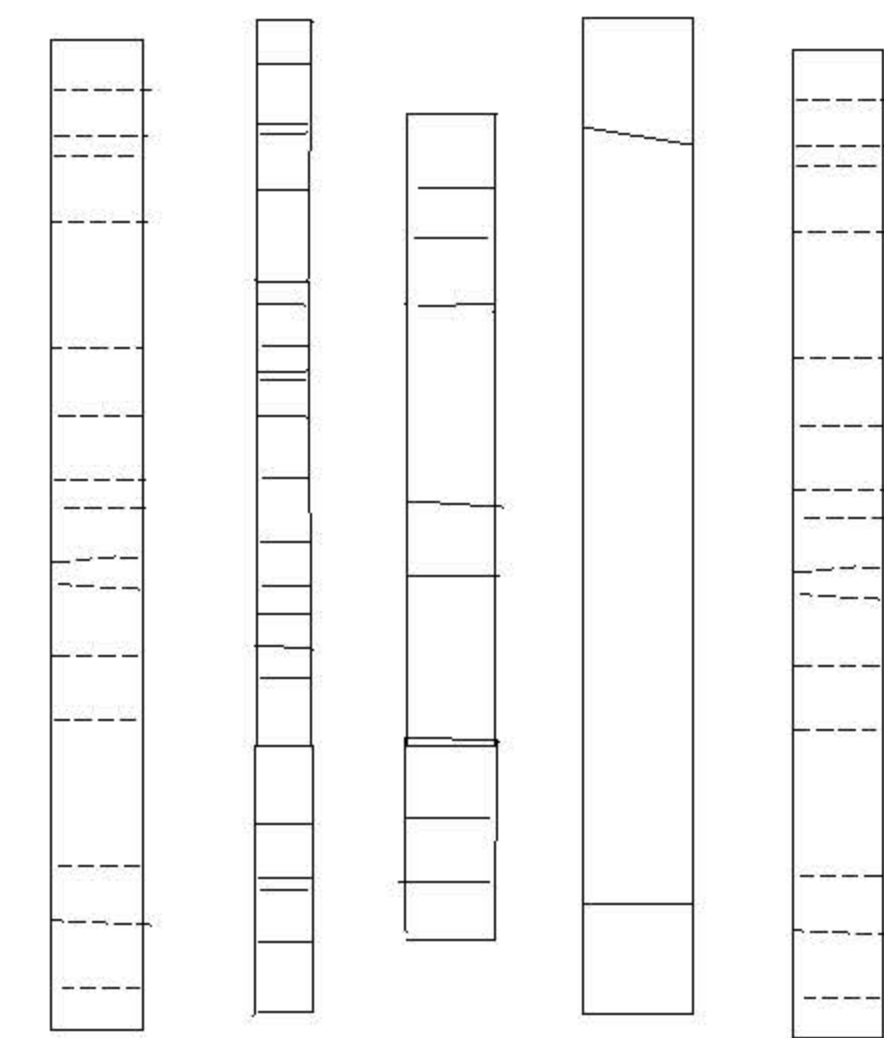


PLATE 4



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Colloquial Name

Name DAMPER,CRANKSHAFT
INC G3347
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see DAMPENER, VIBRATION, ENGINE

Approved Item Name

Name DAMPENER,VIBRATION,ENGINE
INC [36118](#)
FIIG A502M0 (displayed for historical purposes only)
FIIG Title DAMPENER, VIBRATION, ENGINE
Condition Code 2
Applicability Key
Definition A device designed to compensate for and reduce the effects of torsional vibration in the crankshaft of an engine. May include rubber cone(s), tension spring(s), friction plate(s), groove(s) for belts, and the like.

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2815	Diesel Engines and Components
2 FSC(s) found.	



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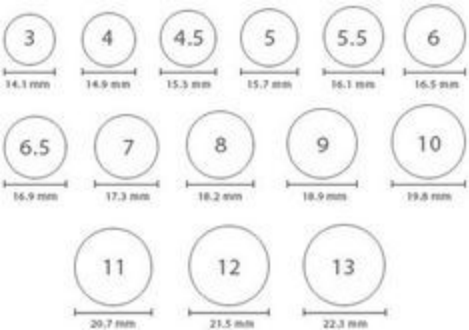
Colloquial Name

Name	BAND,CYLINDER
INC	I0539
FIIG	
FIIG Title	
Condition Code	
Applicability Key	
Definition	see BAND ASSEMBLY, DIVER'S TANK.

Approved Item Name

Name	BAND ASSEMBLY,DIVER'S TANK
INC	39066
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	A corrosion resistant metallic/nonmetallic item formed in the shape of a cylinder. It may be a single loop of rigged in multiple loops using connecting bolts. it is designed to secure one or more cylinders to a diver's BACKPACK, DIVER'S EQUIPMENT and the like.

FSC	Name
4220	Marine Lifesaving and Diving Equipment
1 FSC(s) found.	





Plain Comp.



Taper Face Comp.



Plain Napier Comp.



Taper Face Napier Comp.



Inlay Coated Plain Napier Comp.



Inlay Coated Taper Face Napier Comp.



Taper Face I.D. Bevel Comp.



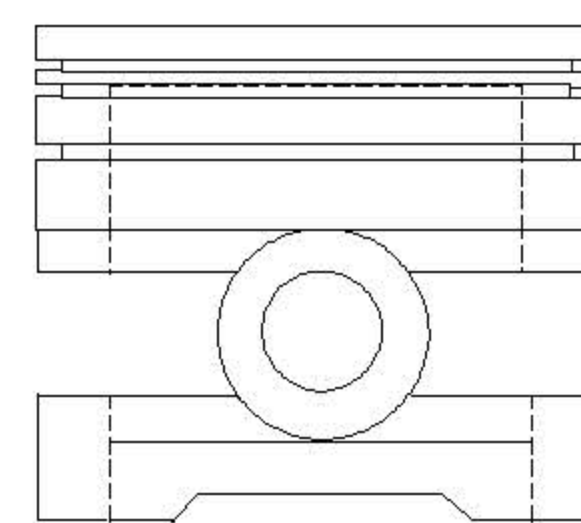
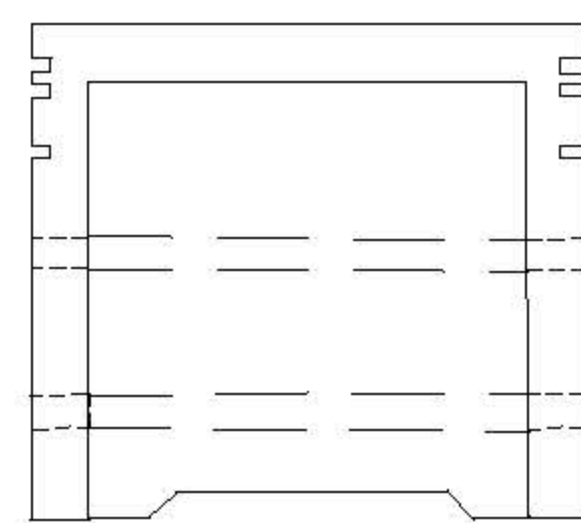
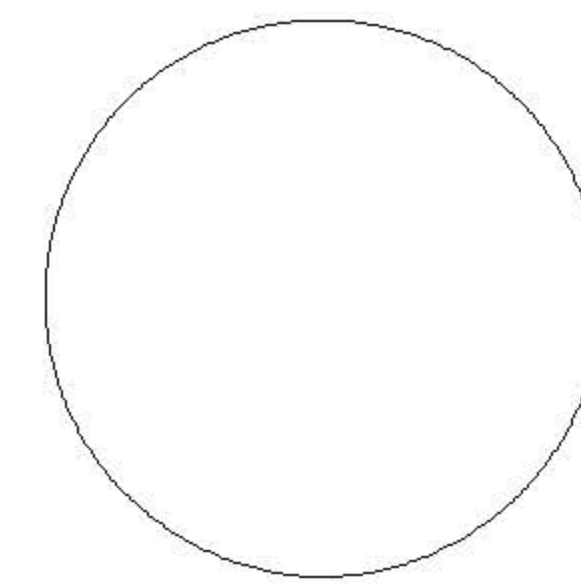
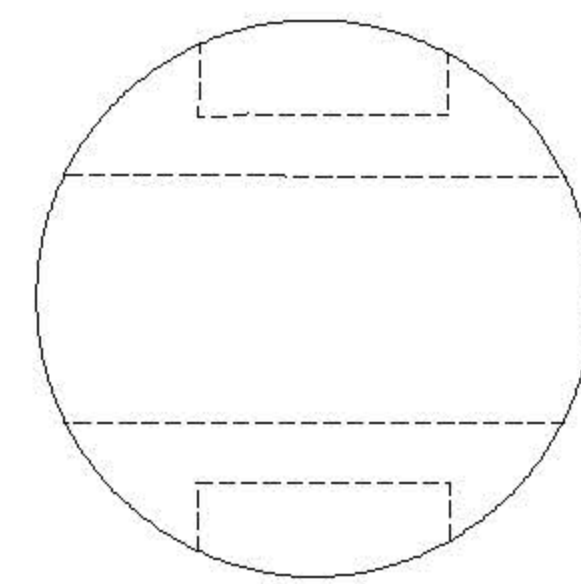
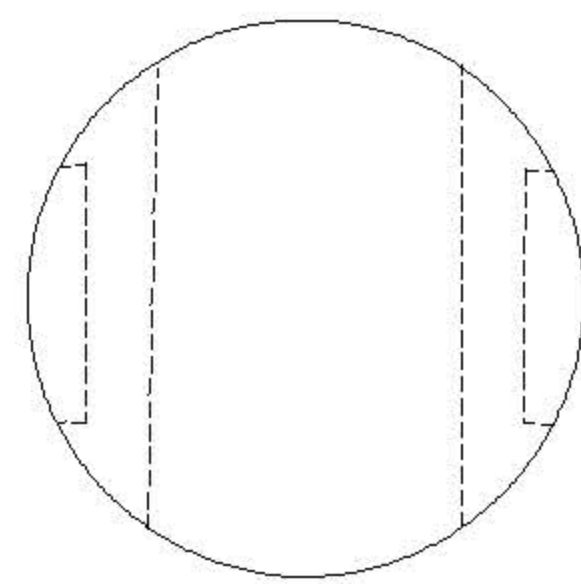
Taper Face I.D. Bevel Comp.



Taper Face I.D. Step Comp.



Taper Face I.D. Step Comp.



PISTON



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Colloquial Name

Name BLOCK ASSEMBLY,CYLINDER
INC K3904
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see ENGINE BLOCK,DIESEL;

Approved Item Name

Name ENGINE BLOCK,DIESEL
INC [60442](#)
FIIG A508H0 (displayed for historical purposes only)
FIIG Title ENGINE BLOCK, DIESEL
Condition Code 1
Applicability Key
Definition

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	



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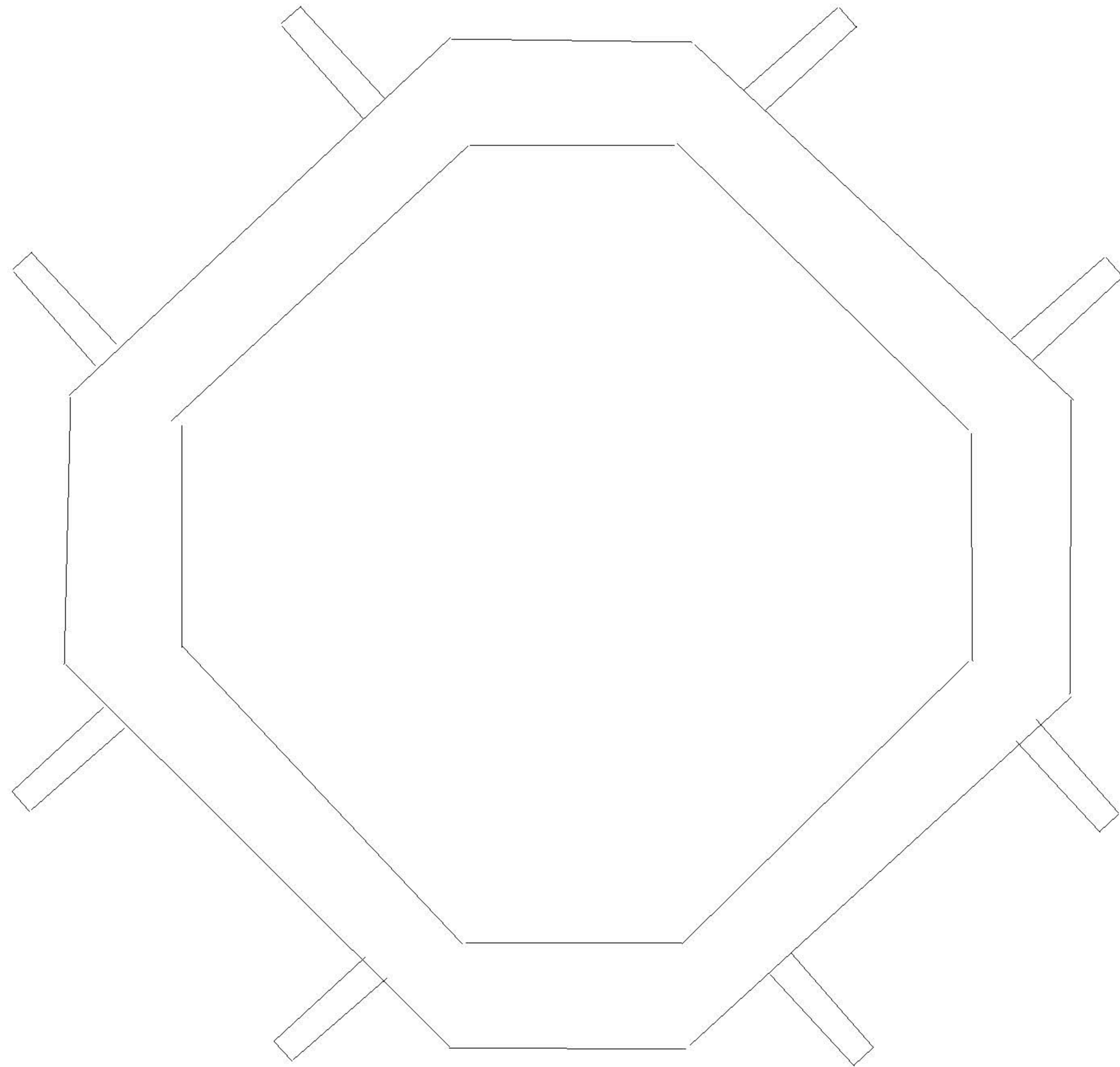
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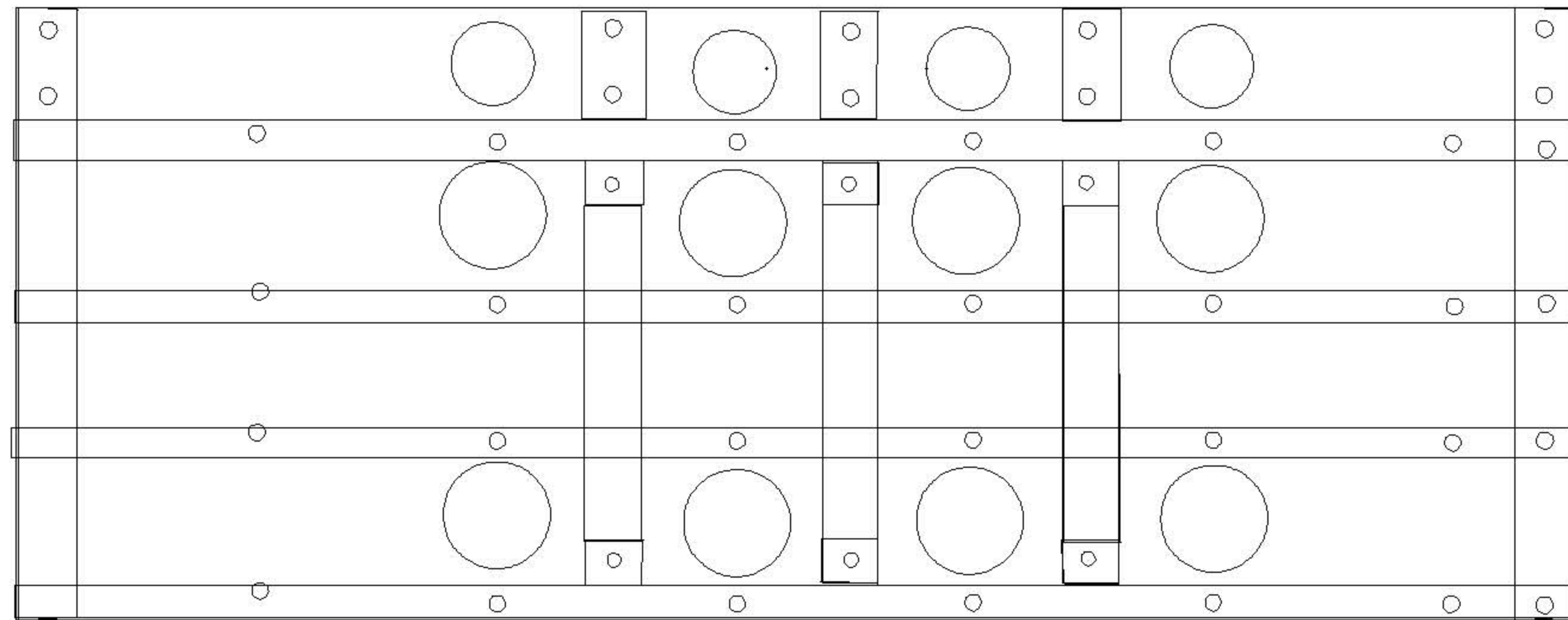
Approved Item Name

Name ENGINE BLOCK ASSEMBLY,DIESEL
INC [16754](#)
FIIG A508J0 (displayed for historical purposes only)
FIIG Title ENGINE BLOCK ASSEMBLY (1), DIESEL
Condition Code 1
Applicability Key
Definition

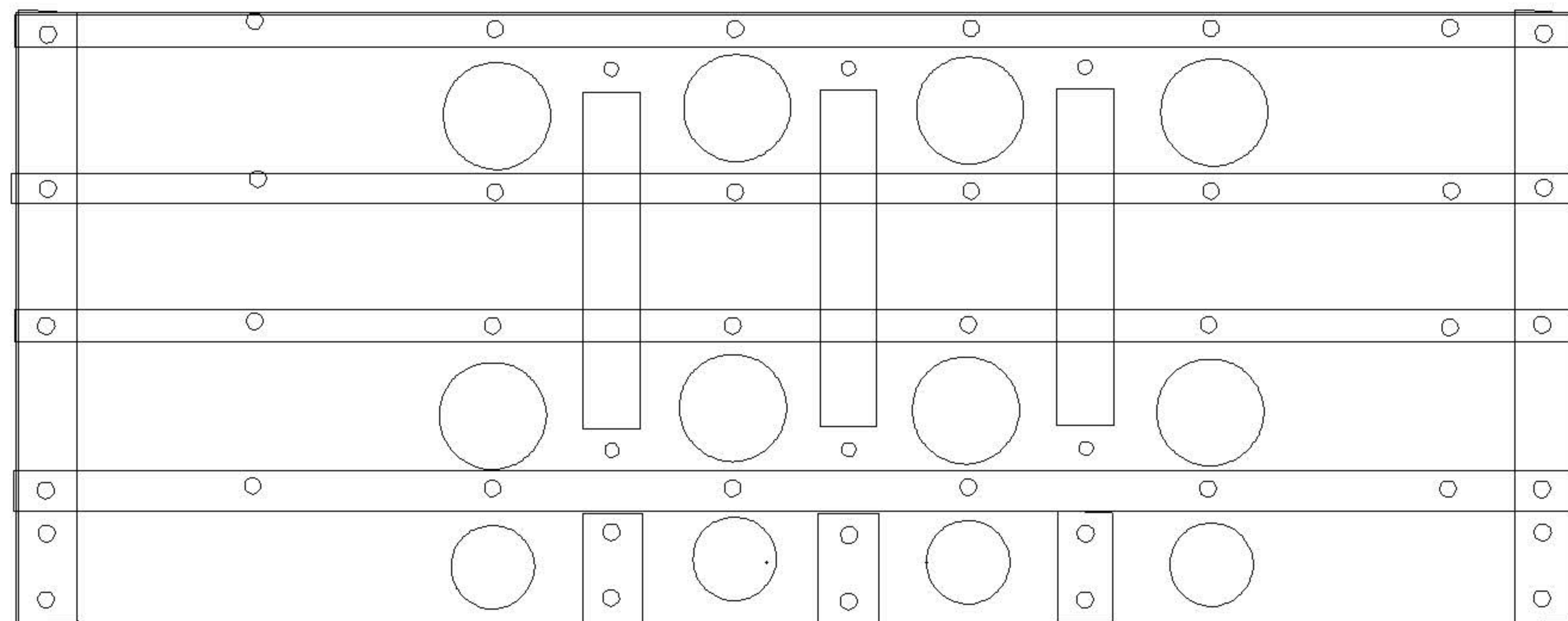
FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	



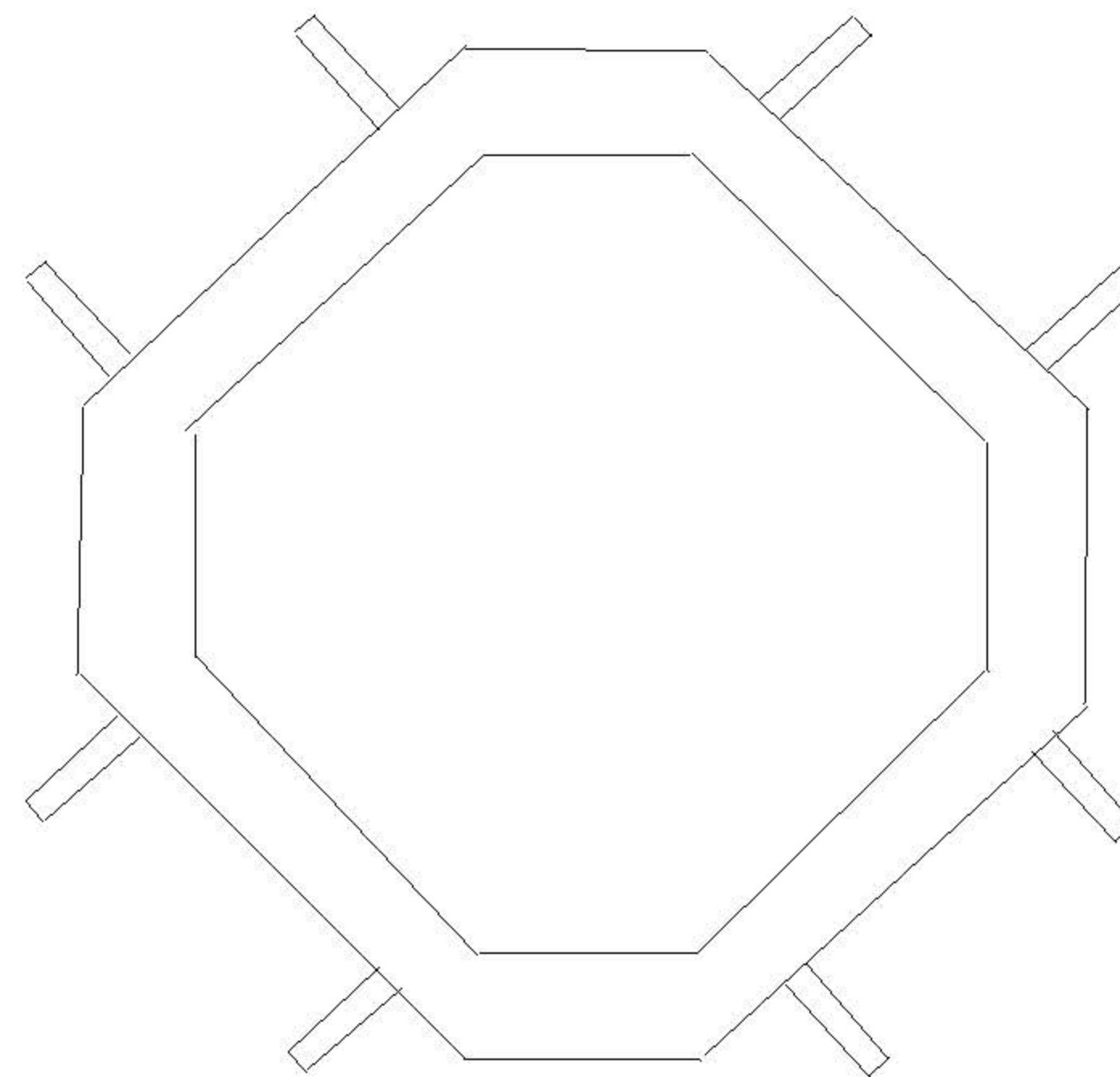
FRONT VIEW



UPPER FRAME



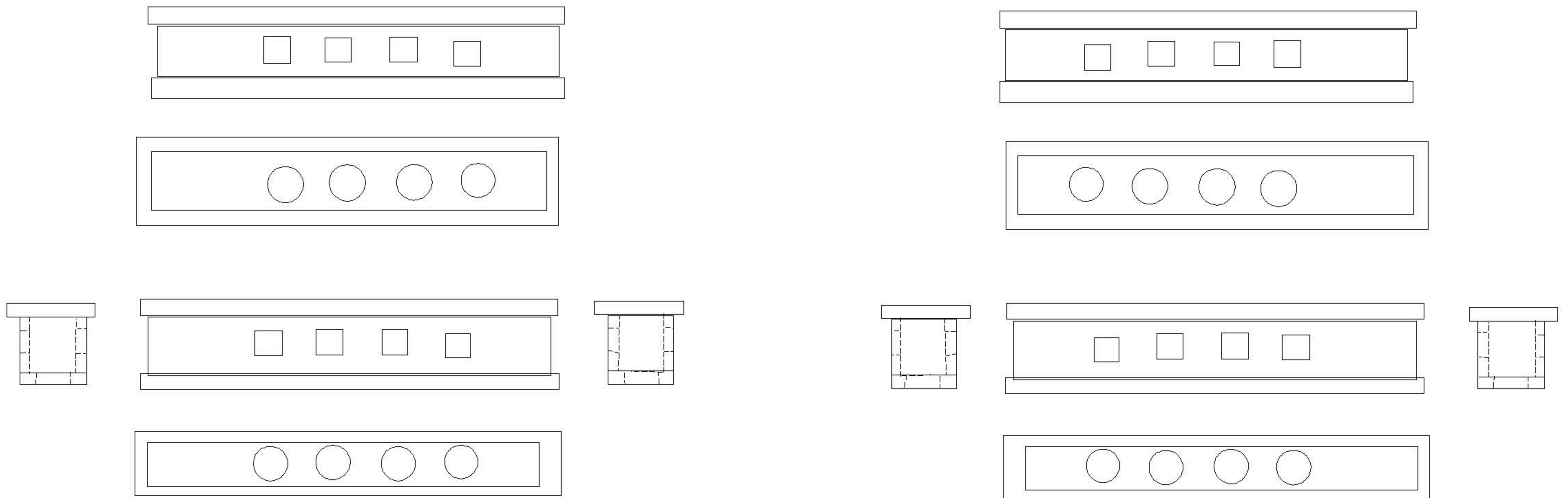
LOWER FRAME



FRONT VIEW

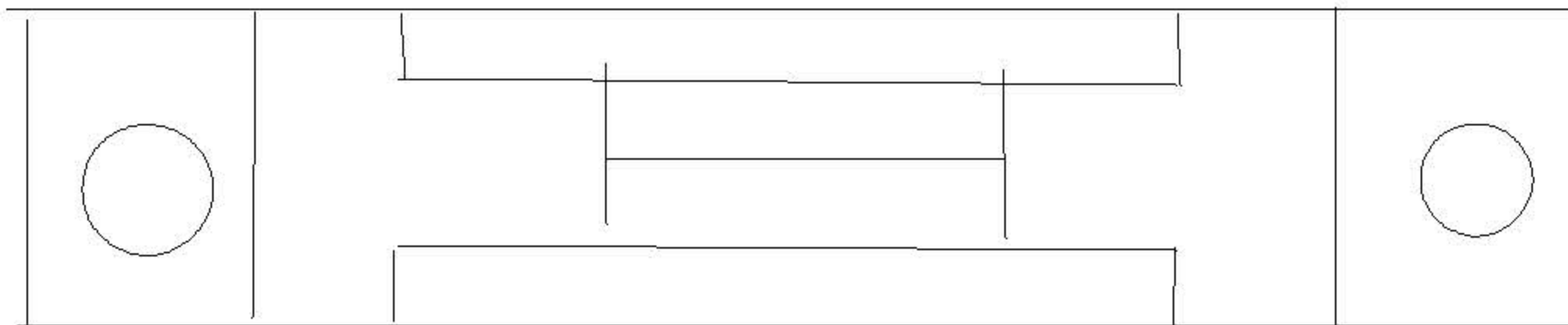
X TYPE MOTOR FRAME FOR FASTING HEADBLOCKS

HEADBLOCKS 1 AND 2 MIRROR AND ROTATE 180 DEGREES QTY 2 HEADBLOCKS EACH

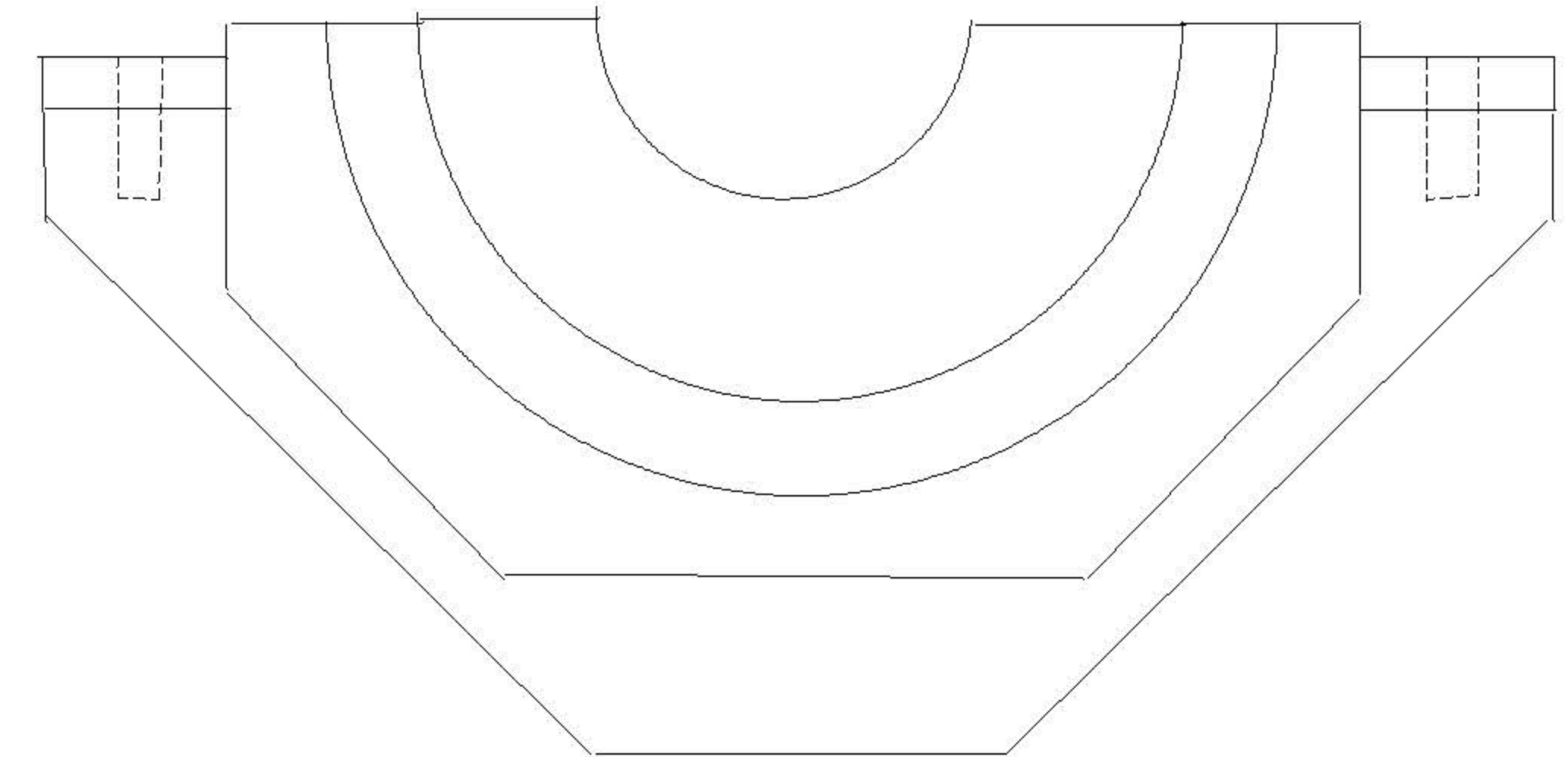
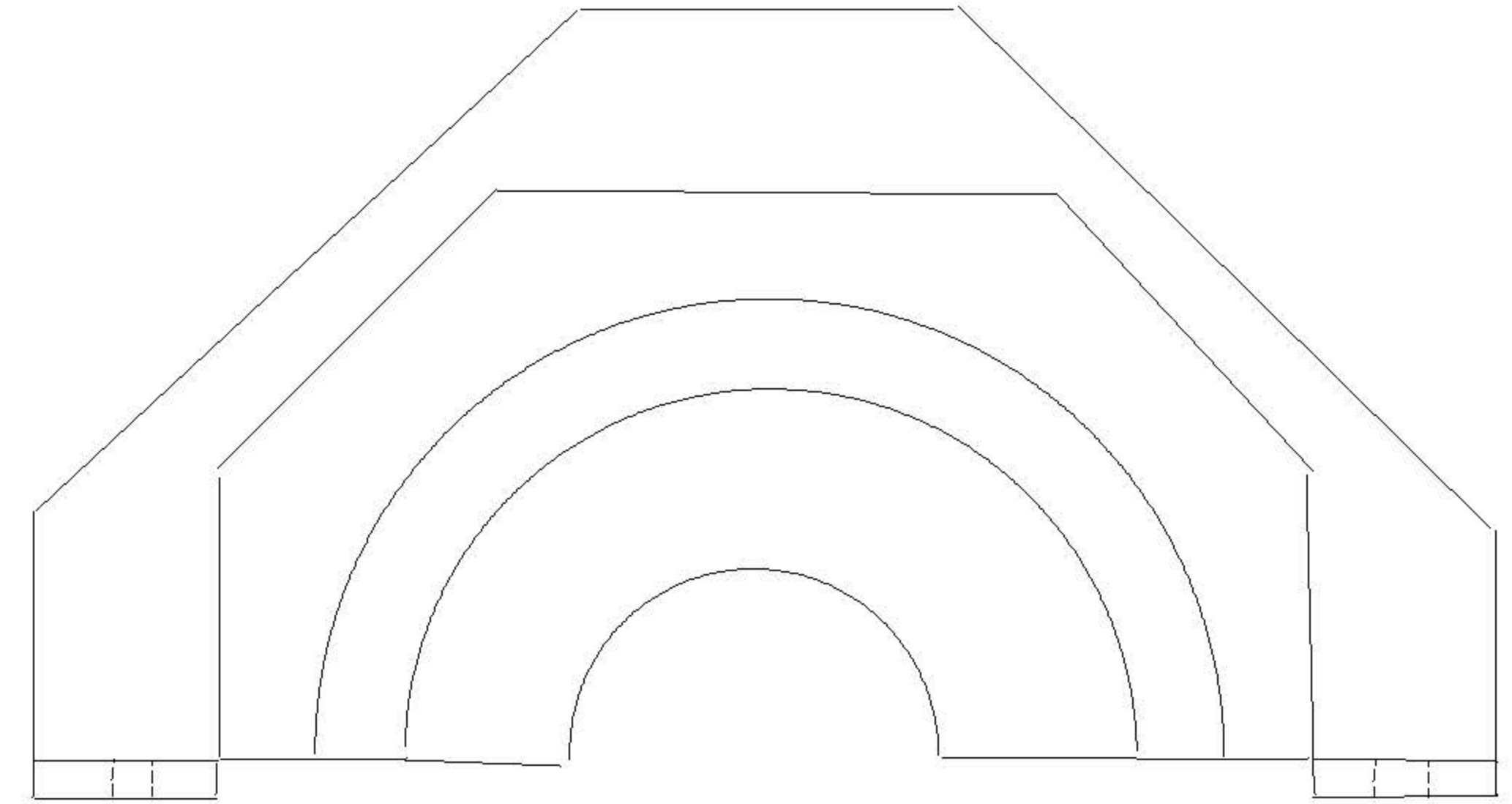


HEADBLOCKS

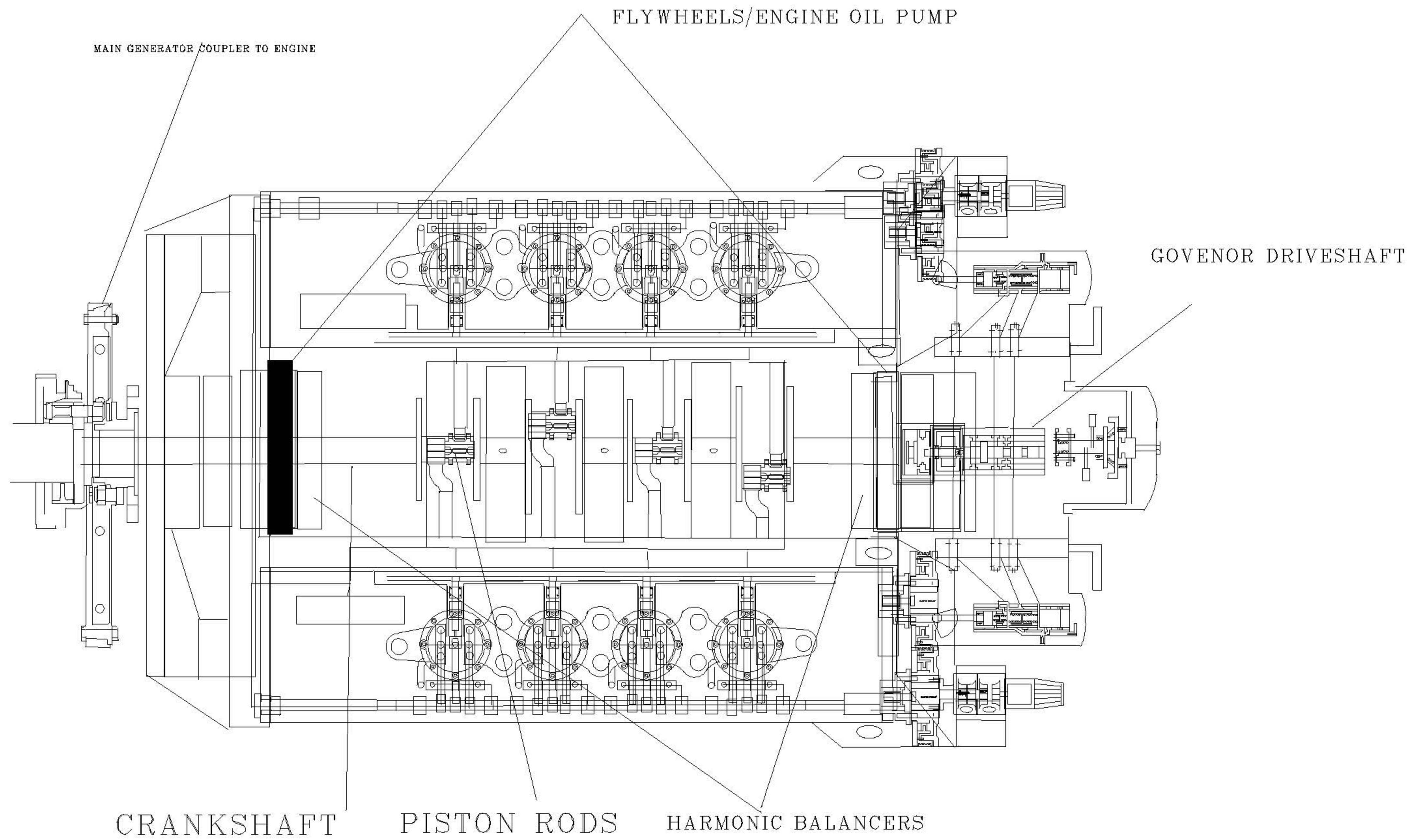
ADAM NUGENT ROSENBERGER, 12/14/2020

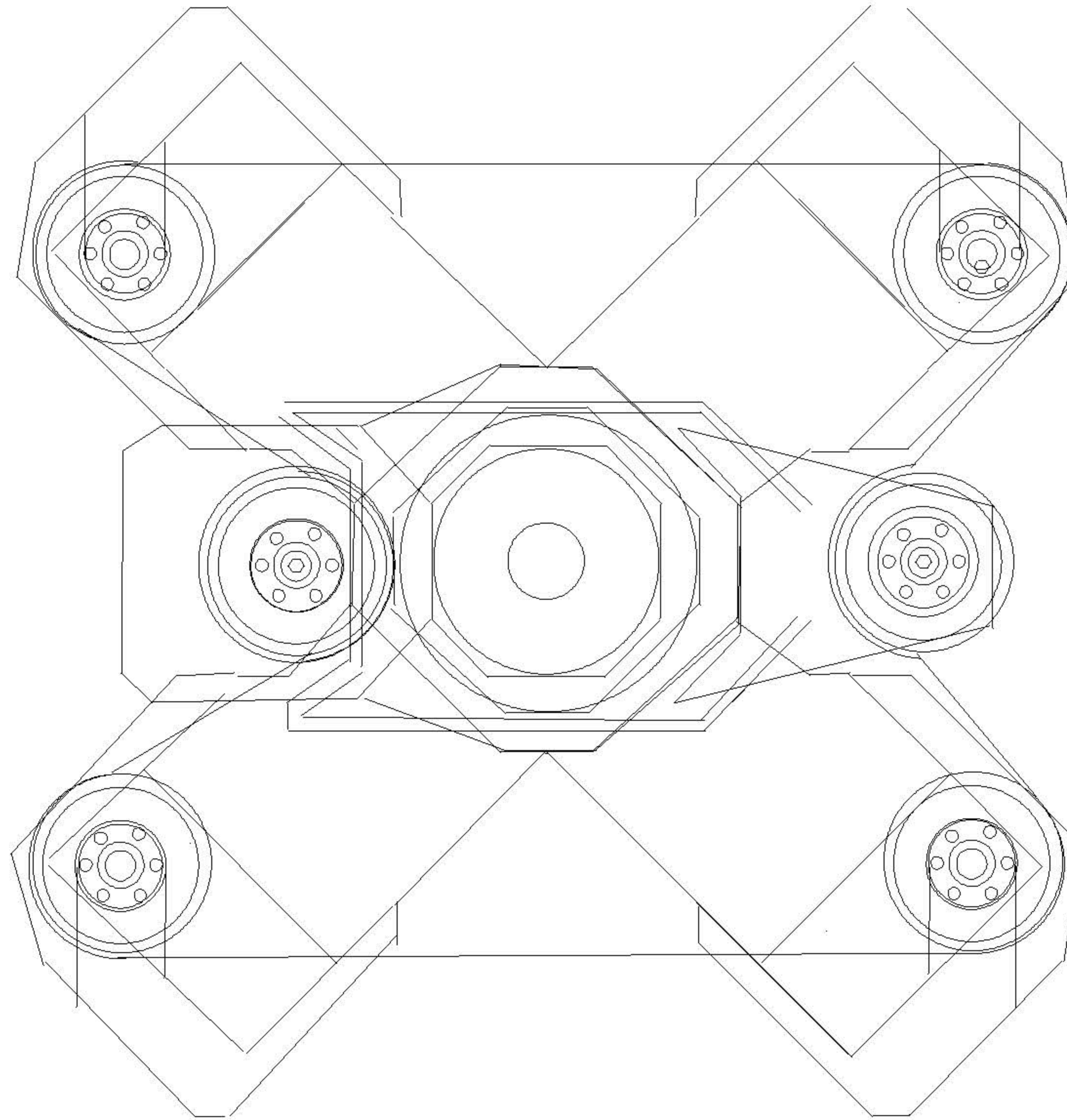


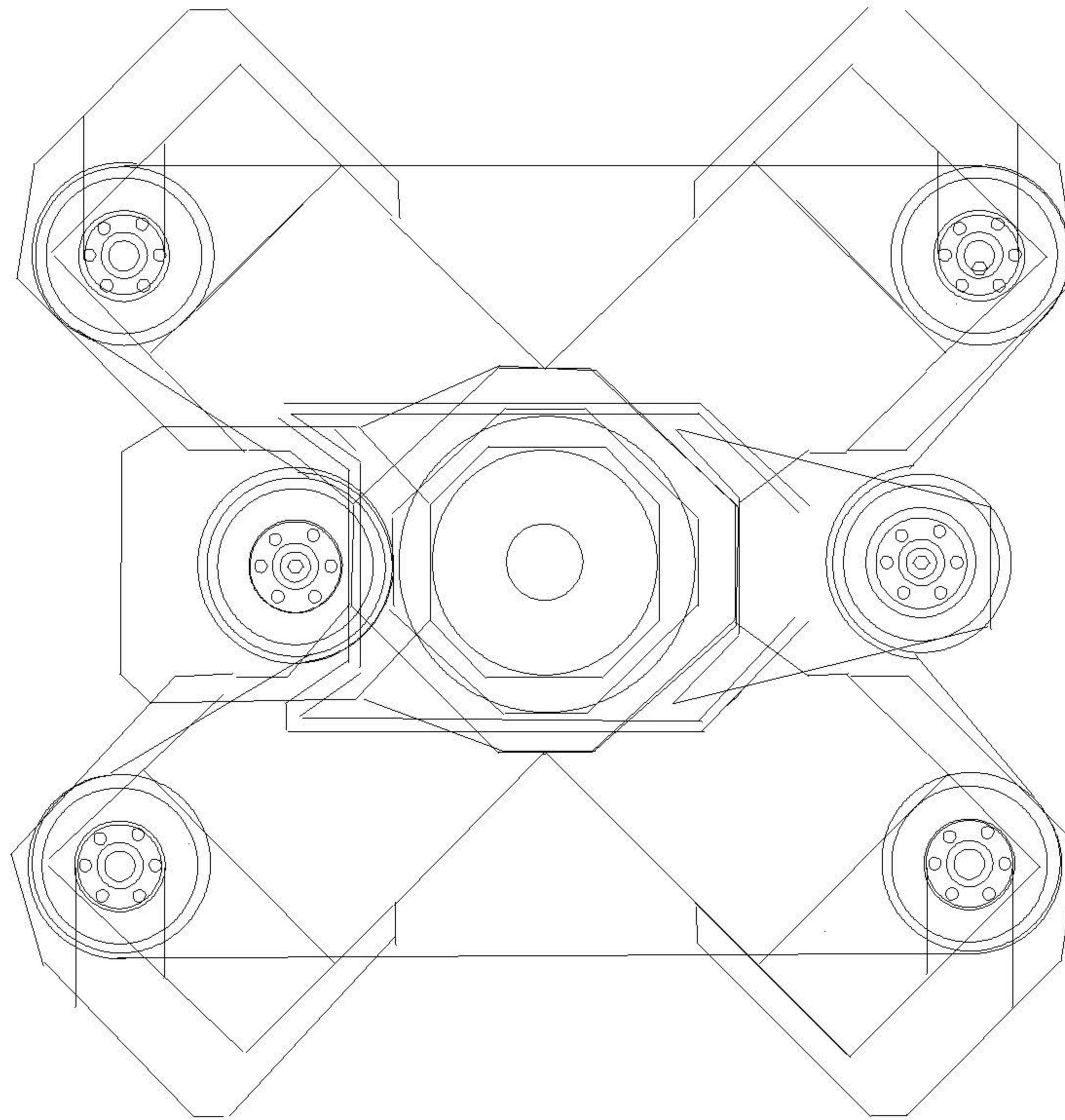
UPPER CRANKSHAFT BEARING SHELL

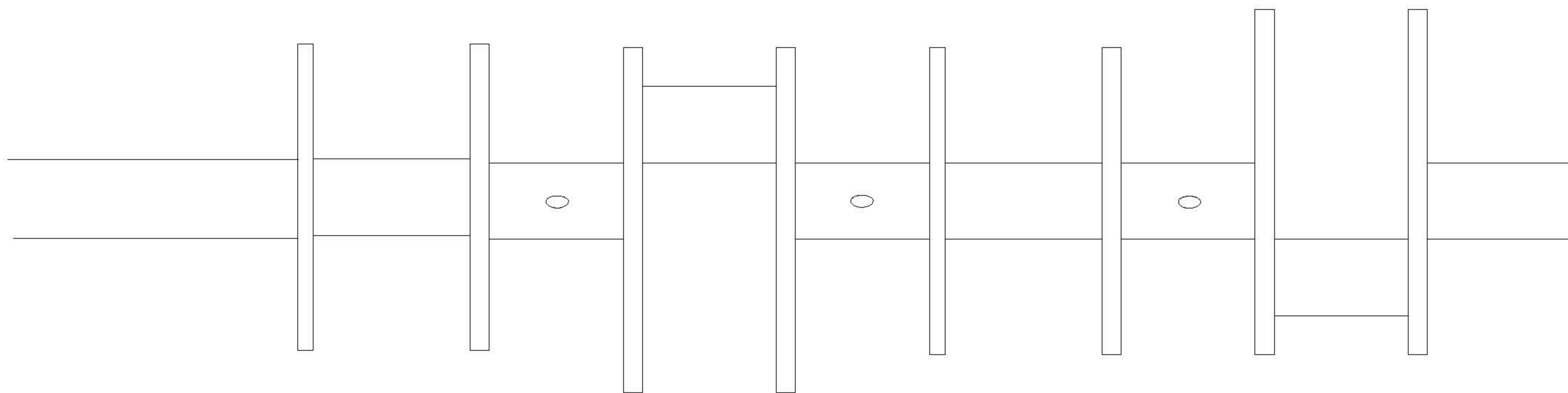
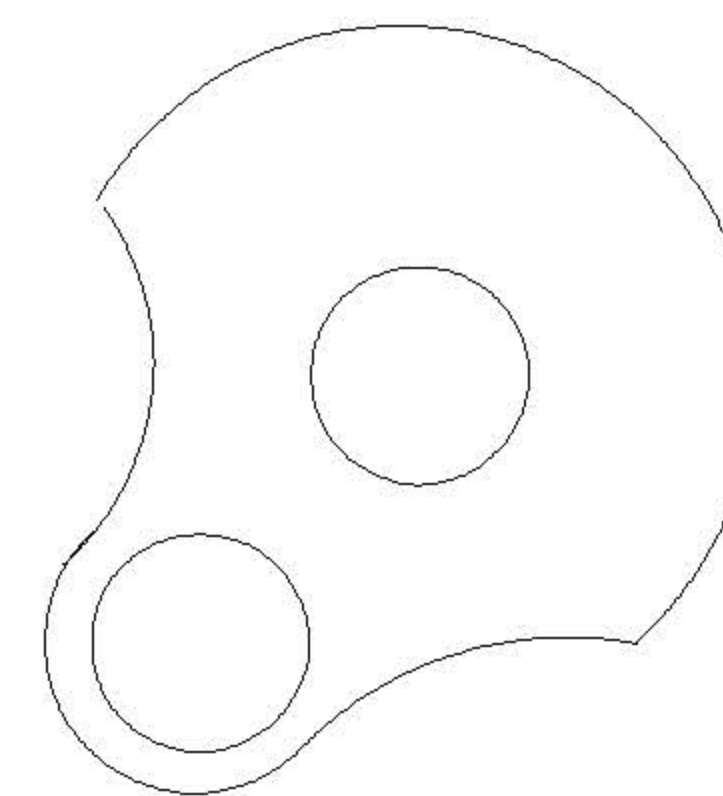
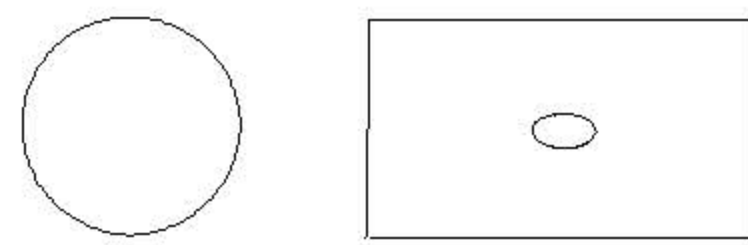


LOWER CRANKSHAFT BEARING SHELL



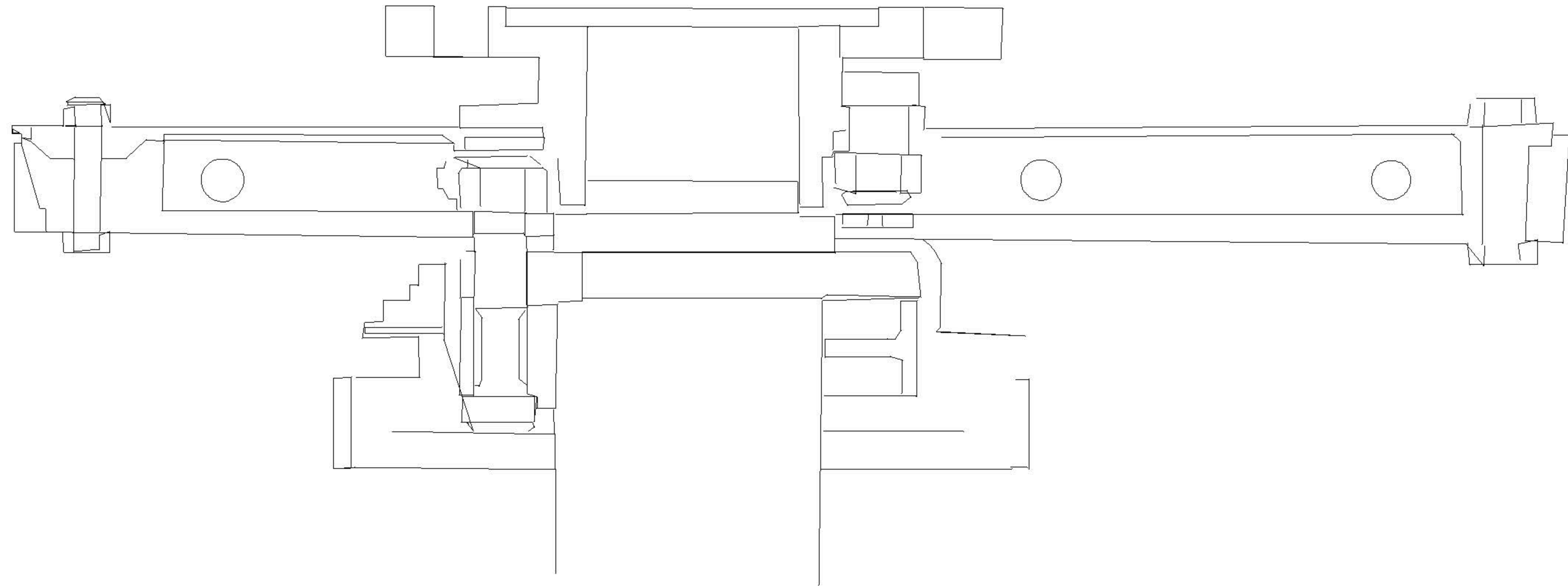


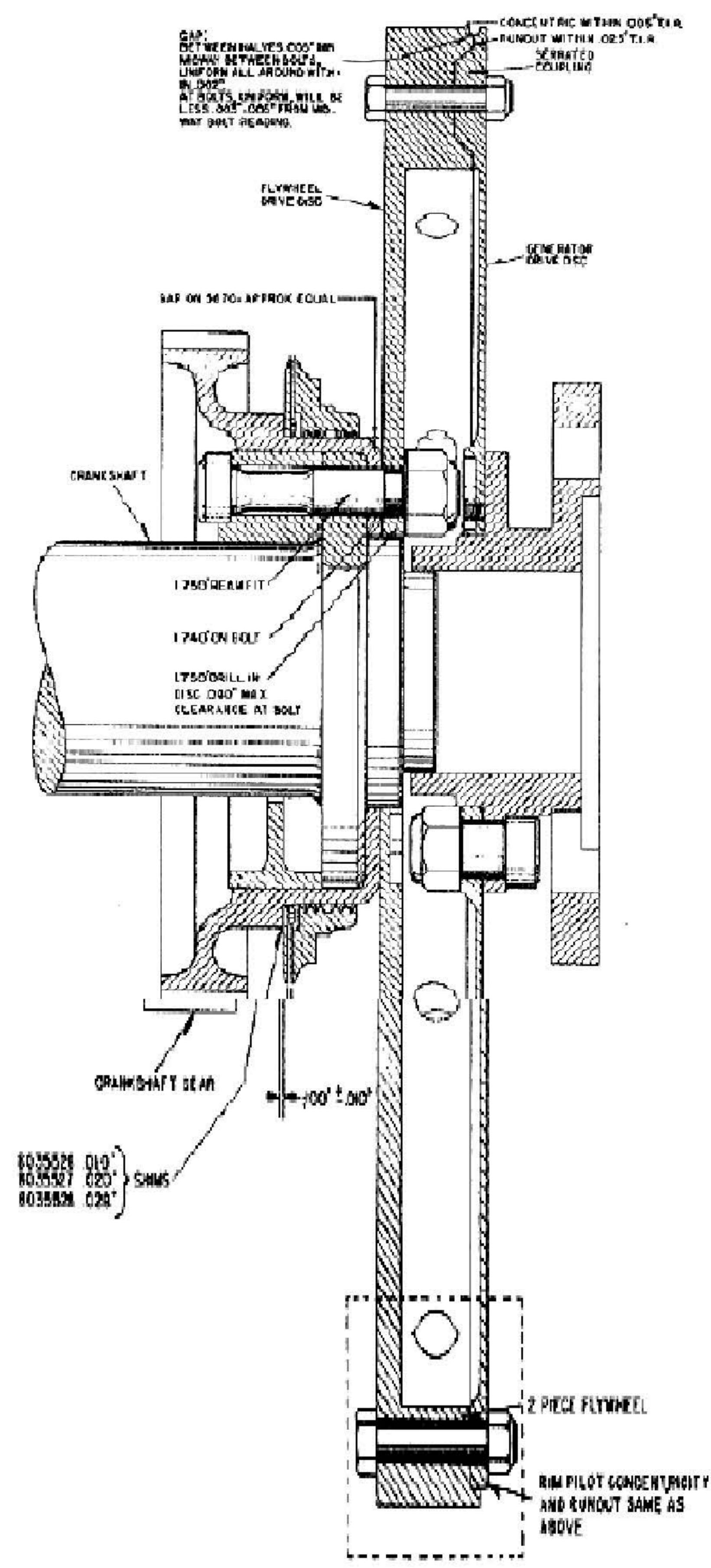




SIMPLE CRANKSHAFT

ADAM NUGENT ROSENBERGER, NOV 20 2020







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Colloquial Name

Name CRANKSHAFT ASSEMBLY
INC G3223
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see CRANKSHAFT,ENGINE; CRANKSHAFT,COMPRESSOR;

Approved Item Name

Name CRANKSHAFT,COMPRESSOR
INC [61607](#)
FIIG A509X0 (displayed for historical purposes only)
FIIG Title CRANKSHAFT, COMPRESSOR
Condition Code 2
Applicability Key
Definition A rotating member of an air compressor, designed to transmit the linear thrust of a piston(s) and connecting rod assembly(ies) into axial motion.

FSC	Name
2530	Vehicular Brake, Steering, Axle, Wheel, and Track Components
4130	Refrigeration and Air Conditioning Components
4310	Compressors and Vacuum Pumps
3 FSC(s) found.	

Approved Item Name

Name CRANKSHAFT,ENGINE
INC [60355](#)
FIIG A525B0 (displayed for historical purposes only)
FIIG Title CRANKSHAFT, ENGINE
Condition Code 2
Applicability Key
Definition A rotating member of an internal combustion engine, designed to transmit the linear thrust of a piston(s) and connecting rod assembly(ies) into axial motion.

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2810	Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
2815	Diesel Engines and Components
3 FSC(s) found.	



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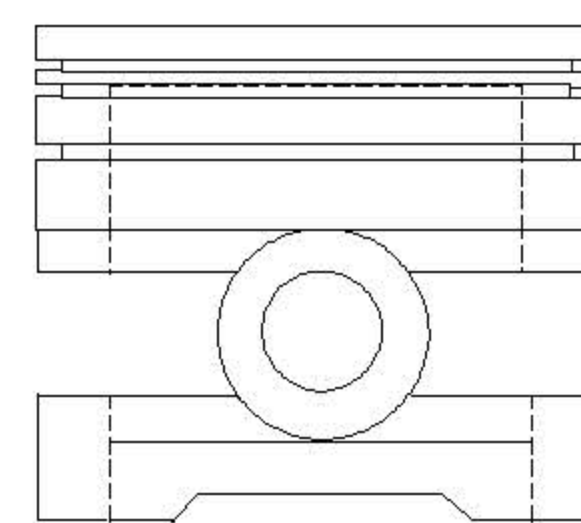
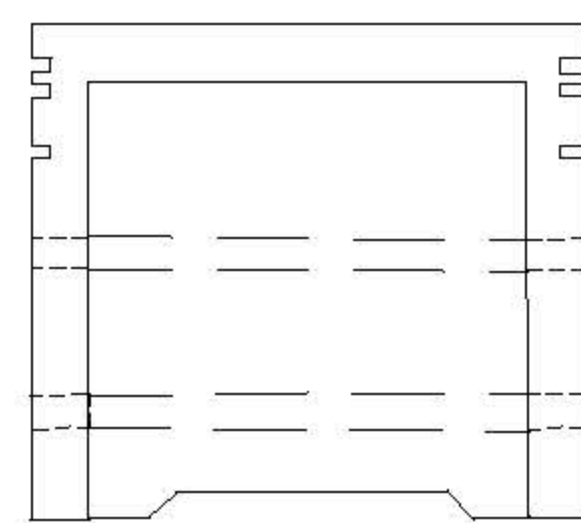
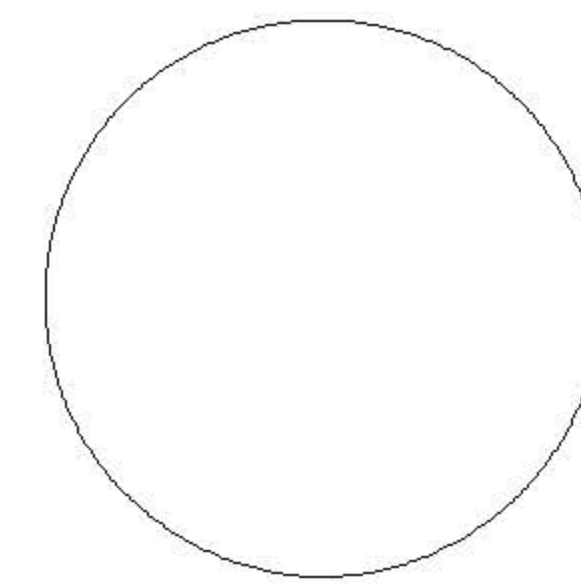
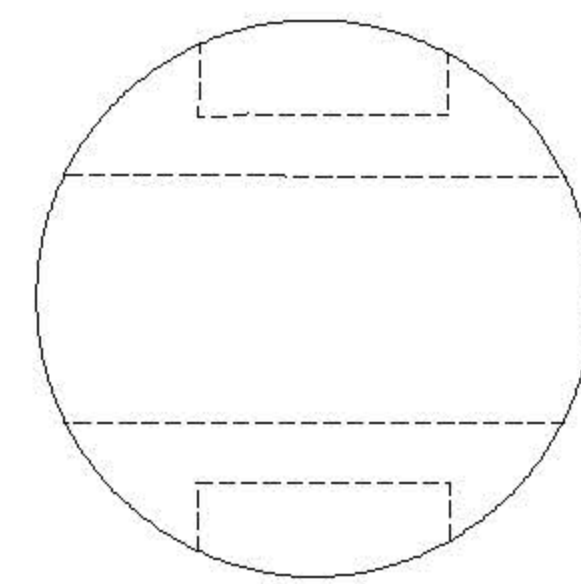
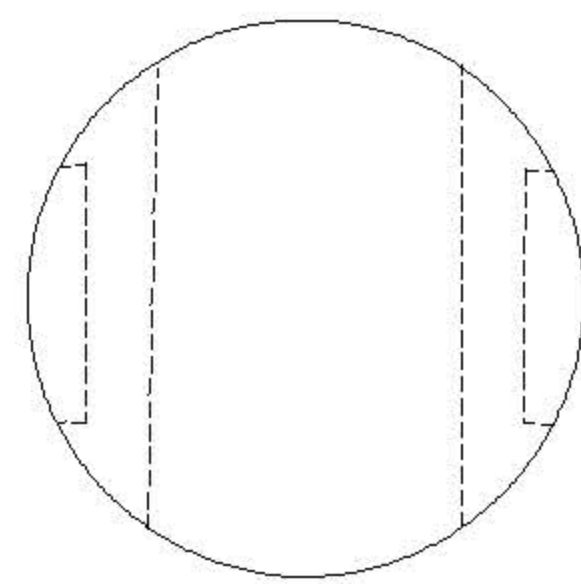
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Approved Item Name

Name	CYLINDER AND PISTON SET,DIESEL ENGINE
INC	51704
FIIG	A23800 (displayed for historical purposes only)
FIIG Title	SETS, KITS, GROUPS AND OUTFITS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	A unit of matched items consisting of a CYLINDER (1), ENGINE, DIESEL and a Piston, internal combustion engine. It may include piston rings, piston pins, and the like. See also CYLINDER SLEEVE and PISTON ASSEMBLY.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	



PISTON



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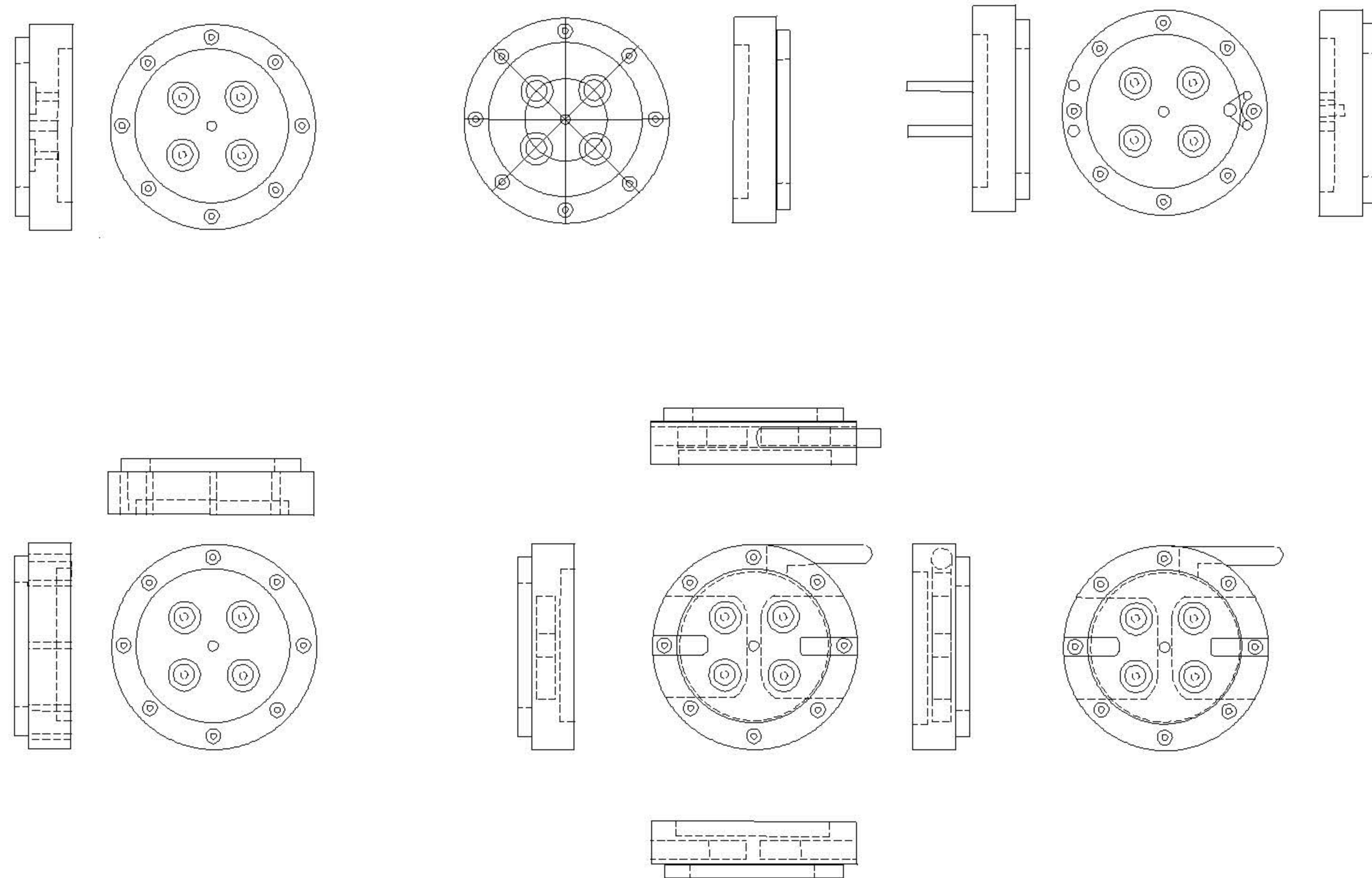
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Approved Item Name

Name ENGINE BLOCK ASSEMBLY,DIESEL
INC [16754](#)
FIIG A508J0 (displayed for historical purposes only)
FIIG Title ENGINE BLOCK ASSEMBLY (1), DIESEL
Condition Code 1
Applicability Key
Definition

FSC	Name
2815	Diesel Engines and Components

1 FSC(s) found.





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Approved Item Name

Name CYLINDER HEAD,DIESEL ENGINE
INC [60370](#)
FIIG A509V0 (displayed for historical purposes only)
FIIG Title CYLINDER HEAD, DIESEL ENGINE
Condition Code 1

Applicability Key

Definition

An item designed to inclose the cylinder bore(s) of an engine block to form a combustion chamber(s). It may have liquid cooling passage(s) and/or air cooling fin(s) and may include valve(s), valve guide(s), rocker arm(s), injector tube(s), and the like. It is a component part of an ENGINE, DIESEL. See also CYLINDER HEAD, GASOLINE ENGINE.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	



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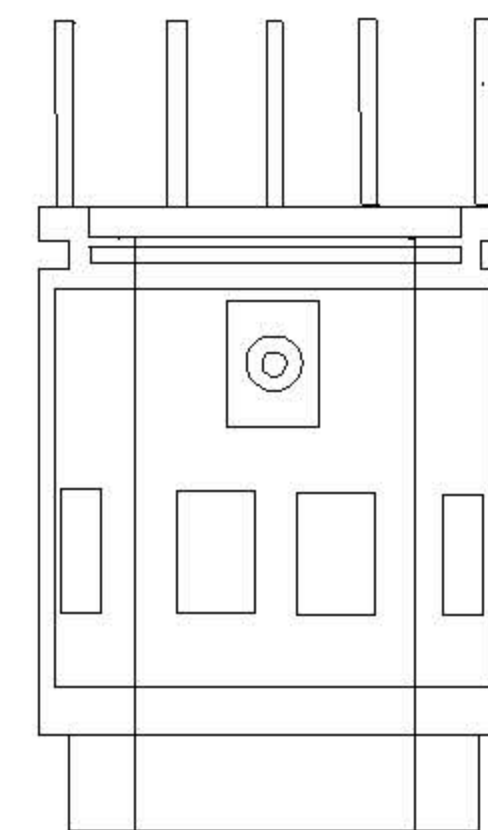
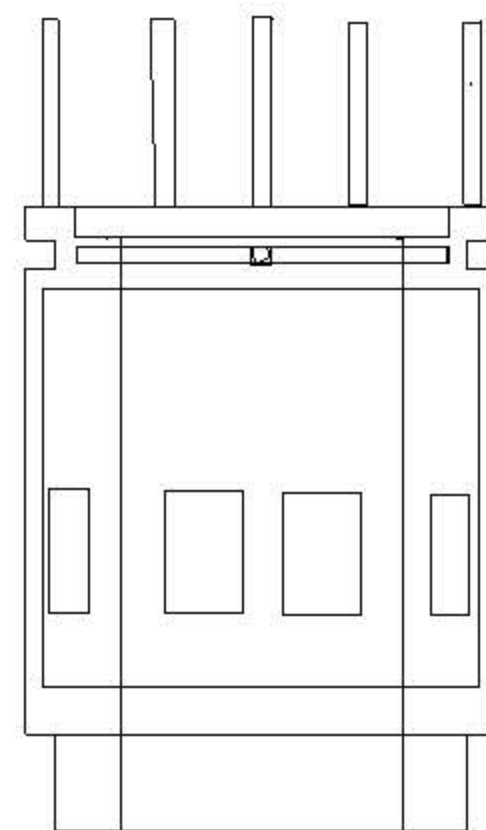
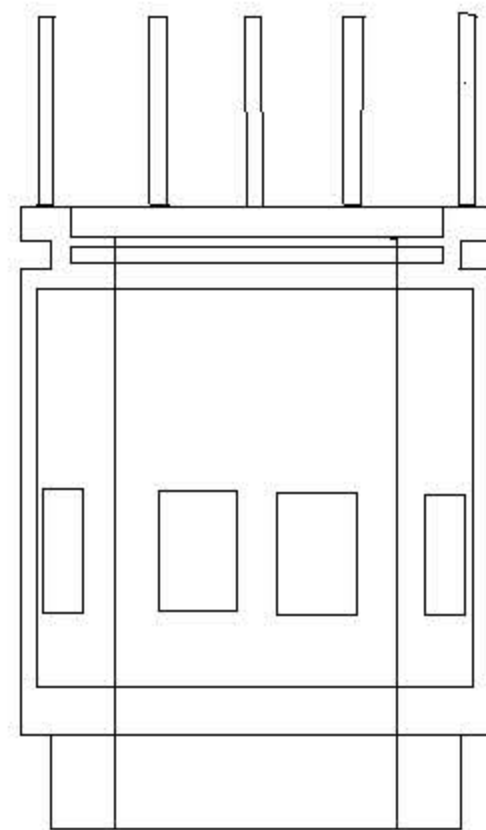
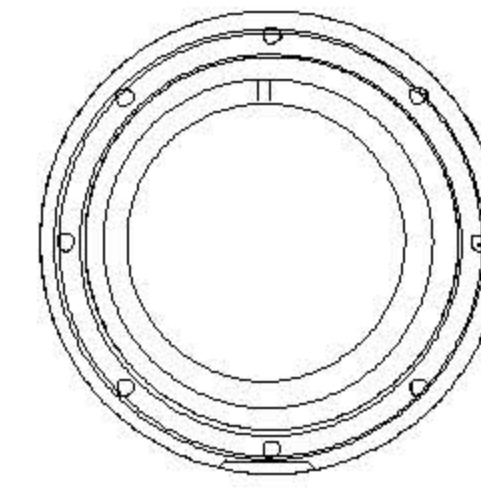
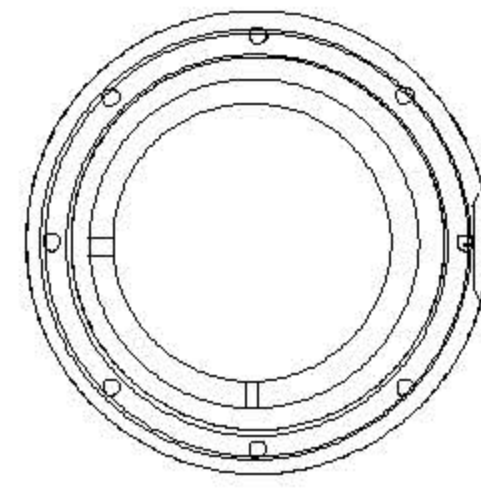
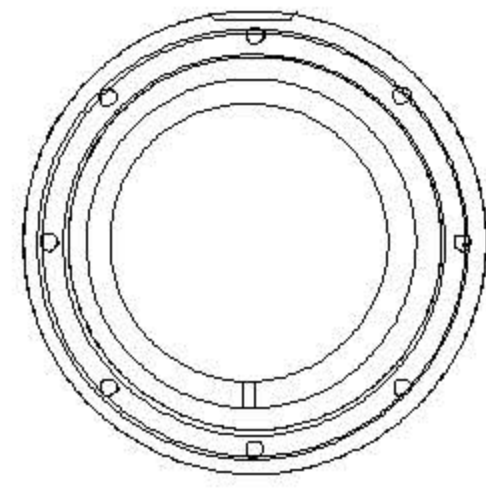
Colloquial Name

Name	SLEEVE AND PISTON ASSEMBLY,CYLINDER DIESEL ENGINE
INC	G3990
FIIG	
FIIG Title	
Condition Code	
Applicability Key	
Definition	see CYLINDER SLEEVE AND PISTON ASSEMBLY

Approved Item Name

Name	CYLINDER SLEEVE AND PISTON ASSEMBLY
INC	60372
FIIG	T267-B (displayed for historical purposes only)
FIIG Title	
Condition Code	2
Applicability Key	BB (displayed for historical purposes only)
Definition	A CYLINDER SLEEVE and PISTON (1), (as modified) with one or more of the following: piston pin, piston ring, gaskets and/or seals, grouped as a single unit and intended for one time replacement in the repair of engines, compressors, pumps, and the like.

FSC	Name
1650	Aircraft Hydraulic, Vacuum, and De-icing System Components
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2810	Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
2815	Diesel Engines and Components
4310	Compressors and Vacuum Pumps
4320	Power and Hand Pumps
6 FSC(s) found.	



CYLINDER LINER



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Colloquial Name

Name COVER,CYLINDER HEAD
INC K1832
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see COVER,ACCESS; COVER,ENGINE POPPET VALVE
ROCKER ARM;

Approved Item Name

Name COVER,ENGINE POPPET VALVE ROCKER ARM
INC [60338](#)
FIIG A517A0 (displayed for historical purposes only)
FIIG Title ROCKER ARM AND COMPONENTS, ENGINE POPPET VALVE
Condition Code 2
Applicability Key
Definition

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2810	Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
2815	Diesel Engines and Components
3 FSC(s) found.	

Approved Item Name

Name COVER,ACCESS
INC [29785](#)
FIIG A531C0 (displayed for historical purposes only)
FIIG Title COVER, ACCESS
Condition Code 2
Applicability Key
Definition A rigid or flexible item of various shapes attached to a structure for the purpose of providing access for inspection, service, replacement of components and/or adjustments or mounting operations. It is designed to be attached by means of bolt holes, slots, mounting ears, tabs, and the like. To permit access, the mounted cover requires partial or complete removal. It may include an observation window. For items permanently attached by hinges and the like, see DOOR, ACCESS (as modified). Excludes all covers not specifically designed to provide access for the purposes listed above.

FSC	Name
1005	Guns, through 30mm
2590	Miscellaneous Vehicular Components
5340	Hardware, Commercial

5342	Hardware, Weapon System
------	-------------------------

6520	Dental Instruments, Equipment, and Supplies
------	---------------------------------------------

5 FSC(s) found.	
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Last Updated: 2016-11-15



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Approved Item Name

Name	CYLINDER,ENGINE,DIESEL
INC	51705
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	A tubular-shaped item designed to be bolted to an engine block or the like. It may include external cooling fins. See also CYLINDER SLEEVE.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	



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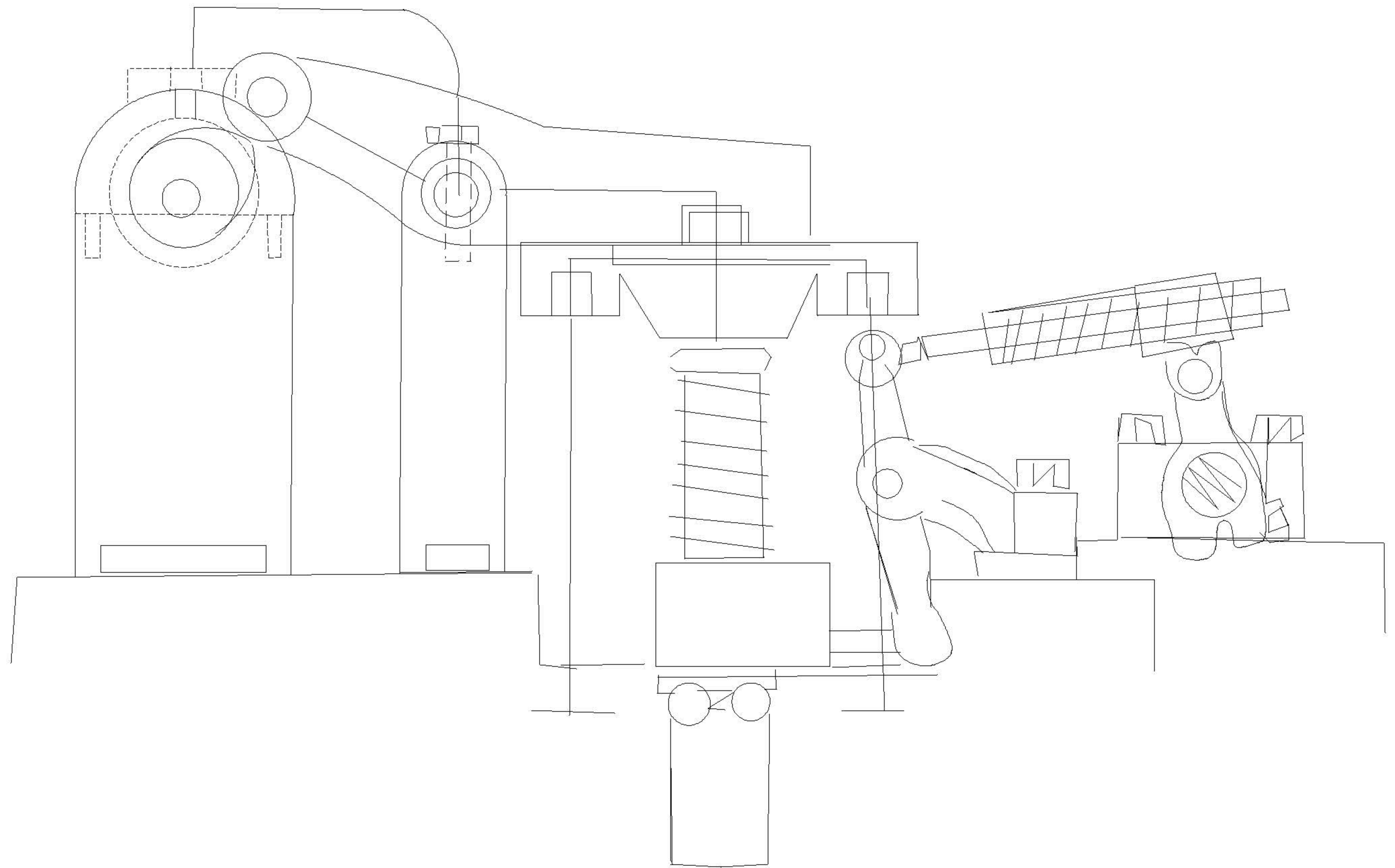
Colloquial Name

Name HEAD ASSEMBLY,CYLINDER
INC K2460
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see CYLINDER HEAD,DIESEL ENGINE;

Approved Item Name

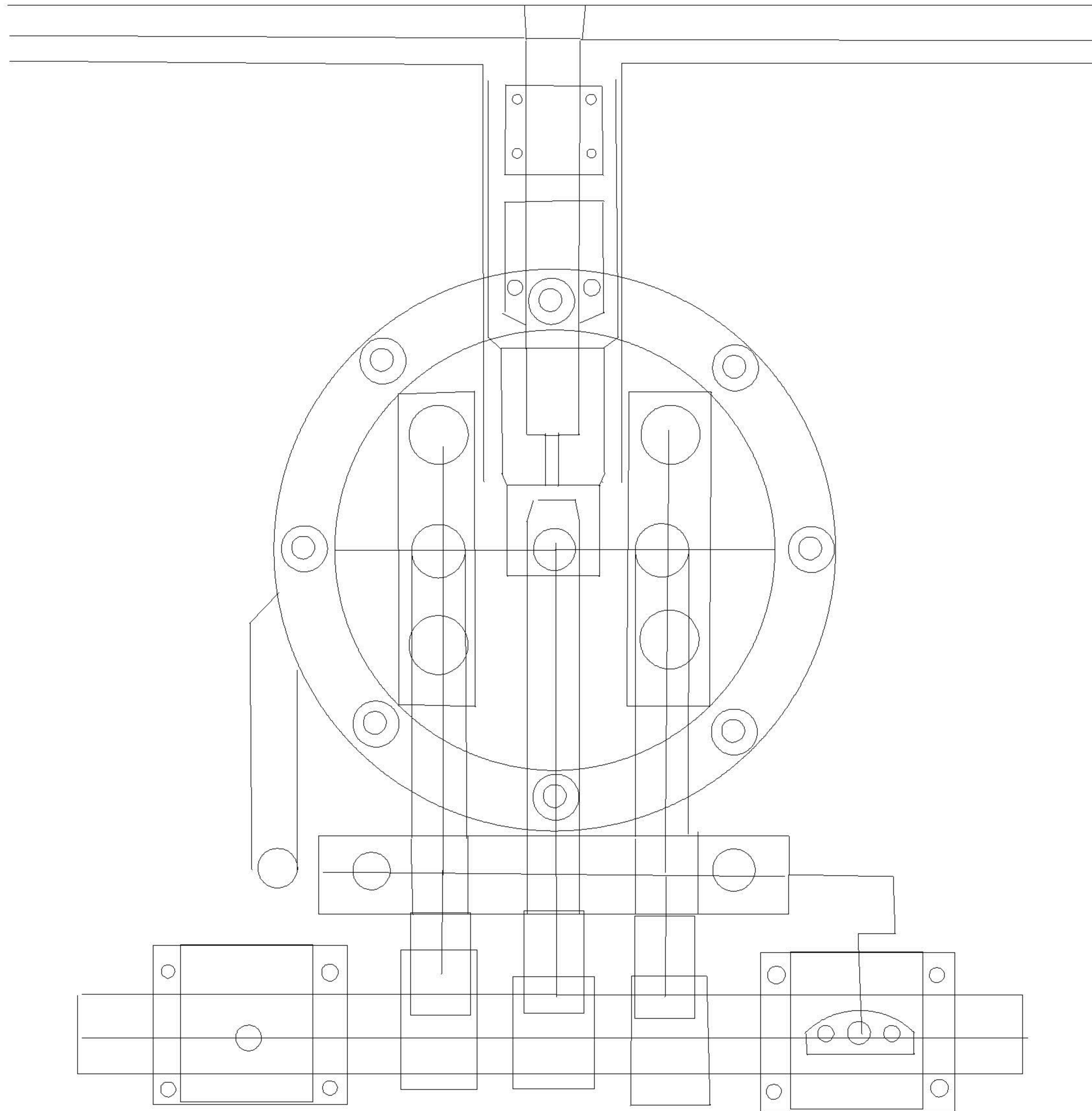
Name CYLINDER HEAD,DIESEL ENGINE
INC [60370](#)
FIIG A509V0 (displayed for historical purposes only)
FIIG Title CYLINDER HEAD, DIESEL ENGINE
Condition Code 1
Applicability Key
Definition An item designed to inclose the cylinder bore(s) of an engine block to form a combustion chamber(s). It may have liquid cooling passage(s) and/or air cooling fin(s) and may include valve(s), valve guide(s), rocker arm(s), injector tube(s), and the like. It is a component part of an ENGINE, DIESEL. See also CYLINDER HEAD, GASOLINE ENGINE.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	



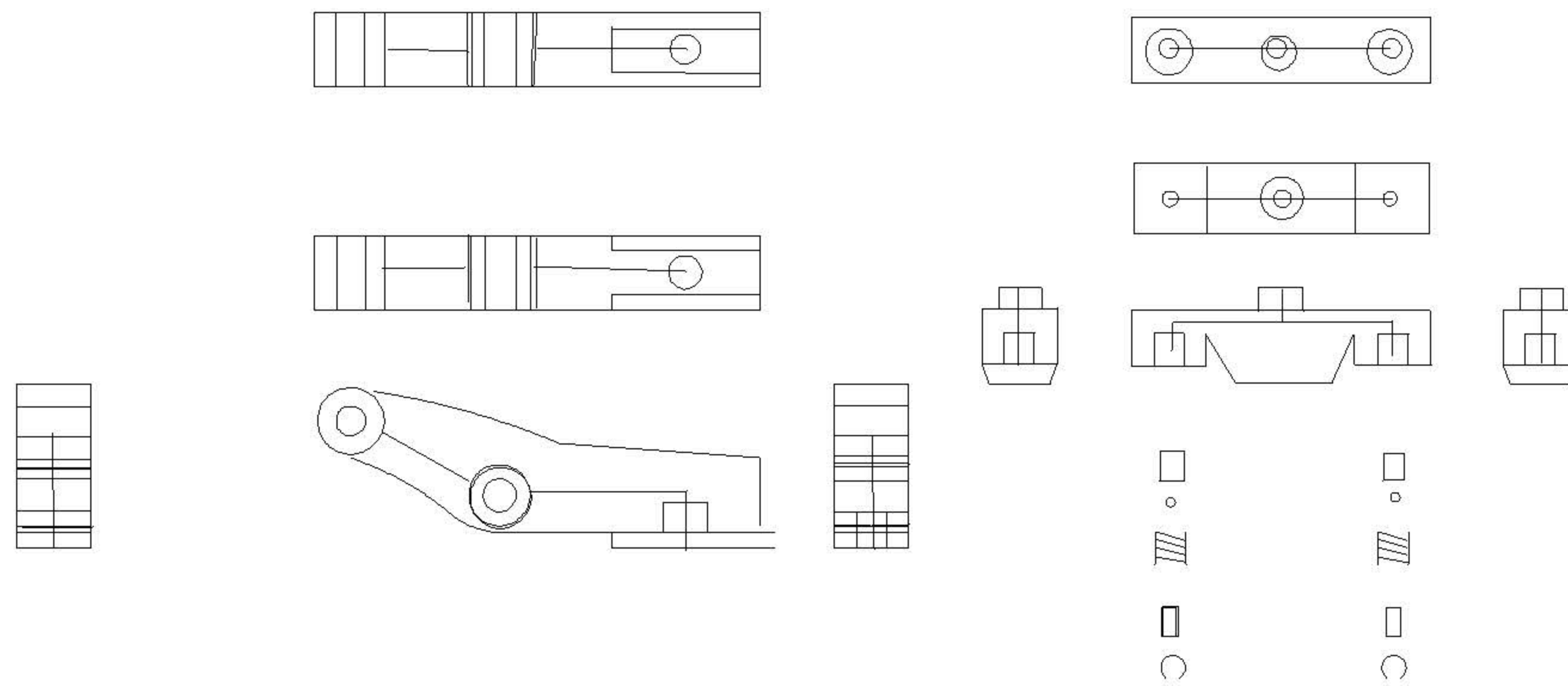
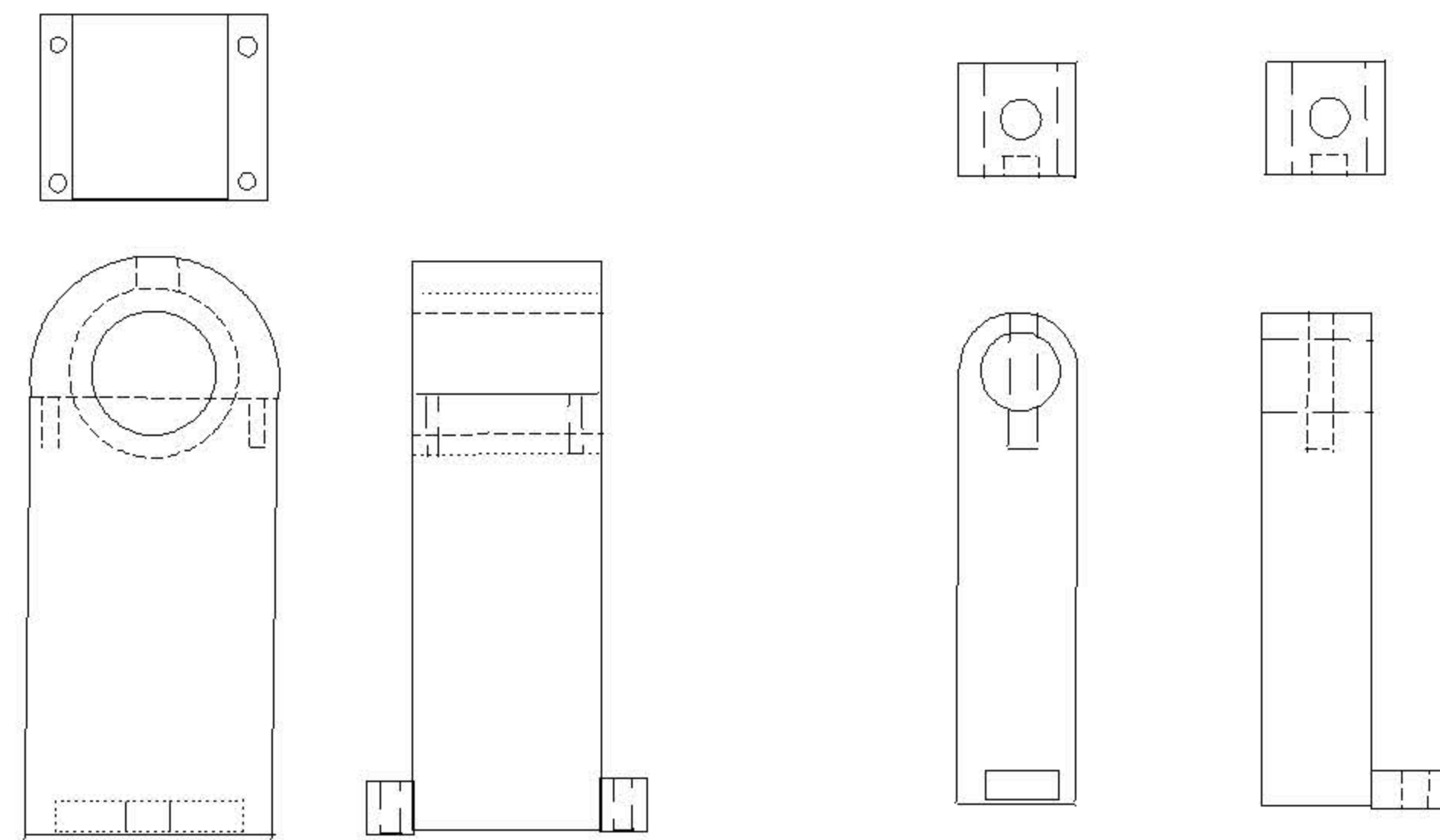
SIDEVIEW WITH OIL JUMPER

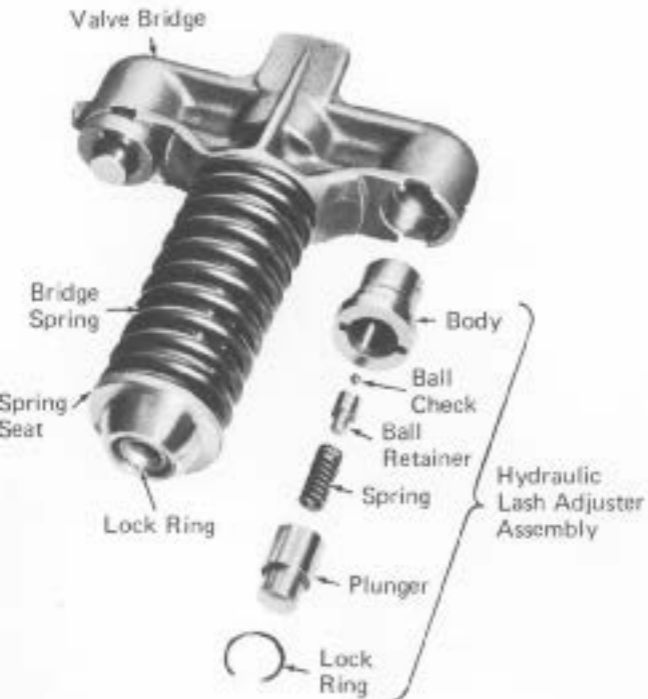
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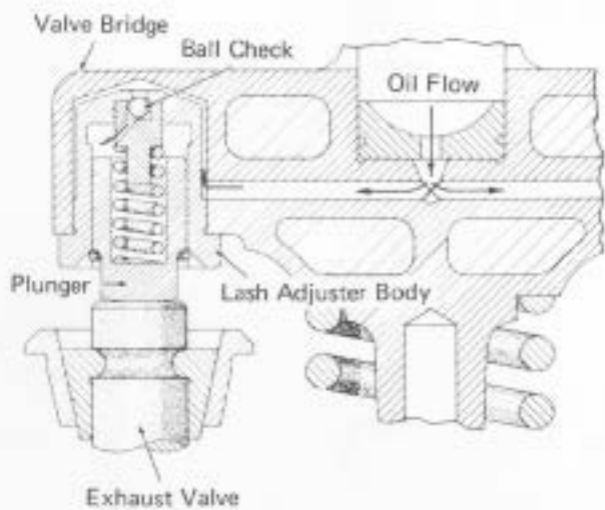
OVERHEAD CYLINDER WITH OIL JUMPER

ADAM NUGENT ROSENBERGER. NOV 20 2020

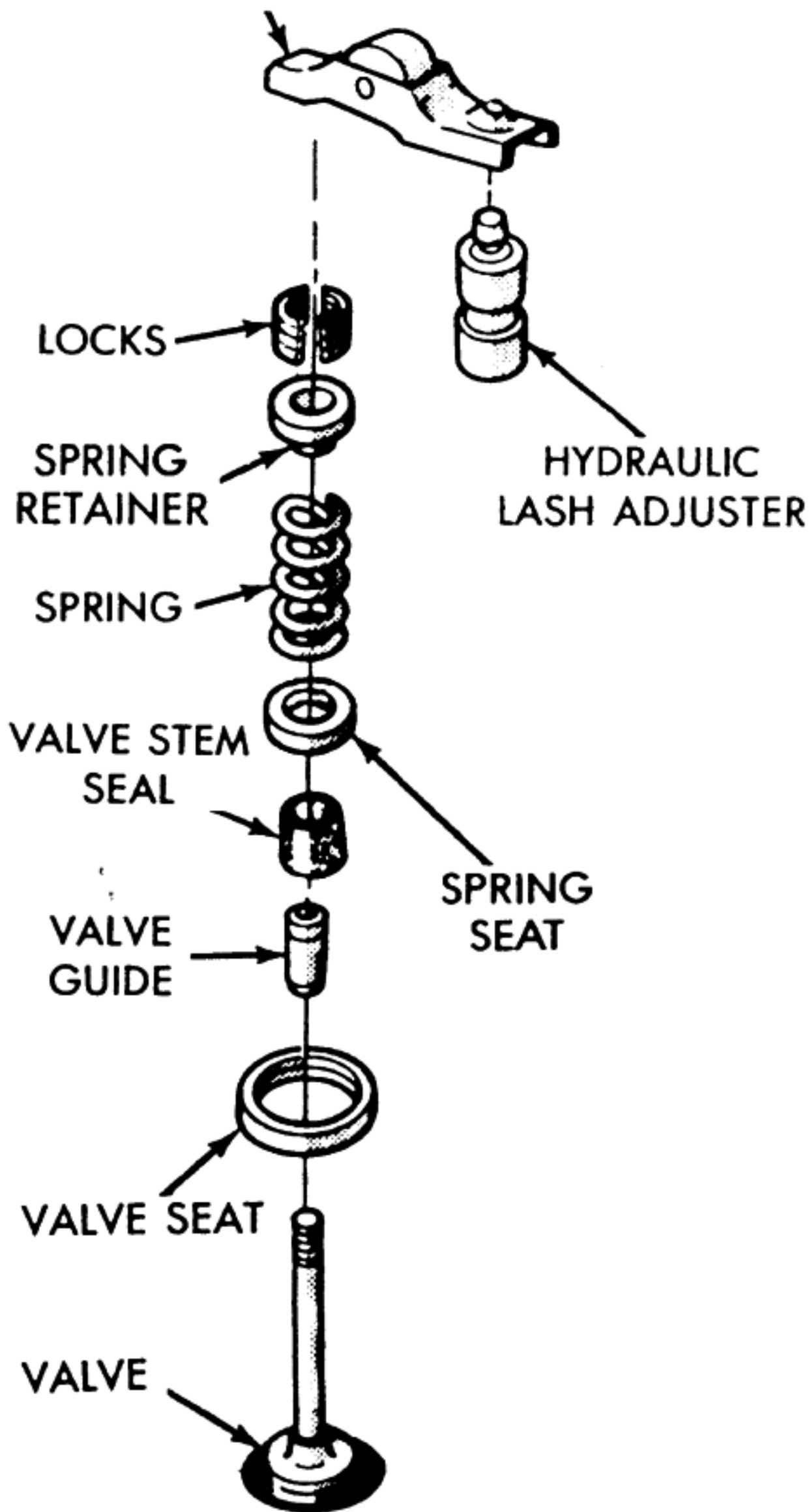




17930



ROCKER ARM
(ROLLER FOLLOWER)





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Colloquial Name

Name DIESEL INJECTOR NOZZLE TESTER
INC H3908
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see TESTER, DIESEL FUEL INJECTOR NOZZLE

Approved Item Name

Name TESTER,DIESEL FUEL INJECTOR NOZZLE
INC [10866](#)
FIIG T273-H (displayed for historical purposes only)
FIIG Title
Condition Code 1
Applicability Key HA (displayed for historical purposes only)
Definition A manually operated test unit designed to check diesel fuel injector nozzles and holders for operation, opening pressure, and spray pattern.

FSC	Name
4910	Motor Vehicle Maintenance and Repair Shop Specialized Equipment
1 FSC(s) found.	



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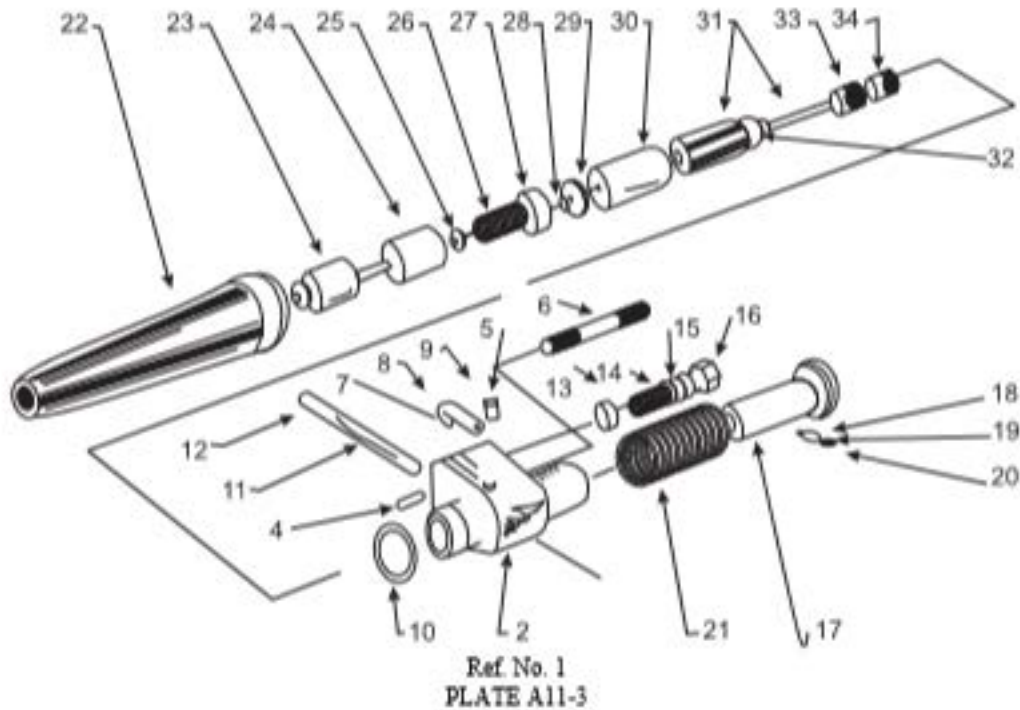
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Approved Item Name

Name	PARTS KIT,FUEL INJECTOR,DIESEL ENGINE
INC	28595
FIIG	A23800 (displayed for historical purposes only)
FIIG Title	SETS, KITS, GROUPS AND OUTFITS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	A group of parts, not having the same basic name, designed to transmit the intermittent motion. It is used for the replacement of worn and/or broken parts of a diesel engine fuel injector assembly. It may include pin(s), roller(s), socket(s), or wire locking.

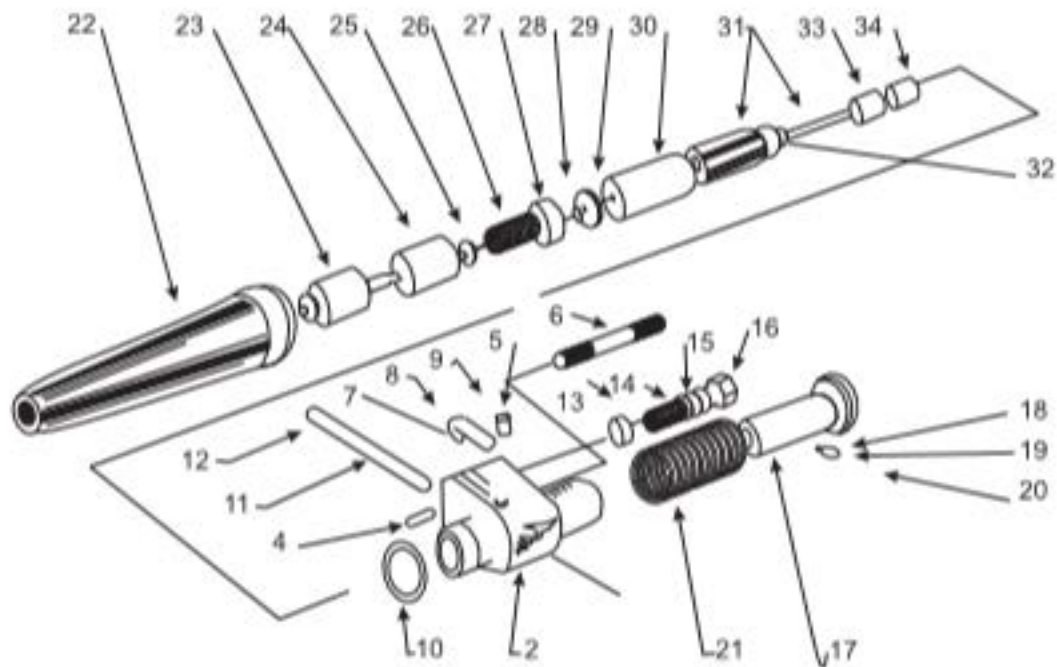
FSC	Name
2910	Engine Fuel System Components, Nonaircraft
1 FSC(s) found.	

FUEL INJECTOR
16,20-645F4B,F7B Engines



Ref. No.	Part Number	Qty	Req.	Description
		A	-	16-645F4B,F7B Engines
		-	B	20-645F4B,F7B Engines
		-	-	C
		-	-	20-645F4B Engine - 750 R.P.M.
1	40084714	1	-	INJECTOR ASM (Utex 9561950) (Replaces 5226210)
1	40084715	-	1	INJECTOR ASM (Utex 9576569) (Replaces 5226430)
1	40083517	-	-	INJECTOR ASM .. Fuel (Replaces 5226160)
2	5229709	1	1	BODY ASM .. Injector
3	5228462	2	2	PLUG .. Injector body (part discontinued)
4	5226482	1	1	DOWEL .. Injector
5	5226727	1	1	PIN .. Rack guide
6	5226484	1	1	STUD .. Fuel connection
7	5228745	1	1	ADAPTER .. Calibration slide
8	5228758	1	1	SCREW .. Set - No. 8-32 x .220 Nylock
9	9421614	1	1	SCREW .. Socket head cap - No. 8-32 x 3/8
10	5235572	1	1	SEAL .. Body to nut (Replaces 5226571)
11	5229045	1	1	RACK ASM .. Injector
12	5227401	1	1	PIN .. Rack
13	5228013	2	2	ELEMENT .. Filter - Stainless steel mesh
14	5226415	2	2	SPRING .. Filter
15	5226186	2	2	GASKET .. Filter cap
16	5226512	2	2	CAP .. Fuel filter
17	5228139	1	1	FOLLOWER .. Injector
18	5227914	1	1	PIN .. Stop
19	5227904	1	1	SPRING .. Stop pin
20	5228184	1	1	RETAINER .. Stop pin and spring
21	5226491	1	1	SPRING .. Plunger
22	5228545	1	1	NUT .. Injector

FUEL INJECTOR
645 Engines



Ref. No. 1
PLATE A11-2

Ref. No.	Part Number	Quantity Required						Description
		A	B	C	D	E	F	
1	40084719	1						INJECTOR ASM (Utex 8478045)... Fuel - (replaces 5229200 and 5228830)
1	40084719	1						INJECTOR ASM (Utex 8478045)... Fuel (replaces 5229200 and 5228830)
1	40084720		1					INJECTOR ASM (Utex 8478046)... Fuel - (replaces 5229250 and 5228895)
1	40084720		1					INJECTOR ASM (Utex 8478046)... Fuel (replaces 5229250 and 5228895)
1	5229315			1				INJECTOR ASM... Fuel (Replaces 5228970) (part discontinued)
1	5229315			1				INJECTOR ASM... Fuel (Replaces 5228970) (part discontinued)
1	40084724				1			INJECTOR ASM (Utex 8478054)... Fuel - (replaces 5229325 and 5229015)
1	40084724				1			INJECTOR ASM (Utex 8478054)... Fuel (replaces 5229325 and 5229015)
1	40084723					1		INJECTOR ASM... Fuel (Replaces 5229320)
1	40084725						1	INJECTOR ASM (Utex 8478055)... Fuel (Replaces 5229335)
2	5228798	1						BODY ASM... Injector - Replaces 5229761
2	5228888		1	1				BODY ASM... Injector - (Replaces 5228887)
2	5229039				1	1	1	BODY ASM-INJECTOR (Utex 9549429) - (Replaces 5229037)
* 3	5226912	2						PLUG... Injector body
* 3	5228462	2	2	2	2	2	2	PLUG... Injector body (part discontinued)
4	5226482	1	1	1	1	1	1	DOWEL... Injector
5	5226727	1	1	1	1	1	1	PIN... Rack guide
6	5226484	1	1	1	1	1	1	STUD... Fuel connection
7	5228745	1	1	1	1	1	1	ADAPTER... Calibration slide
8	5228758	1	1	1	1	1	1	SCREW... Set - No. 8 - 32 x .220 Nylock
9	9421614	1	1	1	1	1	1	SCREW... Socket head cap - No. 8 - 32 x 3/8
10	5235572	1	1	1	1	1	1	SEAL... Body to nut (Replaces 5226571)
11	5226496	1						RACK ASM... Injector
11	5228890		1	1				RACK ASM... Injector
11	5229045				1	1	1	RACK ASM... Injector
12	5227401	1	1	1	1	1	1	PIN... Rack

INJECTOR CONTROL LINKAGE
Spring-Loaded Adjusting Link

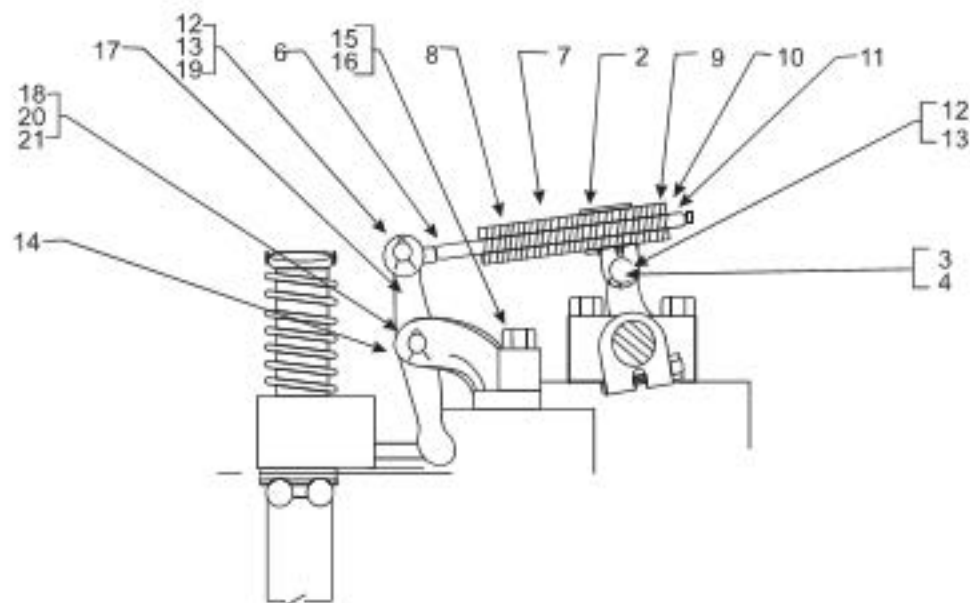


PLATE A15-2

Ref. No.	Part Number	Quantity Required				Description
		A	-	-	-	8-645 E1,E2,E5,E6,E7,E7B,E7C Engines
		-	B	-	-	12-645 E2,E4,E4B,E5,E6,E7,E7B,E7C,E8,E9B Engines
		-	-	C	-	16-645 E2,E4,E4B,E5,E6,E7,E7B,E7C,E8 Engines
		-	-	-	D	20-645 E4,E4B,E5,E7,E7B,E7C Engines
<i>Quantities listed are for one engine.</i>						
*1	8305892	8	12	16	20	LINK ASSEMBLY .. Adjusting - Injector control - Spring loaded
2	8034846	8	12	16	20	NUT .. 5/8-24 hex.
3	8359417	8	12	16	20	LINK .. Adjusting
4	148401	8	12	16	20	BEARING .. Needle
*5	3328369	8	12	16	20	SLIP JOINT ASSEMBLY .. Injector control
6	3328360	8	12	16	20	ROD .. Clevis
7	3328361	8	12	16	20	SLEEVE .. Slip joint
8	3250496	8	12	16	20	SPRING .. Tension
9	3247166	16	24	32	40	COLLAR .. Spring holding
10	3345099	16	24	32	40	RING .. Snap
11	3328504	8	12	16	20	NUT .. Special
12	8028103	16	24	32	40	PIN .. Clevis - Link attaching - 1/4 x 1-1/8
13	148147	16	24	32	40	RETAINER .. Spring - Clevis pin - 3/16 dia. groove
14	9541016	8	12	16	20	BRACKET .. Control lever - Formerly 8418278
15	179890	8	12	16	20	BOLT .. Bracket mounting - 1/2-13 x 2-1/4 hex. head
16	6101229	8	12	16	20	WASHER .. Plain - 1/2 (Replaces 8349503)
17	9522625	8	12	16	20	LEVER ASSEMBLY .. Injector control - Formerly 8215506
18	148402	8	12	16	20	BEARING .. Needle
19	148401	8	12	16	20	BEARING .. Needle
20	8028098	8	12	16	20	PIN .. Clevis - Lever to bracket - 1/2 x 1-1/16
21	148151	8	12	16	20	RETAINER .. Spring - Clevis pin - 7/16 dia. groove

INJECTOR CONTROL LINKAGE
Standard Type Adjusting Link

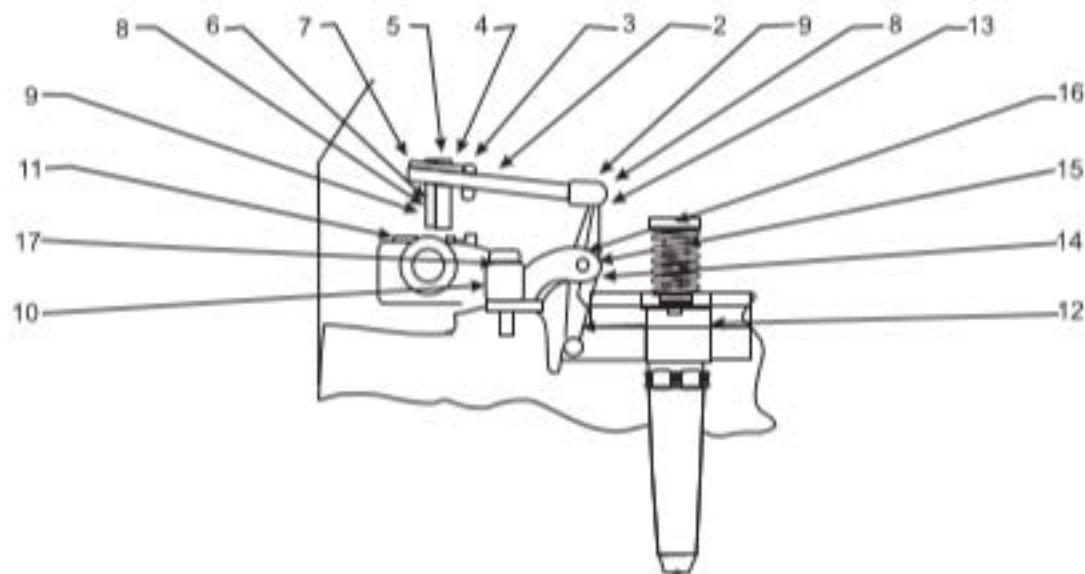
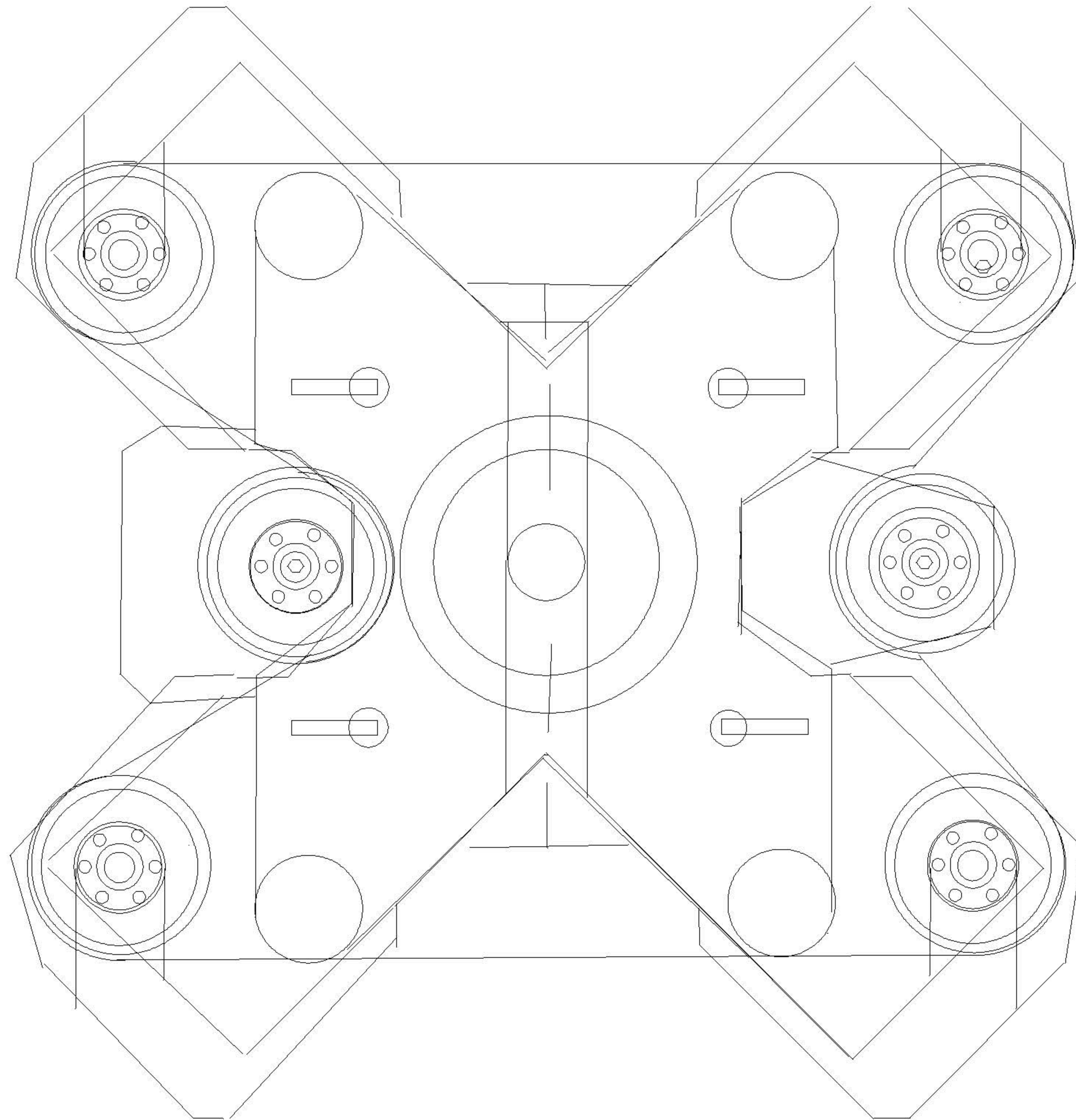


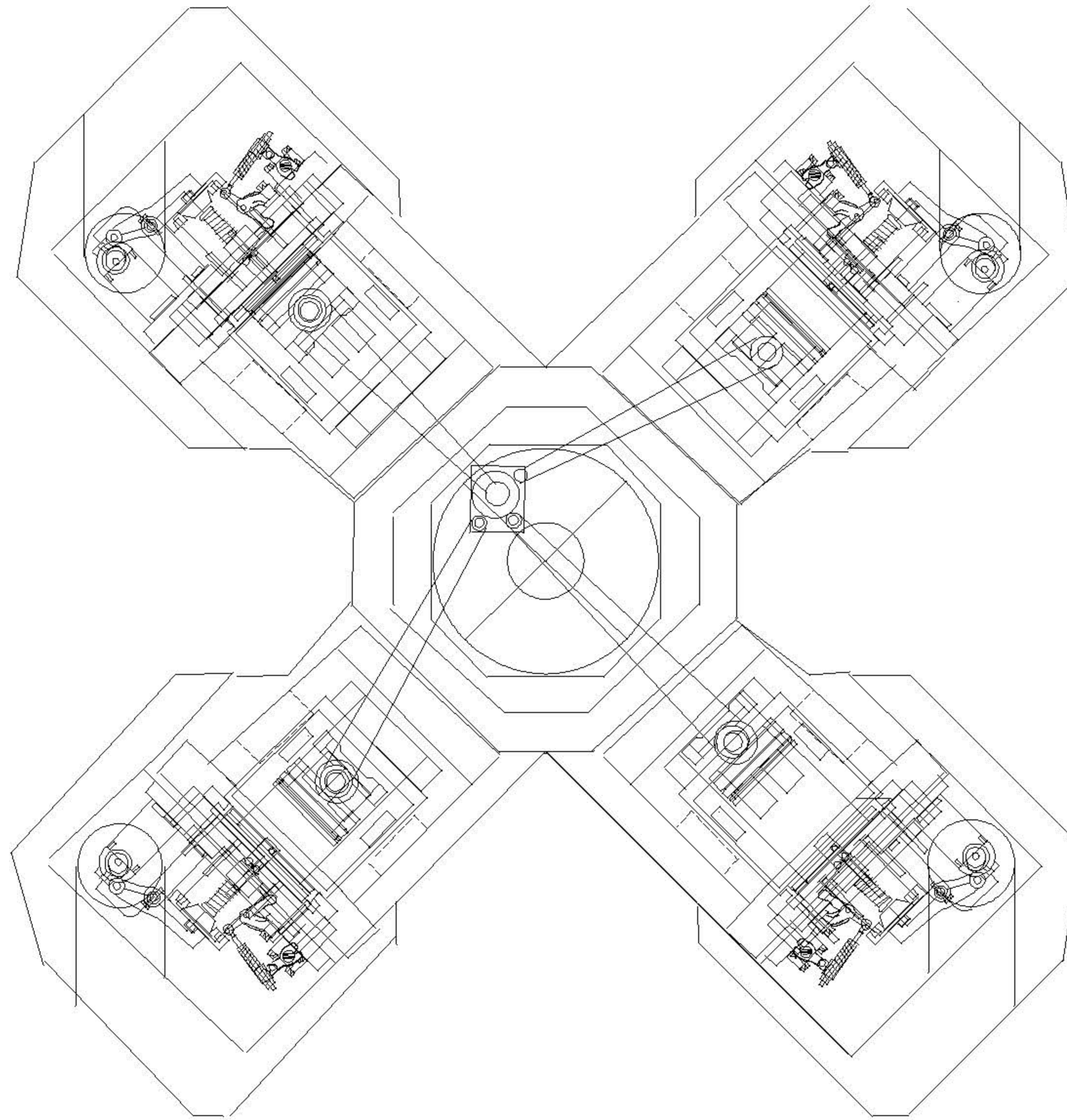
PLATE A15-3

Ref. No.	Part Number	Quantity Required				Description
		A	B	C	D	
		-	-	-	-	8-645 E1,E4,E4B,E8 Engines
		-	-	-	-	12-645 E1,E4,E4B,E8,E9,E9B Engines
		-	-	-	-	16-645 E1,E4,E4B,E8,E9,E9B,E10B Engines
		-	-	-	-	20-645 E4,E4B,E7B,E9,E9B,E10B Engines
<i>Quantities listed are for one engine.</i>						
*1	8070027	8	12	16	20	LINK ASSEMBLY .. Adjusting - Standard type
2	8069697	8	12	16	20	SHAFT .. Link
3	8034849	8	12	16	20	COLLAR .. Shaft
4	8034846	8	12	16	20	NUT .. Collar- 5/8-24 hex.
5	8359417	8	12	16	20	LINK .. Adjusting
6	148401	8	12	16	20	BEARING .. Needle
7	8034847	8	12	16	20	WASHER .. Peened to shaft
8	8028103	16	24	32	40	PIN .. Clevis -1/4 x 1-1/8 in. long
9	148147	16	24	32	40	RETAINER .. Spring - 3/16 dia. groove
10	9541016	8	12	16	20	BRACKET .. Control lever - Formerly 8418278
11	179890	8	12	16	20	BOLT .. 1/2-13 x 2-1/4 hex. head
12	9522625	8	12	16	20	LEVER ASSEMBLY .. Injector control - Formerly 8215506
13	148401	8	12	16	20	BEARING .. Needle
14	148402	8	12	16	20	BEARING .. Needle
15	8028098	8	12	16	20	PIN .. Clevis - 1/2 x 1-3/32 in. long
16	148151	8	12	16	20	RETAINER .. Spring -7/16 dia. groove
17	6101229	8	12	16	20	WASHER .. Flat - 1/2 (Replaces 8349503) - Formerly 103323 lockwasher



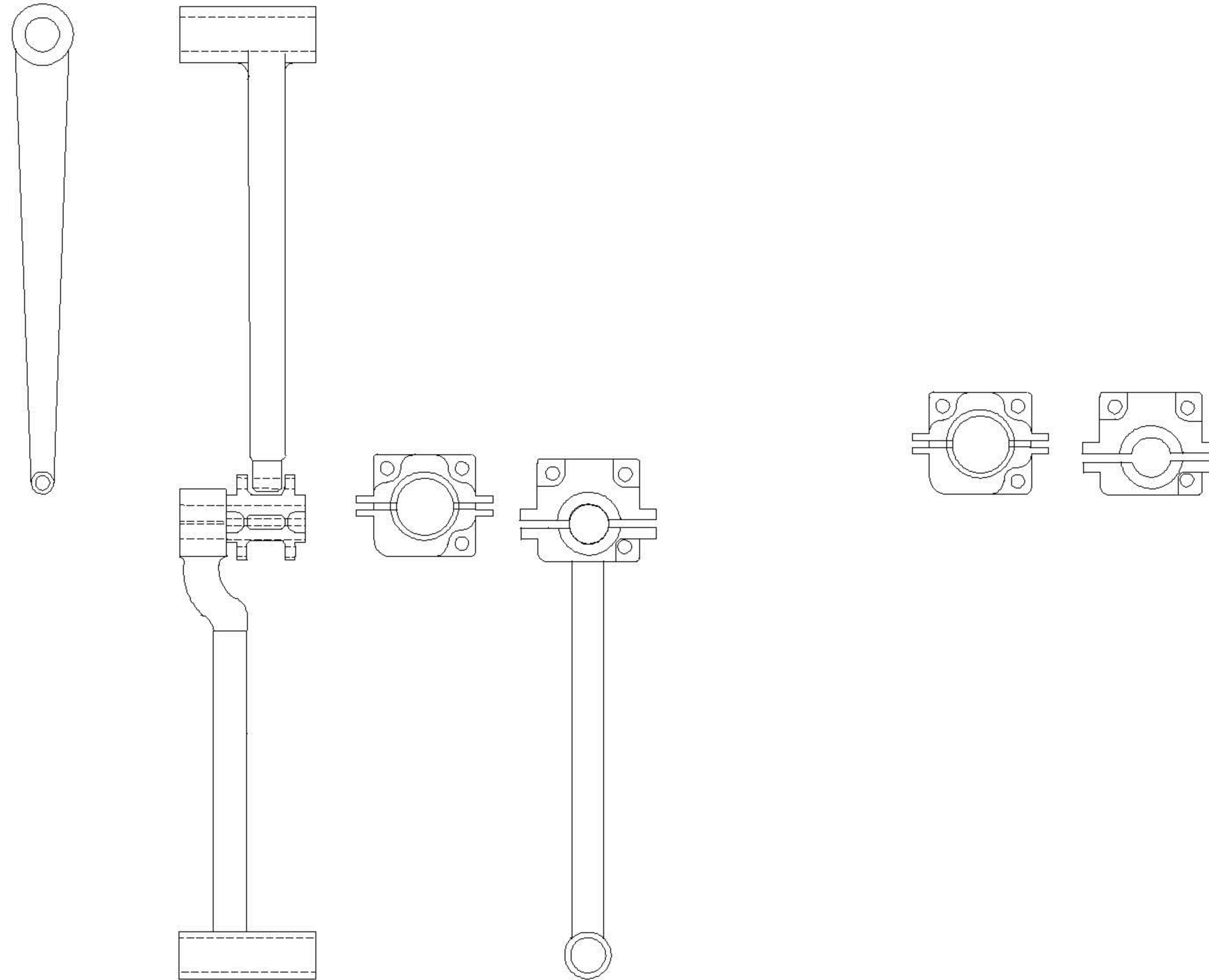
FRONT VIEW ENGINE /GOVERNOR

ADAM NUGENT ROSENBERGER, 1/29/2021

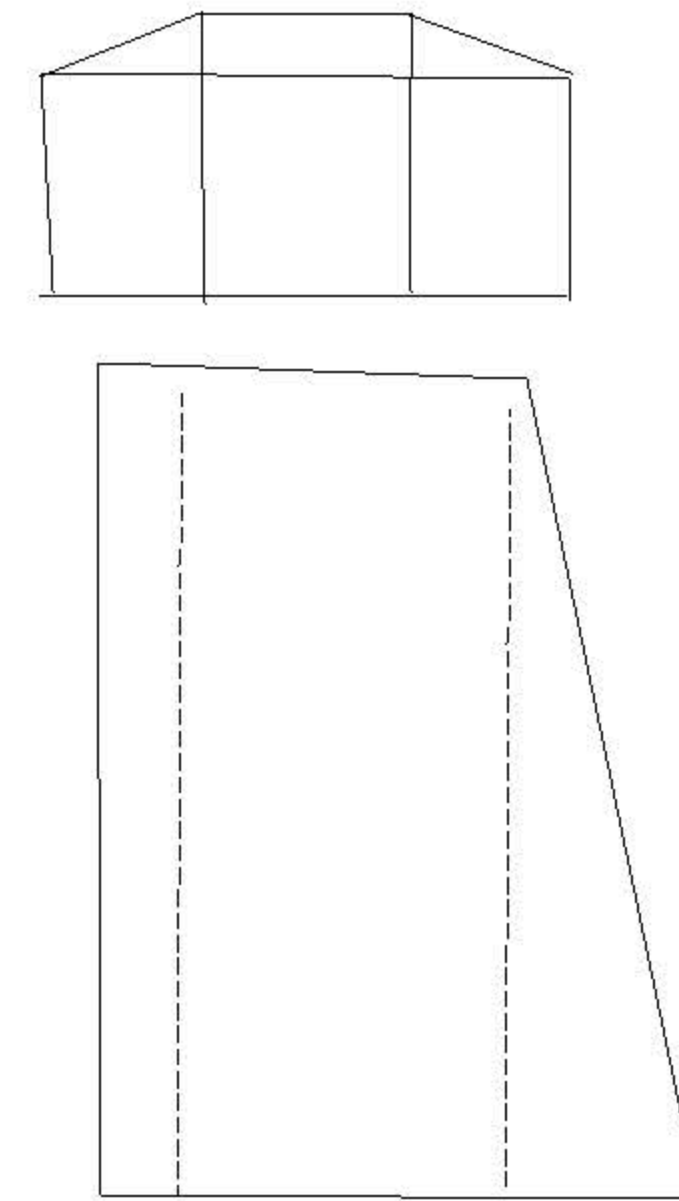
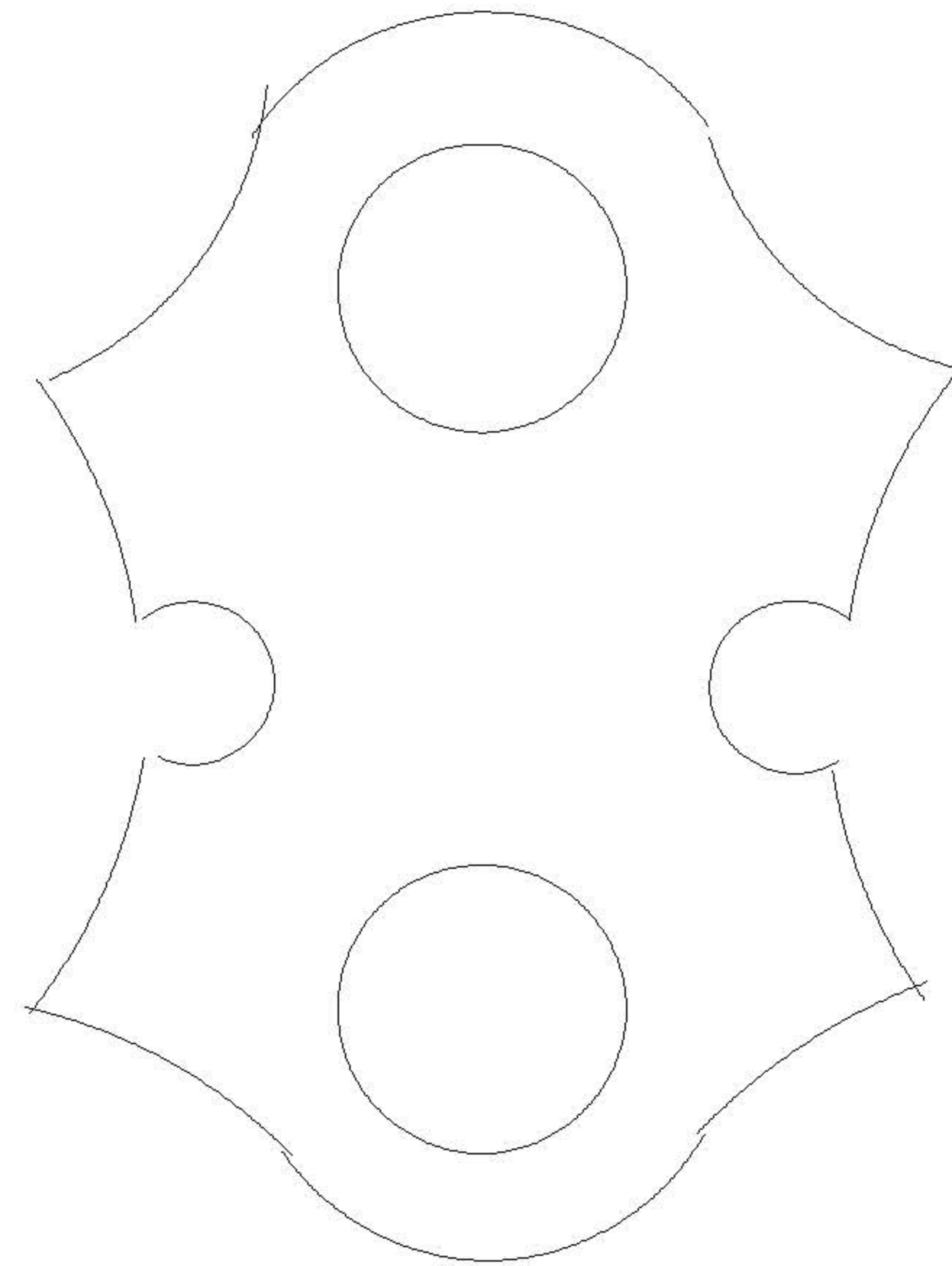
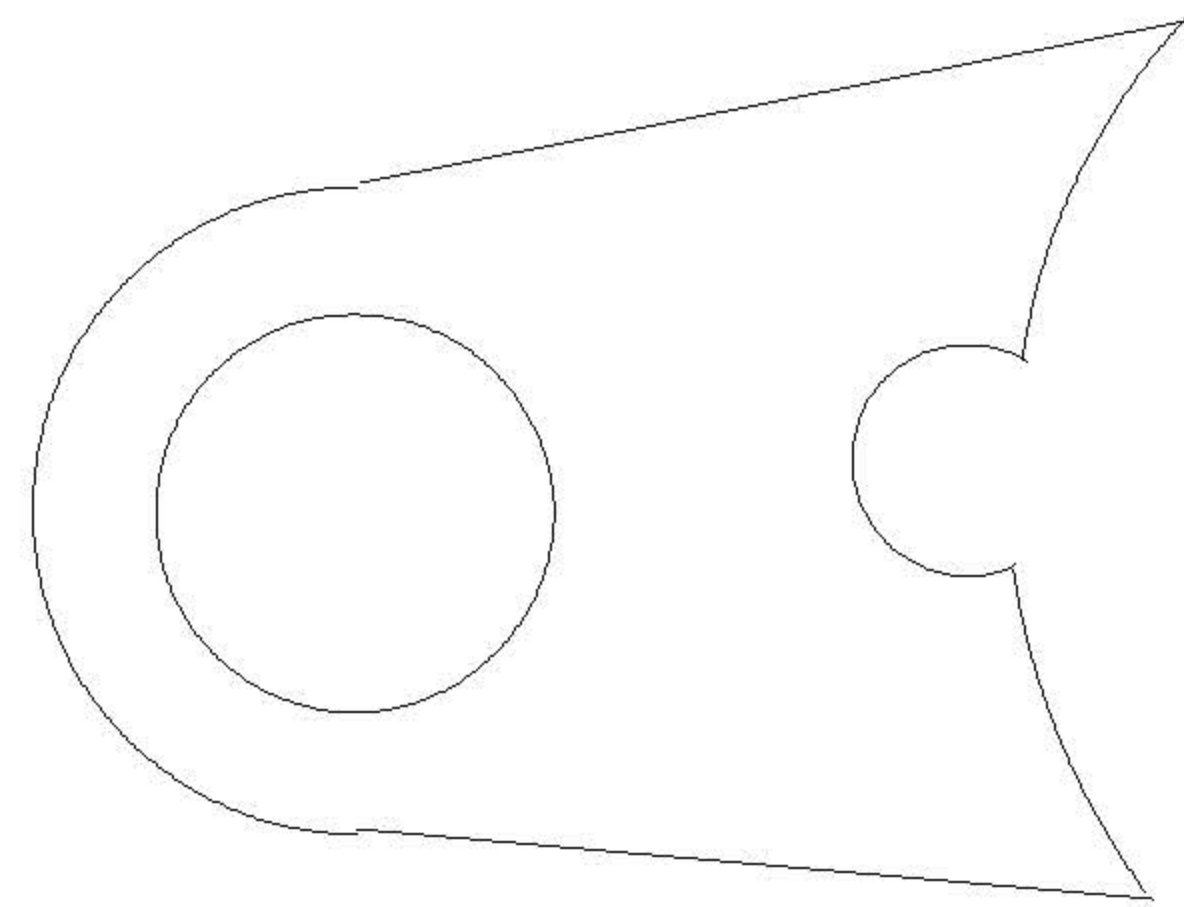


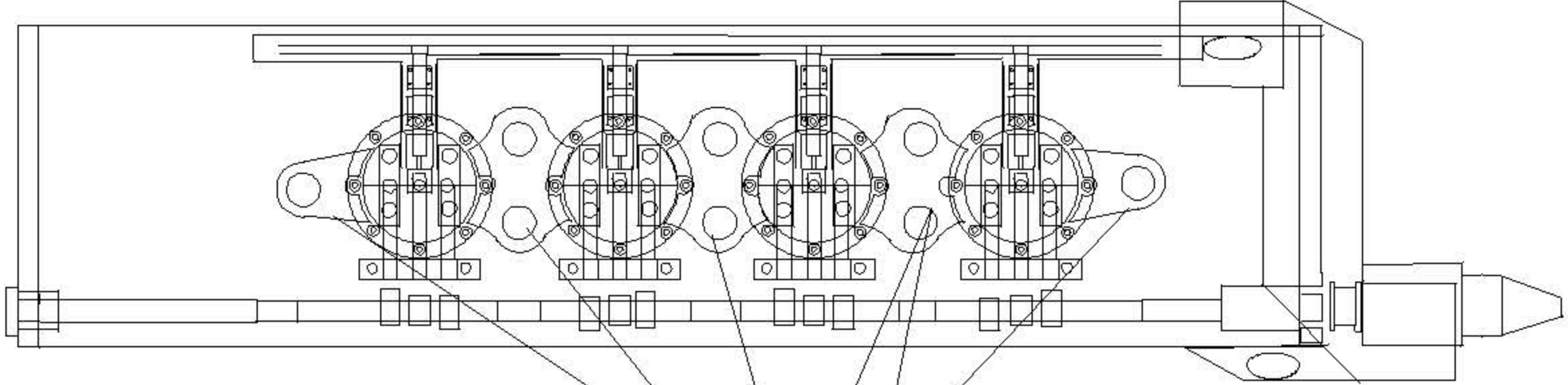
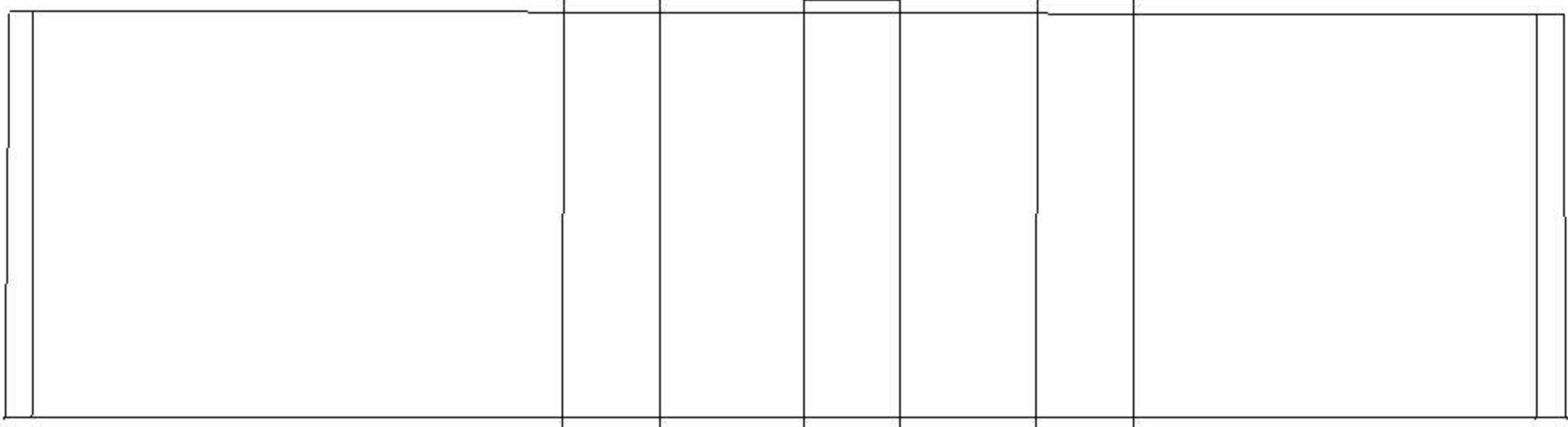
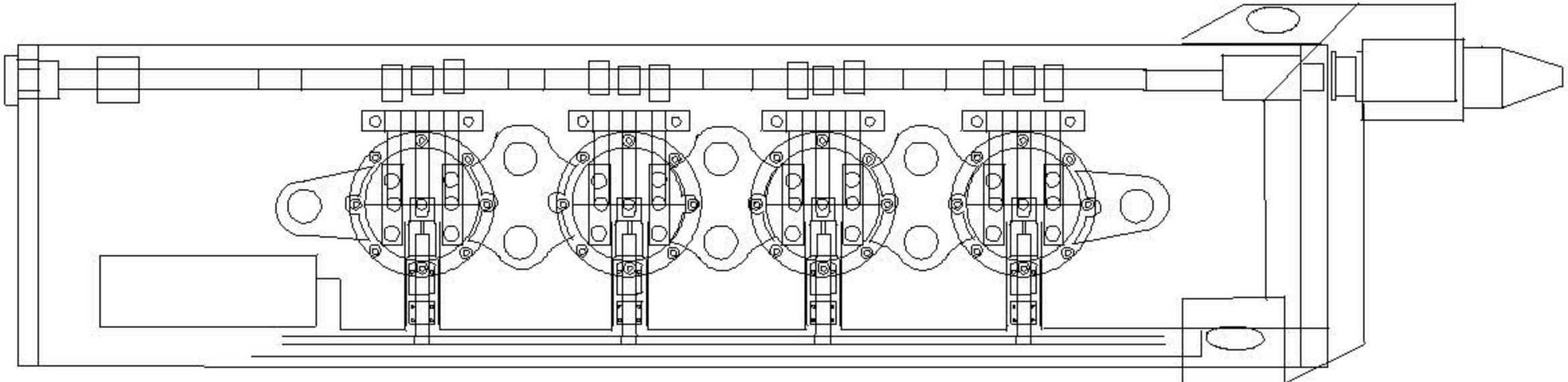
ENGINE SIDE VIEW CUT THROUGH

ADAM NUGENT ROSENBERGER. 12/11/2020



CONNECTION ROD





CRAB PLATES



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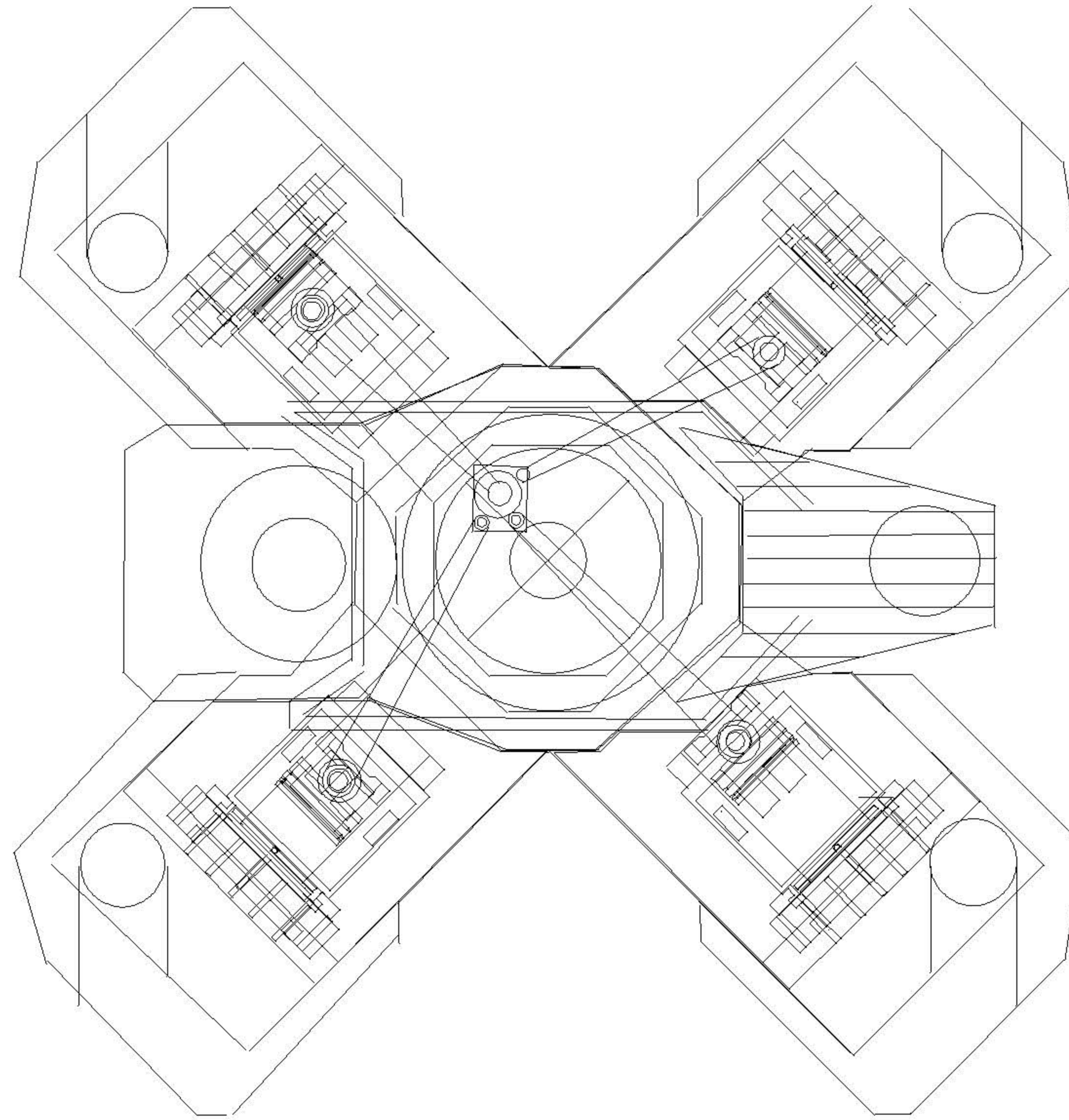
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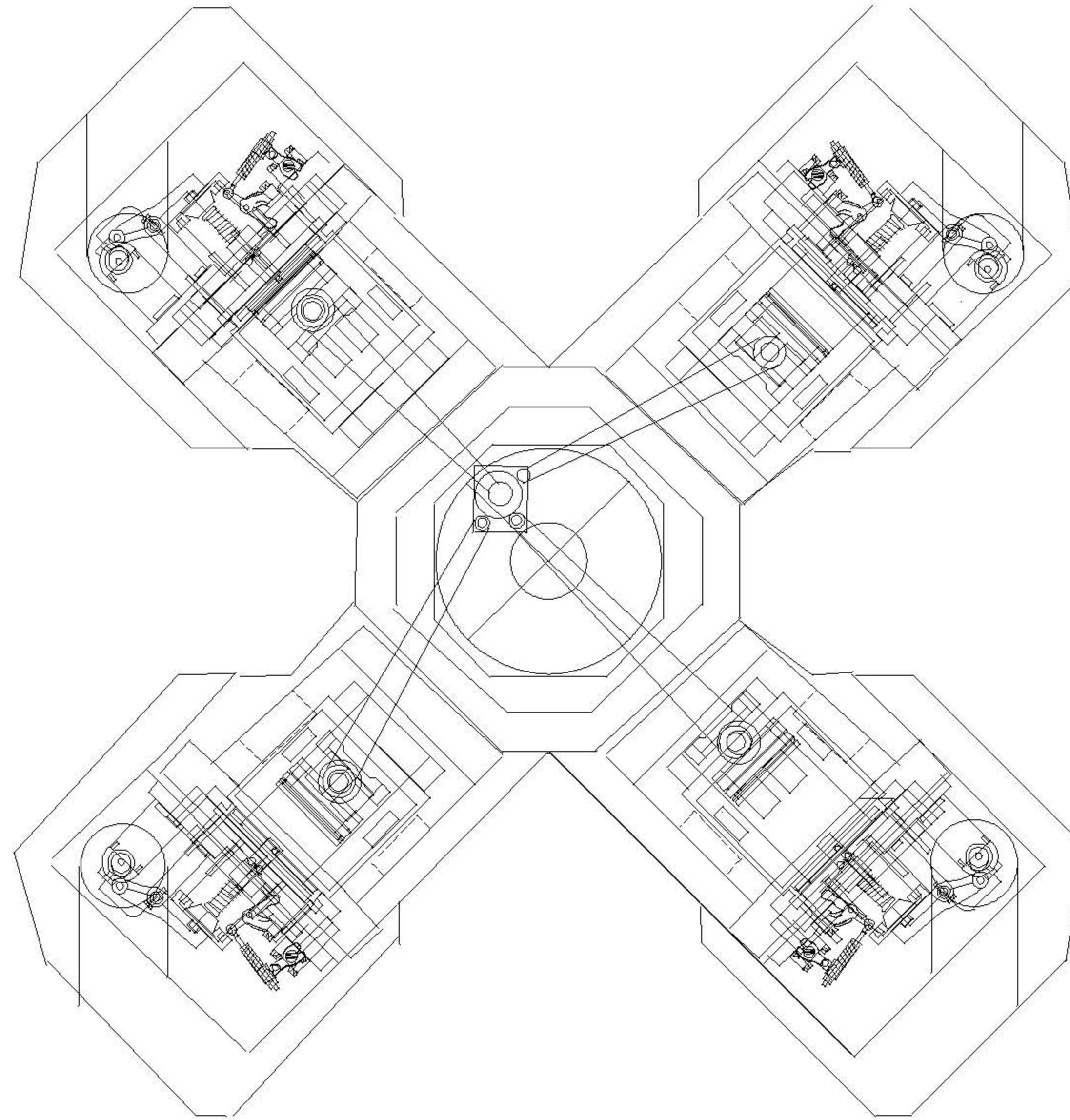
Name	GUARD,DIESEL ENGINE
INC	51293
FIIG	A520E0 (displayed for historical purposes only)
FIIG Title	GUARDS
Condition Code	1
Applicability Key	
Definition	A metal cover of different shapes and dimensions used to protect uncovered parts of a diesel engine.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	



FRONT FACE OF ENGINE

ADAM NUGENT ROSENBERGER. 11/25/2020



ENGINE SIDE VIEW CUT THROUGH

ADAM NUGENT ROSENBERGER. 12/11/2020



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Colloquial Name

Name CAMSHAFT ASSEMBLY
INC G4476
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see TELETYPEWRITER SUBASSEMBLY; CAMSHAFT,ENGINE;

Approved Item Name

Name CAMSHAFT,ENGINE
INC [60172](#)
FIIG A513C0 (displayed for historical purposes only)
FIIG Title CAMSHAFT, ENGINE
Condition Code 2
Applicability Key
Definition A shaft with eccentric lobe(s) specifically designed to raise at a predetermined time, the engine poppet valve(s) from the valve seat(s) of an internal combustion engine. It may include facilities for operating accessories, such as fuel pumps, ignition distributors, oil pumps, and the like. Excludes SHAFT (as modified).

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2810	Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
2815	Diesel Engines and Components

3 FSC(s) found.

Approved Item Name

Name TELETYPEWRITER SUBASSEMBLY
INC [00624](#)
FIIG A511L0 (displayed for historical purposes only)
FIIG Title ELECTRICAL-ELECTRONIC SUBASSEMBLIES
Condition Code 1
Applicability Key
Definition Two or more different types of items having a common mounting or mounted on each other which together form a portion of a teletypewriter but which in itself is not a complete functioning item and cannot be assigned a more definite item name.

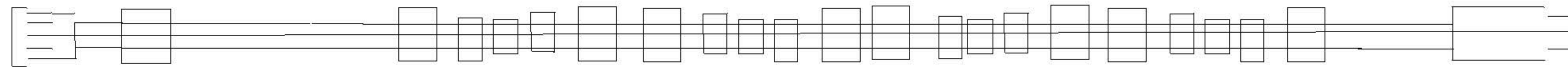
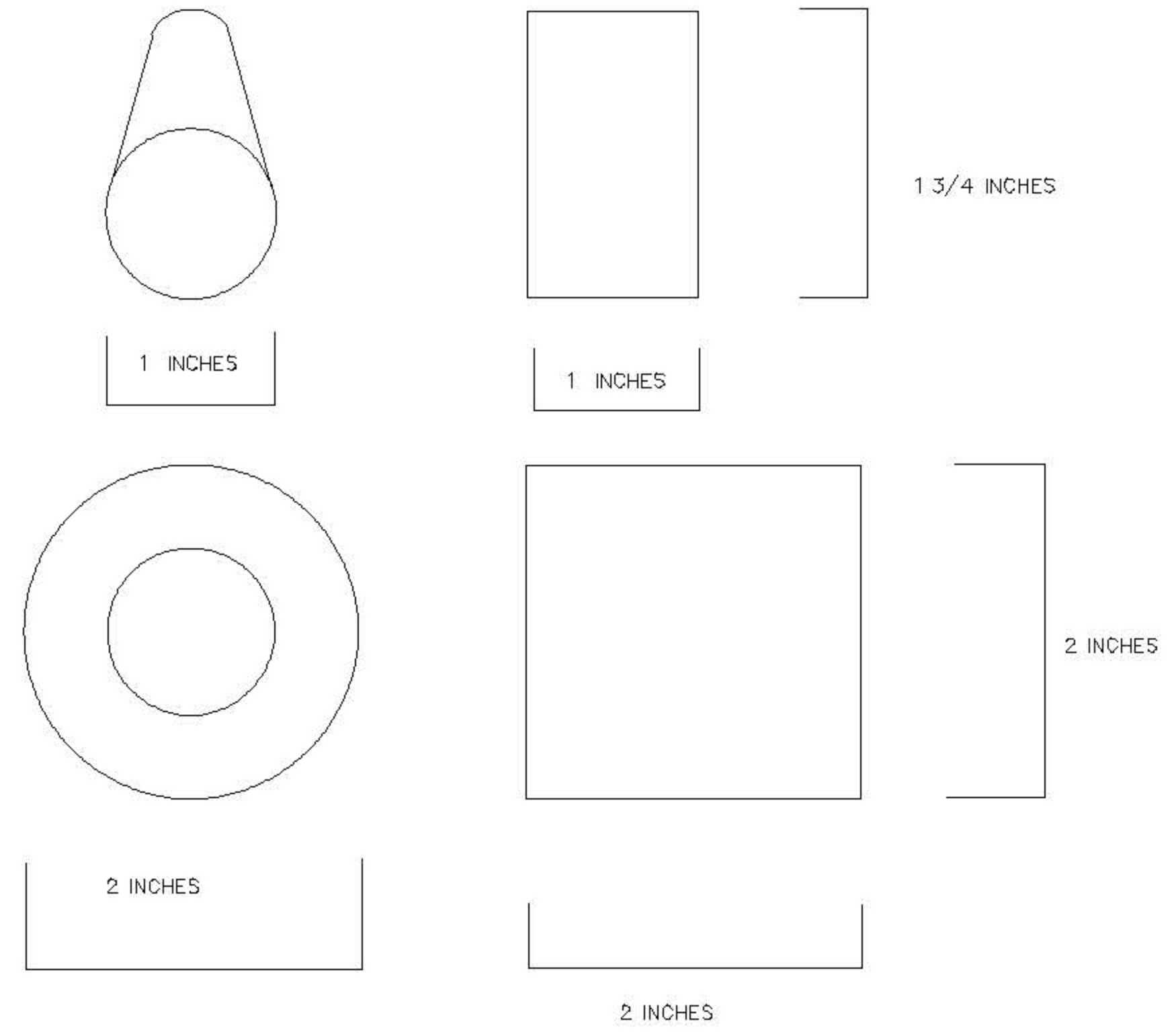
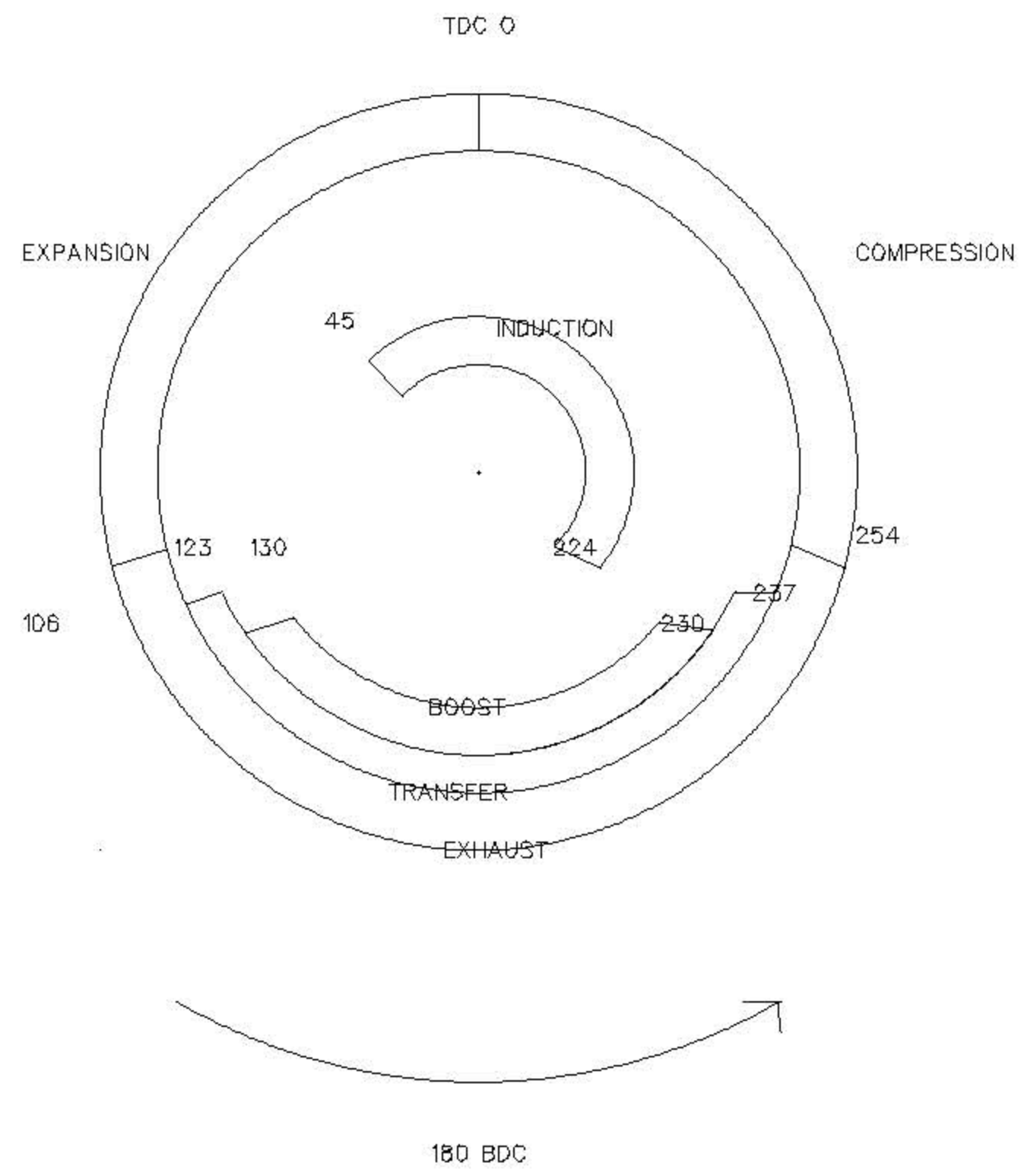
FSC	Name
5815	Teletype and Facsimile Equipment

1 FSC(s) found.

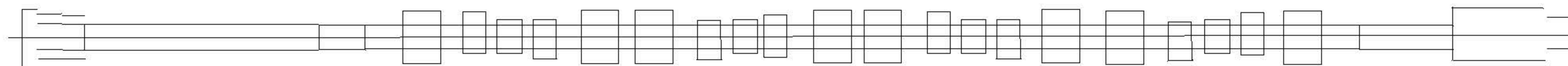
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Last Updated: 2016-11-15



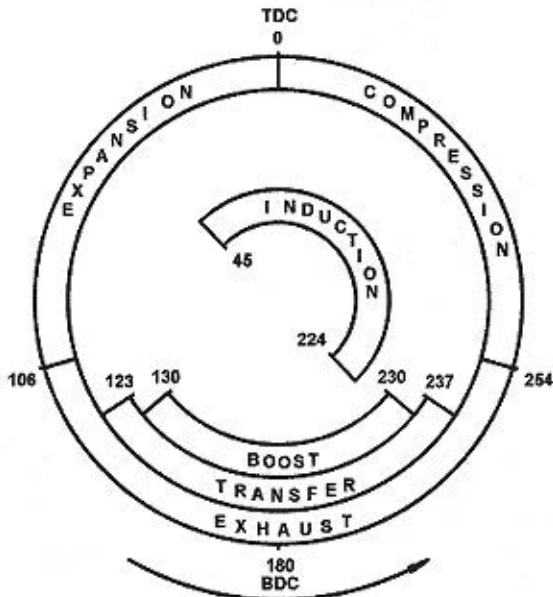
CAMSHAFT A QTY 1



CAMSHAFT B QTY 3

CAMSHAFT

TWO STROKE TIMING DIAGRAM



Make	Version	Type
DYNAMIC	21D	Standard

Induction System	Crankshaft	
Choke diameter	0.2	inches
Tract Length	1	inches
Induction Port Area	0.1844	sq.ins

Scavenge System	Loopflow	
Transfer Port Area	0.0616	sq.ins
Boost Port Area	0.0195	sq.ins

Exhaust System	No Pipe	
Exhaust Port Area	0.0684	sq.ins

Capacity	0.211	cub.ins
Bore	0.656	inches
Piston Stroke	0.6250	inches
Bore to Stroke Ratio	1.050	%
Crank Throw	0.3125	inches
Conrod Length	1.1	inches
Conrod to Stroke Ratio	1.760	%

Desaxe Offset	0	inches	
TDC Offset	0	deg	
BDC Offset	0	deg	
IOA	224 deg	ICA	45 deg
EOA	106 deg	ECA	254 deg
TOA	123 deg	TCA	237 deg
BOA	130 deg	BCA	230 deg



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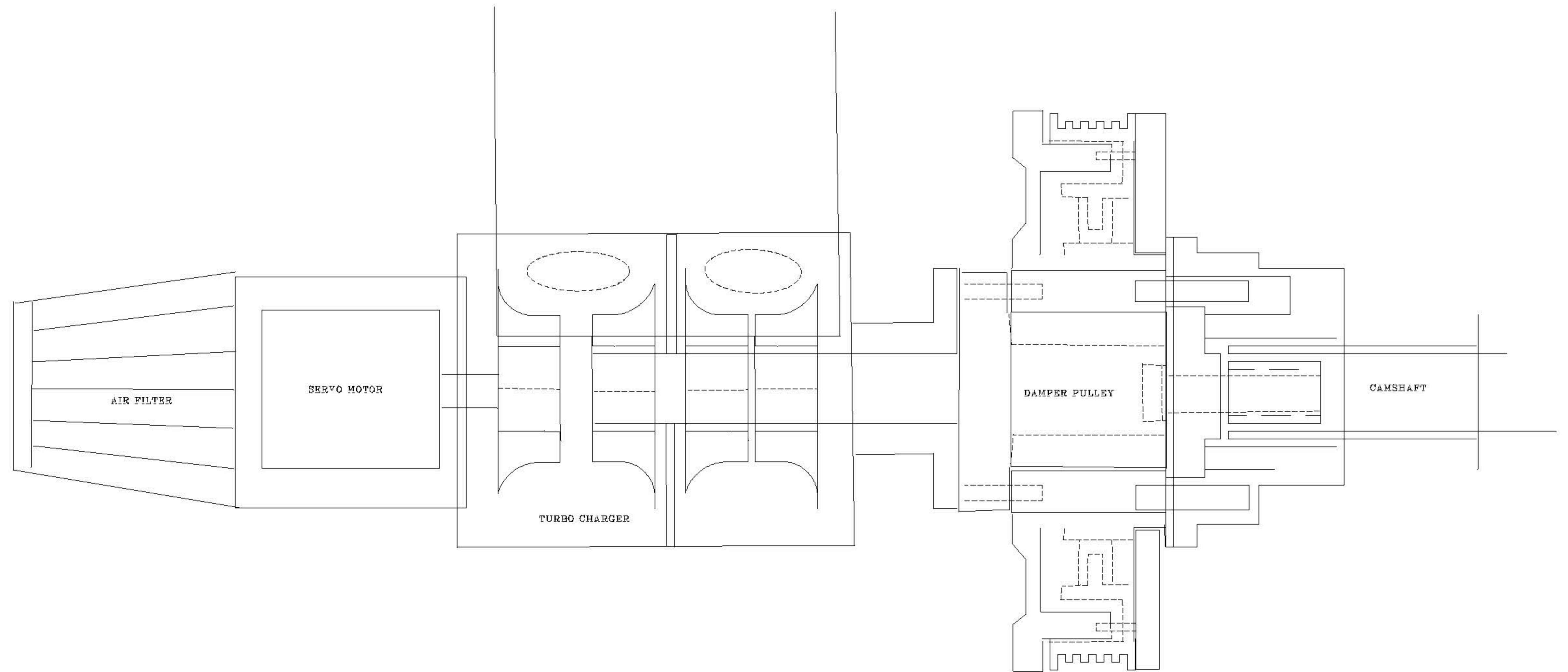
Colloquial Name

Name CAMSHAFT IDLE GEAR
INC J2261
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see GEAR (1), HELICAL

Approved Item Name

Name GEAR,HELICAL
INC [05464](#)
FIIG A27300 (displayed for historical purposes only)
FIIG Title GEARS
Condition Code 1
Applicability Key AF (displayed for historical purposes only)
Definition A gear, cylindrical in form, with teeth on the outer surface at an angle to the axis of the gear. See also GEAR, ANTIBACKLASH, HELICAL:

FSC	Name
3020	Gears, Pulleys, Sprockets, and Transmission Chain
1 FSC(s) found.	





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Colloquial Name

Name CAMSHAFT
INC G4144
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see CAM,CONTROL; CAMSHAFT,ENGINE;

Approved Item Name

Name CAMSHAFT,ENGINE
INC [60172](#)
FIIG A513C0 (displayed for historical purposes only)
FIIG Title CAMSHAFT, ENGINE
Condition Code 2
Applicability Key
Definition A shaft with eccentric lobe(s) specifically designed to raise at a predetermined time, the engine poppet valve(s) from the valve seat(s) of an internal combustion engine. It may include facilities for operating accessories, such as fuel pumps, ignition distributors, oil pumps, and the like. Excludes SHAFT (as modified).

FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2810	Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
2815	Diesel Engines and Components
3 FSC(s) found.	

Approved Item Name

Name CAM,CONTROL
INC [60167](#)
FIIG A50800 (displayed for historical purposes only)
FIIG Title CAM, CONTROL
Condition Code 1
Applicability Key
Definition An irregularly shaped item, that revolves around an axis, or slides within limits, which actuates other parts by contact to change the direction, speed and/or timing of a part in motion. A shaft is not included. It usually is part of a CAMSHAFT (as modified).

FSC	Name
3040	Miscellaneous Power Transmission Equipment
1 FSC(s) found.	

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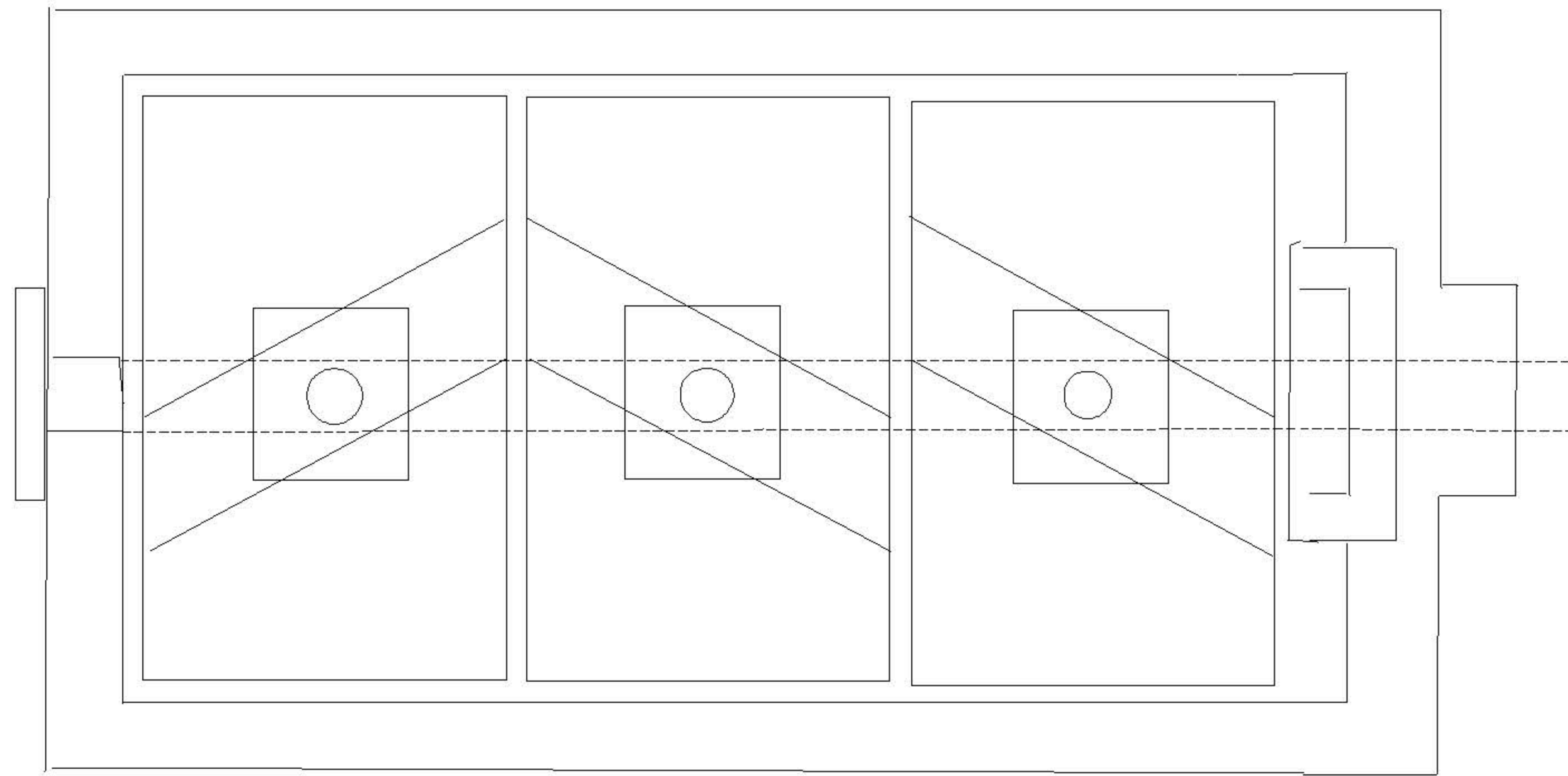
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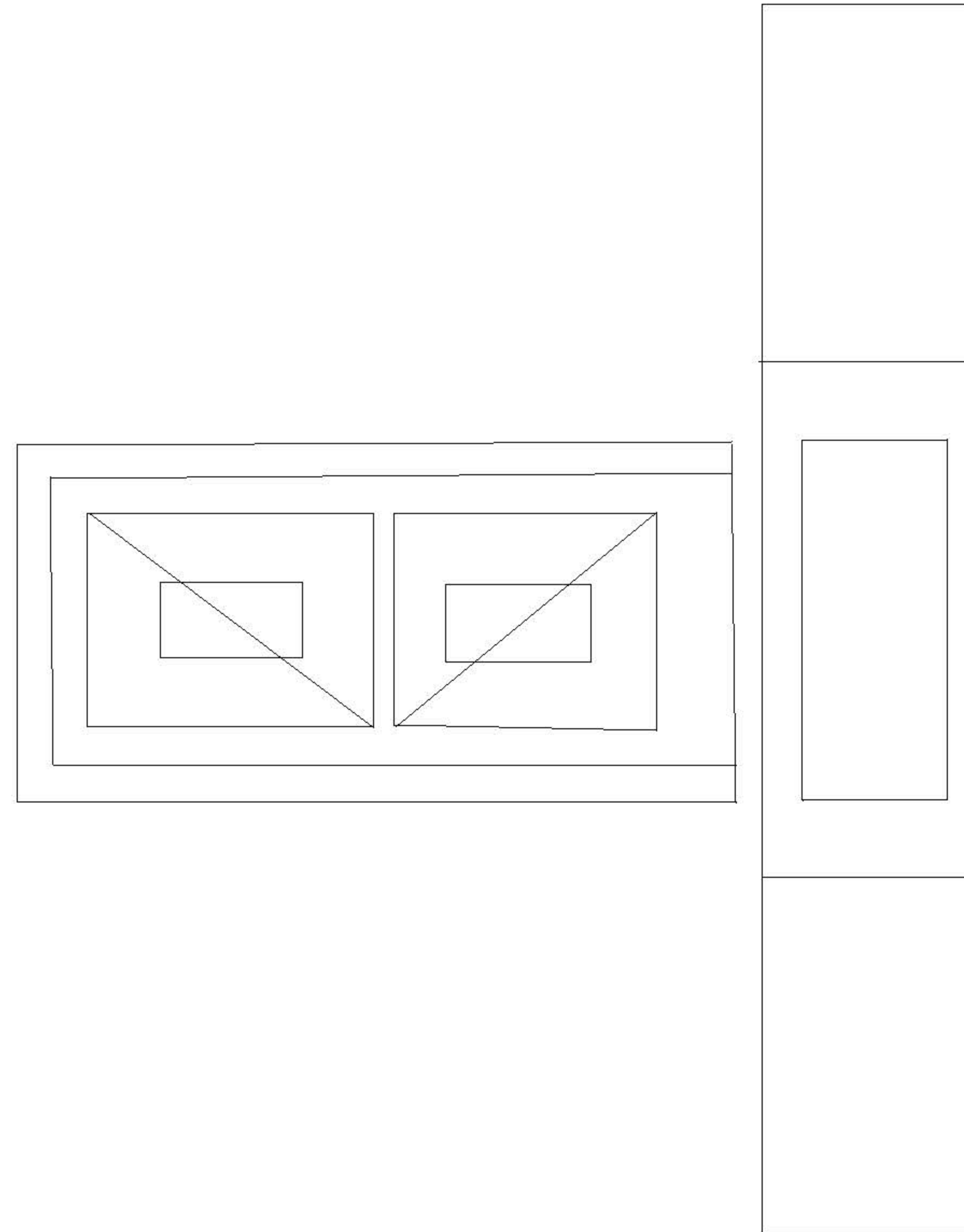
Approved Item Name

Name CRANKSHAFT,PUMP
INC [39550](#)
FIIG A23900 (displayed for historical purposes only)
FIIG Title MISCELLANEOUS ITEMS
Condition Code 1
Applicability Key A (displayed for historical purposes only)
Definition

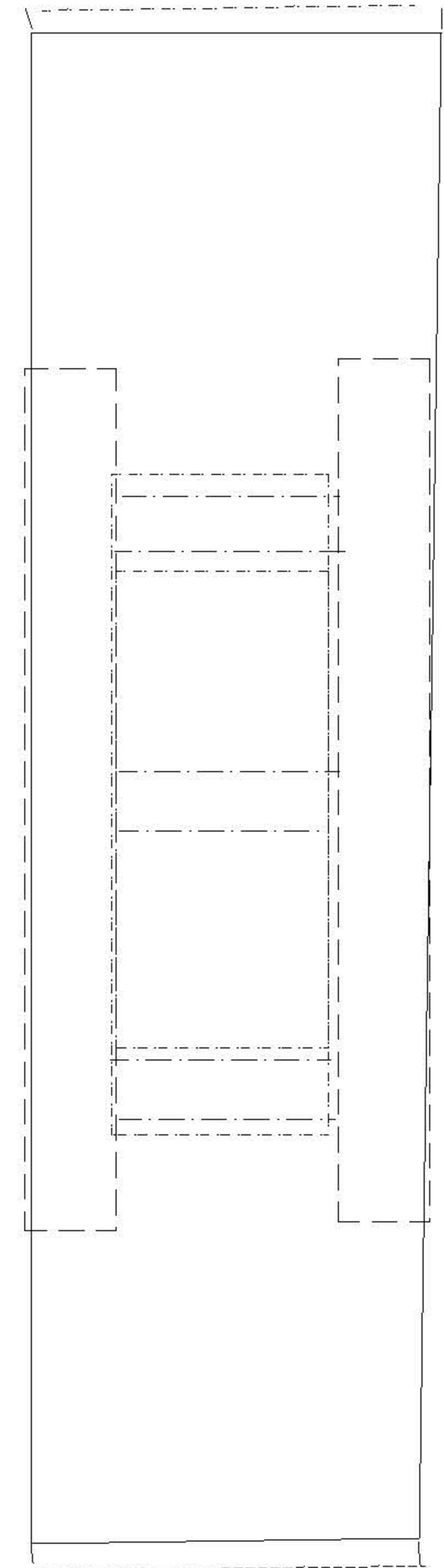
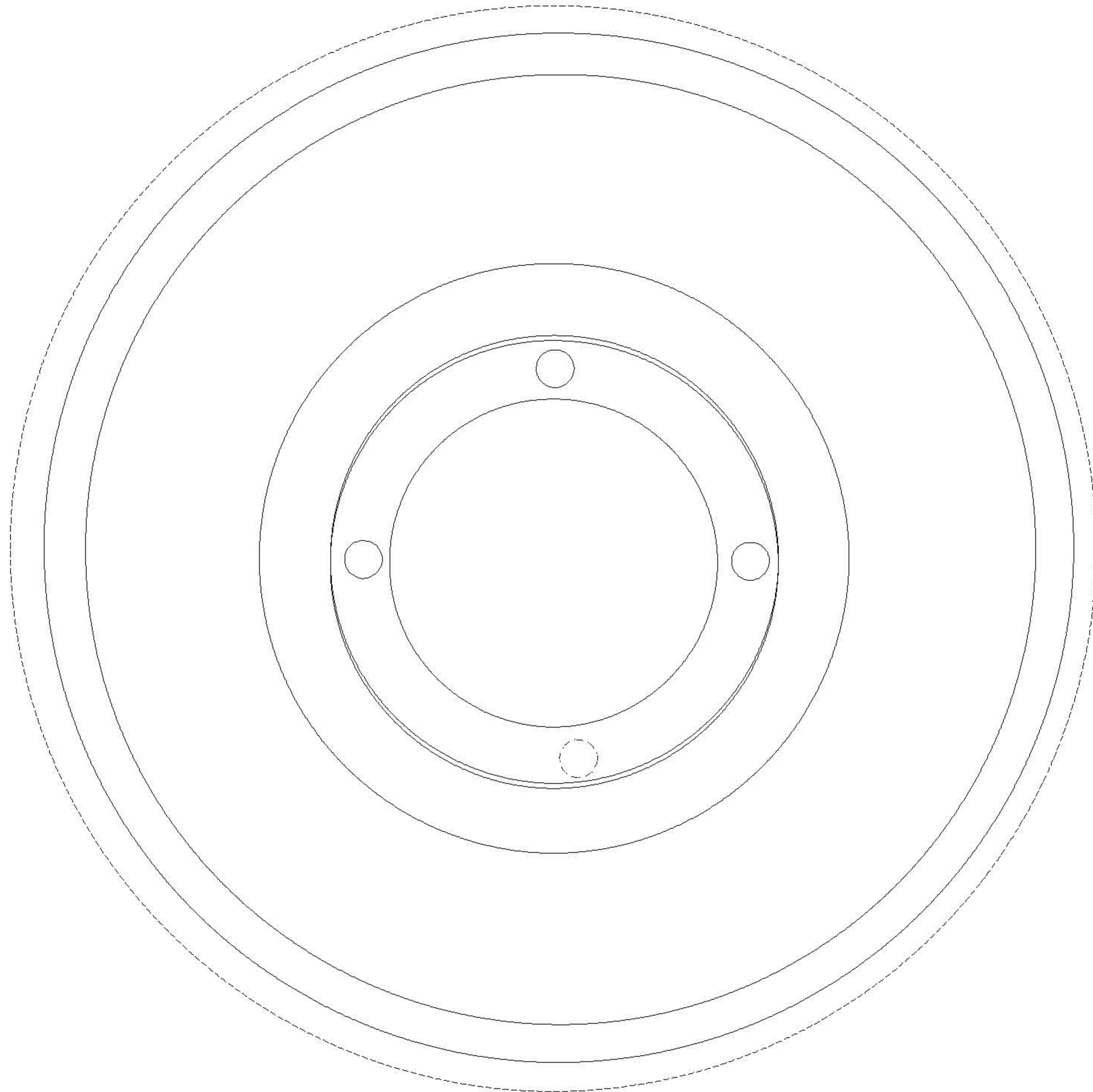
FSC	Name
4320	Power and Hand Pumps

1 FSC(s) found.





WATER PUMP



FLY WHEEL

ADAM NUGENT ROSENBERGER.11/14/2021



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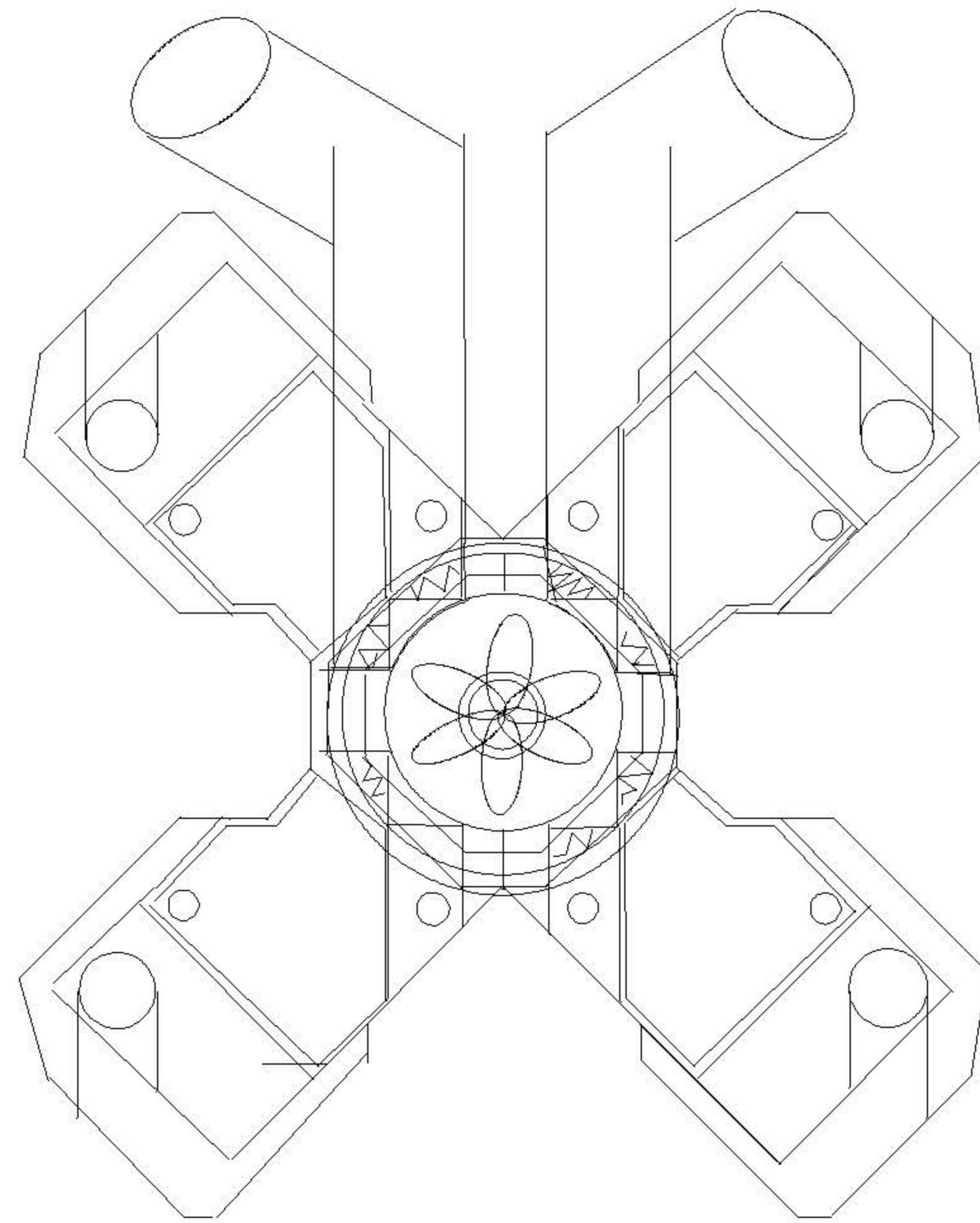
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Approved Item Name

Name	DAMPER,EXHAUST PIPE,DIESEL ENGINE
INC	37121
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	A throttle plate installed in the exhaust manifold of an engine and designed to boost the engine braking action by adjustment of the exhaust pipe cross-section. Mounting elements may be included.

FSC	Name
2990	Miscellaneous Engine Accessories, Nonaircraft
1 FSC(s) found.	

EXHAUST PIPES



EXHAUST PIPES

ADAM NUGENT ROSENBERGER. JANUARY 30, 2021



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Approved Item Name

Name	FAN,CENTRIFUGAL
INC	04254
FIIG	A087A0 (displayed for historical purposes only)
FIIG Title	FANS AND IMPELLERS
Condition Code	2
Applicability Key	C (displayed for historical purposes only)
Definition	A nonpositive displacement mechanical device having a centrifugal fan impeller inclosed within a housing. It is designed to move air or gas over a wide range of volumes and pressures. The air or gas is drawn in axially and discharged radially or drawn in radially and discharged axially by centrifugal force through an outlet in the housing.

FSC	Name
1660	Aircraft Air Conditioning, Heating, and Pressurizing Equipment
4140	Fans, Air Circulators, and Blower Equipment
2 FSC(s) found.	



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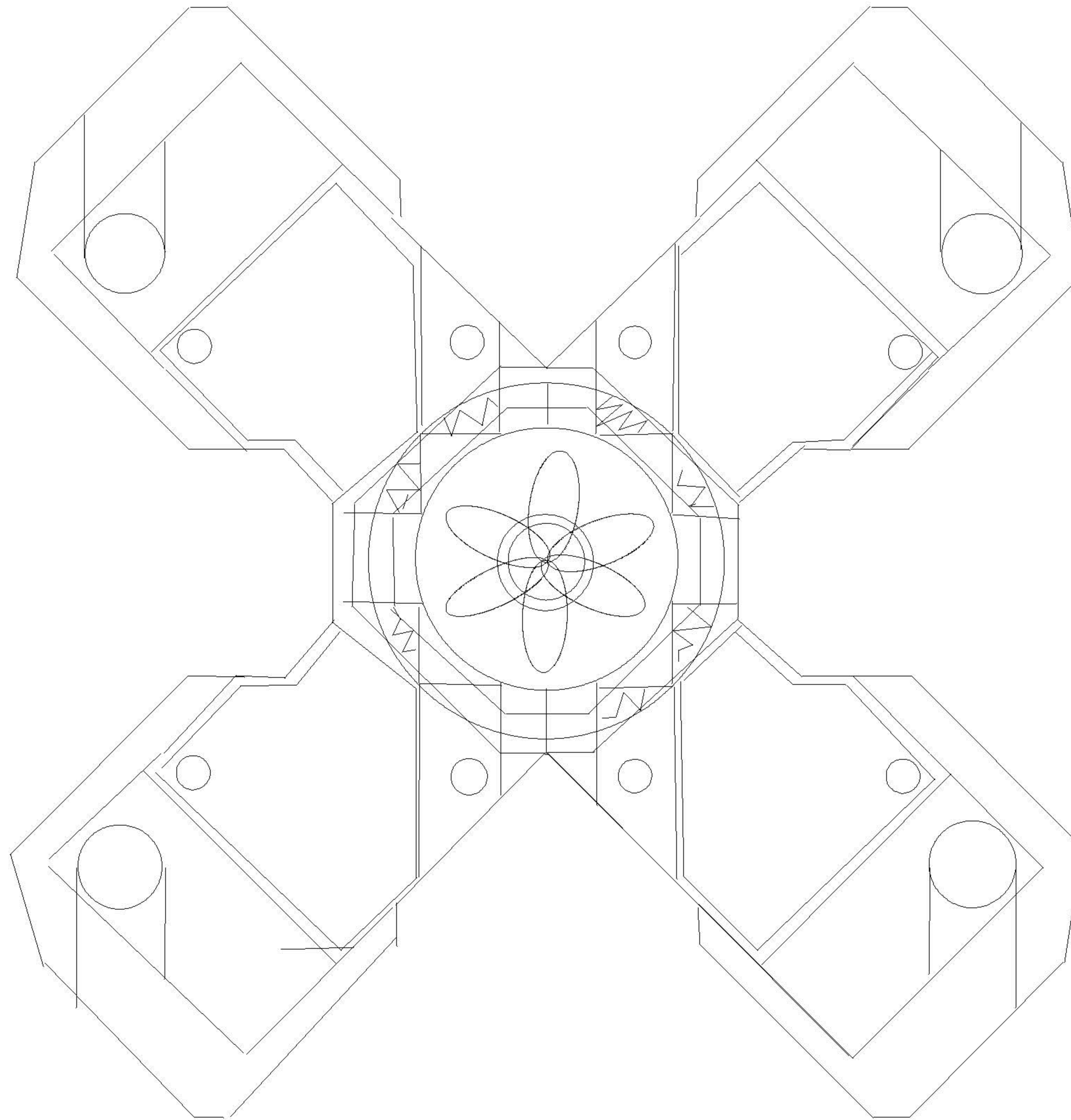
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Approved Item Name

Name	IMPELLER,FAN,CENTRIFUGAL
INC	10088
FIIG	A087A0 (displayed for historical purposes only)
FIIG Title	FANS AND IMPELLERS
Condition Code	1
Applicability Key	H (displayed for historical purposes only)
Definition	An item with blades, vanes, or paddles equally spaced radially or horizontally around the periphery of a hub, rotor, or wheel. It is the rotating part of a centrifugal fan, electric motor, generator and the like which creates a flow of air or gas perpendicular to the axis of rotation.

FSC	Name
4140	Fans, Air Circulators, and Blower Equipment
1 FSC(s) found.	





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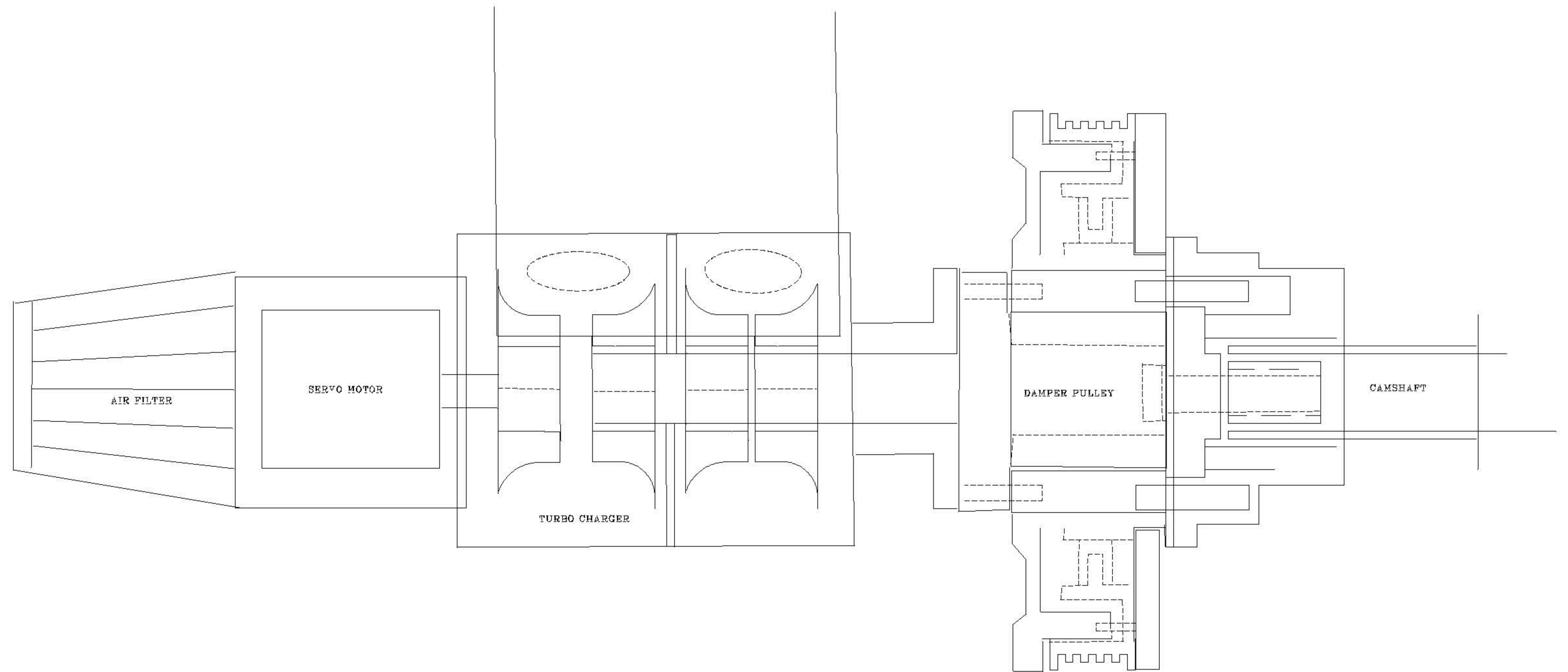
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Approved Item Name

Name	ROTOR BLOWER ASSEMBLY,DIESEL ENGINE
INC	51314
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	An item consisting of an upper rotor, lower rotor, shaft(s), and may include end plate, rings, seals, and the like. The assembly creates increased air flow into the engine.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	





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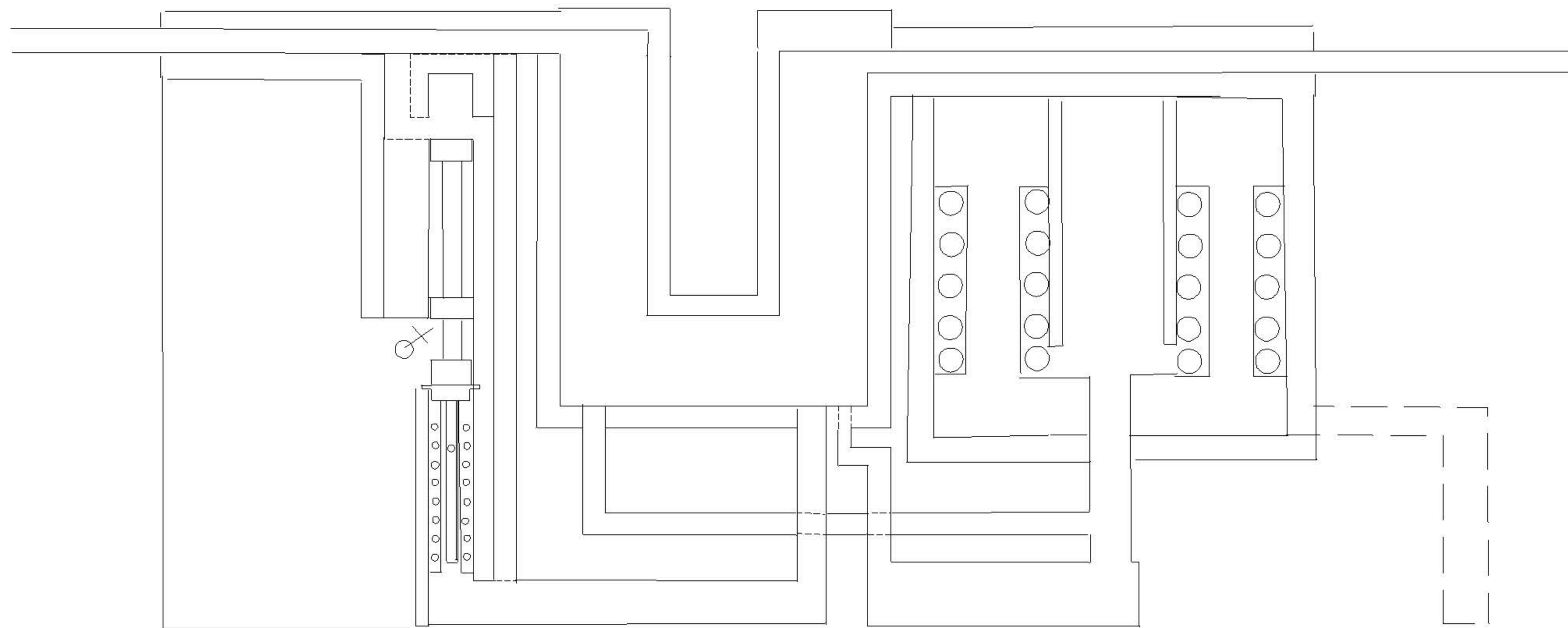
Colloquial Name

Name DIESEL LUBRICATING OIL PURIFIER
INC H3910
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see PURIFIER, CENTRIFUGAL, OIL

Approved Item Name

Name PURIFIER,CENTRIFUGAL,OIL
INC [04359](#)
FIIG T384-C (displayed for historical purposes only)
FIIG Title
Condition Code 2
Applicability Key CA (displayed for historical purposes only)
Definition A mechanical device containing a cylindrical vessel or bowl which rotates on its axis at a high rate of speed. Contaminated oil is injected under pressure and by means of centrifugal force the harmful solids, insoluble sludge and water are removed.

FSC	Name
2815	Diesel Engines and Components
4330	Centrifugals, Separators, and Pressure and Vacuum Filters
4930	Lubrication and Fuel Dispensing Equipment
3 FSC(s) found.	





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Colloquial Name

Name DIESEL OIL PURIFIER
INC H3912
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see PURIFIER, CENTRIFUGAL, OIL

Approved Item Name

Name PURIFIER,CENTRIFUGAL,OIL
INC [04359](#)
FIIG T384-C (displayed for historical purposes only)
FIIG Title
Condition Code 2
Applicability Key CA (displayed for historical purposes only)
Definition A mechanical device containing a cylindrical vessel or bowl which rotates on its axis at a high rate of speed. Contaminated oil is injected under pressure and by means of centrifugal force the harmful solids, insoluble sludge and water are removed.

FSC	Name
2815	Diesel Engines and Components
4330	Centrifugals, Separators, and Pressure and Vacuum Filters
4930	Lubrication and Fuel Dispensing Equipment
3 FSC(s) found.	



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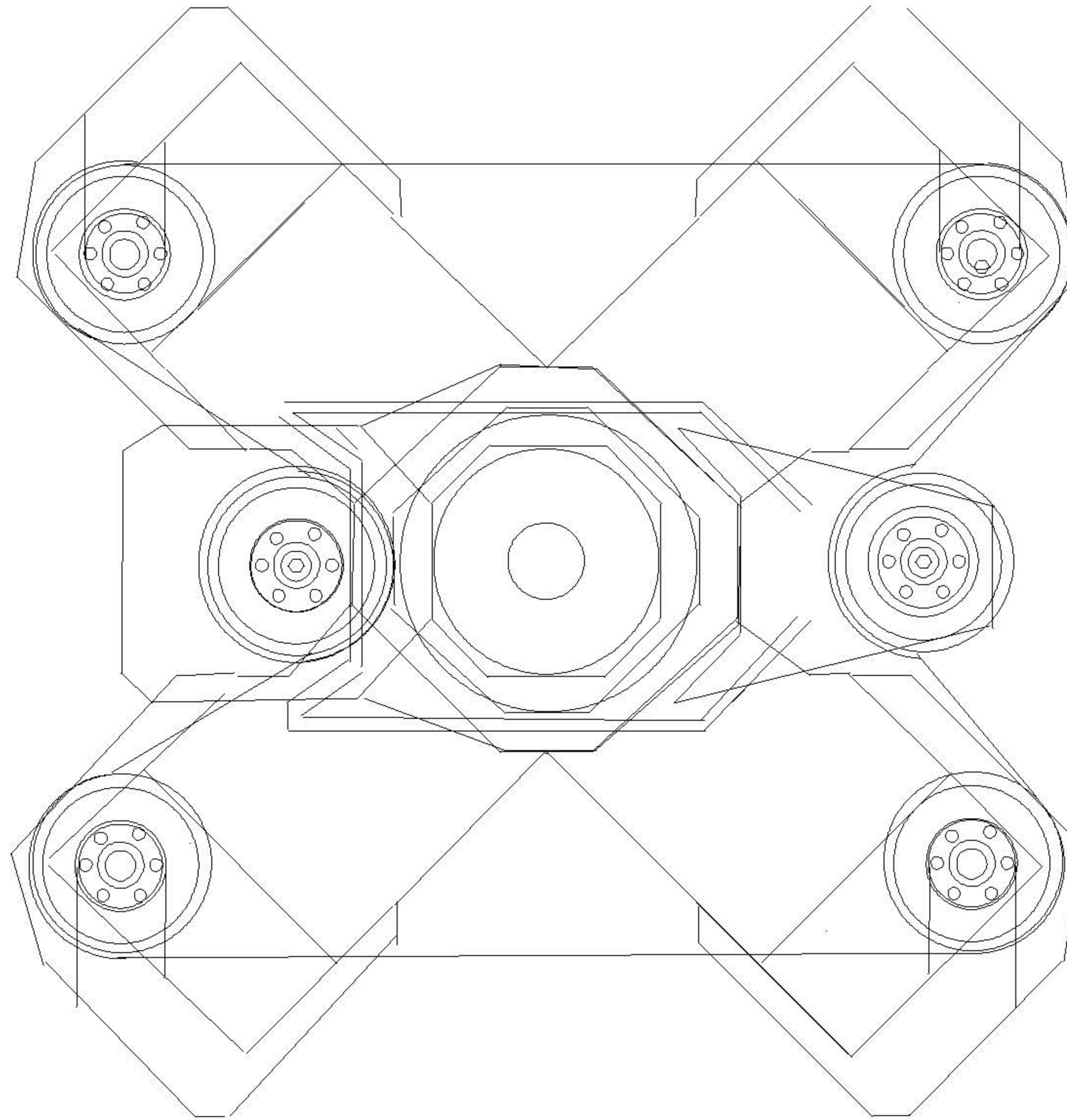
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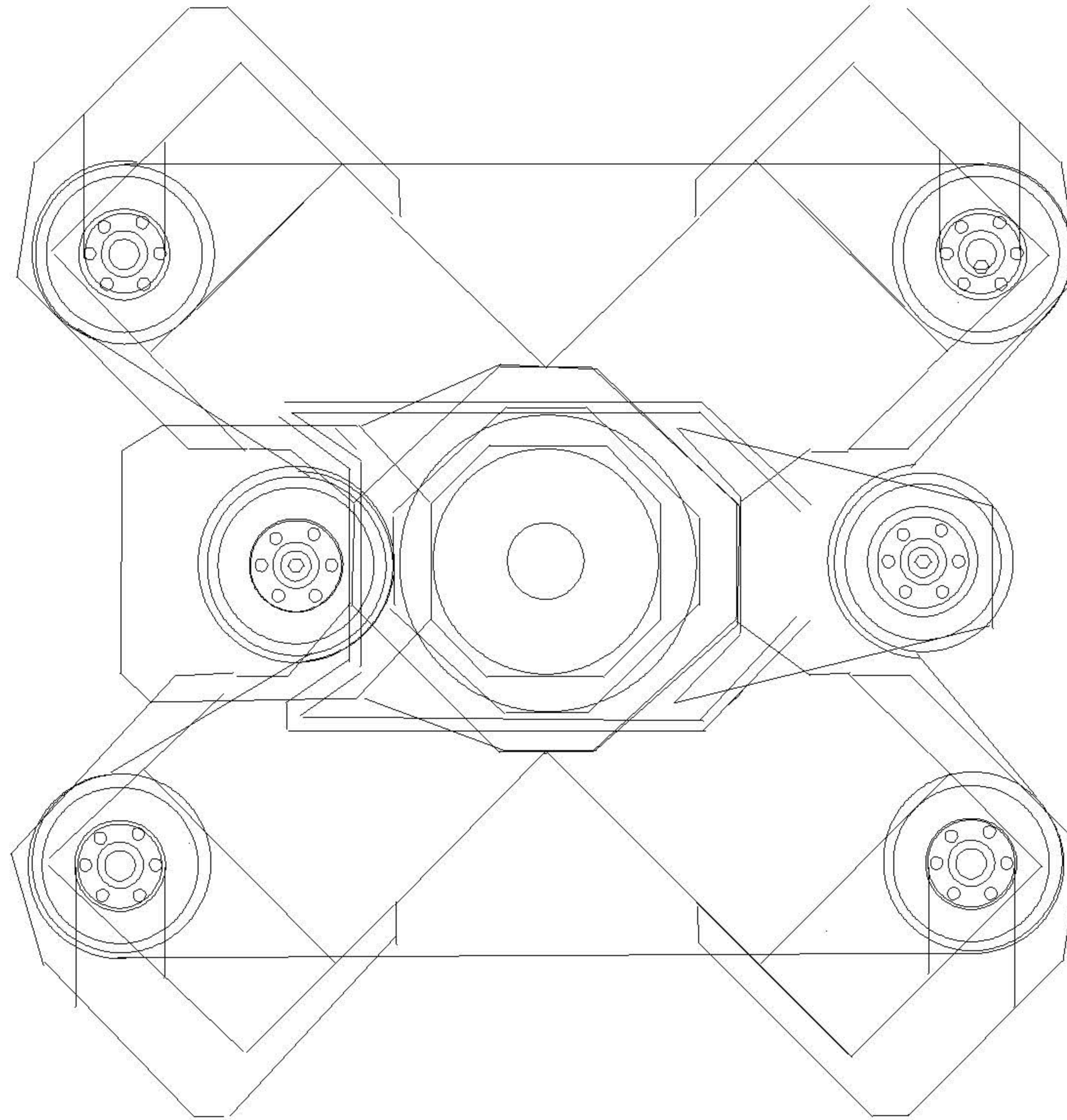
Name CRANKSHAFT SPROCKET
INC J2054
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see PULLEY (1), TIMING BELT

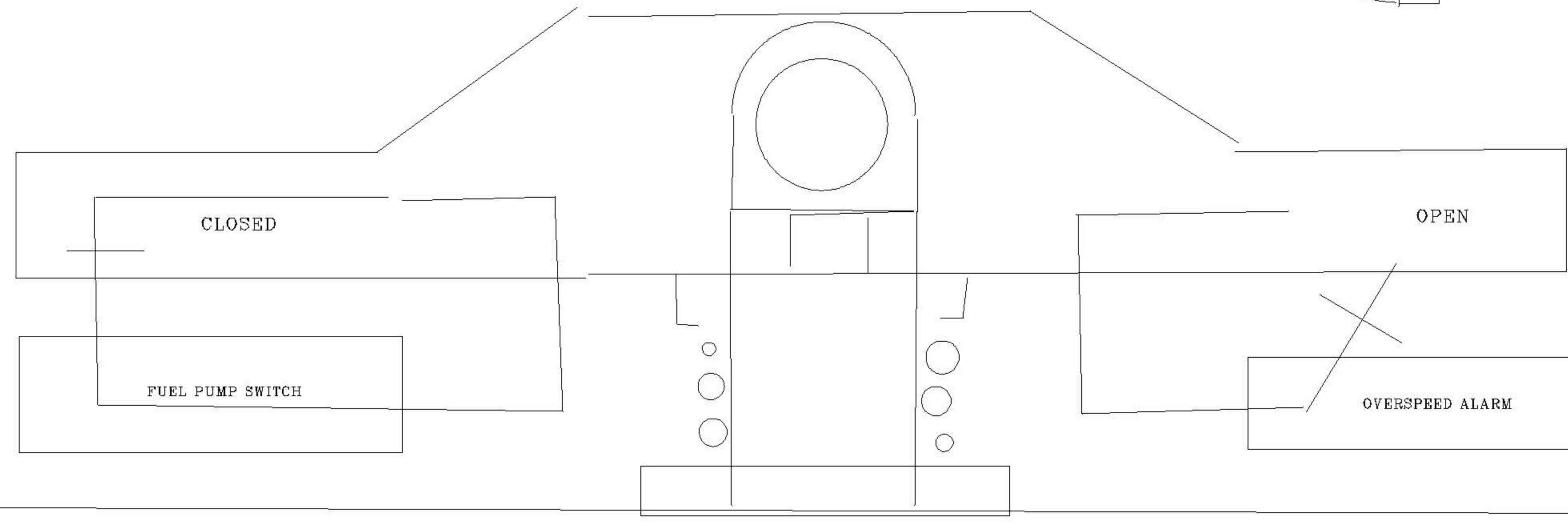
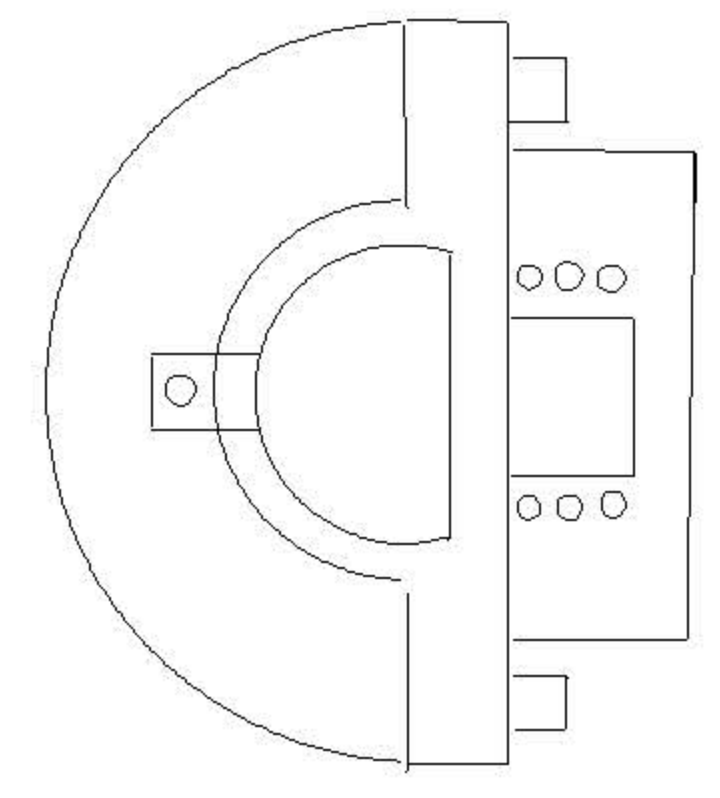
Approved Item Name

Name PULLEY,TIMING BELT
INC [45487](#)
FIIG A501U0 (displayed for historical purposes only)
FIIG Title PULLEY (1), TIMING BELT
Condition Code 1
Applicability Key
Definition A pulley with regularly spaced grooves parallel to the pulley axis on the face. It is designed to be used for timing purposes such as to synchronize the ignition spark with the completion of the compression stroke of the piston.

FSC	Name
3020	Gears, Pulleys, Sprockets, and Transmission Chain
1 FSC(s) found.	









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Colloquial Name

Name DIESEL ENGINE RETARDER HOUSING AND GOVERNOR
INC K1280
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see GOVERNOR,DIESEL ENGINE;

Approved Item Name

Name GOVERNOR,DIESEL ENGINE
INC [60555](#)
FIIG A512F0 (displayed for historical purposes only)
FIIG Title GOVERNOR (1), DIESEL ENGINE
Condition Code 2
Applicability Key
Definition

FSC	Name
2910	Engine Fuel System Components, Nonaircraft
2990	Miscellaneous Engine Accessories, Nonaircraft
2 FSC(s) found.	



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Colloquial Name

Name DIESEL ENGINE GOVERNOR
INC H3906
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see GOVERNOR, DIESEL ENGINE

Approved Item Name

Name GOVERNOR,DIESEL ENGINE
INC [60555](#)
FIIG A512F0 (displayed for historical purposes only)
FIIG Title GOVERNOR (1), DIESEL ENGINE
Condition Code 2
Applicability Key
Definition

FSC	Name
2910	Engine Fuel System Components, Nonaircraft
2990	Miscellaneous Engine Accessories, Nonaircraft
2 FSC(s) found.	



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Approved Item Name

Name GOVERNOR,DIESEL ENGINE
INC [60555](#)
FIIG A512F0 (displayed for historical purposes only)
FIIG Title GOVERNOR (1), DIESEL ENGINE
Condition Code 2
Applicability Key
Definition

FSC	Name
2910	Engine Fuel System Components, Nonaircraft
2990	Miscellaneous Engine Accessories, Nonaircraft
2 FSC(s) found.	



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Approved Item Name

Name	HOUSING,GOVERNOR,DIESEL ENGINE
INC	45521
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	2
Applicability Key	A (displayed for historical purposes only)
Definition	A housing designed to inclose, support and position internal parts of a GOVERNOR, DIESEL ENGINE.

FSC	Name
2910	Engine Fuel System Components, Nonaircraft
2990	Miscellaneous Engine Accessories, Nonaircraft
2 FSC(s) found.	



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Approved Item Name

Name	HOUSING SECTION,GOVERNOR,DIESEL ENGINE
INC	45660
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	2
Applicability Key	A (displayed for historical purposes only)
Definition	A rigid item of various shapes or designs representing a part of a HOUSING, GOVERNOR, DIESEL ENGINE. It may include fastening, sealing and locking features.

FSC	Name
2910	Engine Fuel System Components, Nonaircraft
2990	Miscellaneous Engine Accessories, Nonaircraft
2 FSC(s) found.	



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Approved Item Name

Name PARTS KIT,DIESEL ENGINE GOVERNOR
INC [21077](#)
FIIG A23800 (displayed for historical purposes only)
FIIG Title SETS, KITS, GROUPS AND OUTFITS
Condition Code 1
Applicability Key A (displayed for historical purposes only)
Definition

FSC	Name
2990	Miscellaneous Engine Accessories, Nonaircraft
1 FSC(s) found.	



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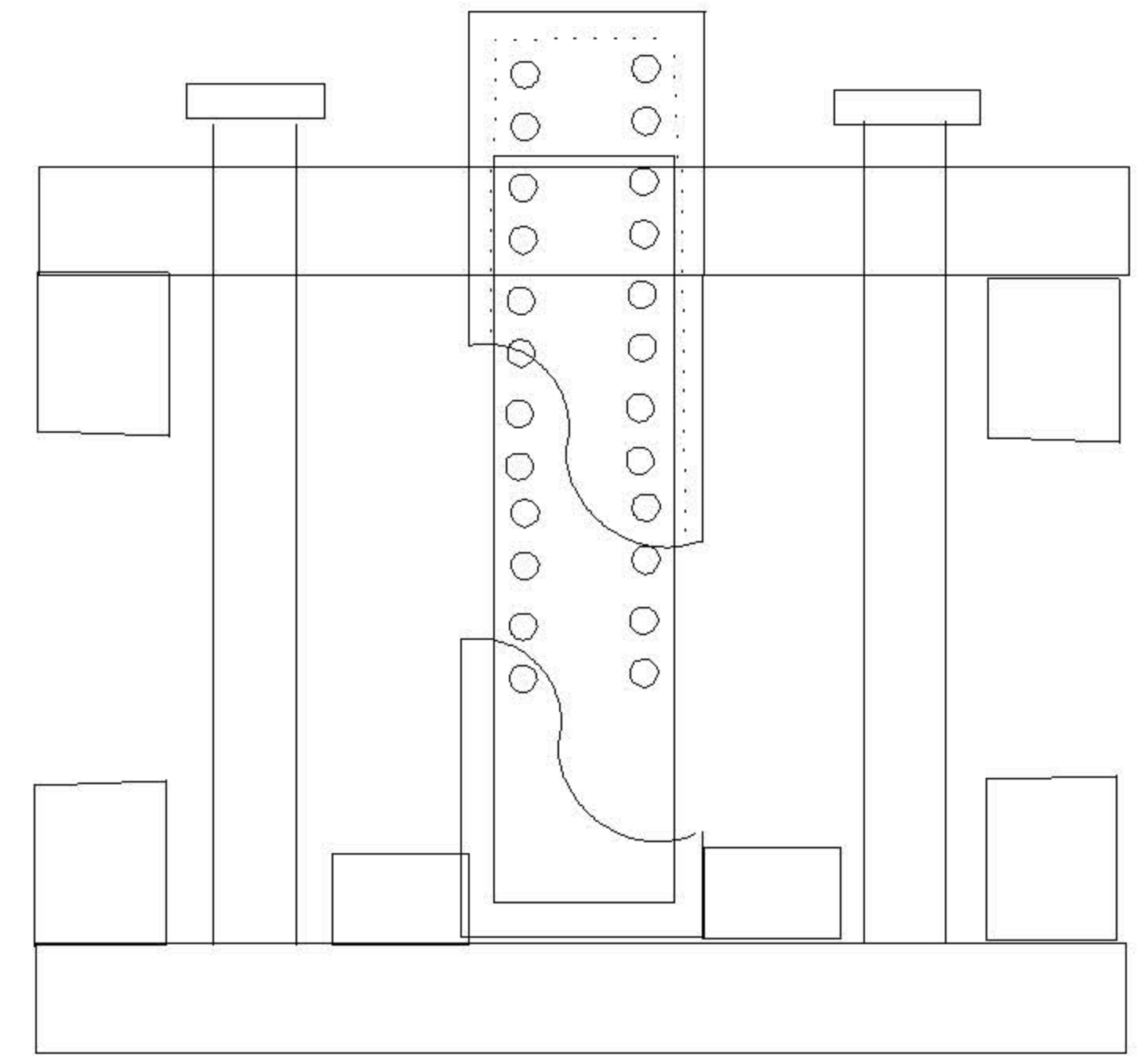
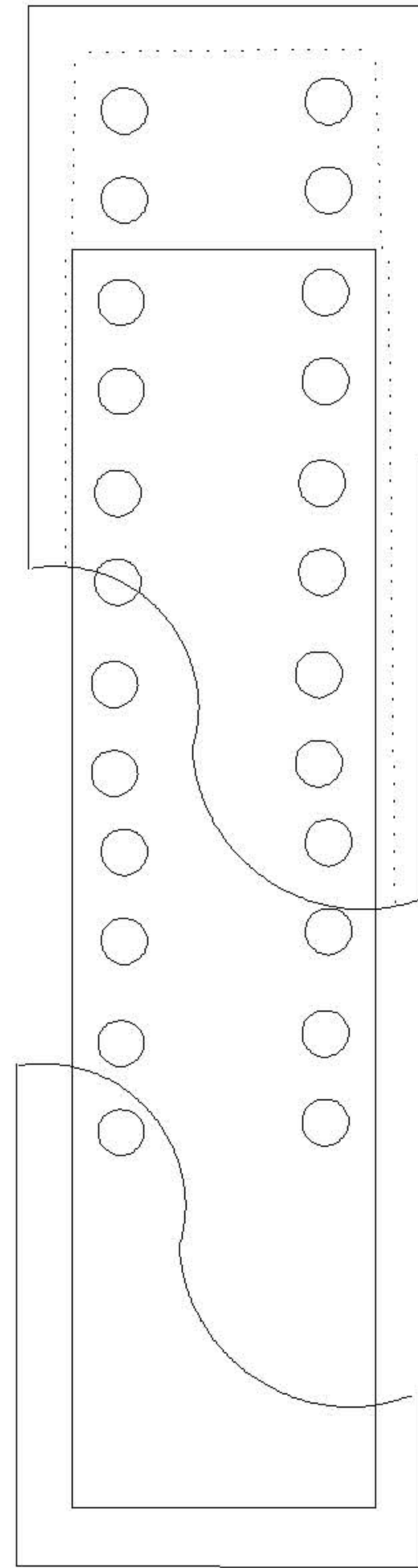
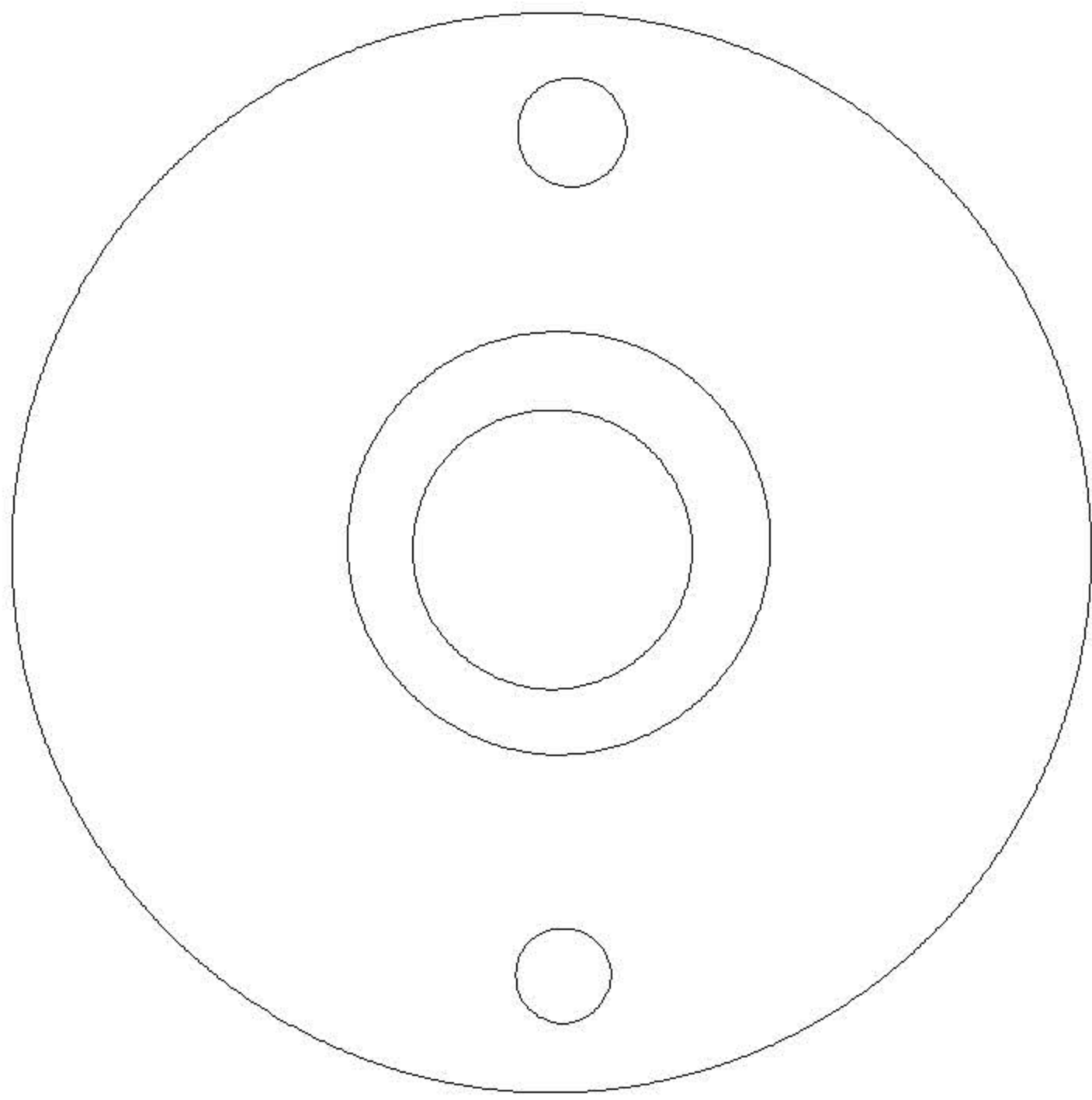
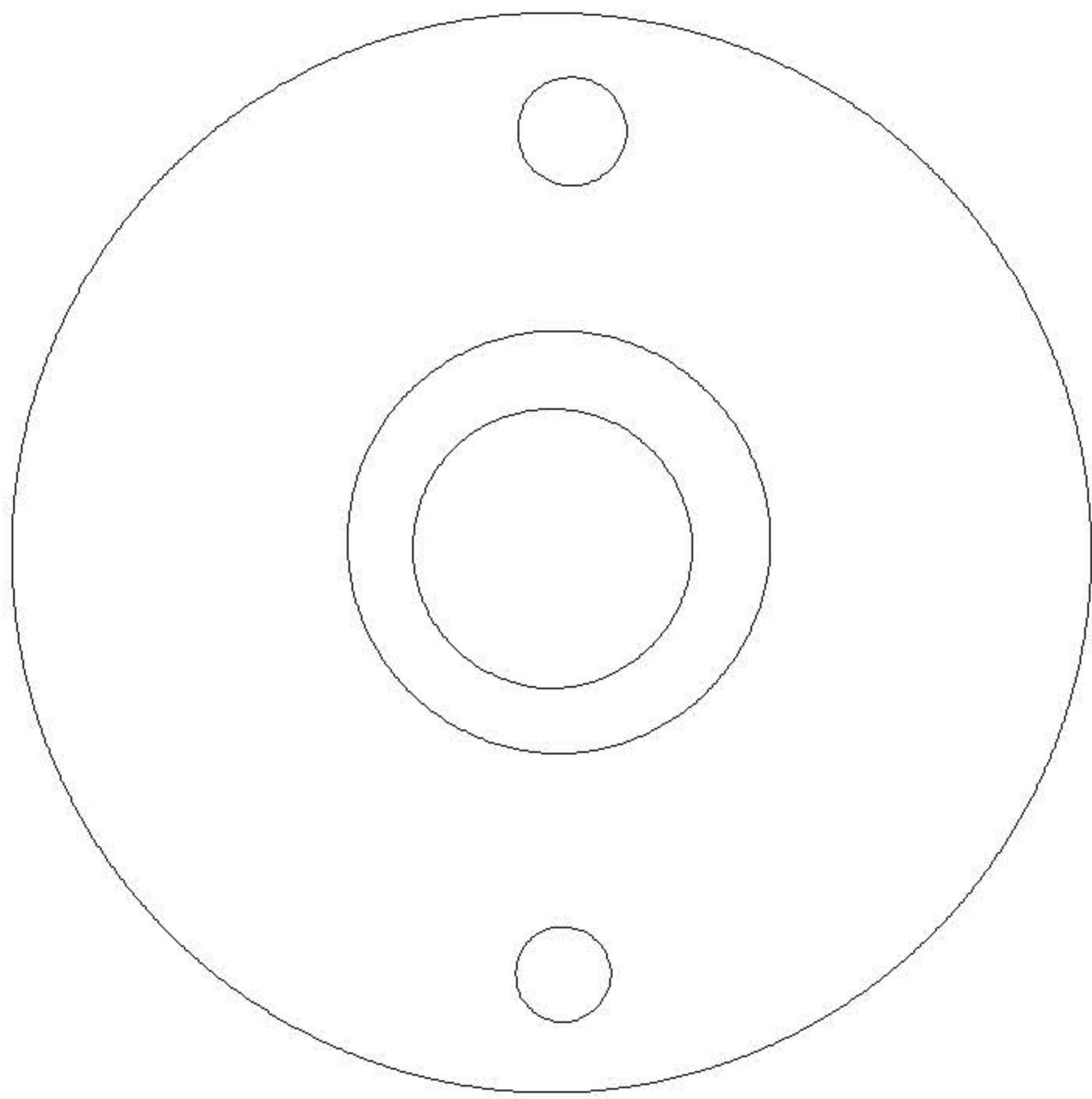
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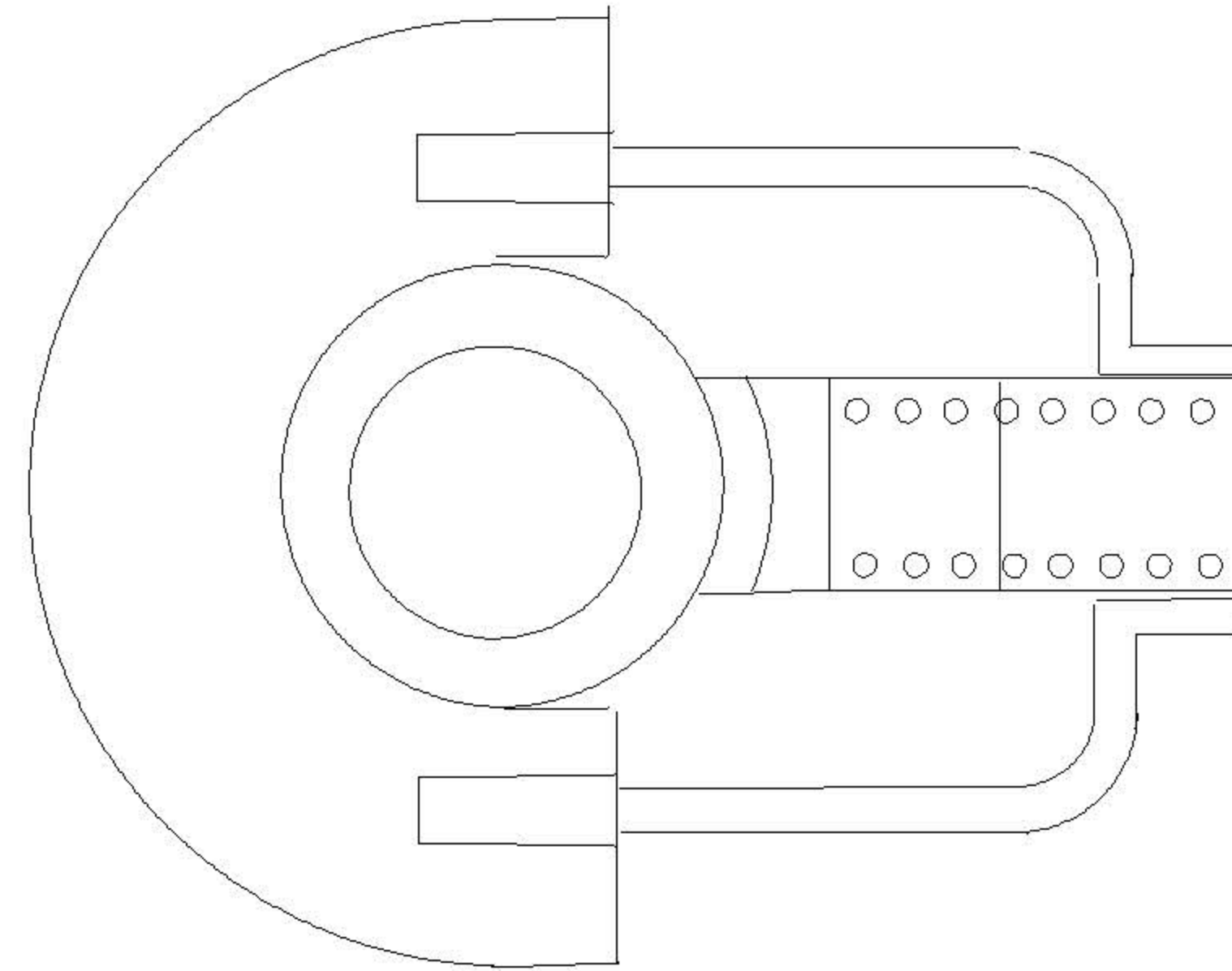
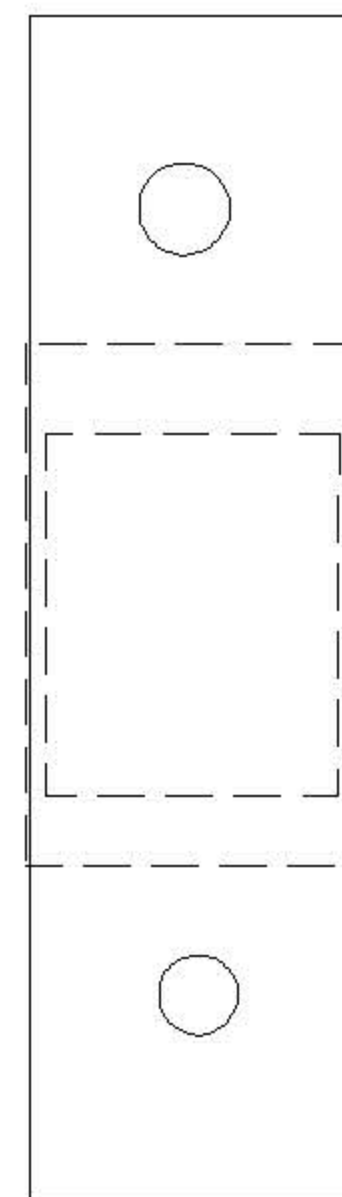
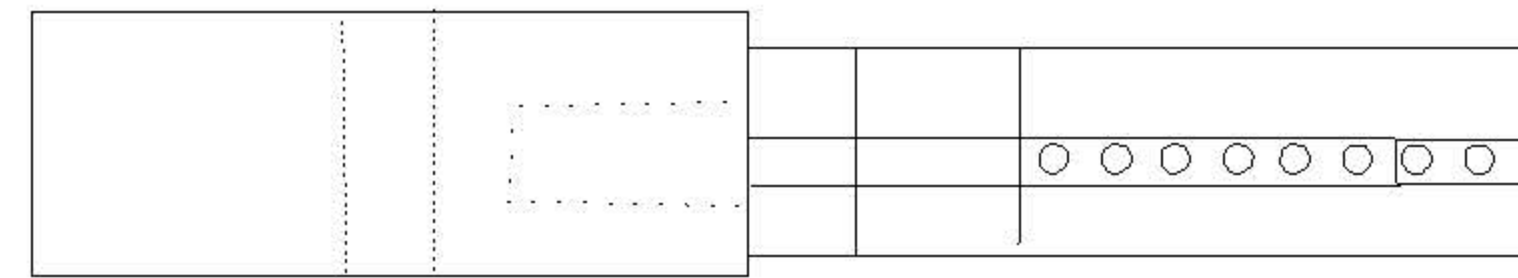
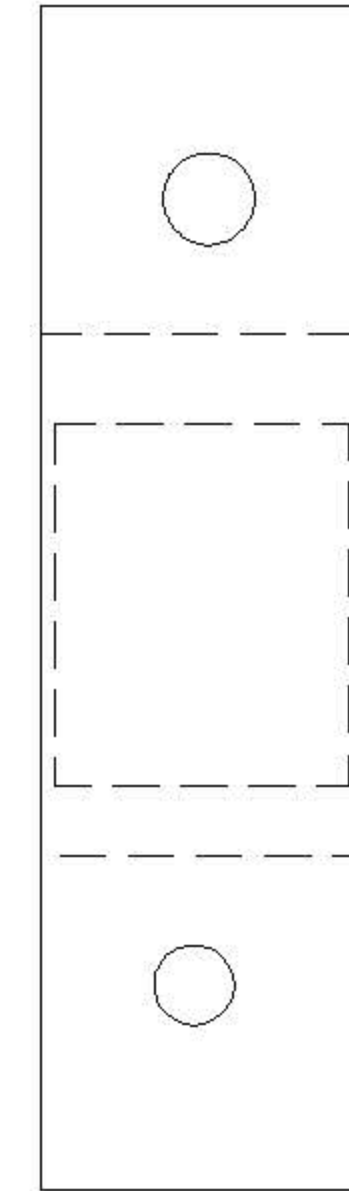
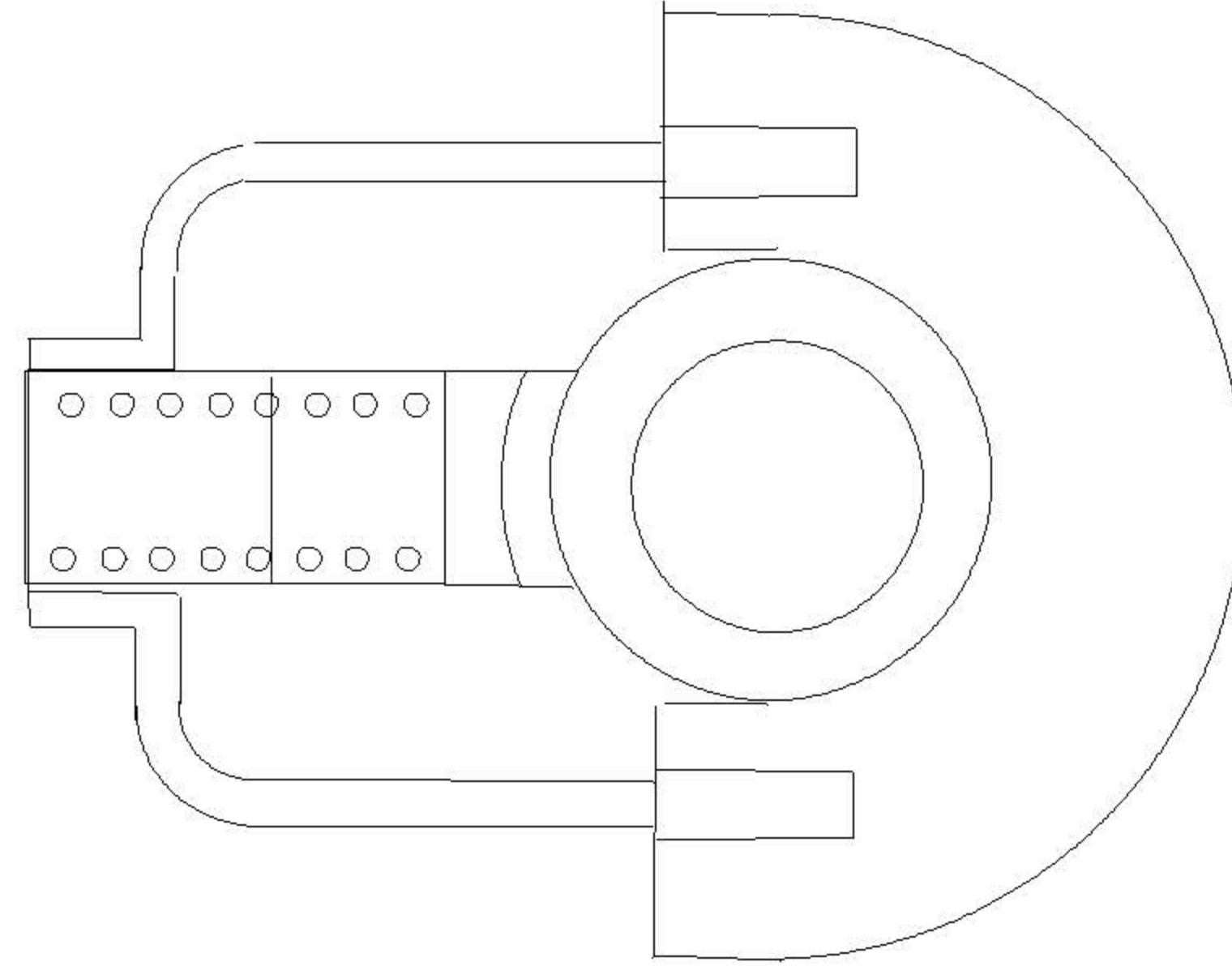
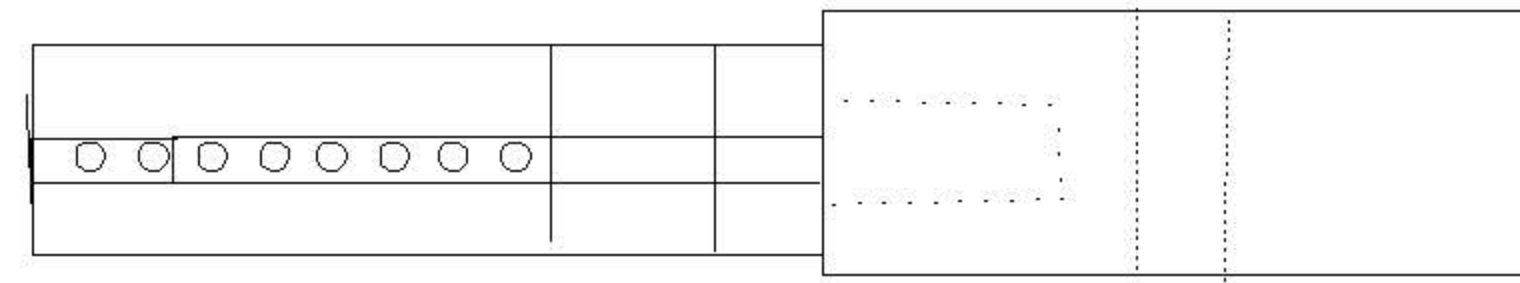
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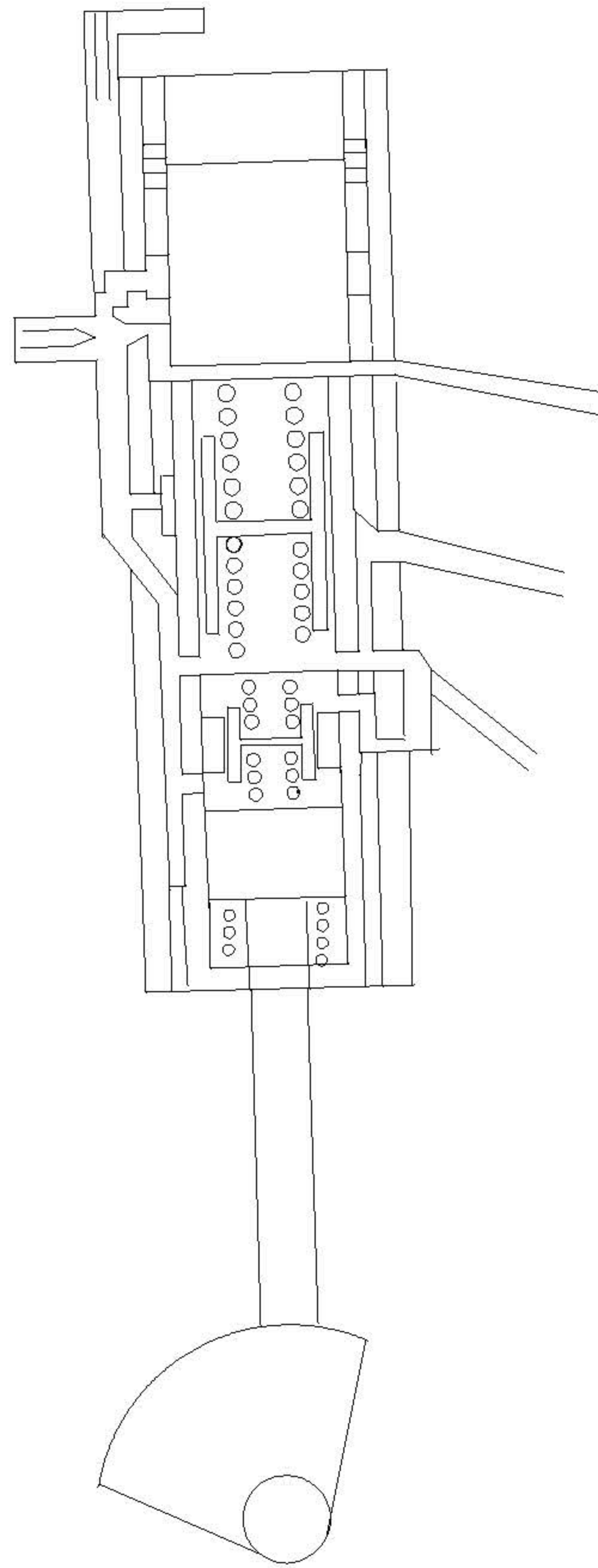
Approved Item Name

Name	WEIGHT,GOVERNOR,DIESEL ENGINE
INC	50234
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	A weight which operates by centrifugal force in opposition to a spring to regulate the fuel supply either directly, through a mechanical linkage, or indirectly, through a hydraulic pilot valve.

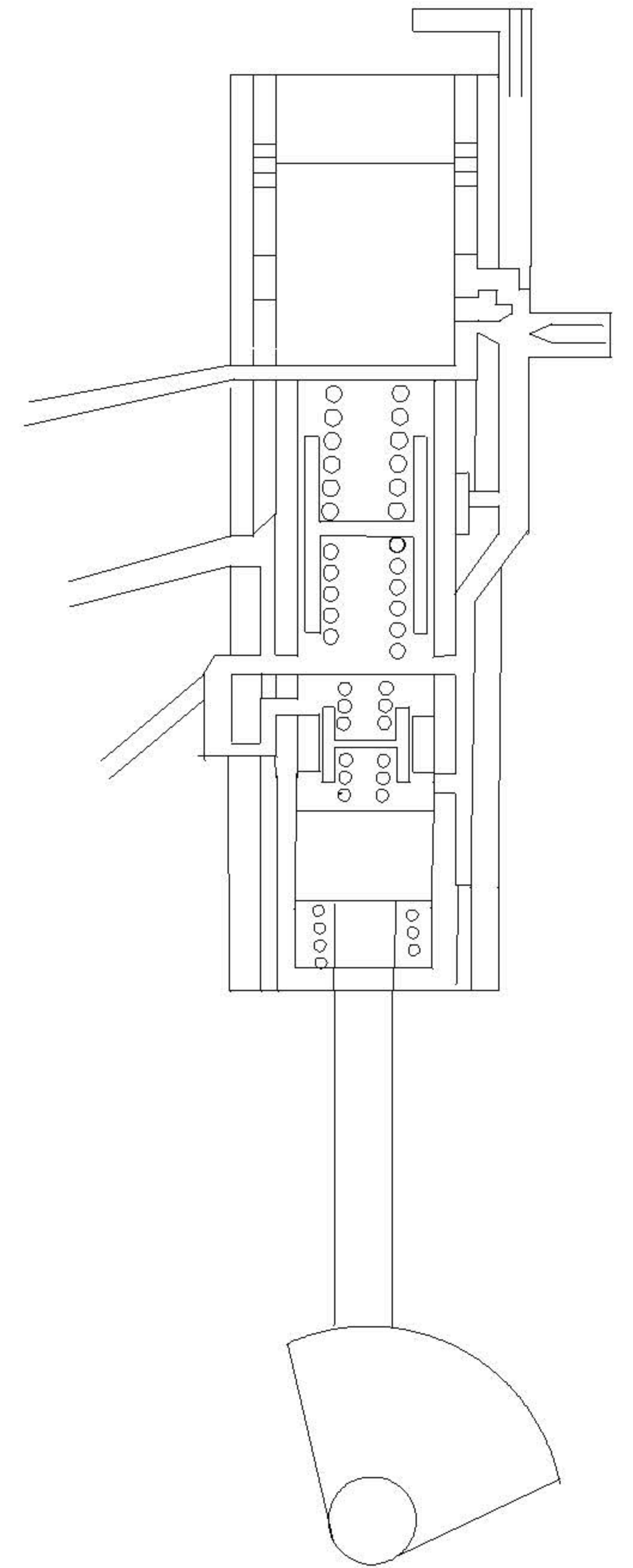
FSC	Name
2910	Engine Fuel System Components, Nonaircraft
1 FSC(s) found.	



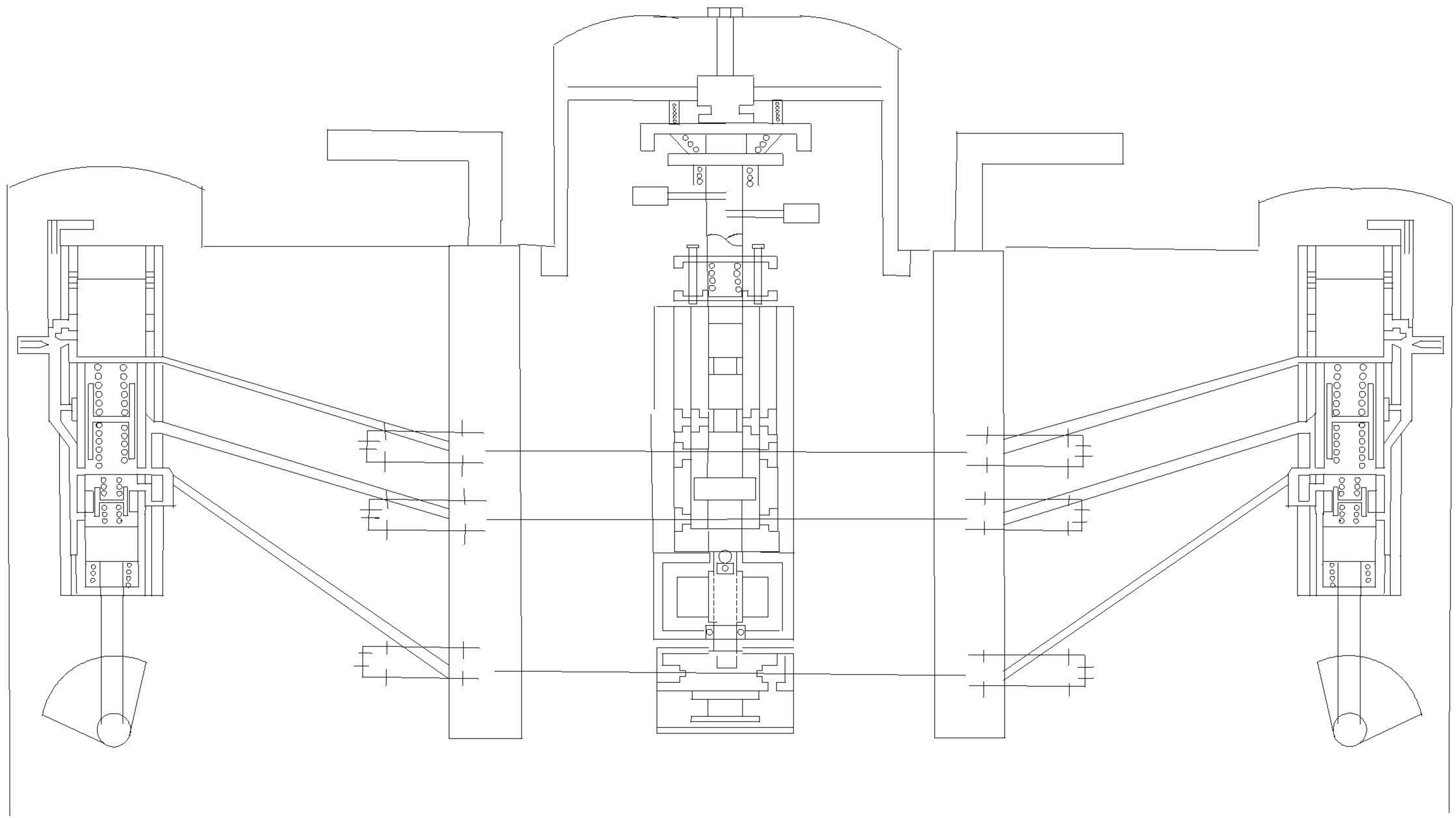




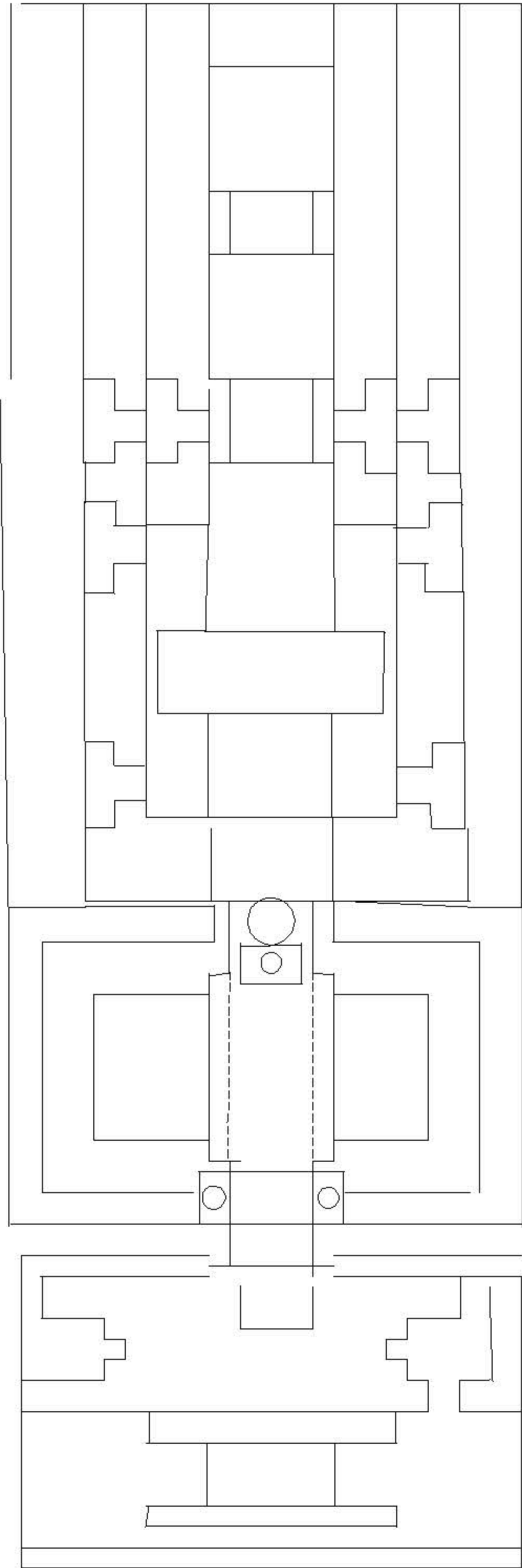
ACCUMLATOR AND POWER PISTON RIGHT BANK



ACCUMLATOR AND POWER PISTON LEFT BANK

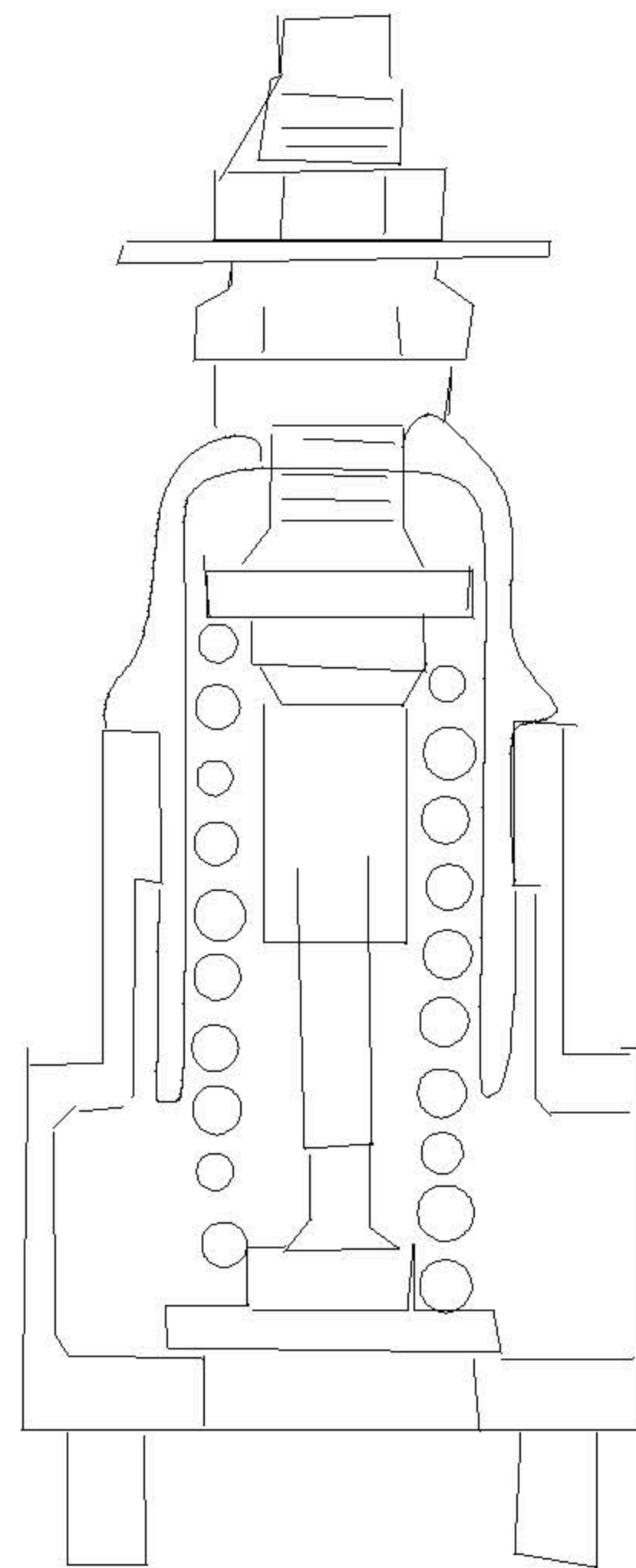


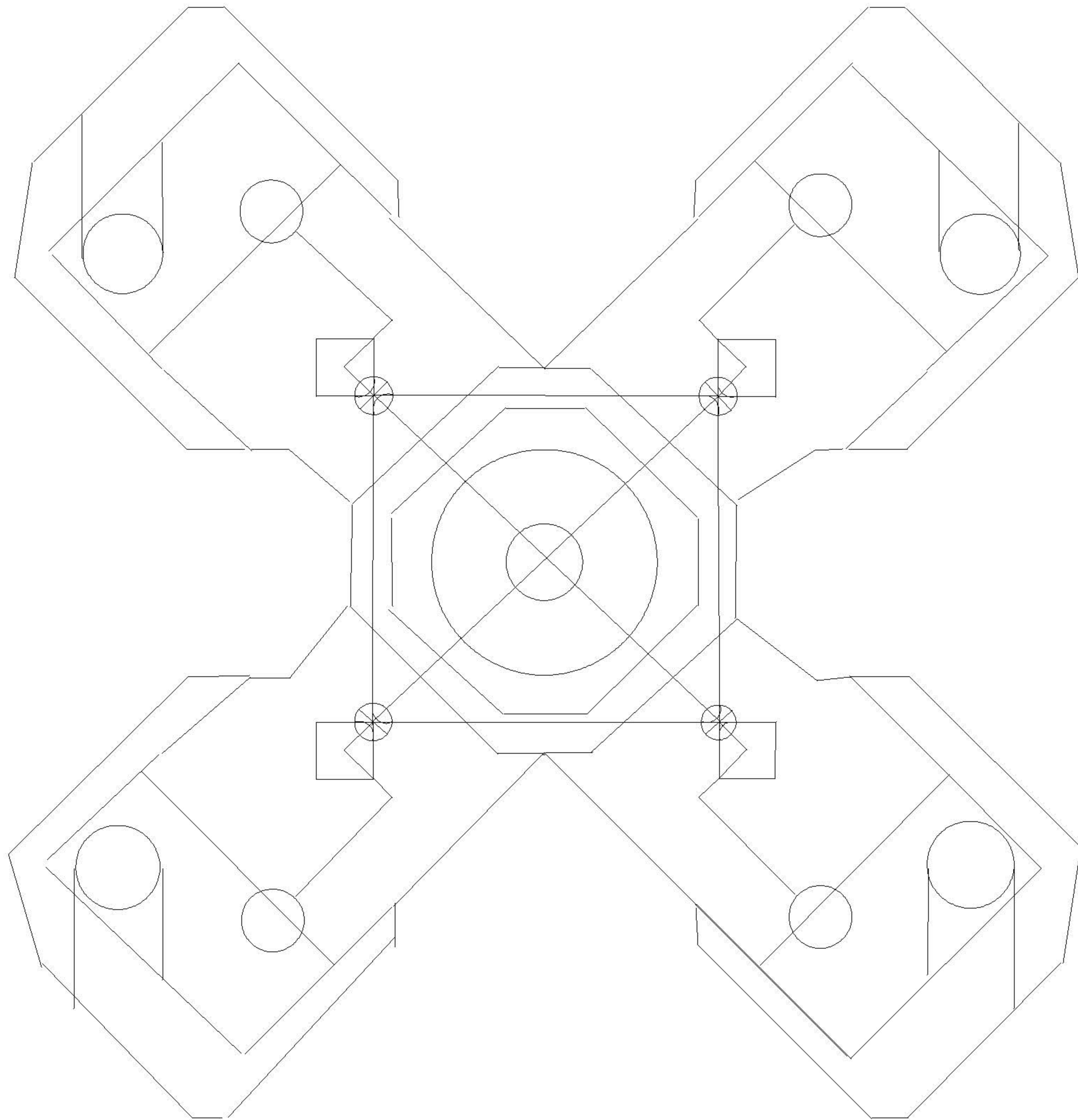
GOVERNOR



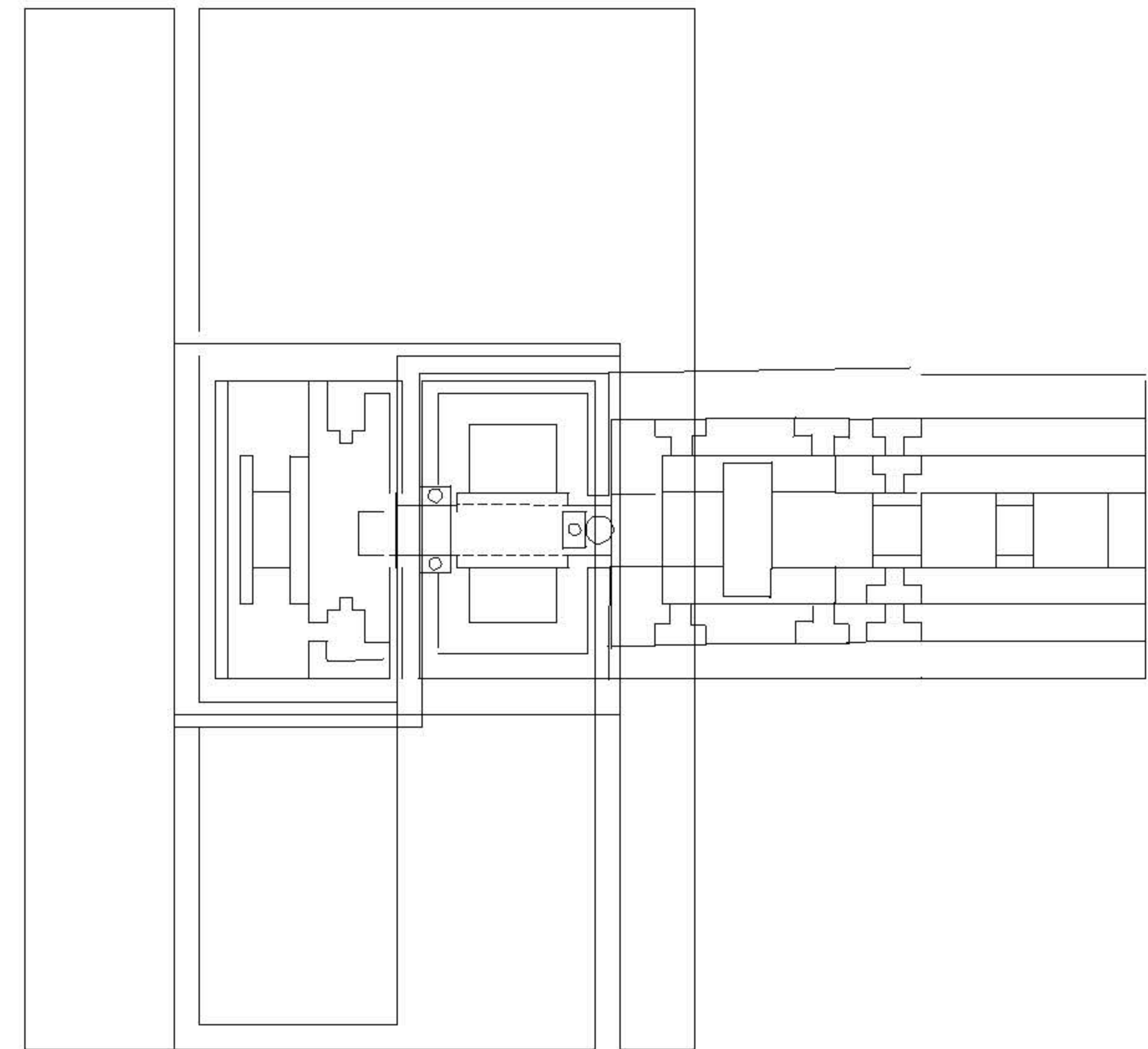
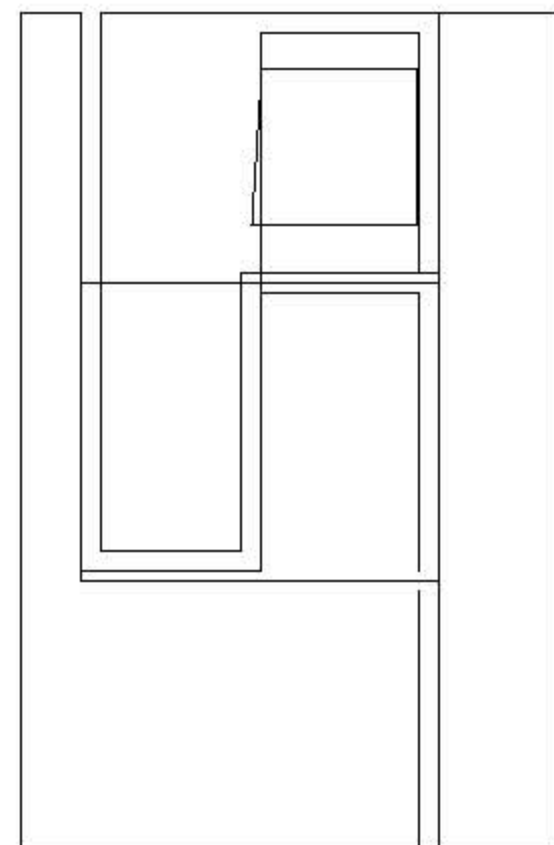
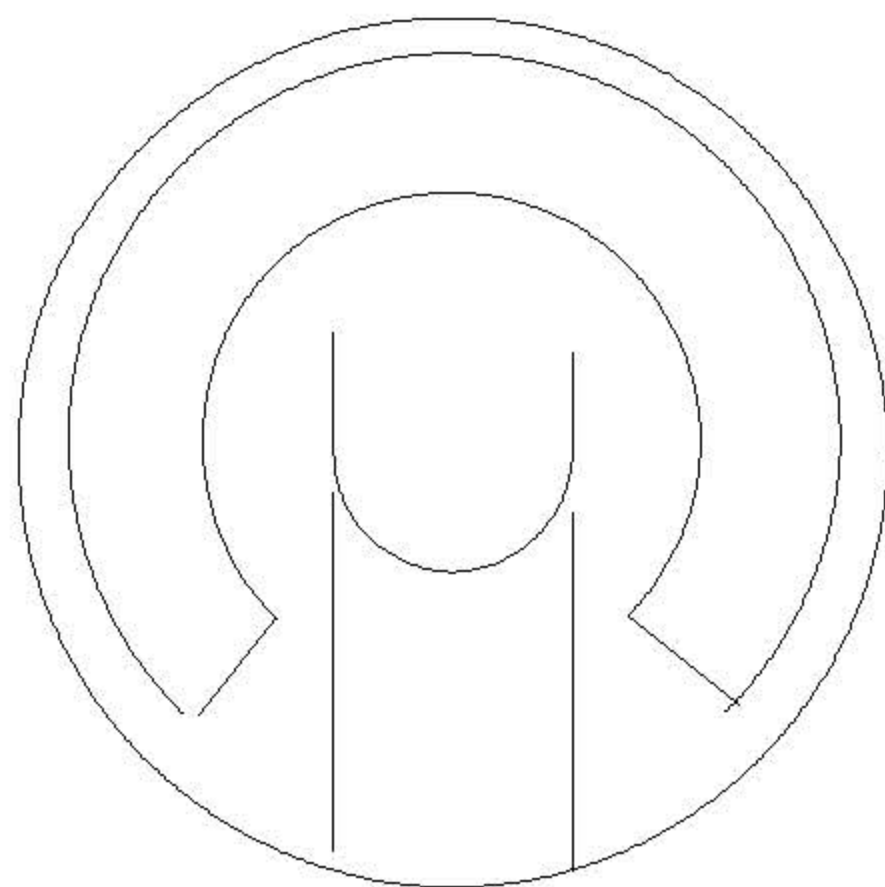
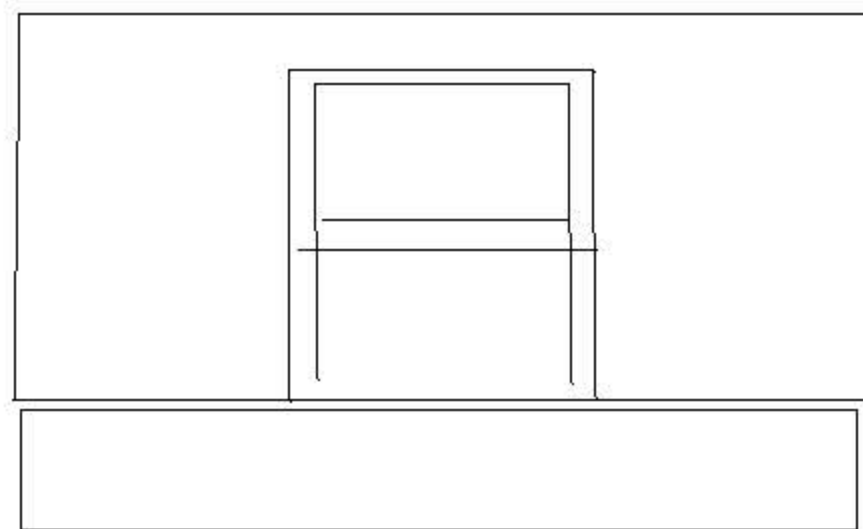
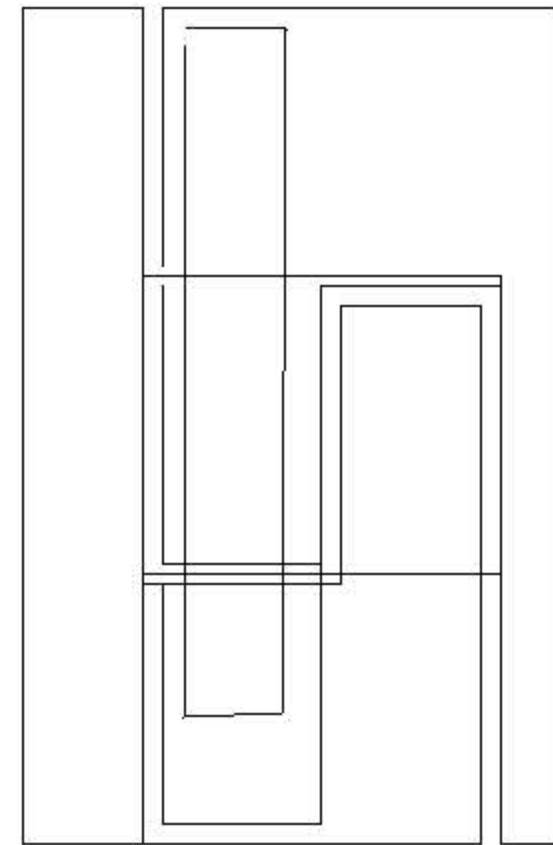
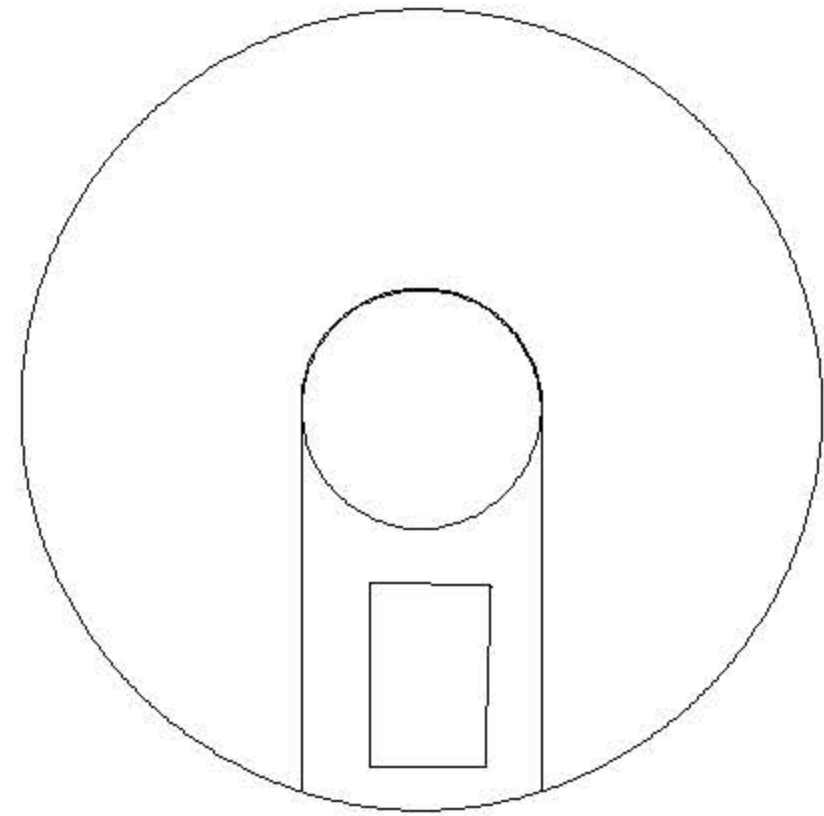
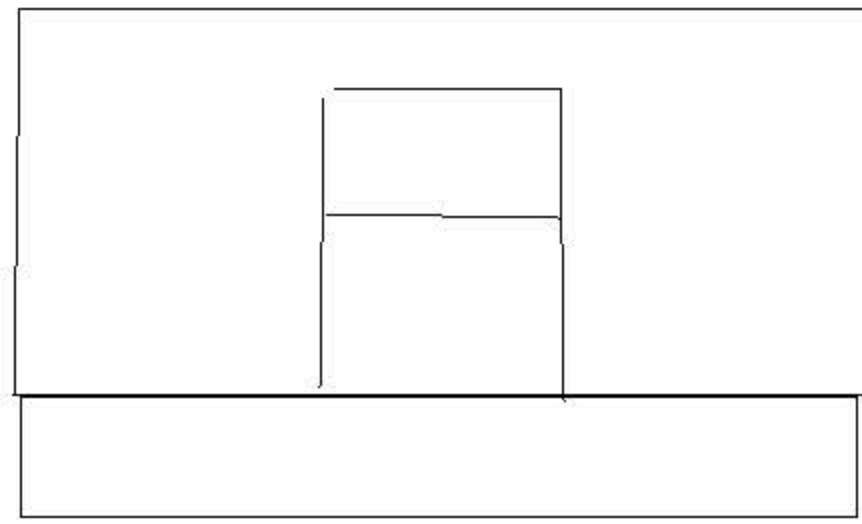
GOVERNOR SHAFT, SLEEVE, AND PLUNGER

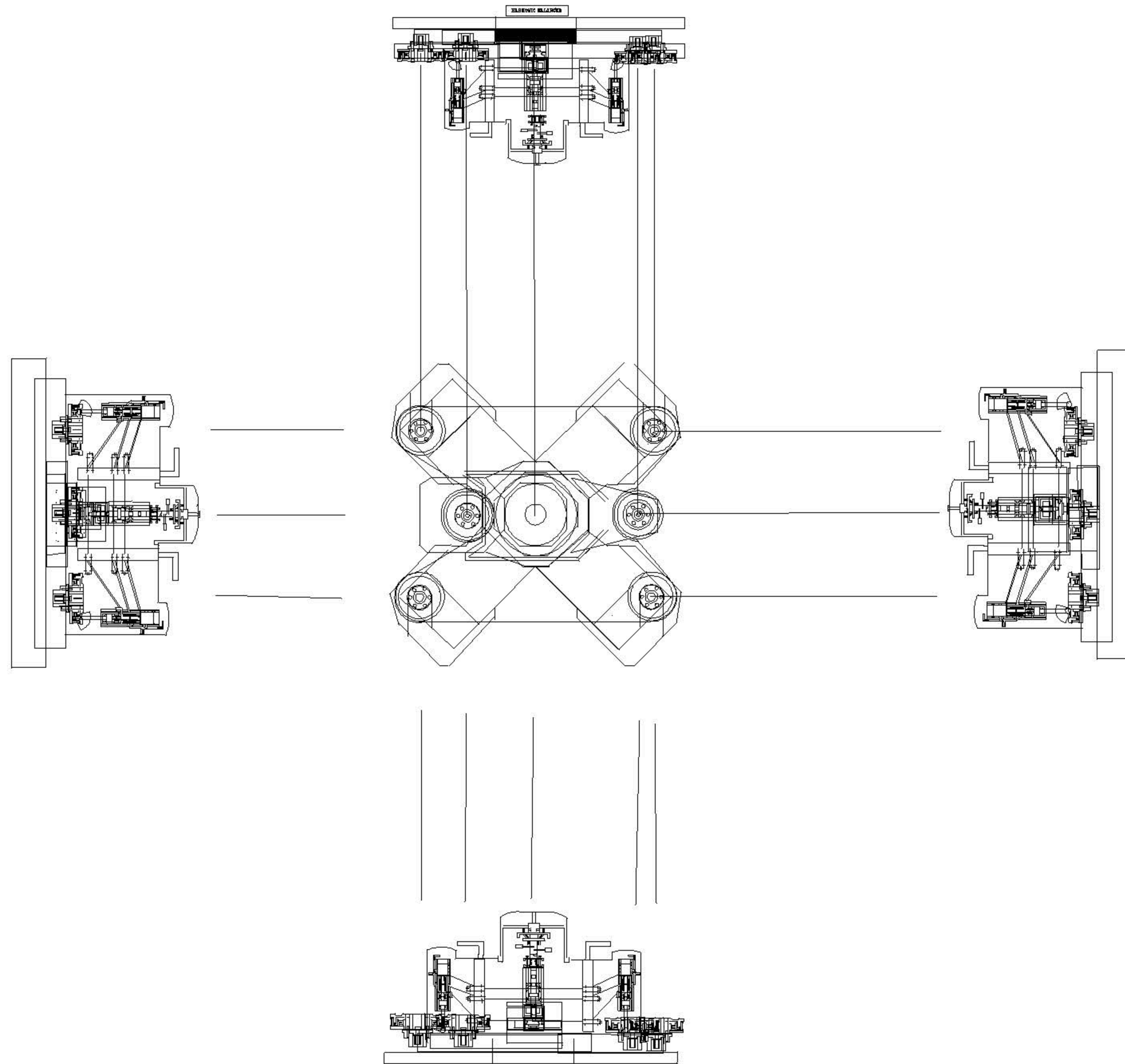
ADAM NUGENT ROSENBERGER, NOV 20 2020



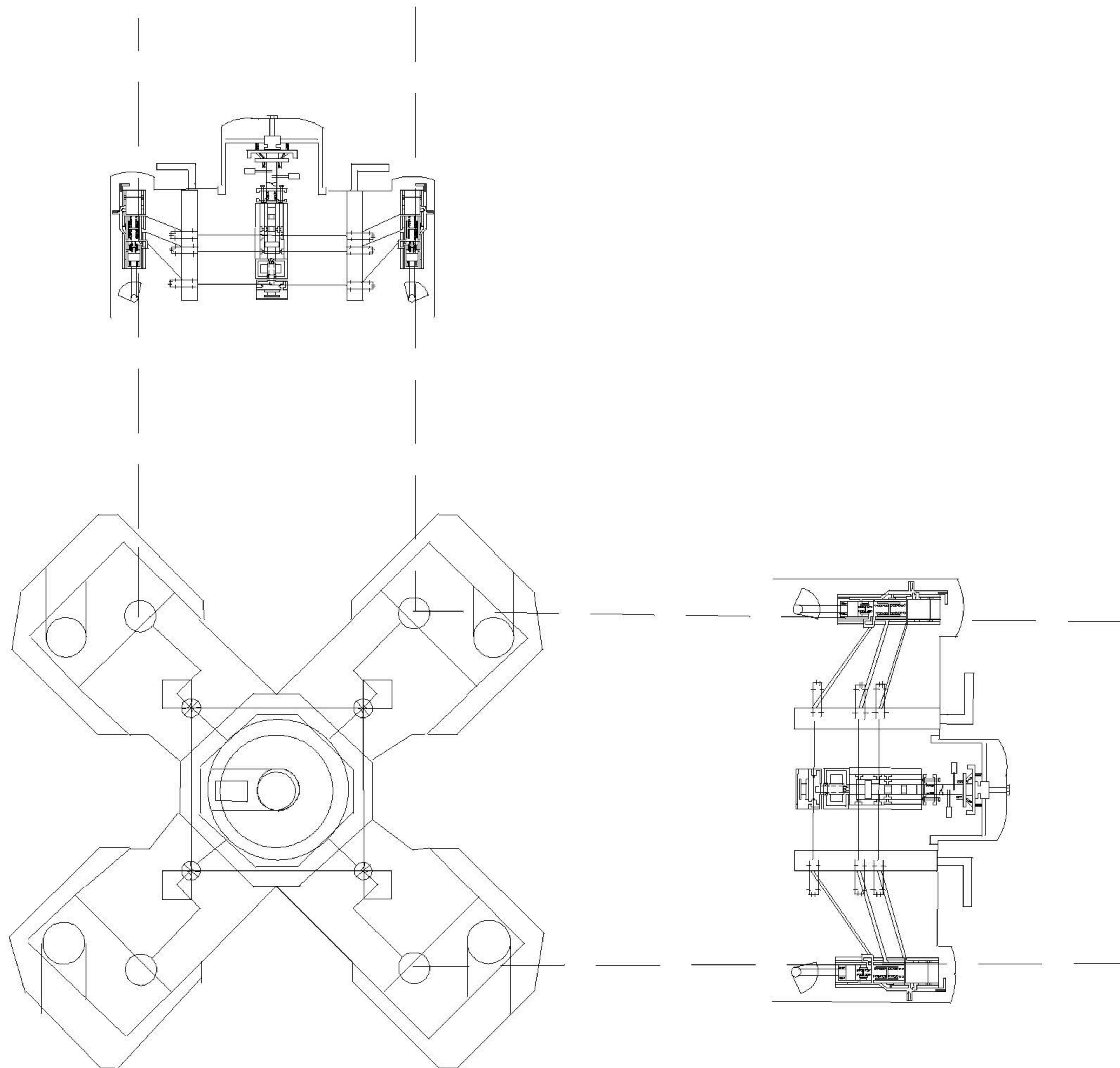


FUEL PATH TO GOVERNOR ROTARTY CHECK VALVES

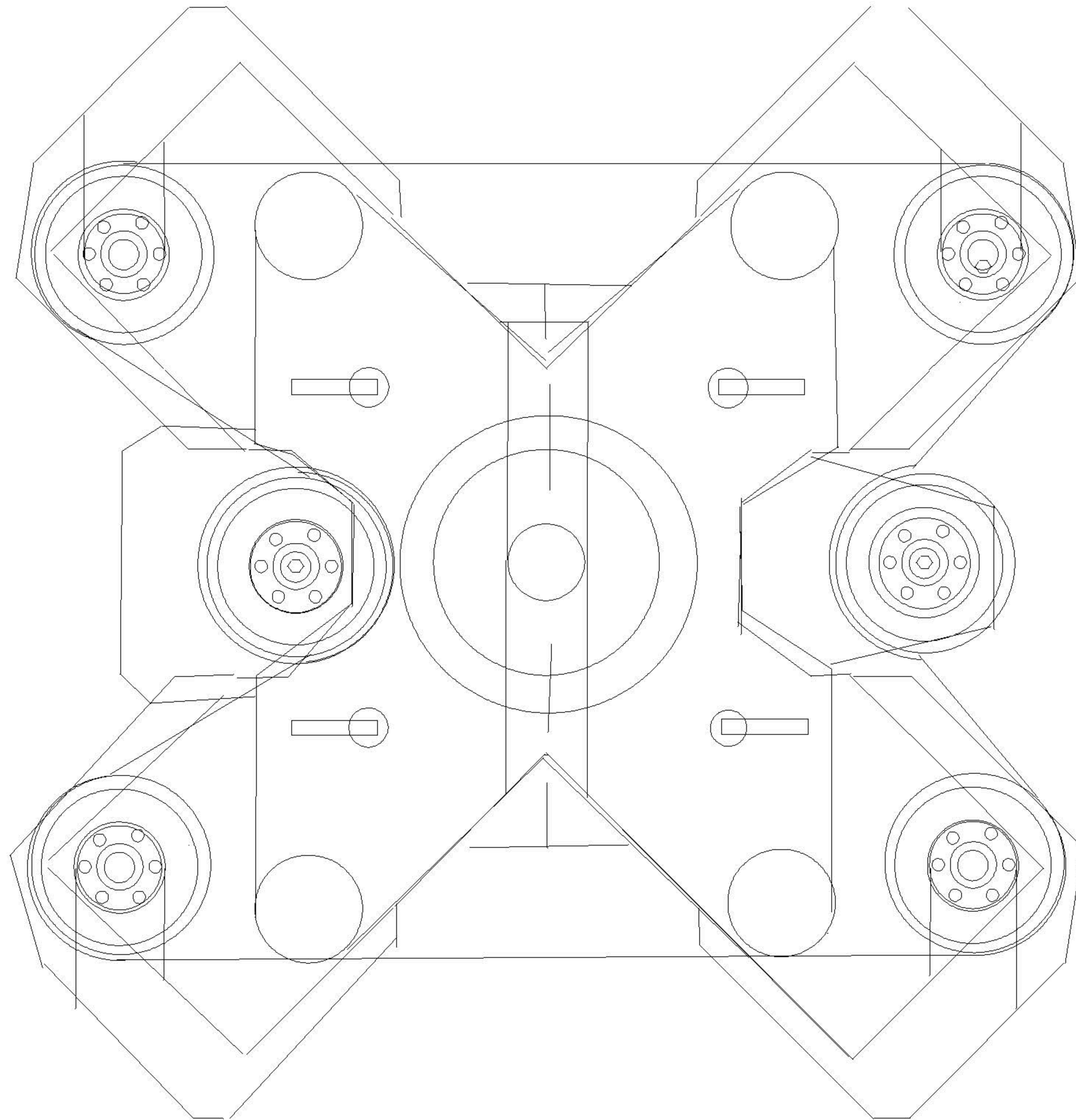




governor front views top bottom left/right

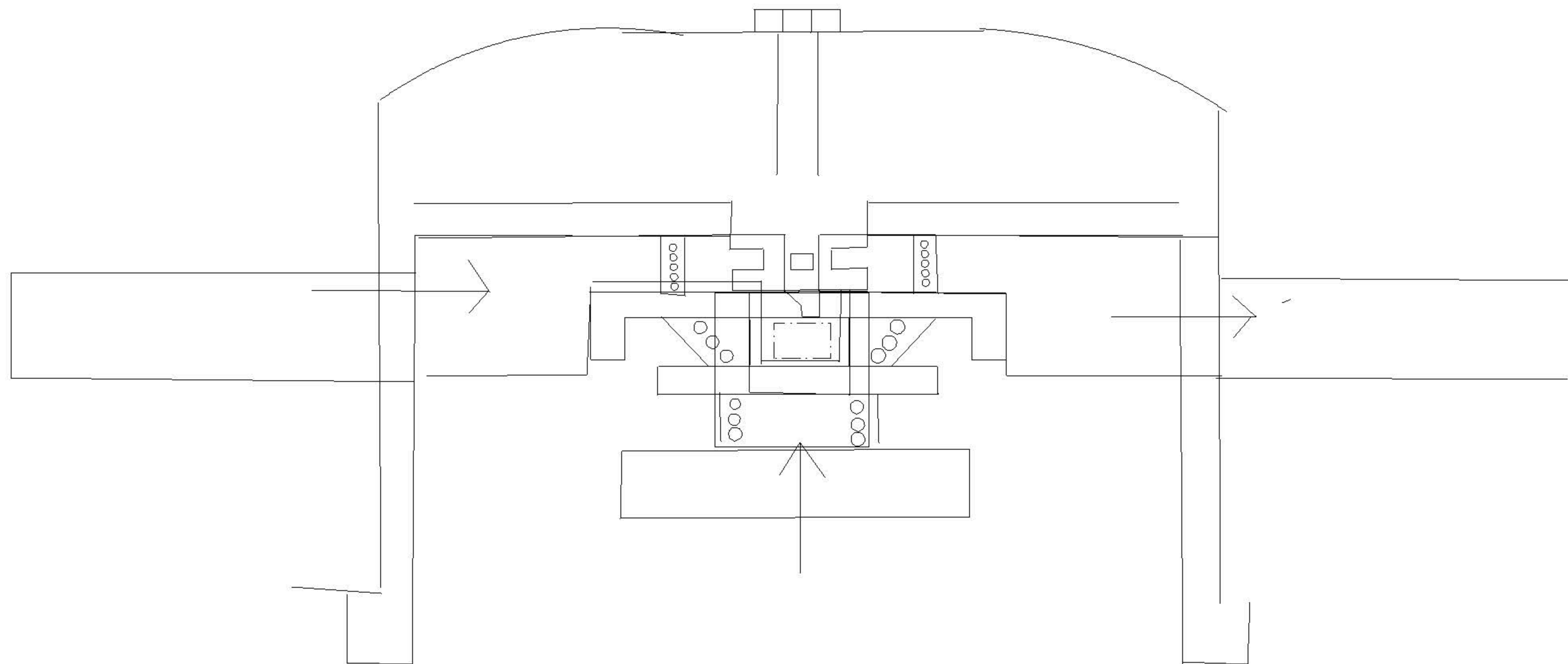


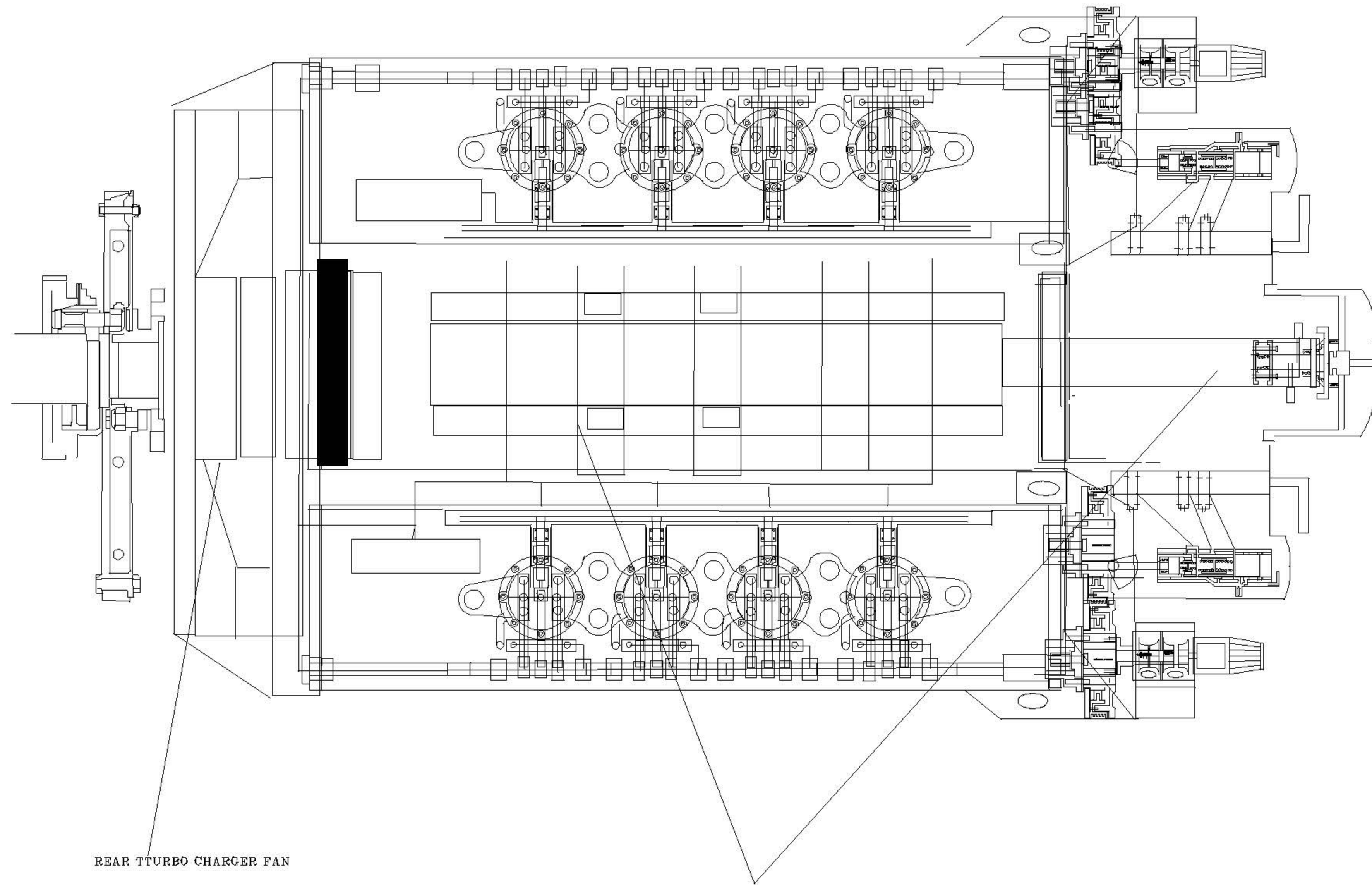
GOVERNOR TOP AND SIDE VIEW
WITH CORRECTED ROTARY PATH



FRONT VIEW ENGINE /GOVERNOR

ADAM NUGENT ROSENBERGER, 1/29/2021





REAR TTURBO CHARGER FAN

AIRFLOW PRESSURE CRANKCASE BAFFLE AIR FLOW



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Colloquial Name

Name FUEL OIL,DIESEL
INC J5755
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see DIESEL FUEL;

Approved Item Name

Name DIESEL FUEL
INC [26648](#)
FIIG A090A0 (displayed for historical purposes only)
FIIG Title FUELS, LIQUID
Condition Code 1
Applicability Key B (displayed for historical purposes only)
Definition A distillate obtained from crude or shale oil by refining for general use in compression-ignition engines.

FSC	Name
9140	Fuel Oils
1 FSC(s) found.	



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Colloquial Name

Name FUEL CAMSHAFT STOPPER
INC K4383
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see STOP,THRUST,POSITIONING;

Approved Item Name

Name STOP,THRUST,POSITIONING
INC [53338](#)
FIIG A23900 (displayed for historical purposes only)
FIIG Title MISCELLANEOUS ITEMS
Condition Code 1
Applicability Key A (displayed for historical purposes only)
Definition A two-piece metallic item designed to stop and maintain in alignment a mechanical element from another mechanical element on which they are fixed by means of a clamping device.

FSC	Name
5340	Hardware, Commercial
1 FSC(s) found.	



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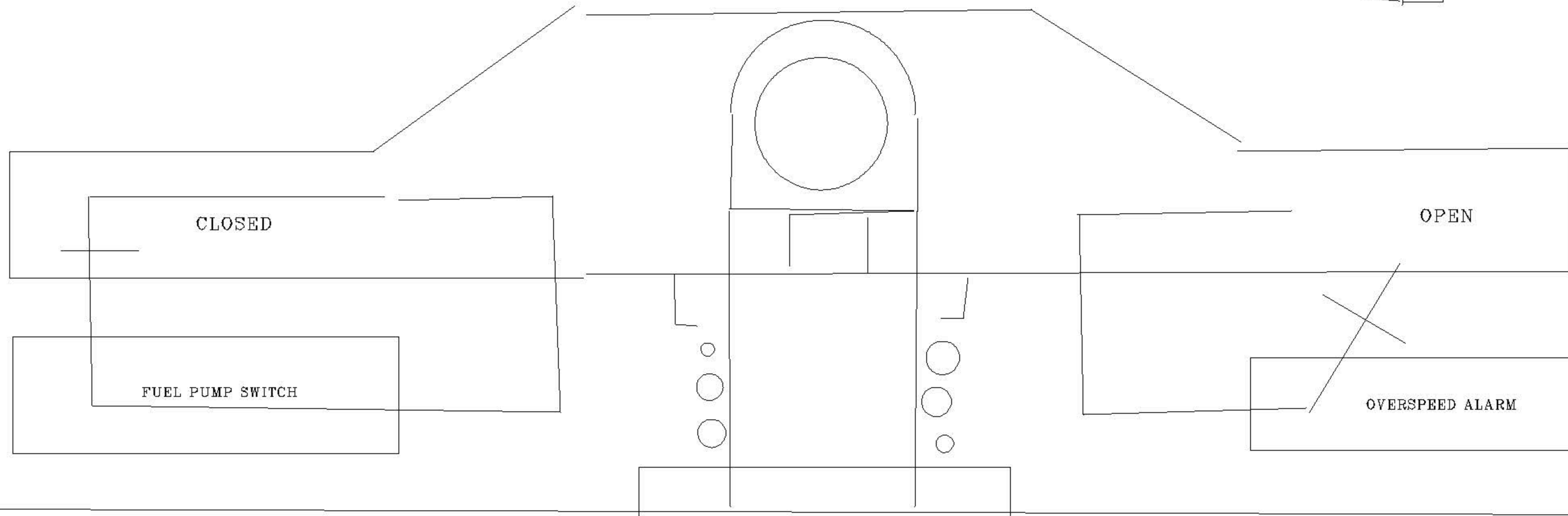
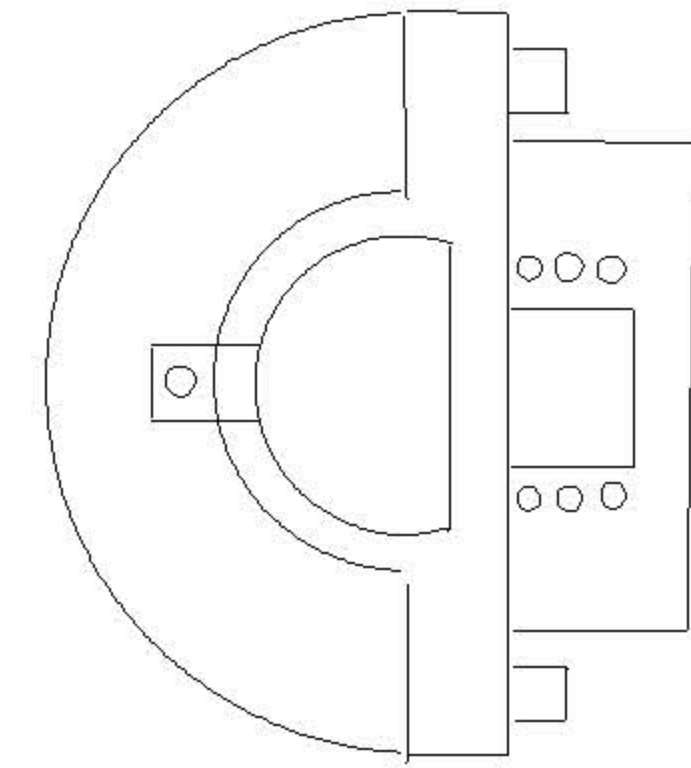
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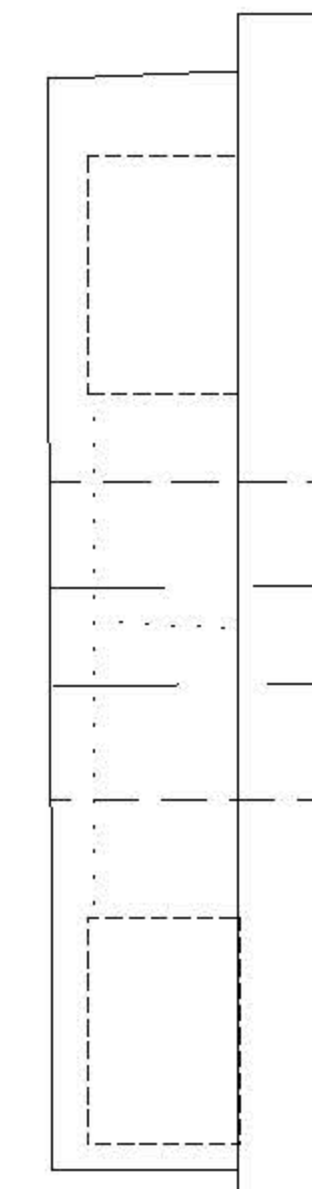
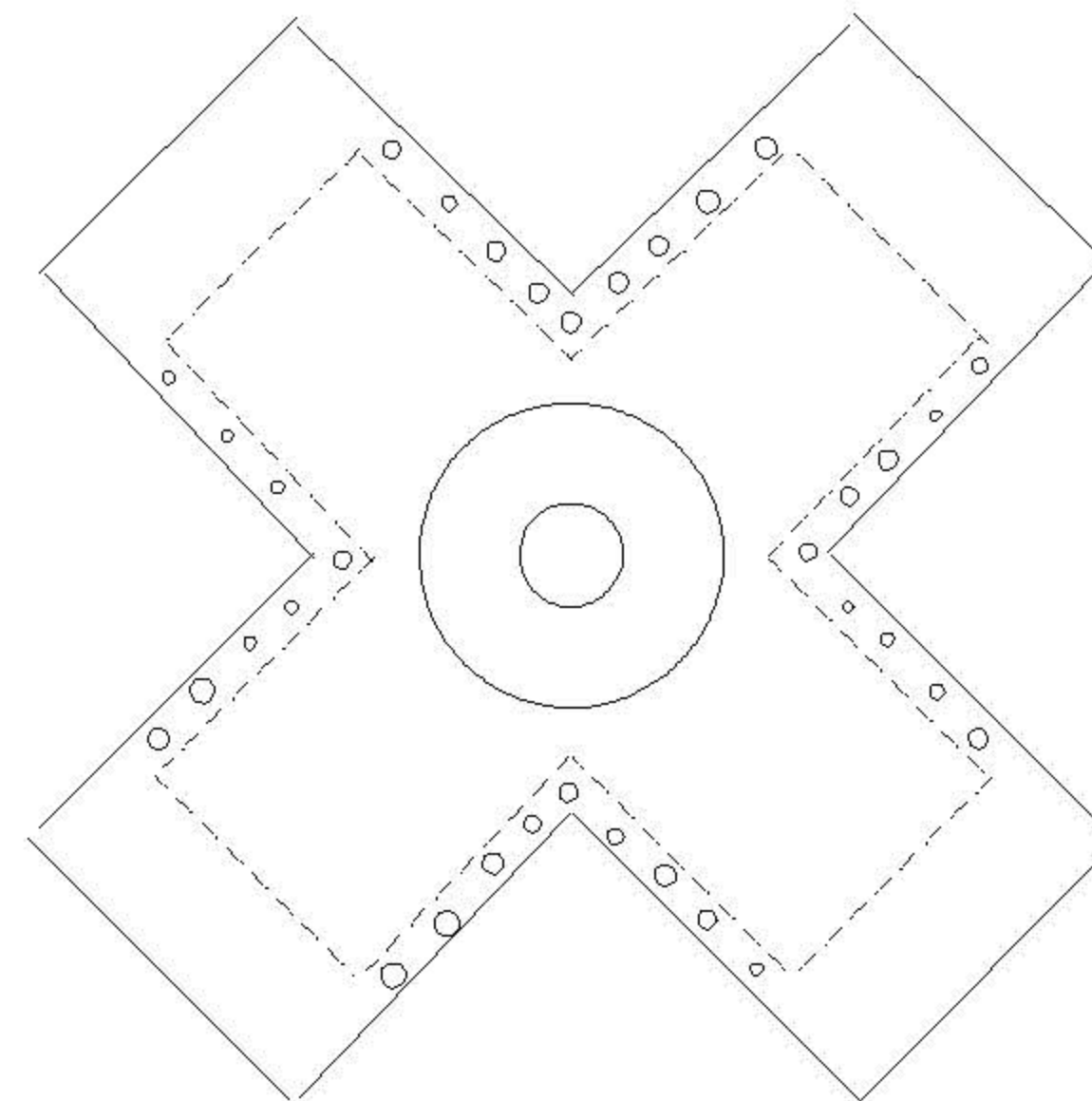
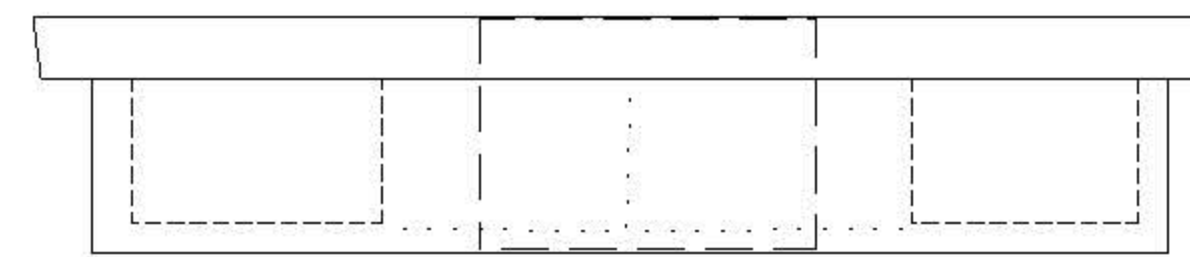
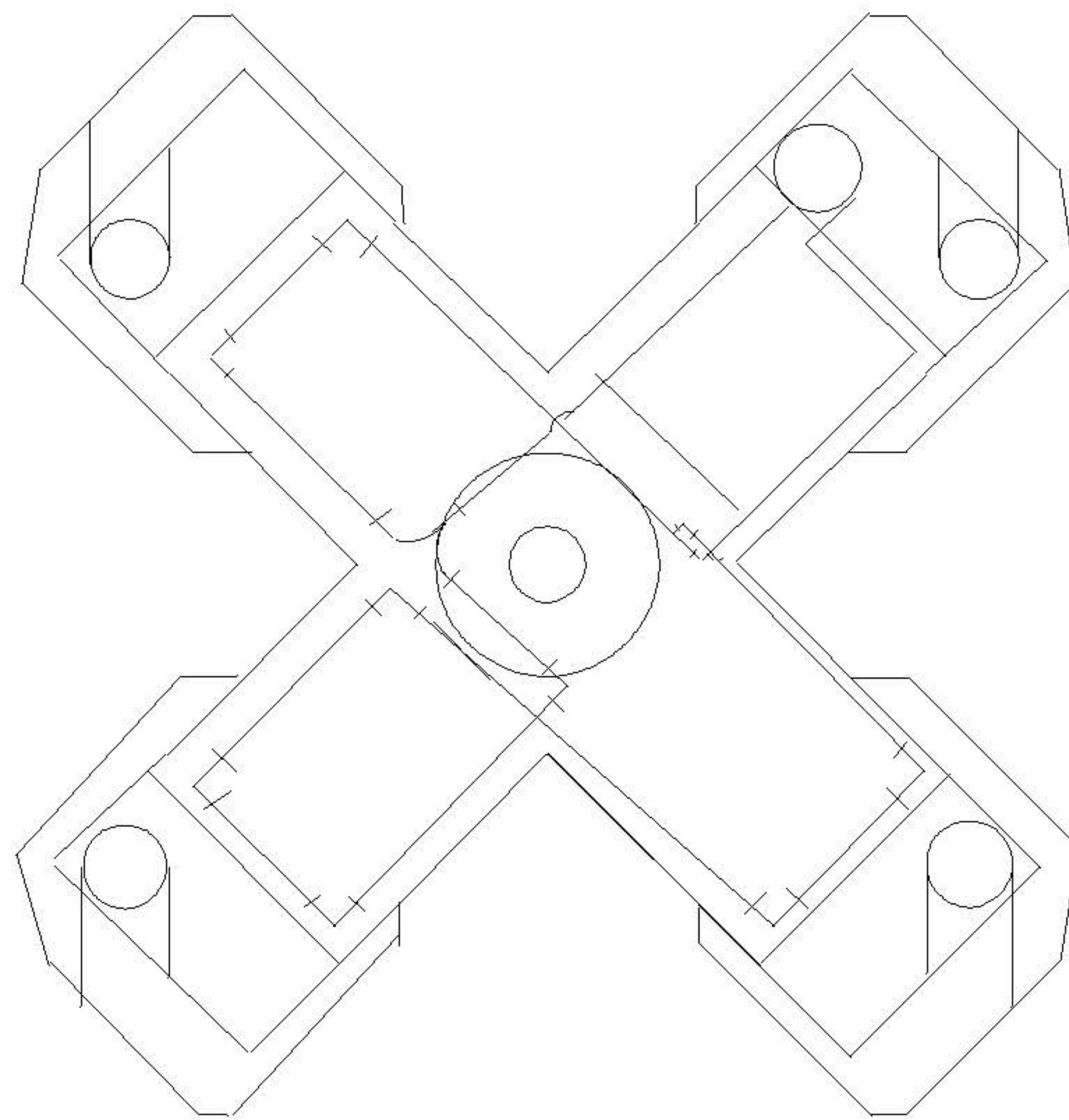
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Approved Item Name

Name	MANIFOLD ASSEMBLY,LEAK-FUEL RETURN,DIESEL ENGINE
INC	53345
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	A line from the fuel injectors to the fuel tank which allows fuel leaks from the injectors to return to the fuel tank. It generally consists of leak fuel pipes, fittings and the like.

FSC	Name
2910	Engine Fuel System Components, Nonaircraft
1 FSC(s) found.	







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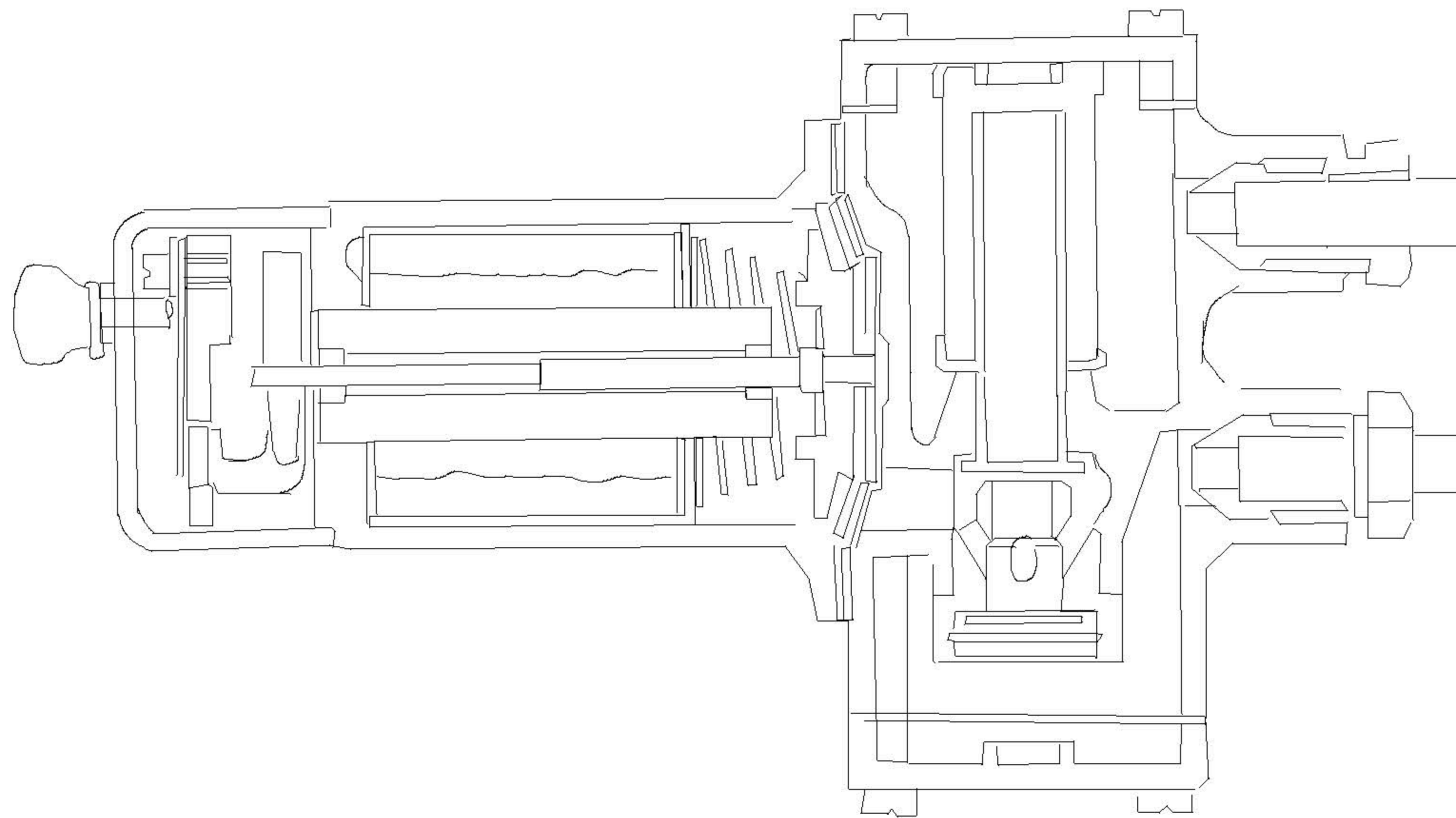
Colloquial Name

Name FUEL PUMP,DIESEL ENGINE
INC J1764
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see PUMP, FUEL, METERING AND DISTRIBUTING

Approved Item Name

Name PUMP,FUEL,METERING AND DISTRIBUTING
INC [60879](#)
FIIG A592T0 (displayed for historical purposes only)
FIIG Title
Condition Code 2
Applicability Key
Definition A device specifically designed to (1) increase the pressure of, (2) meter the amount of, (3) control the distribution of liquid fuel received directly or indirectly from the TANK, FUEL, ENGINE to the individual air inlet tubes or combustion chambers of gasoline or diesel engines.

FSC	Name
2910	Engine Fuel System Components, Nonaircraft
2915	Engine Fuel System Components, Aircraft and Missile Prime Movers
2 FSC(s) found.	



FUEL PUMP

ADAM NUGENT ROSENBERGER. NOV 20 2020

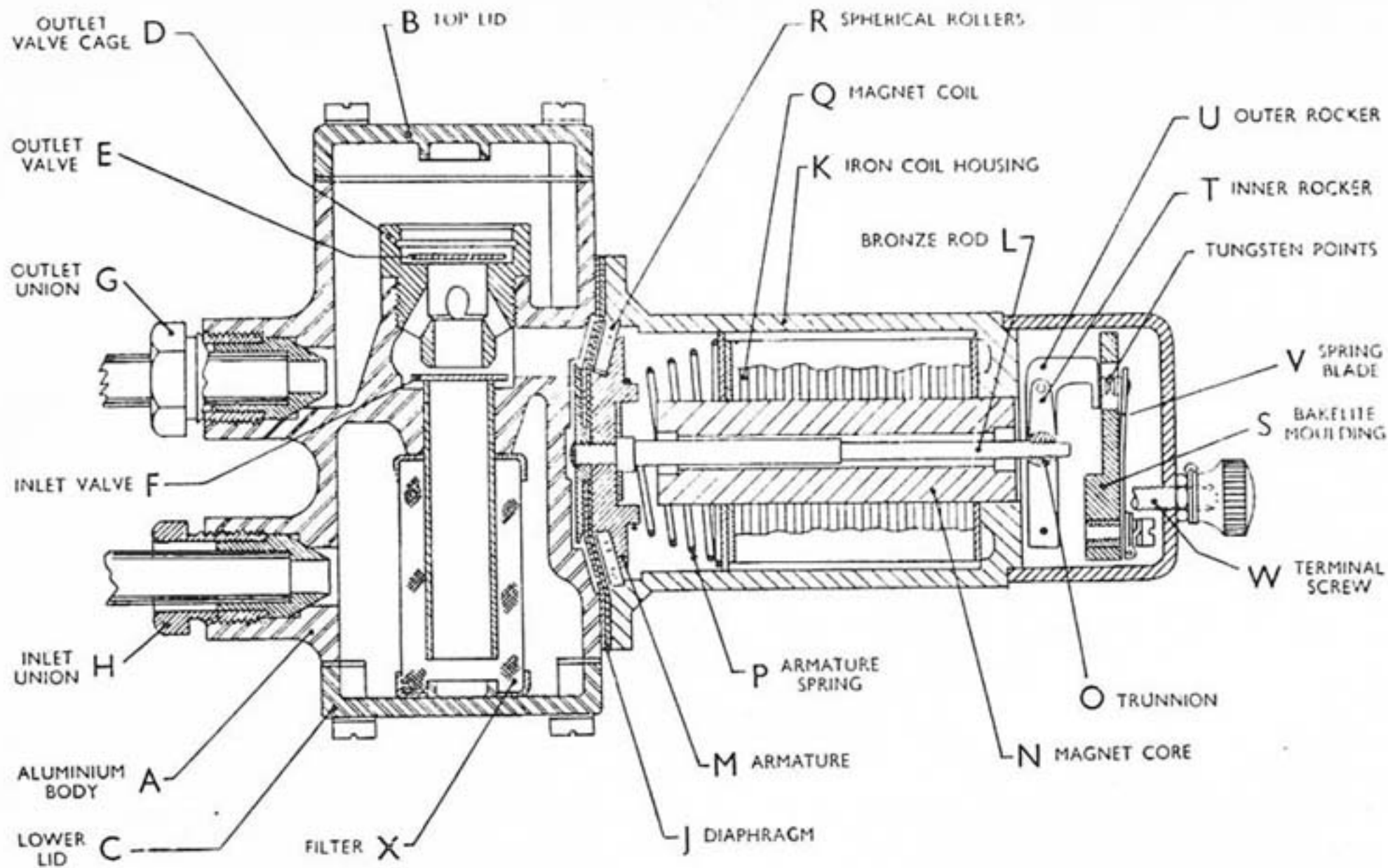
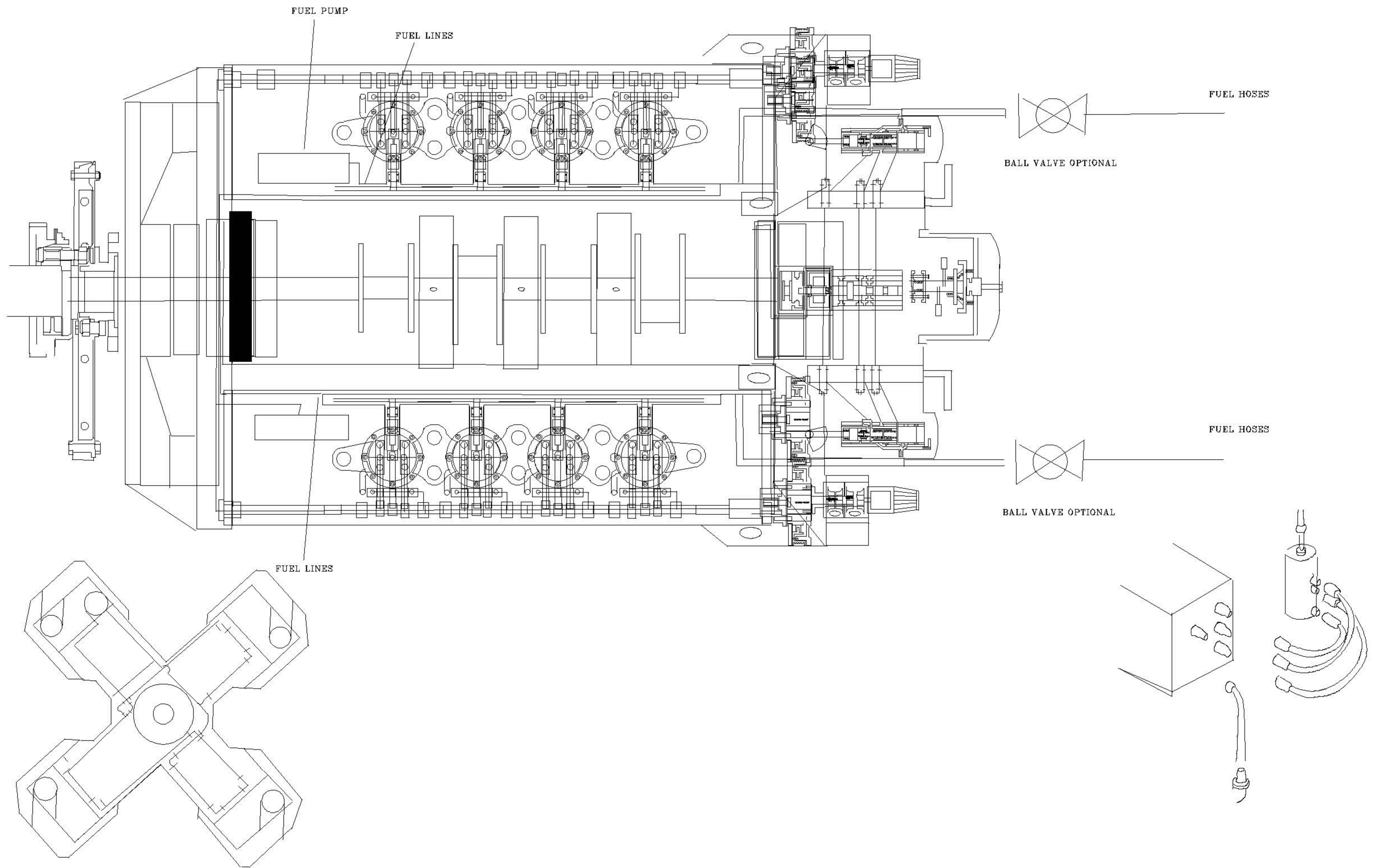
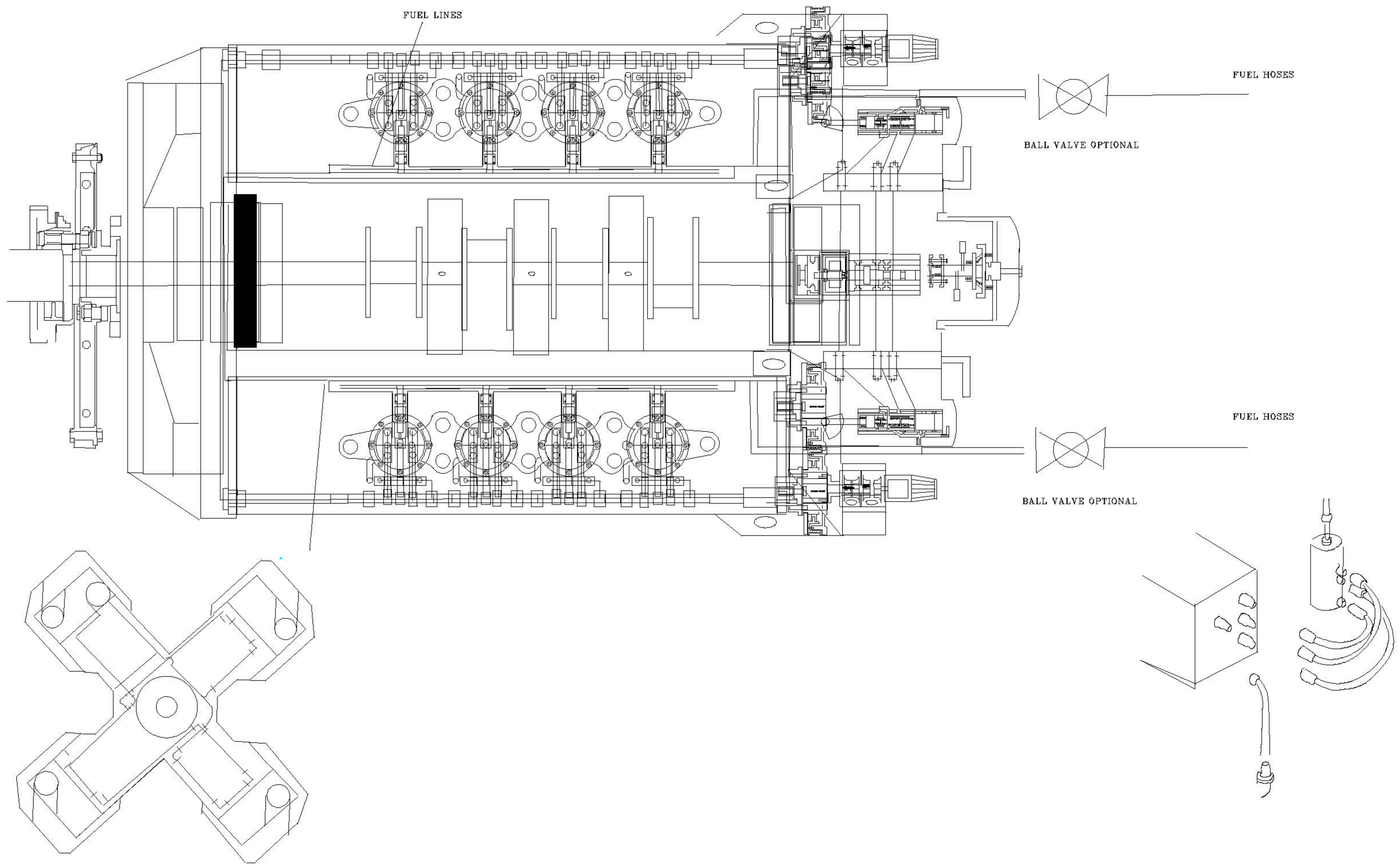


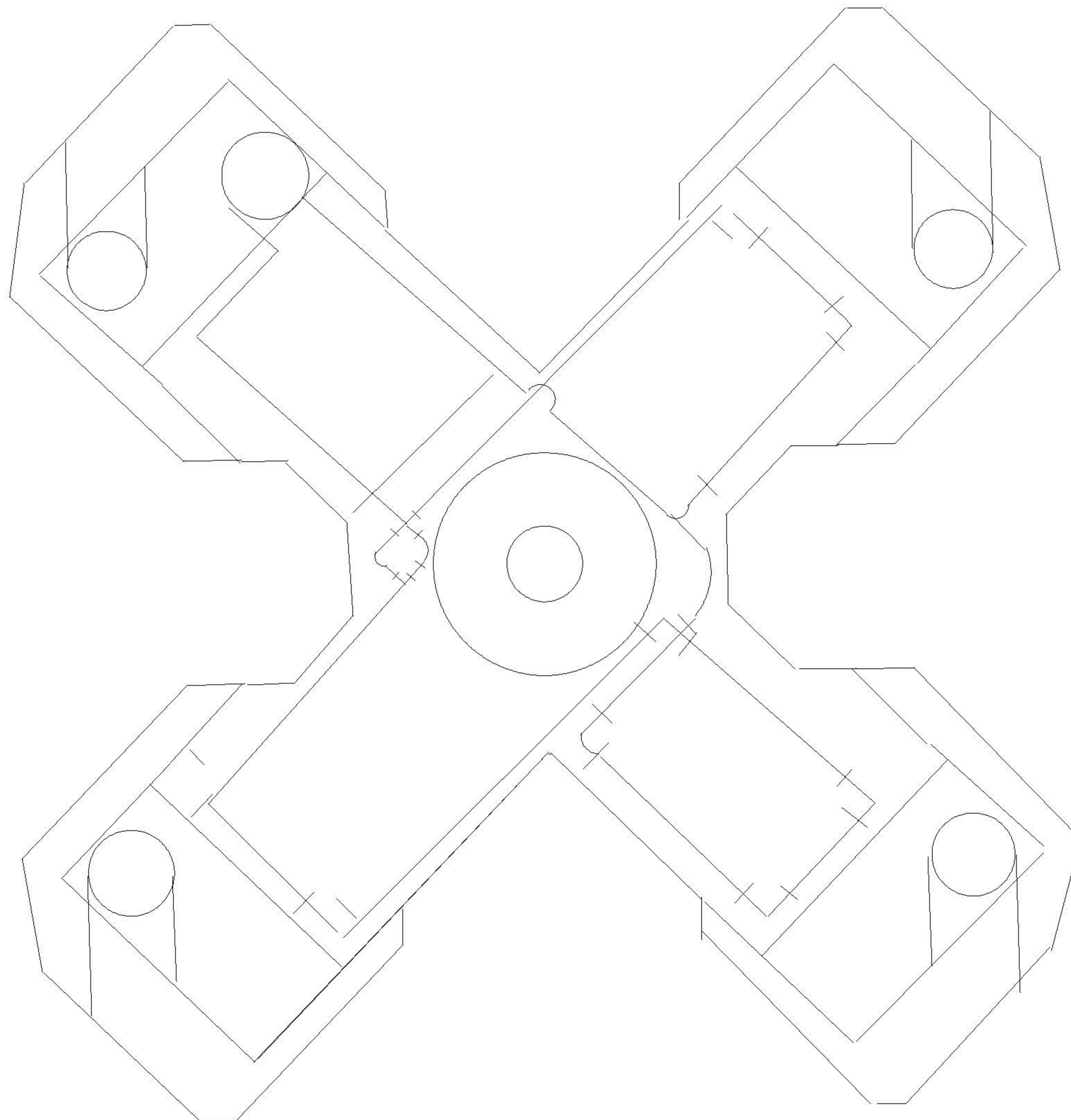
FIG 2:1 The fuel pump



FUEL SYSTEM OVERHEAD



FUEL SYSTEM OVERHEAD





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Colloquial Name

Name FUEL OIL,DIESEL
INC J5755
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see DIESEL FUEL;

Approved Item Name

Name DIESEL FUEL
INC [26648](#)
FIIG A090A0 (displayed for historical purposes only)
FIIG Title FUELS, LIQUID
Condition Code 1
Applicability Key B (displayed for historical purposes only)
Definition A distillate obtained from crude or shale oil by refining for general use in compression-ignition engines.

FSC	Name
9140	Fuel Oils
1 FSC(s) found.	

TRI-PLEX OIL SYSTEM (Full Flow Type)

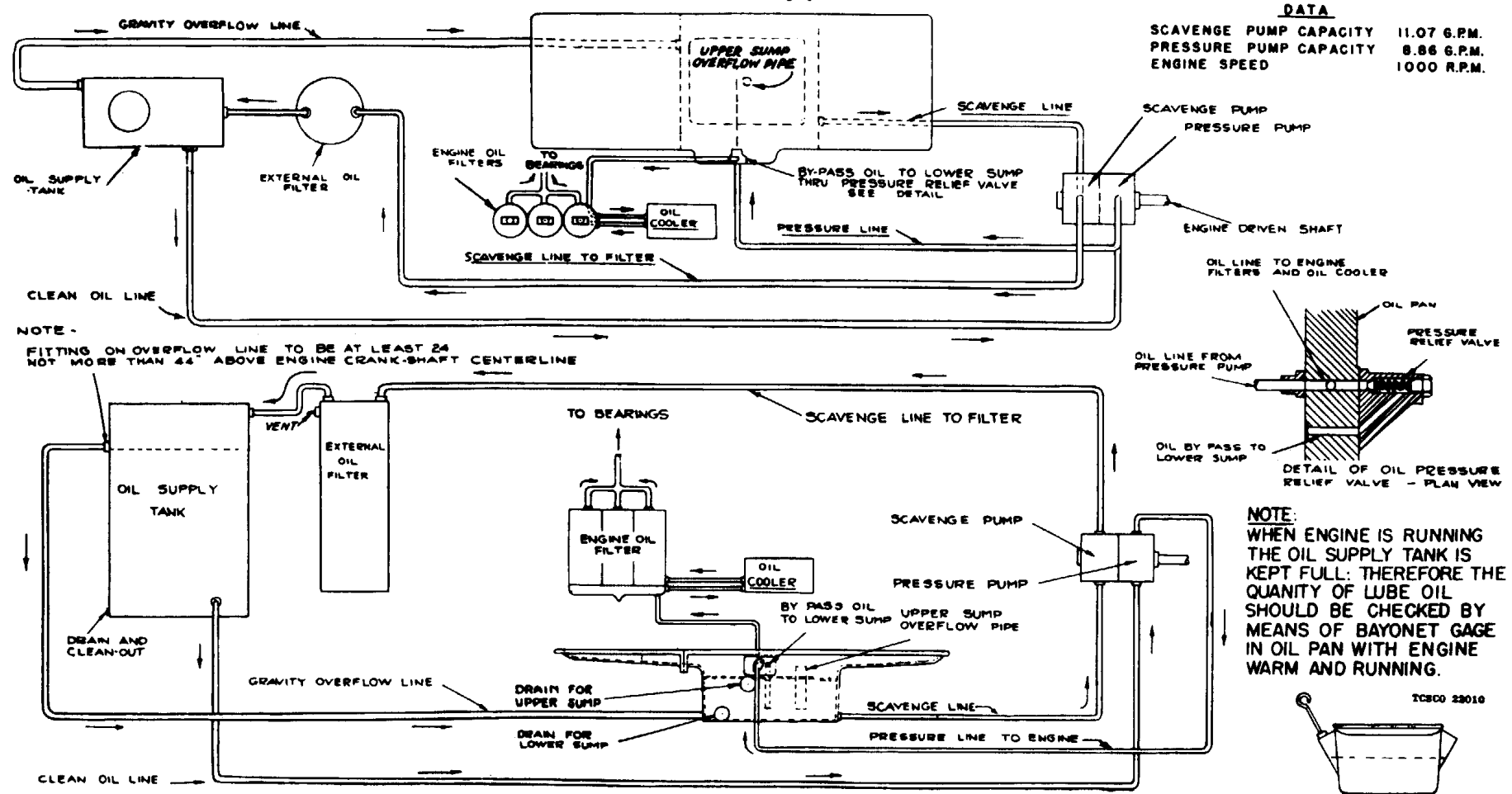


Figure 43. Lubrication oil piping diagram.

OIL PUMP

OIL TANK

CAMSHAFT ROCKER ARMS CLYNIDER HEADS

OIL TO GOVERNOR

PRESSURE PLAT

SCAVENGER PUMP

CAMSHAFT ROCKER ARMS CLYNIDER HEADS

OIL PAN

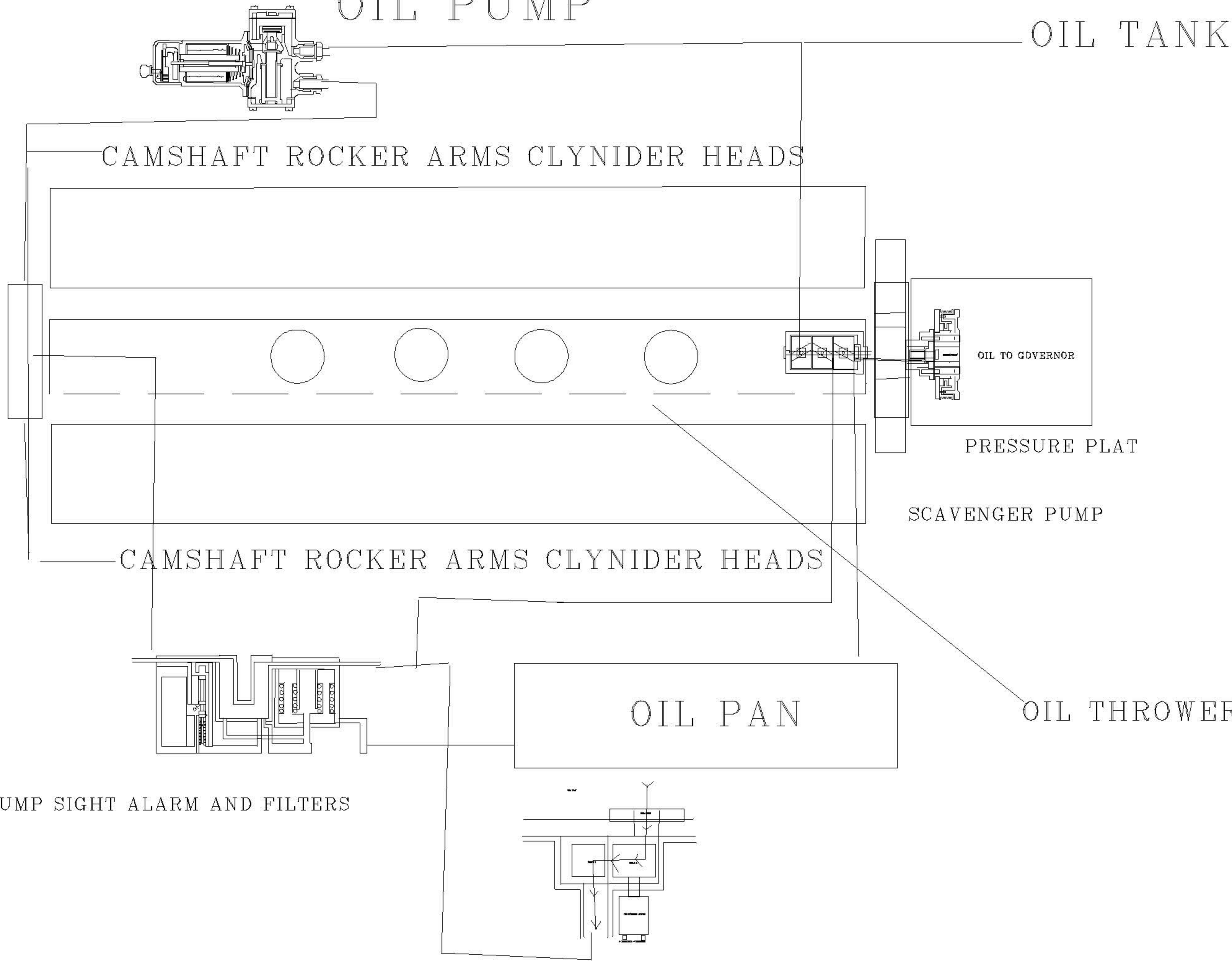
OIL THROWER

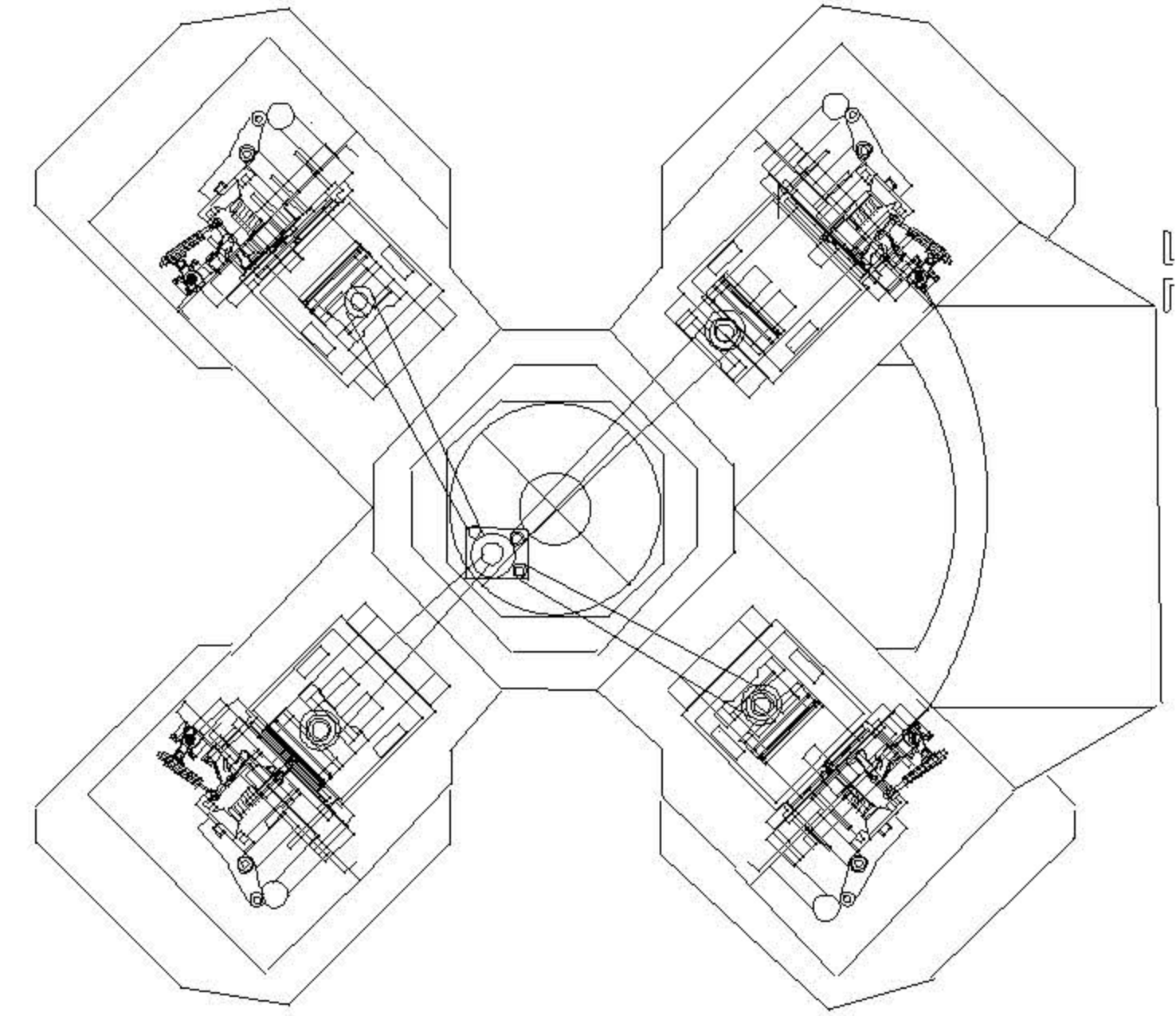
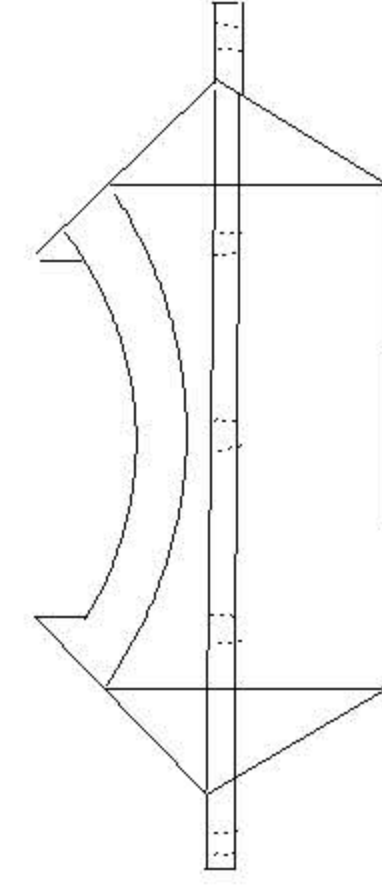
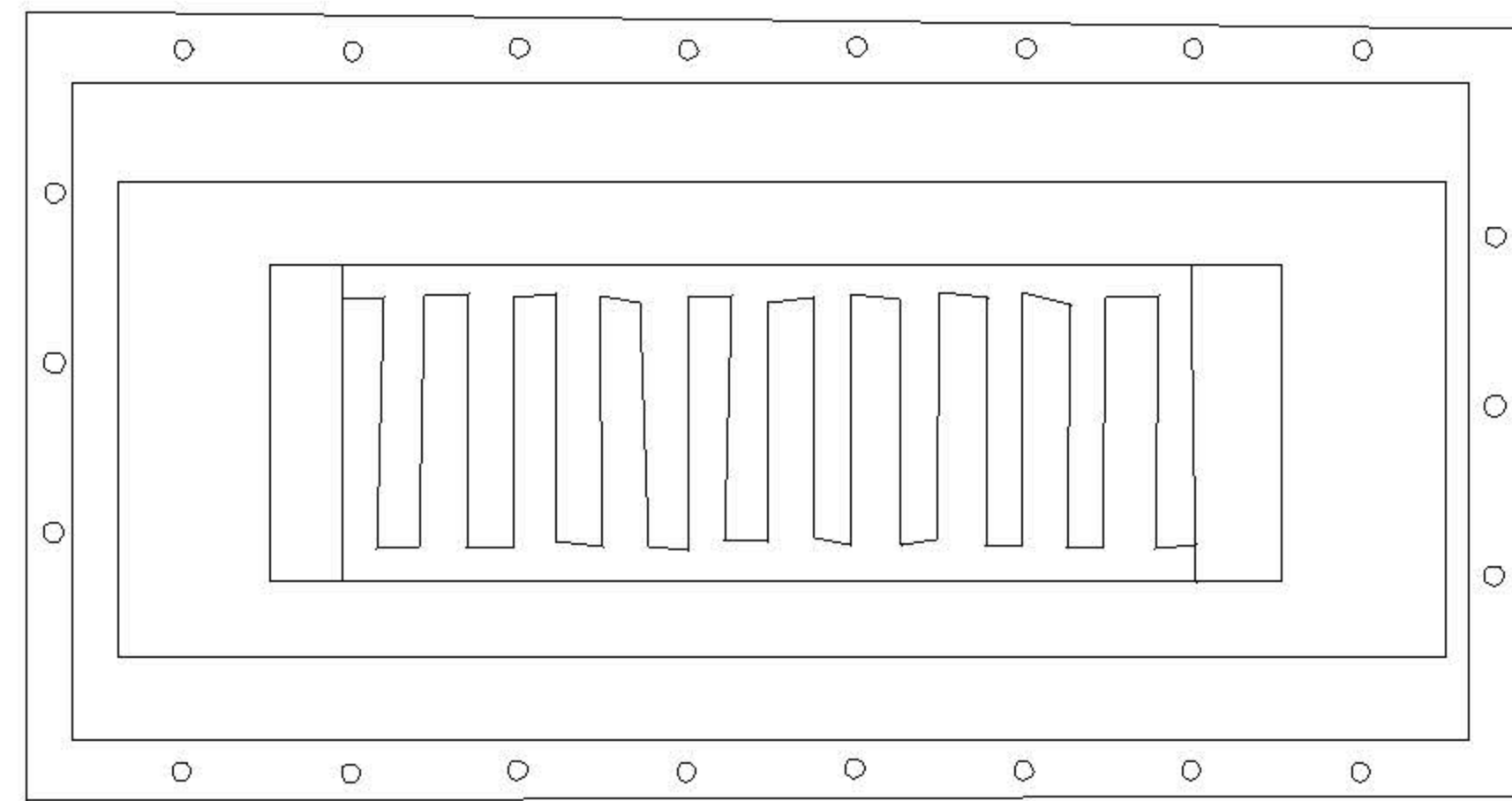
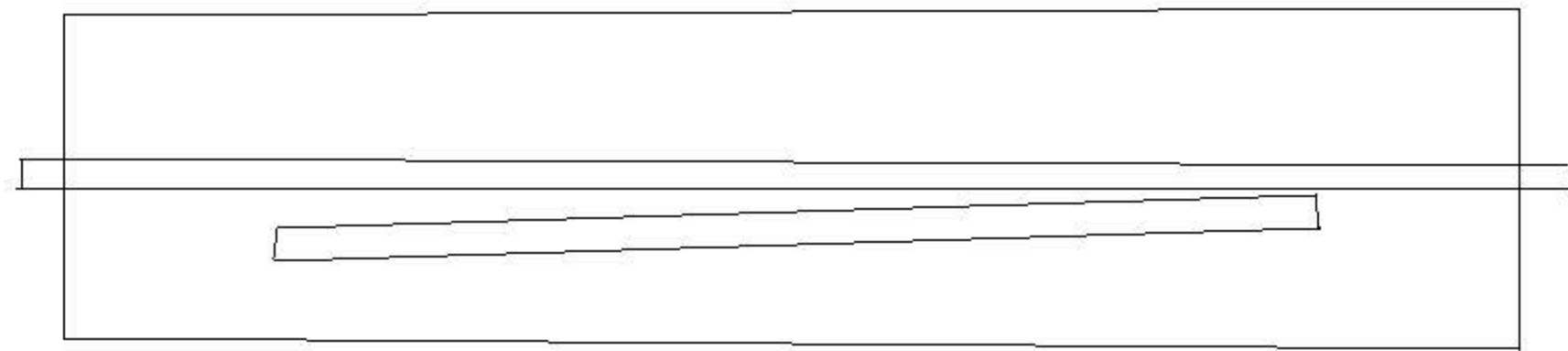
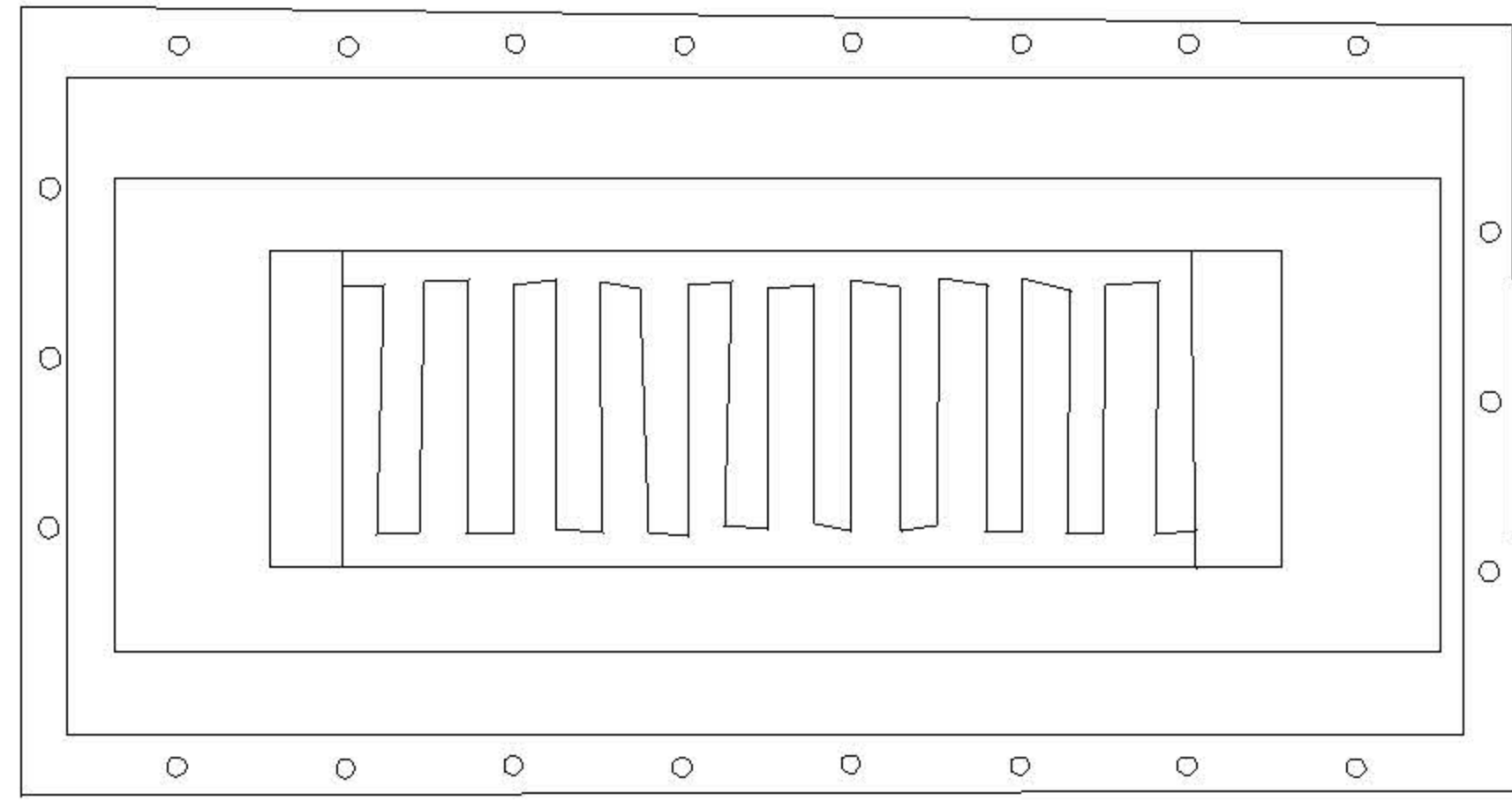
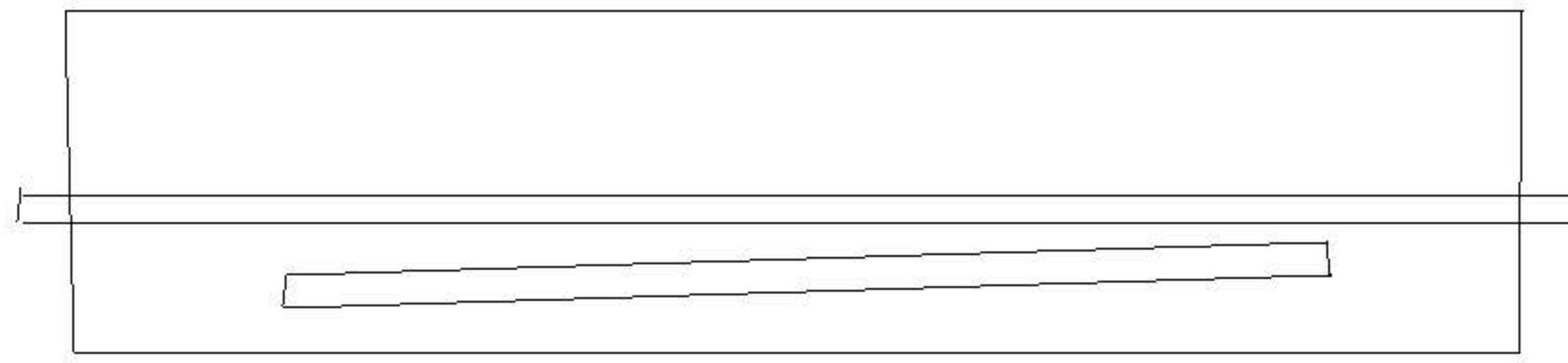
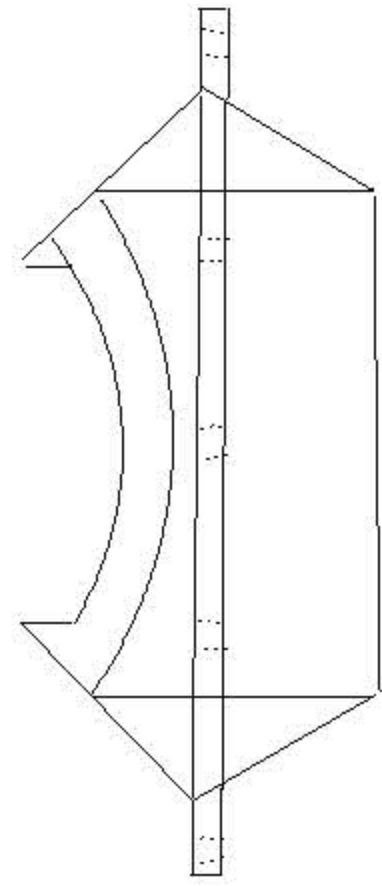
OIL PUMP SIGHT ALARM AND FILTERS

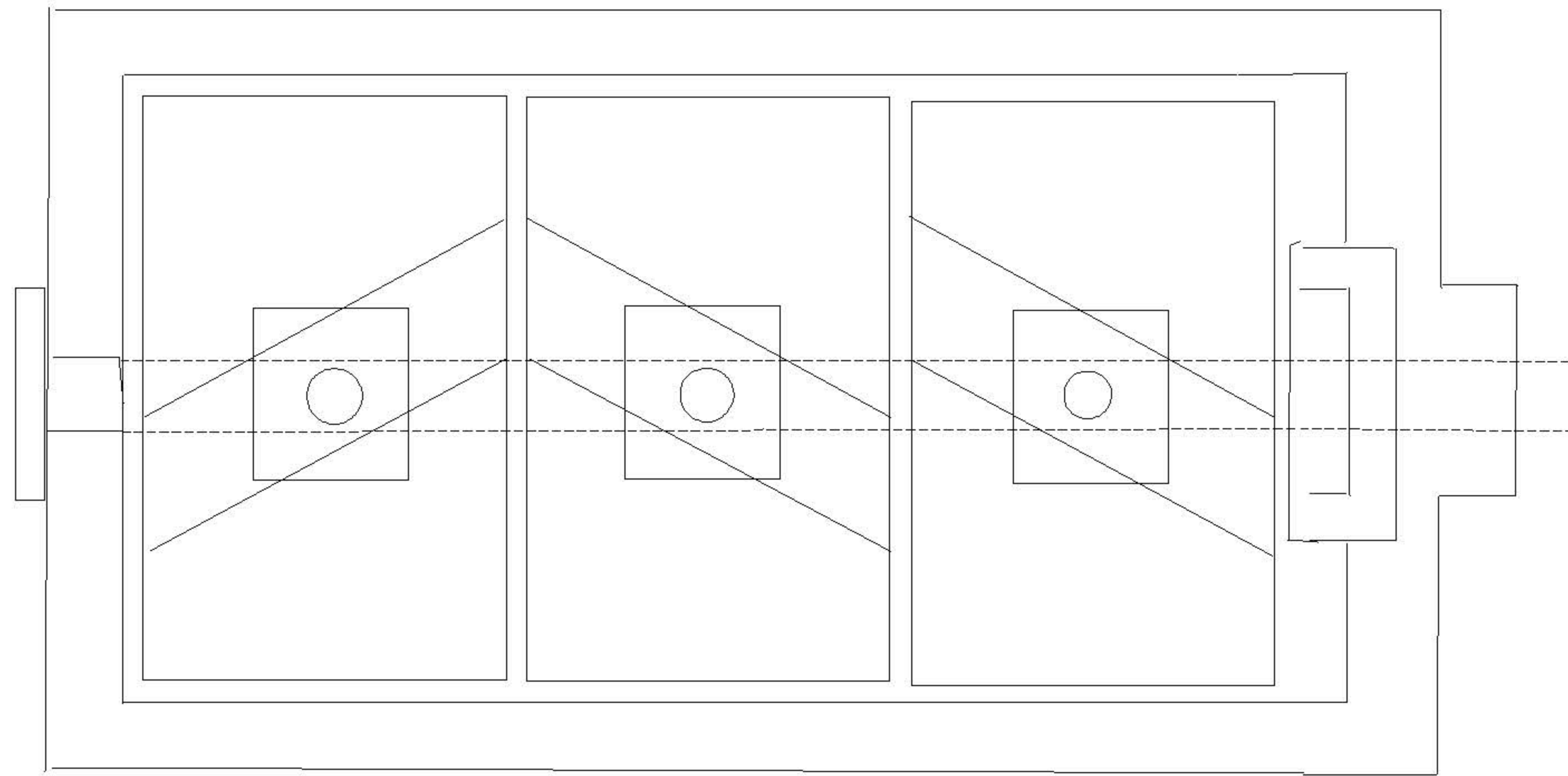
PRESSURE PLAT

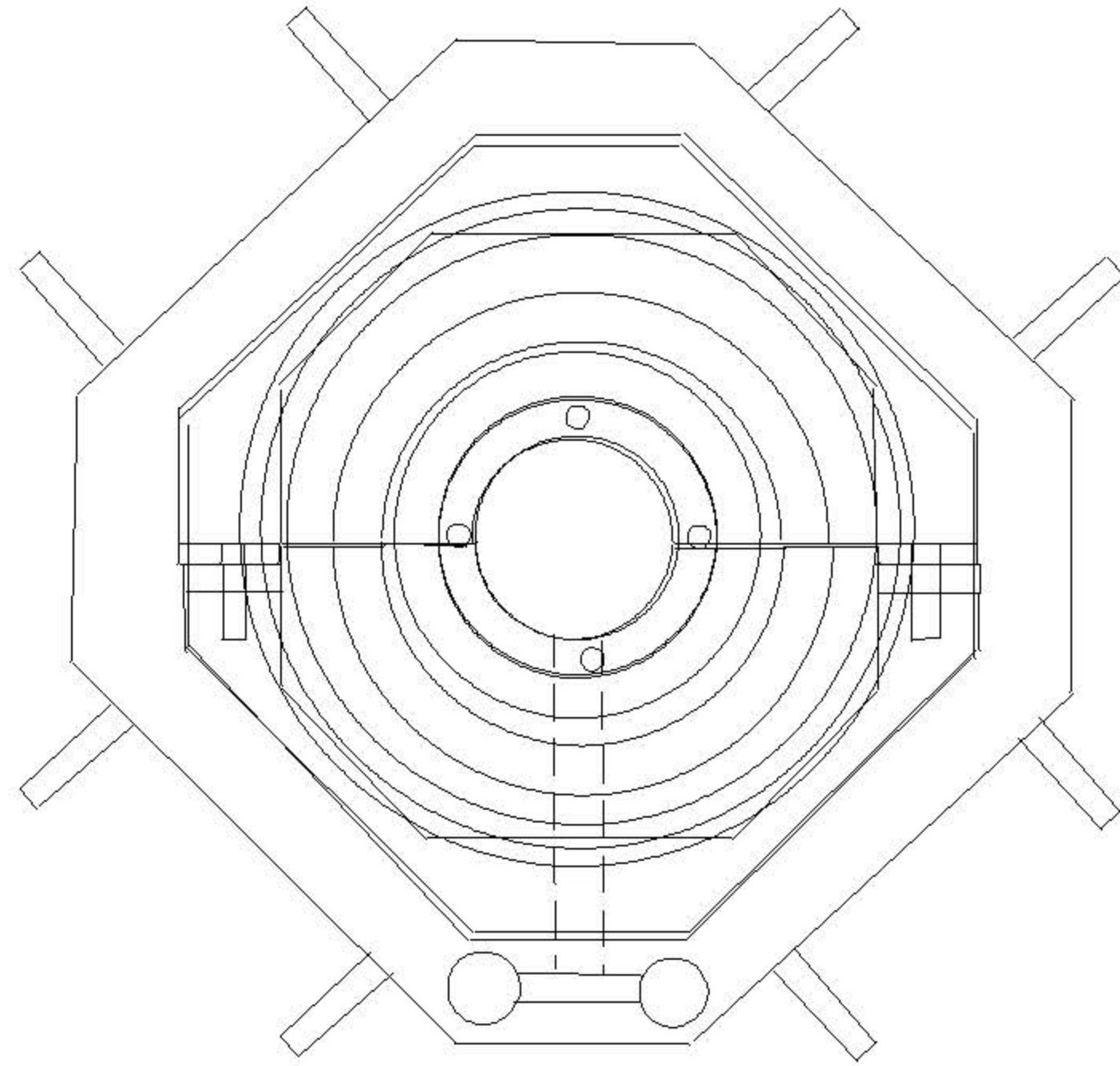
OIL SYSTEMS DIAGRAM

ADAM NUGENT ROSENBERGER. 1/30/2021

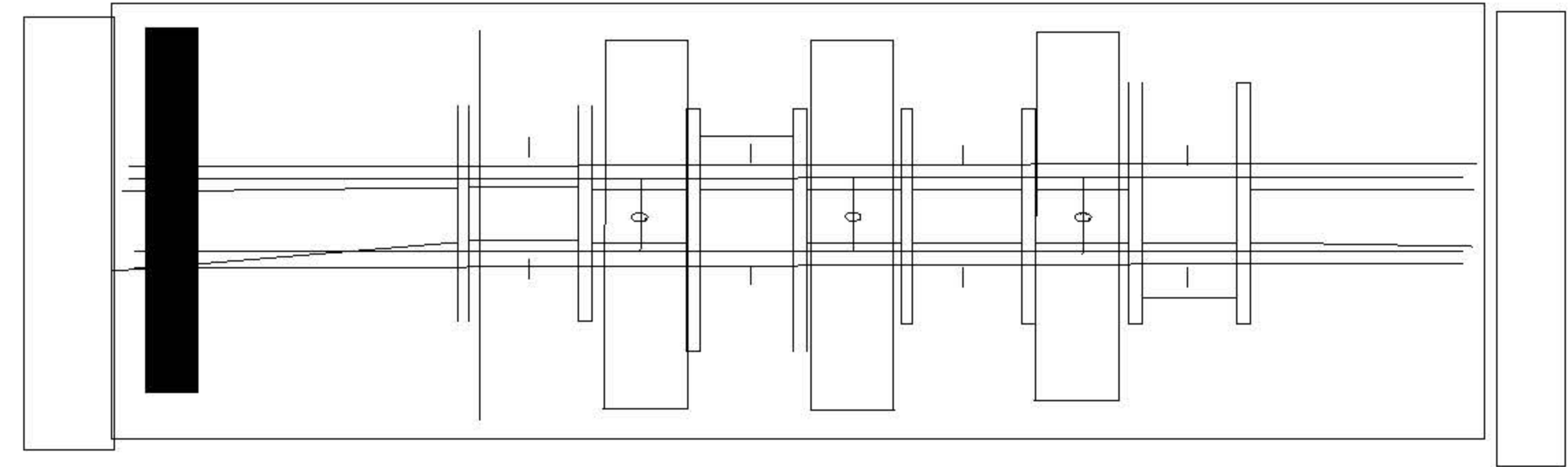




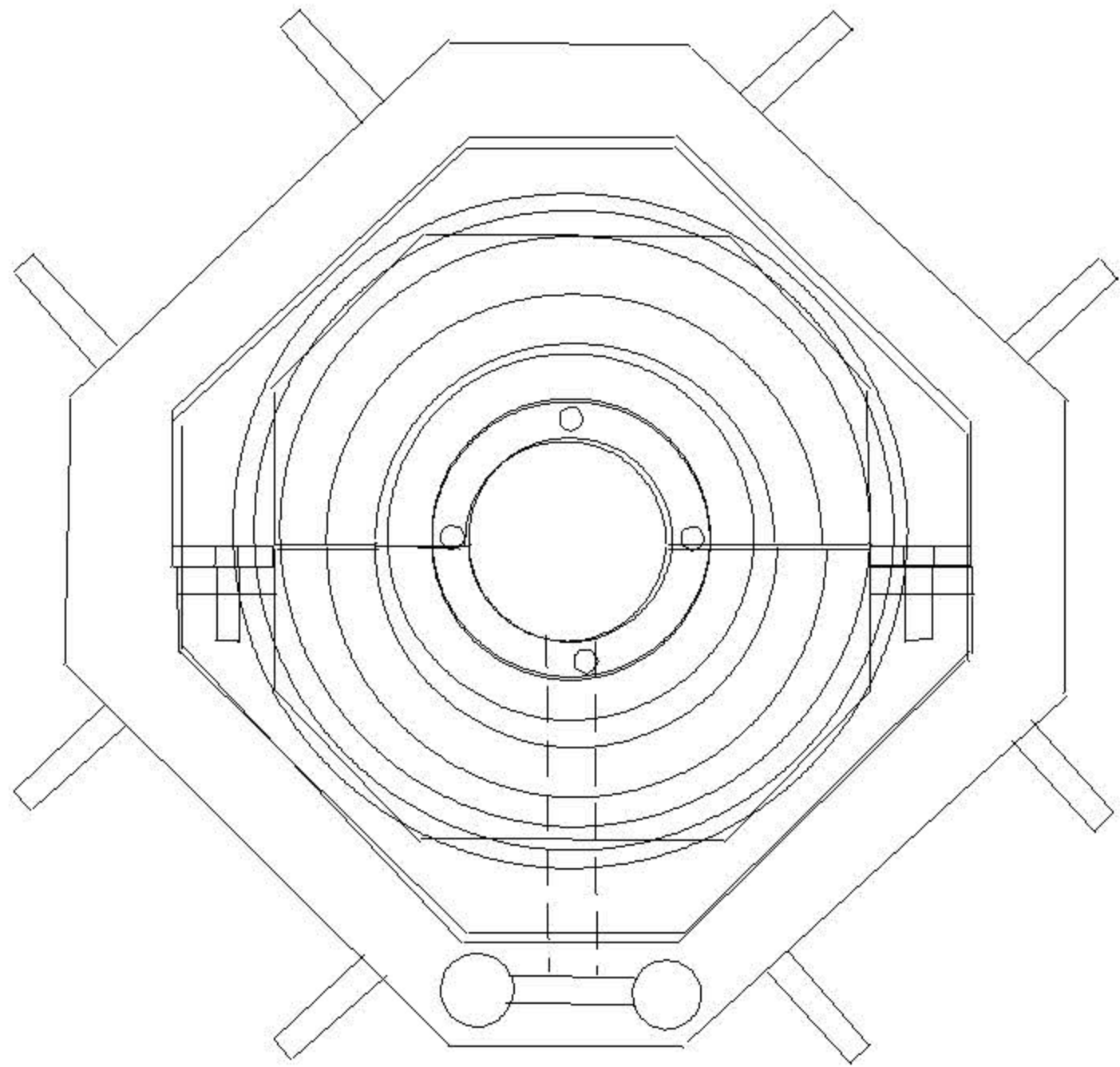




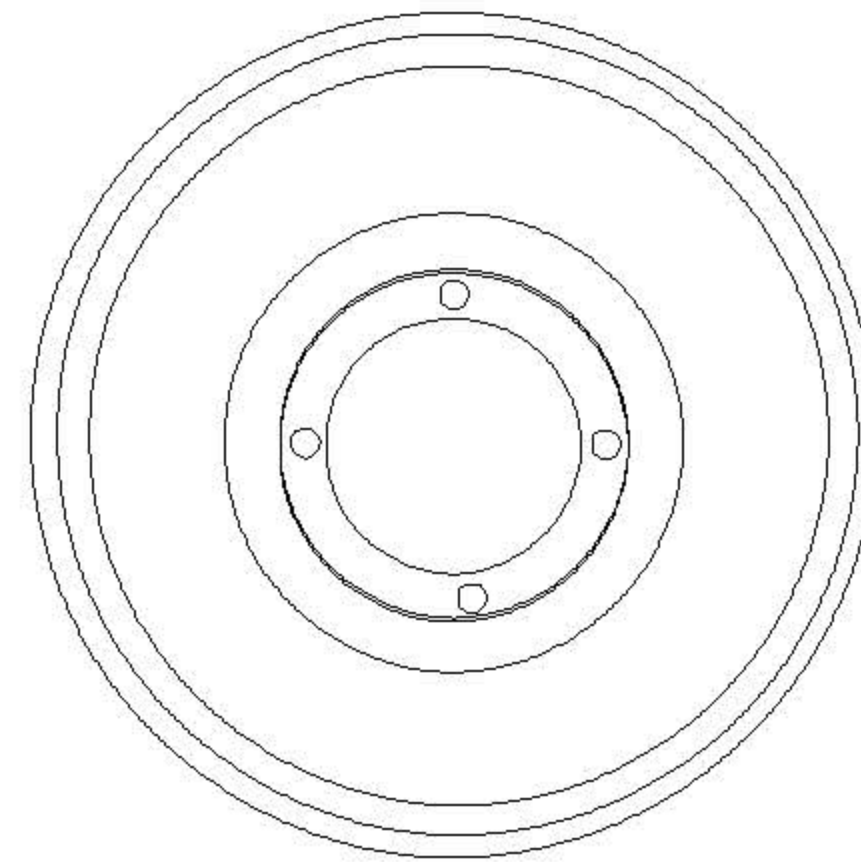
OIL THROWER MOTOR BLOCK FRONT



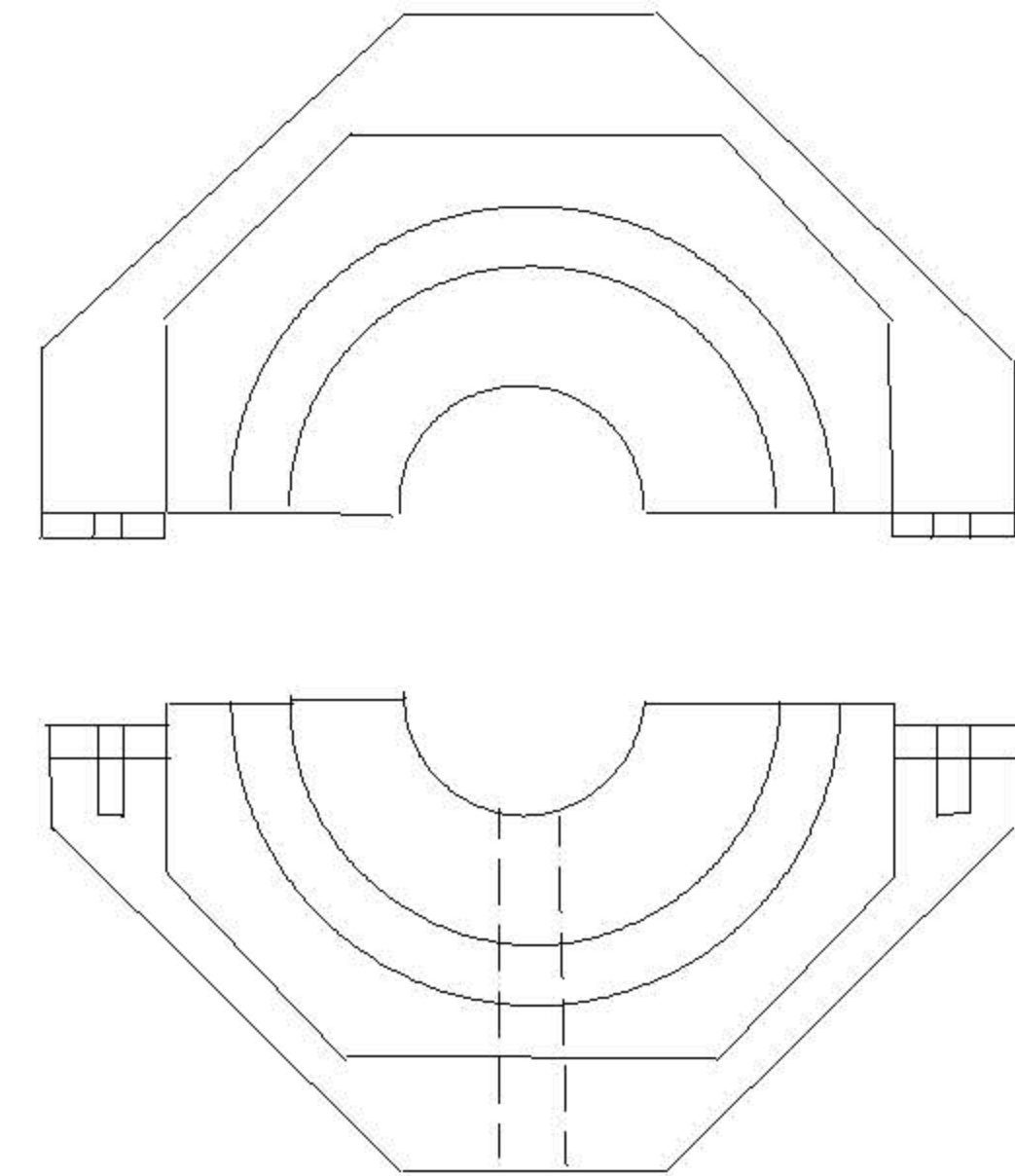
OVERHEAD SPAN OF OIL THROWER THROUGH CRANKSHAFT



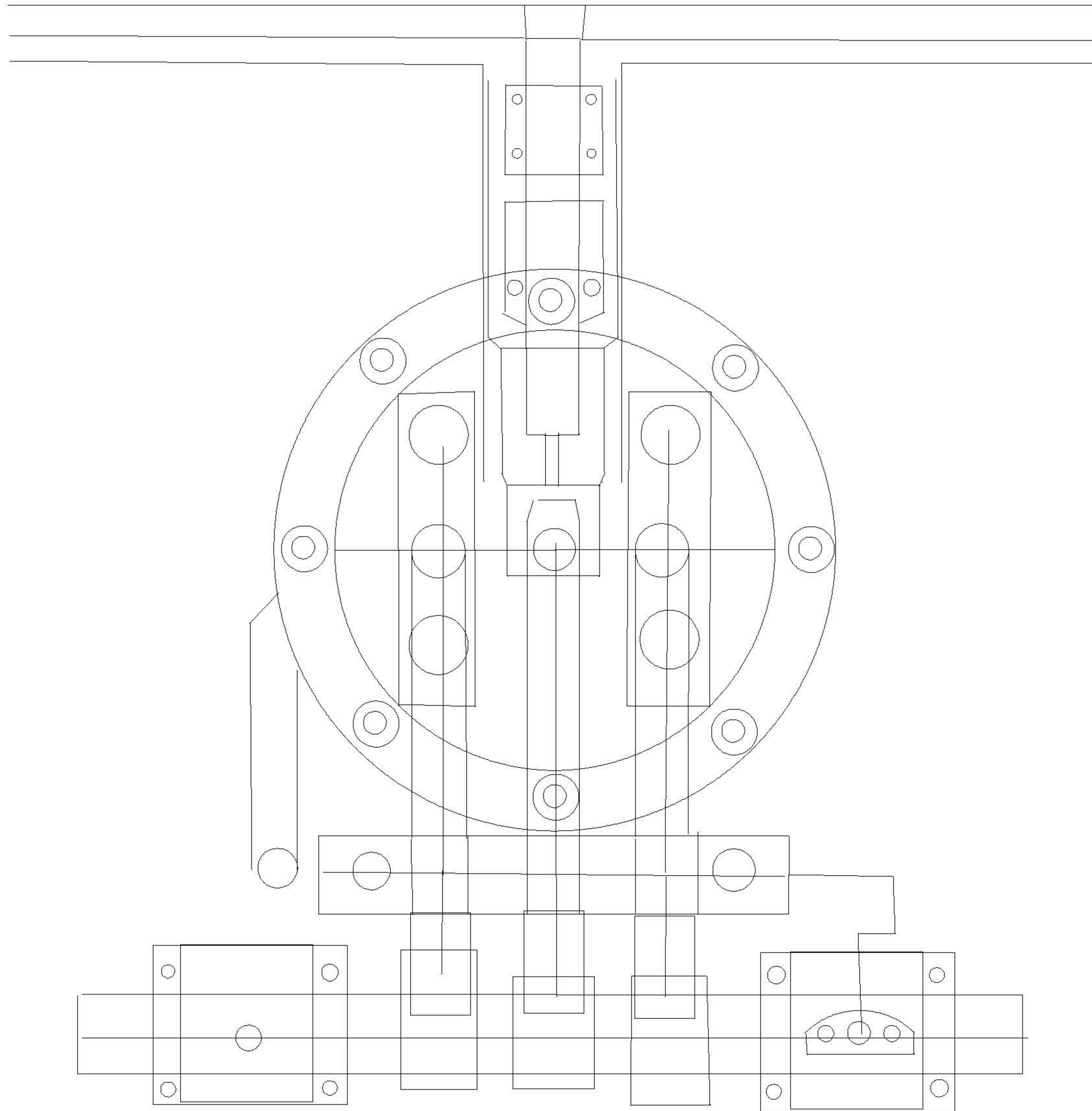
OIL THROWER MOTOR BLOCK BACK



FLYWHEELS QTY 2 ONE FRONT AND ONE BACK

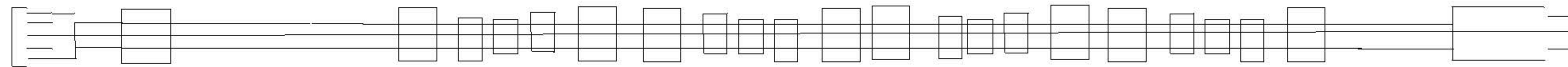
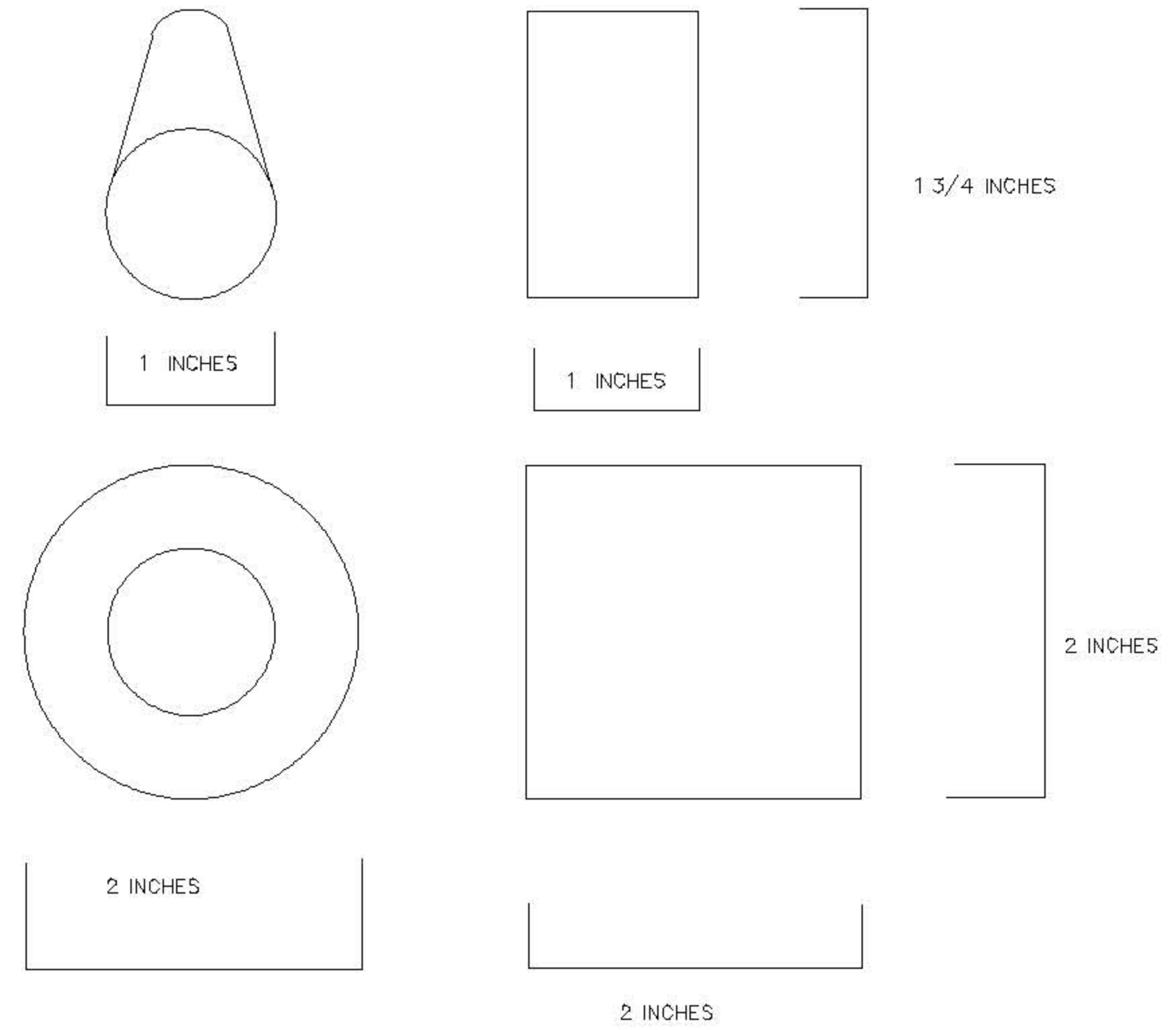
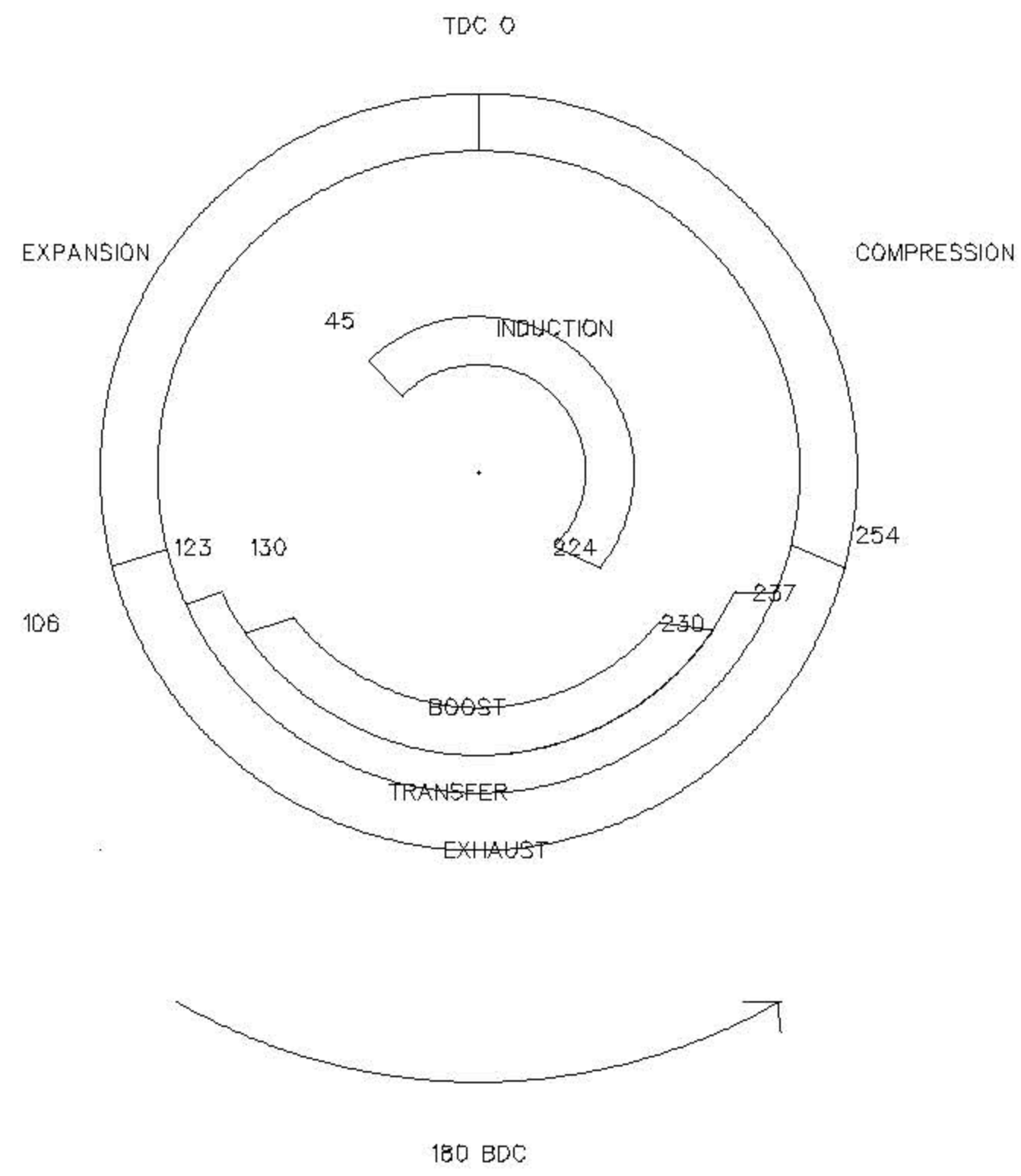


CRANKSHAFT JOURNAL BEARING PASSAGE

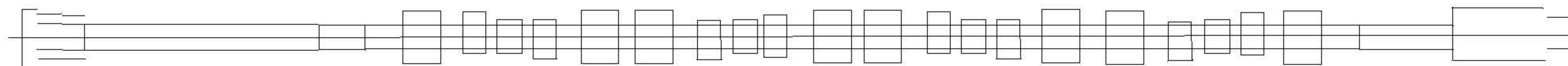


OVERHEAD CYLINDER WITH OIL JUMPER

ADAM NUGENT ROSENBERGER. NOV 20 2020



CAMSHAFT A QTY 1



CAMSHAFT B QTY 3

CAMSHAFT



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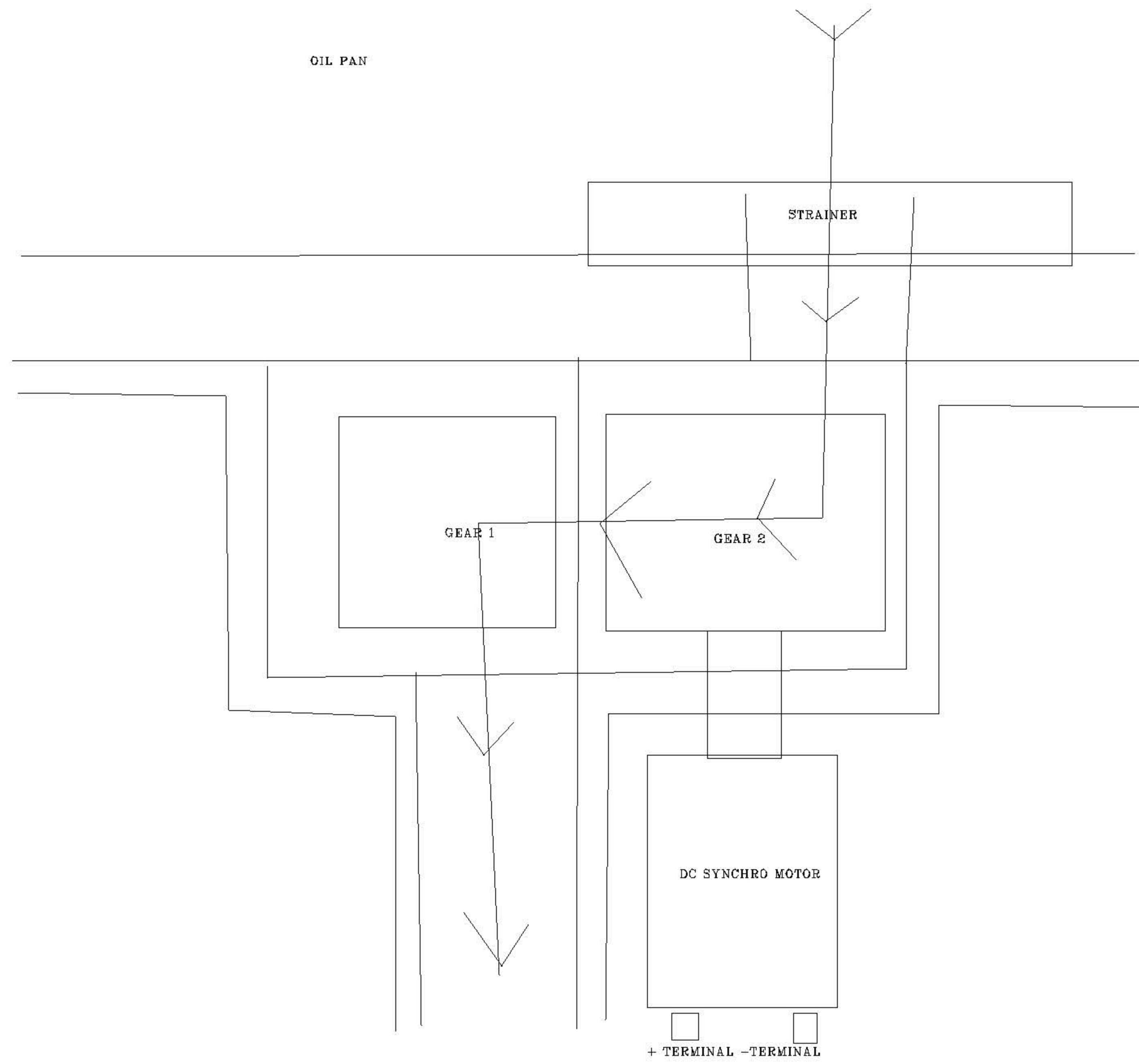
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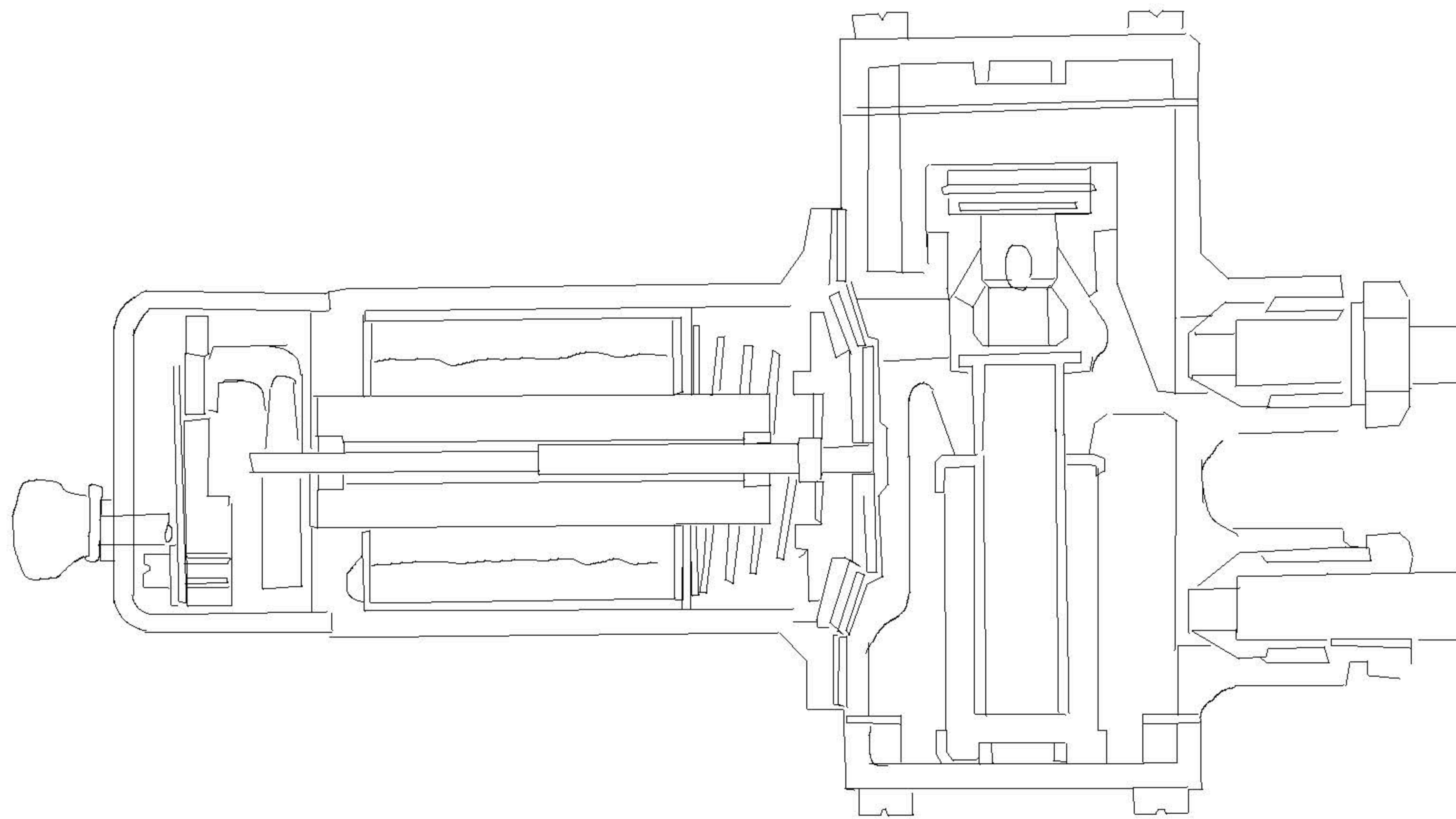
Name PUMP OIL,DIESEL ENGINE
INC G3285
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see OIL PUMP ASSEMBLY, ENGINE

Approved Item Name

Name OIL PUMP ASSEMBLY,ENGINE
INC [36330](#)
FIIG A526G0 (displayed for historical purposes only)
FIIG Title OIL PUMP ASSEMBLY, ENGINE
Condition Code 2
Applicability Key
Definition A device designed to maintain oil pressure within the moving parts of an internal combustion engine. May contain parts such as shaft, gears, pin, bushing, screen, adjusting screw and the like.

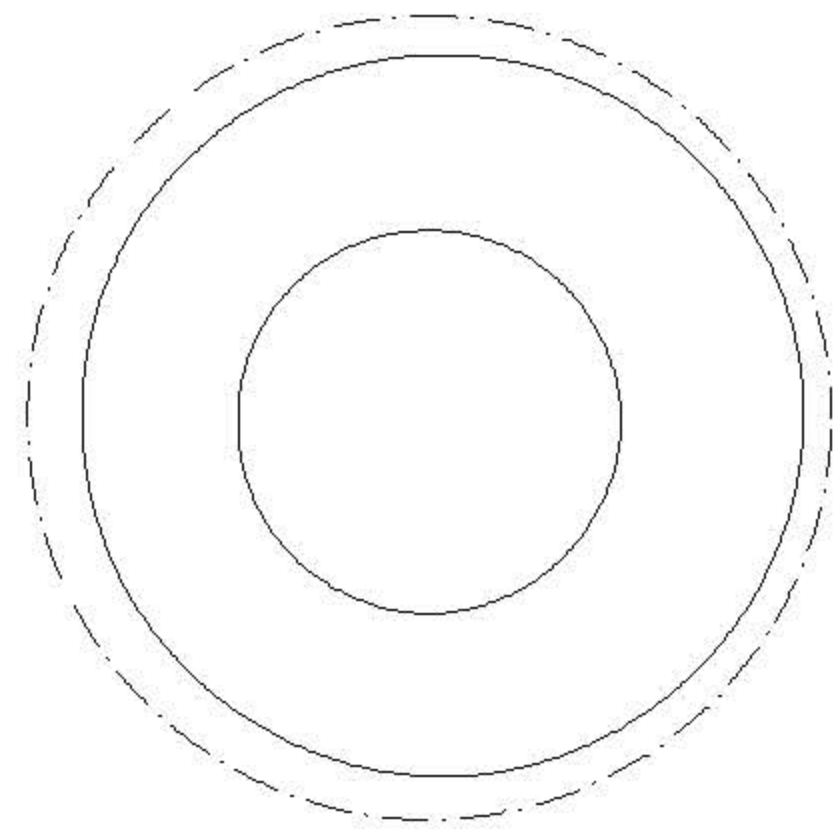
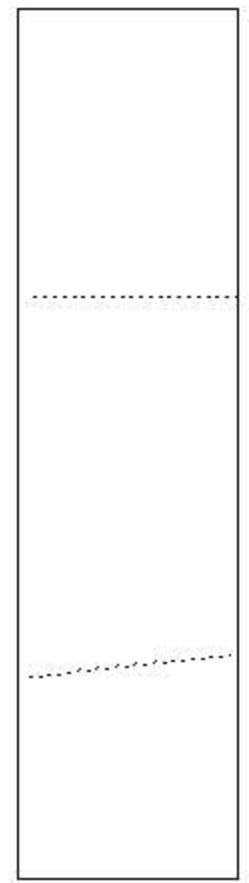
FSC	Name
2805	Gasoline Reciprocating Engines, Except Aircraft; and Components
2810	Gasoline Reciprocating Engines, Aircraft Prime Mover; and Components
2815	Diesel Engines and Components
2990	Miscellaneous Engine Accessories, Nonaircraft
2995	Miscellaneous Engine Accessories, Aircraft
5 FSC(s) found.	



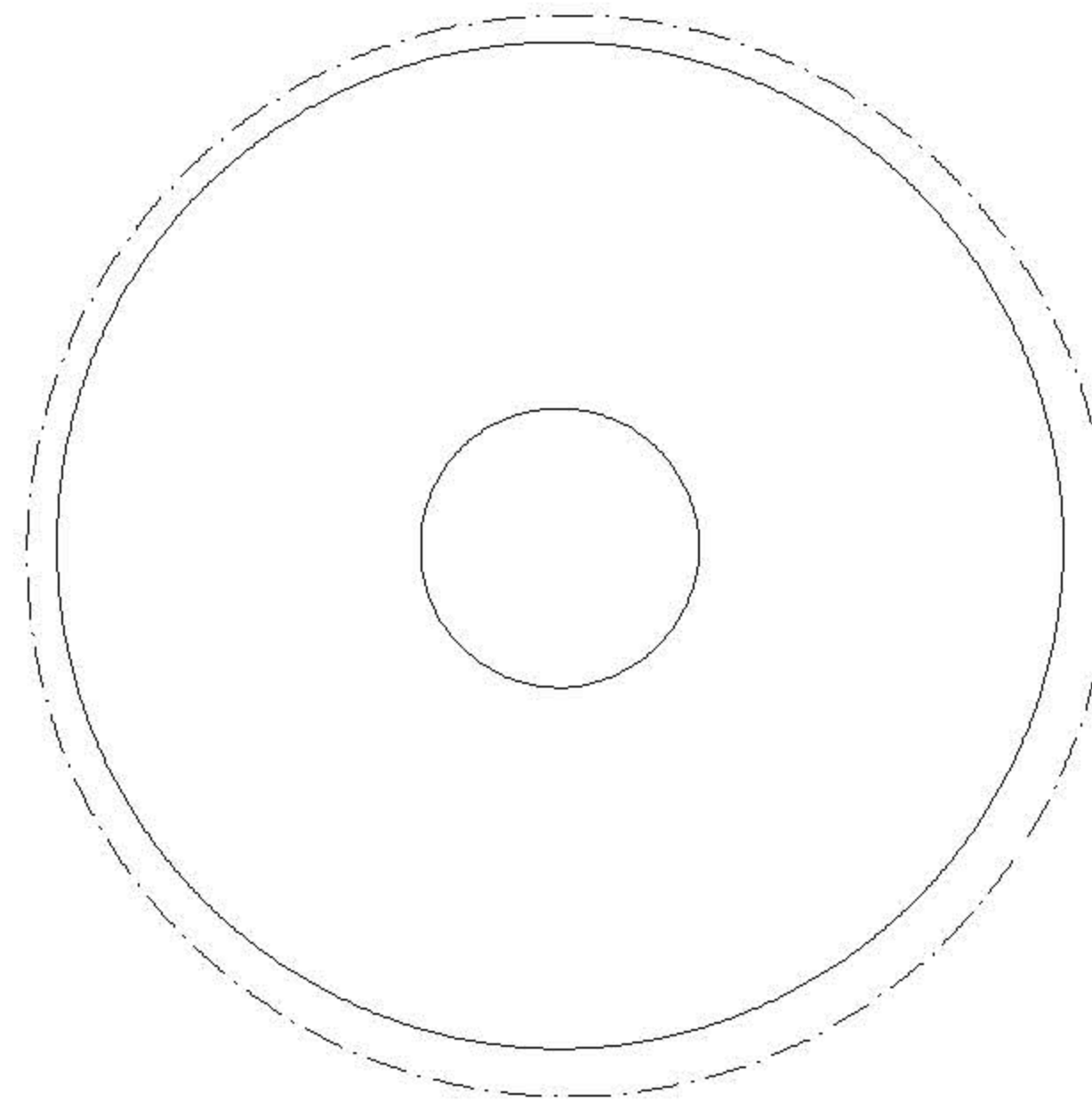


OIL PUMP A2

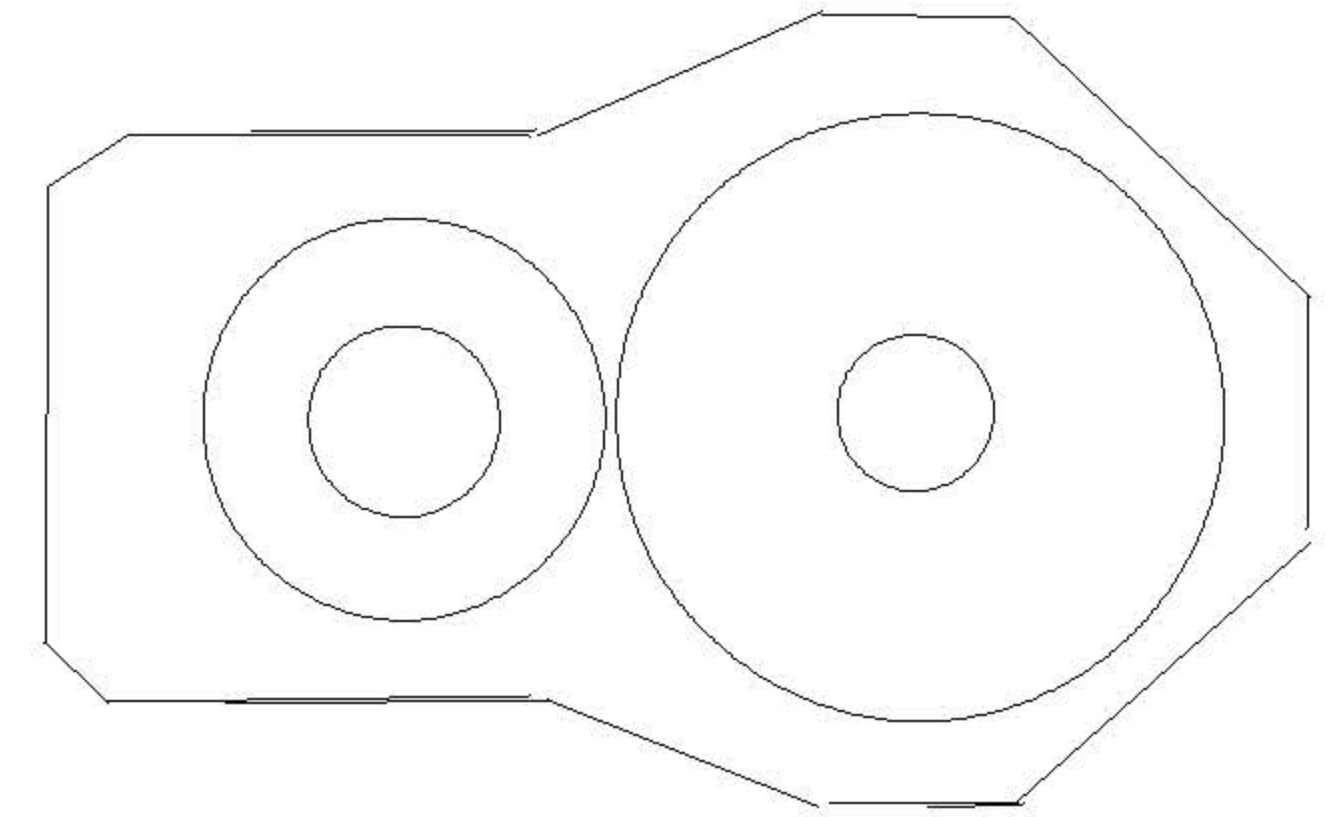
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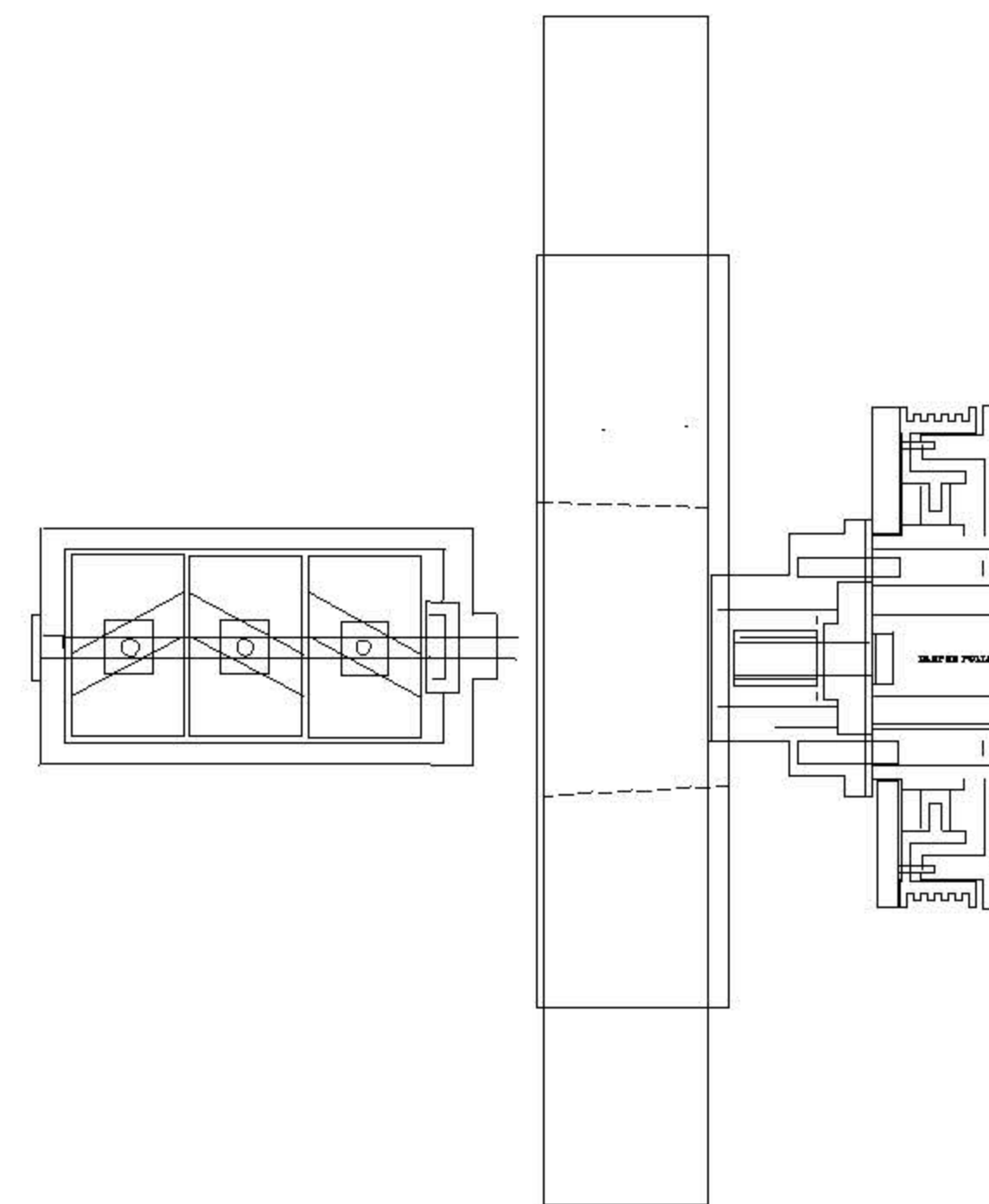
SCAVENGER WHEEL/GEAR



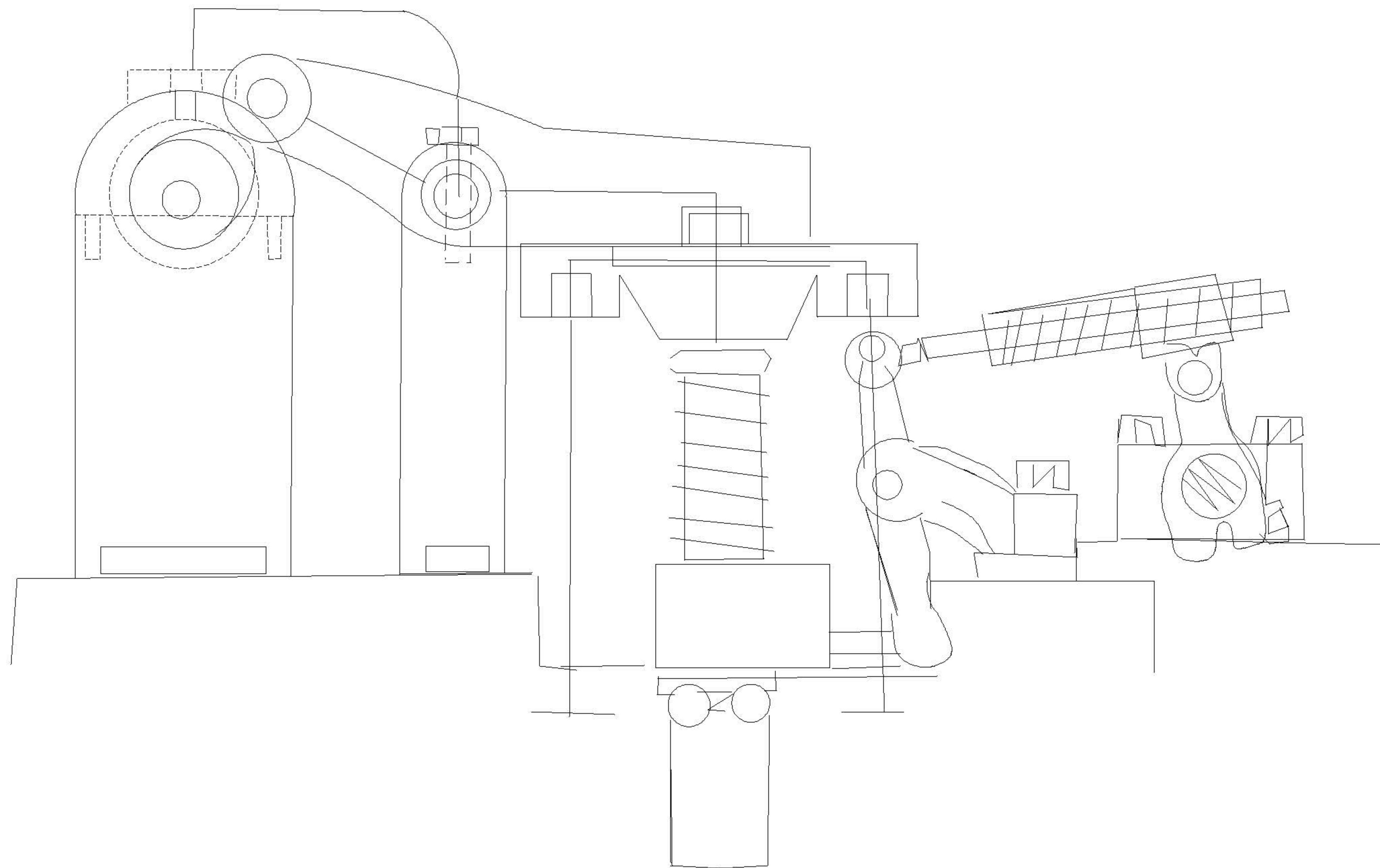
FLYWHEEL



SCAVENGER OIL PUMP HOUSING

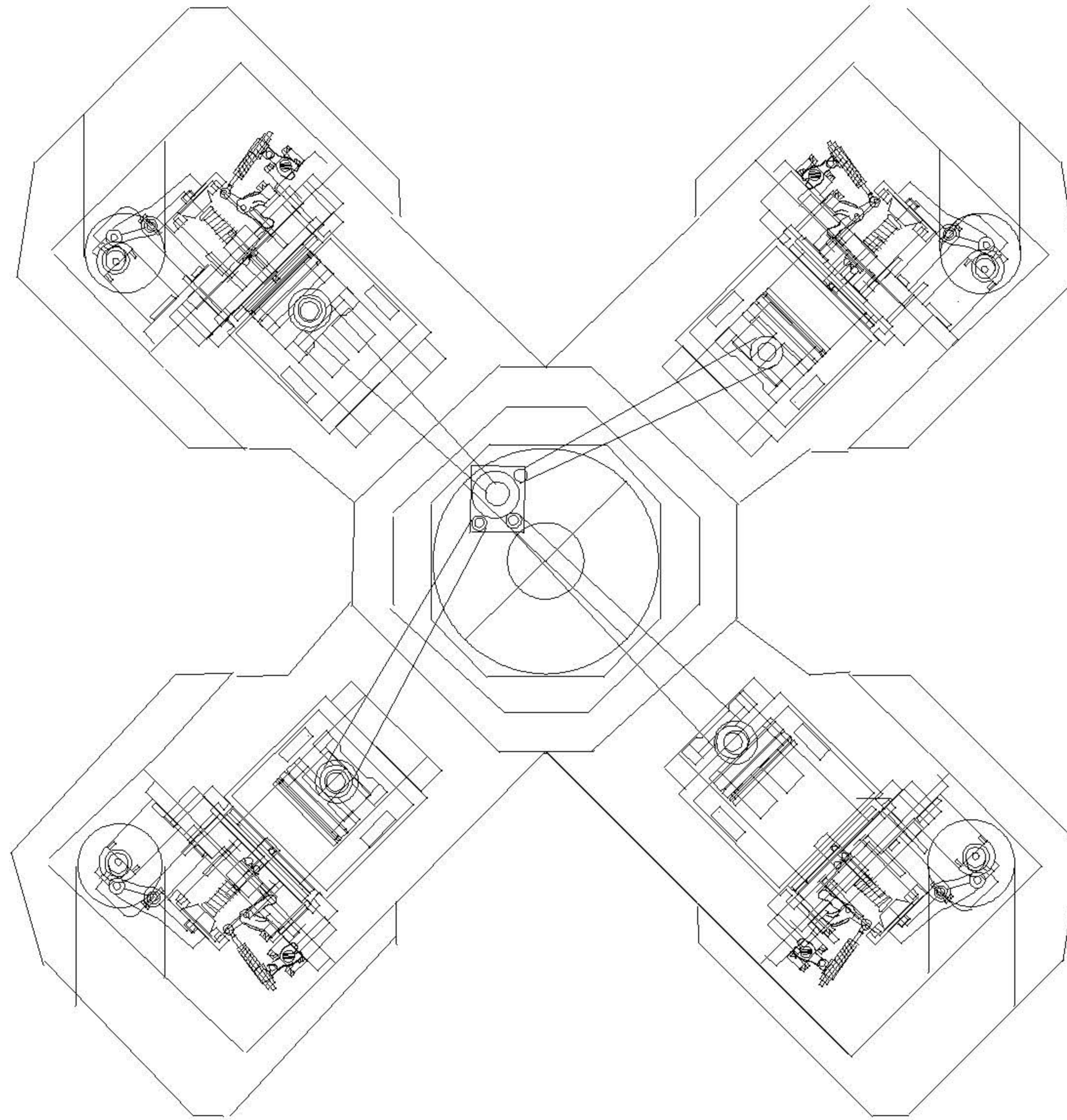


SCAVENGER OIL PUMP SIDE VIEW



SIDEVIEW WITH OIL JUMPER

ADAM NUGENT ROSENBERGER. NOV 20 2020





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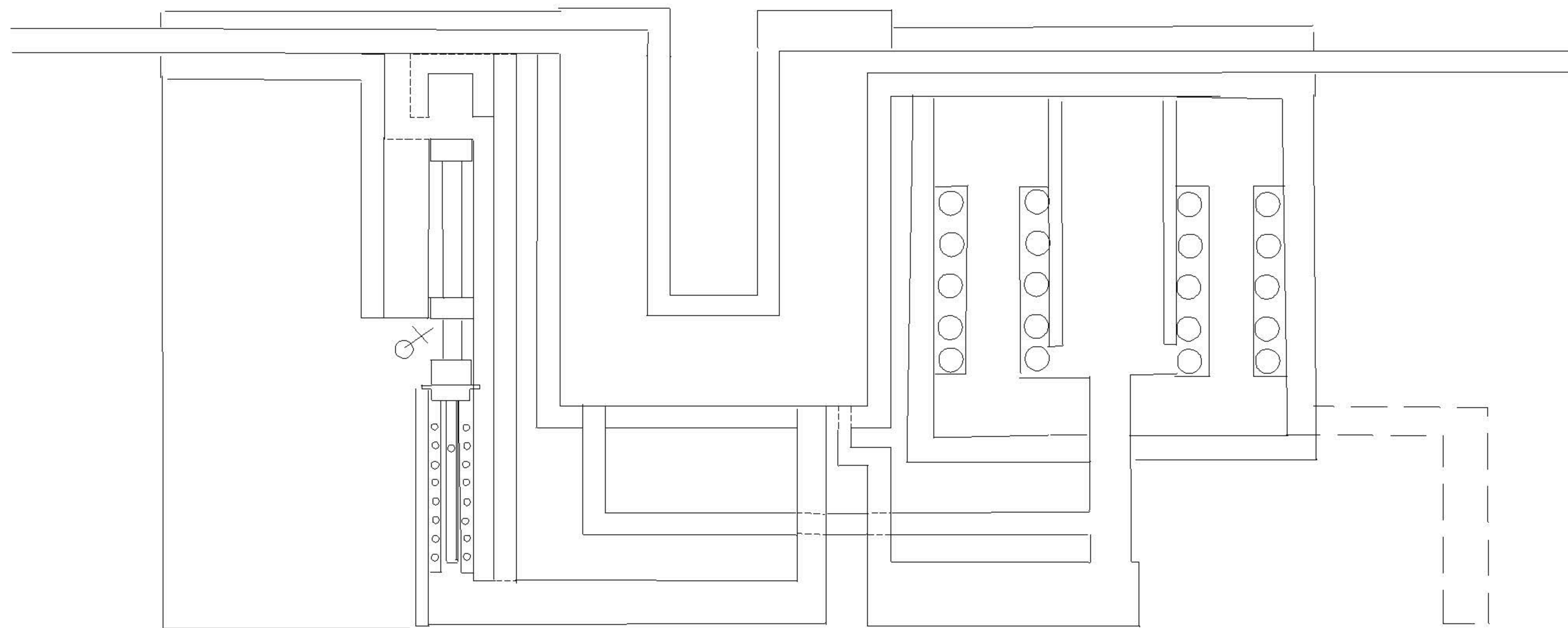
Colloquial Name

Name DIESEL OIL PURIFIER
INC H3912
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see PURIFIER, CENTRIFUGAL, OIL

Approved Item Name

Name PURIFIER,CENTRIFUGAL,OIL
INC [04359](#)
FIIG T384-C (displayed for historical purposes only)
FIIG Title
Condition Code 2
Applicability Key CA (displayed for historical purposes only)
Definition A mechanical device containing a cylindrical vessel or bowl which rotates on its axis at a high rate of speed. Contaminated oil is injected under pressure and by means of centrifugal force the harmful solids, insoluble sludge and water are removed.

FSC	Name
2815	Diesel Engines and Components
4330	Centrifugals, Separators, and Pressure and Vacuum Filters
4930	Lubrication and Fuel Dispensing Equipment
3 FSC(s) found.	





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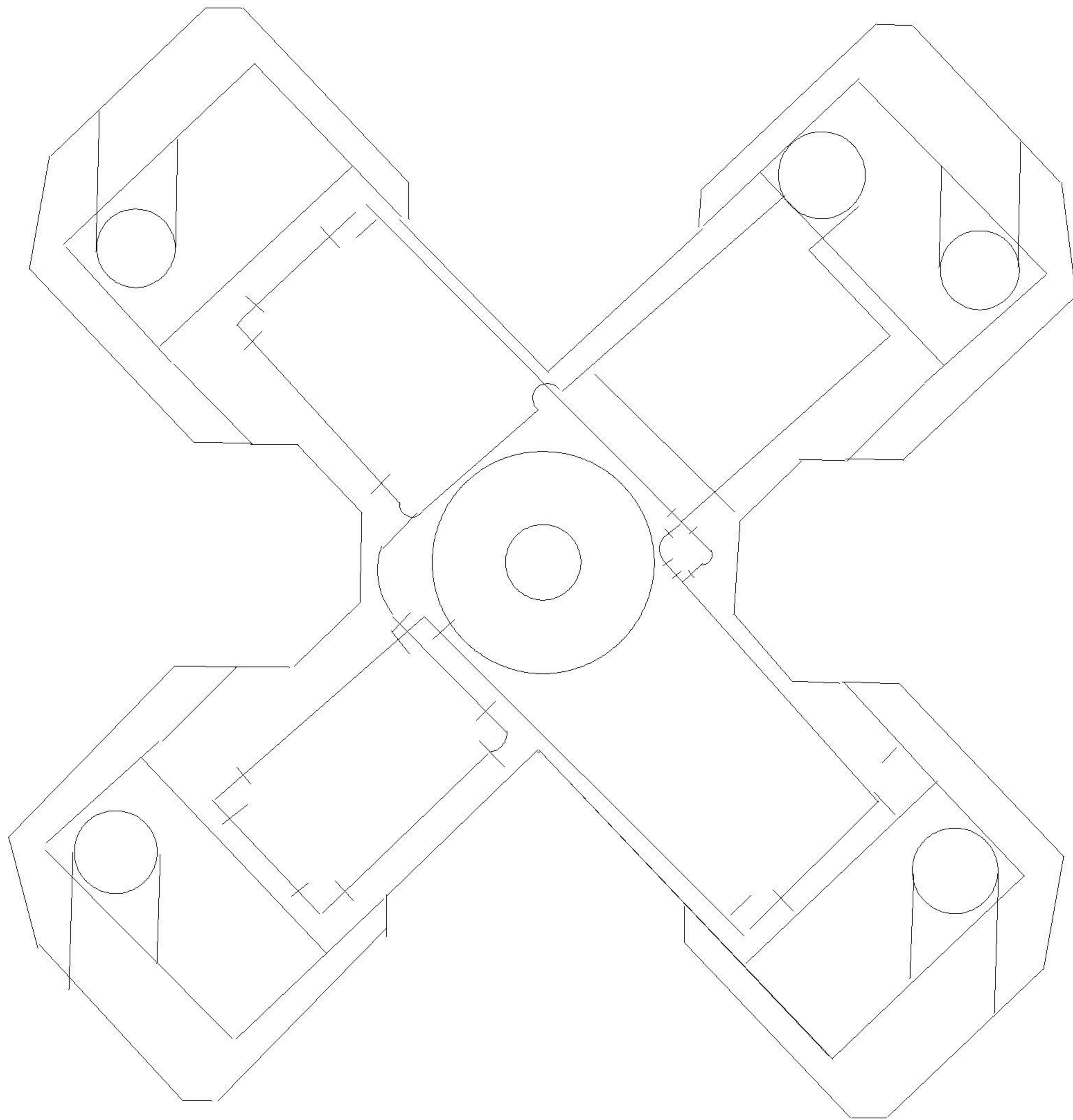
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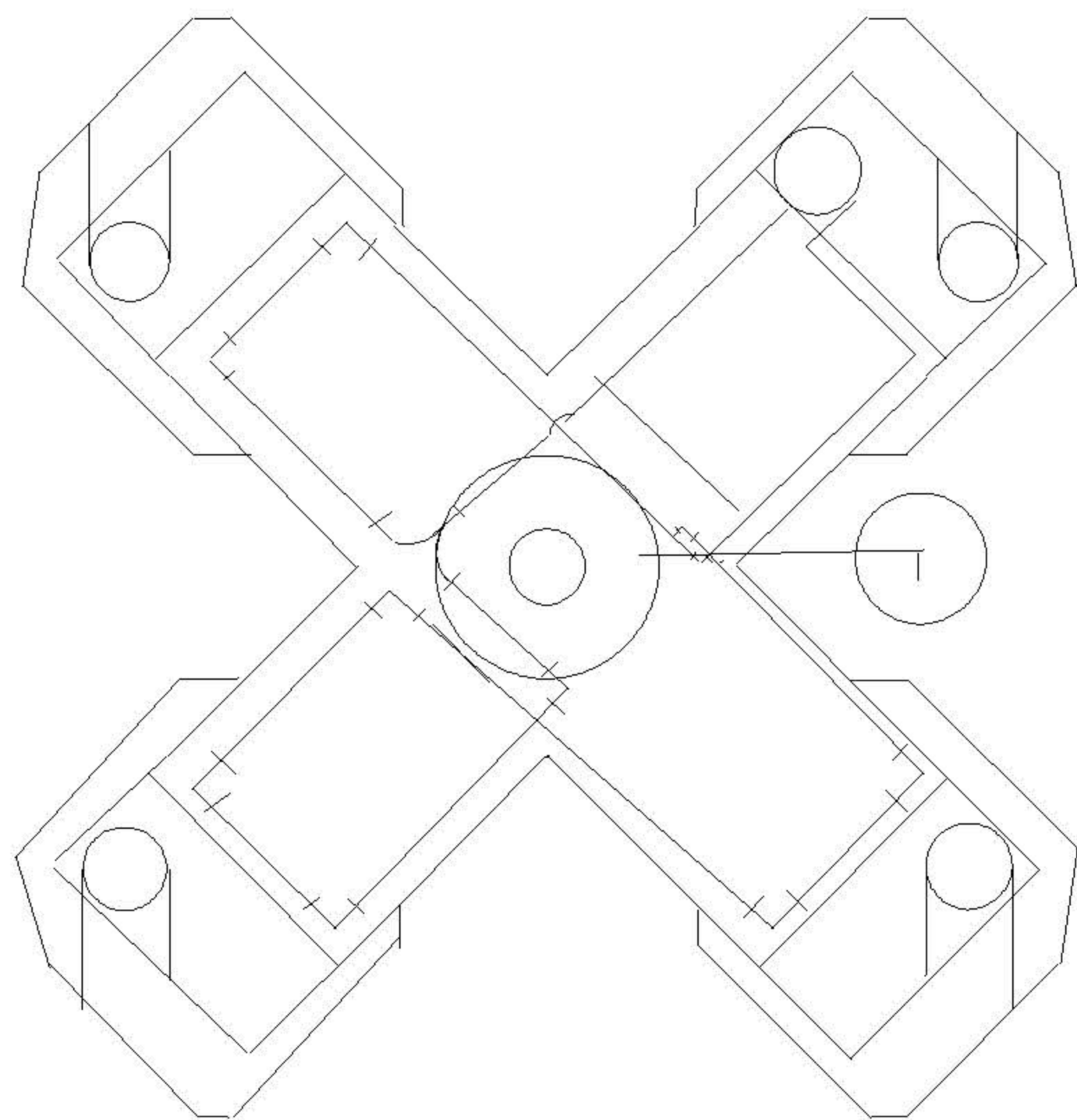
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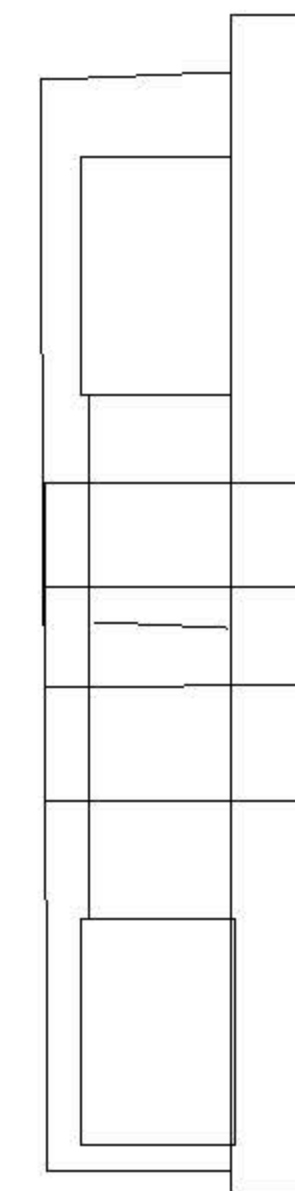
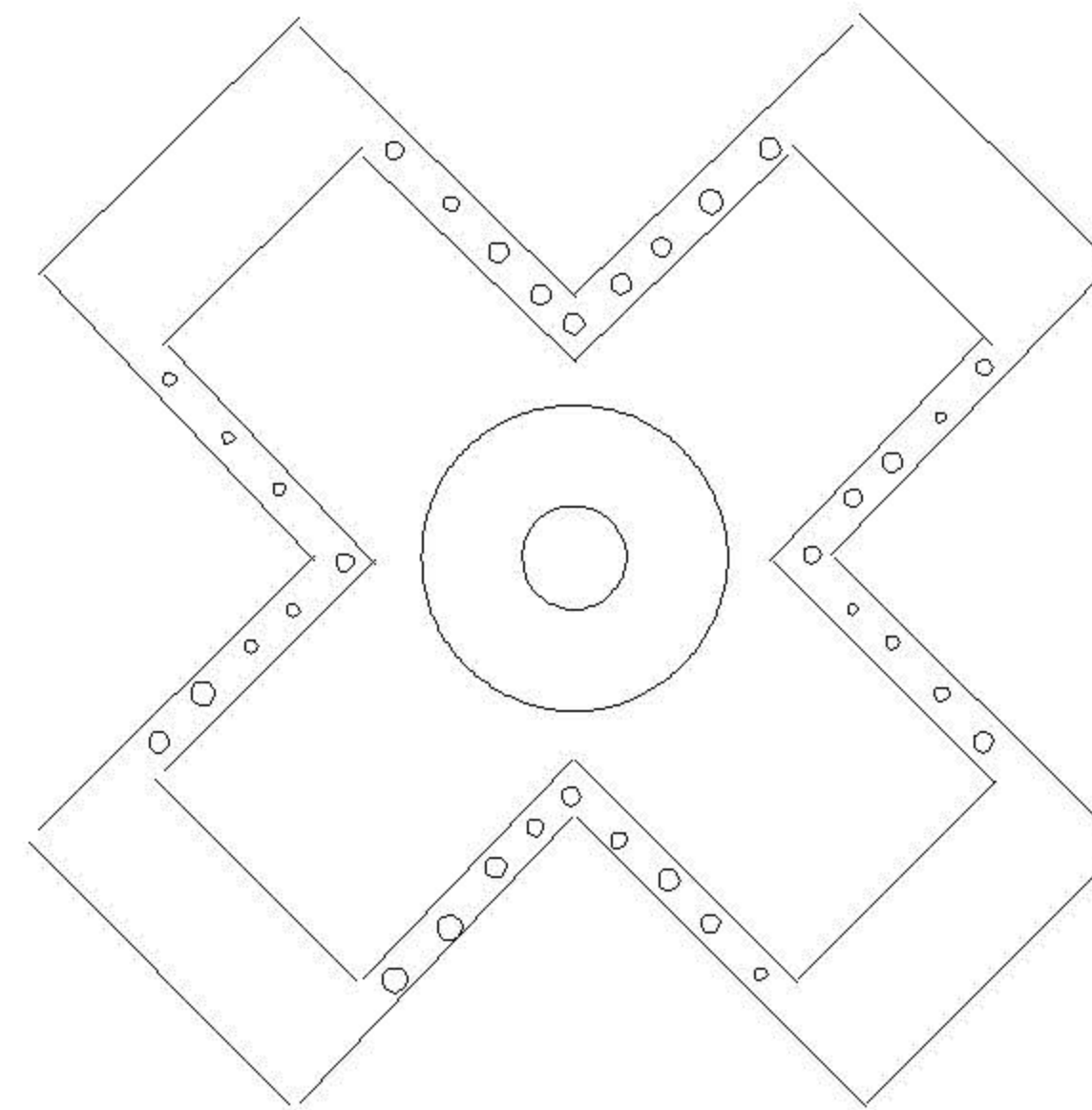
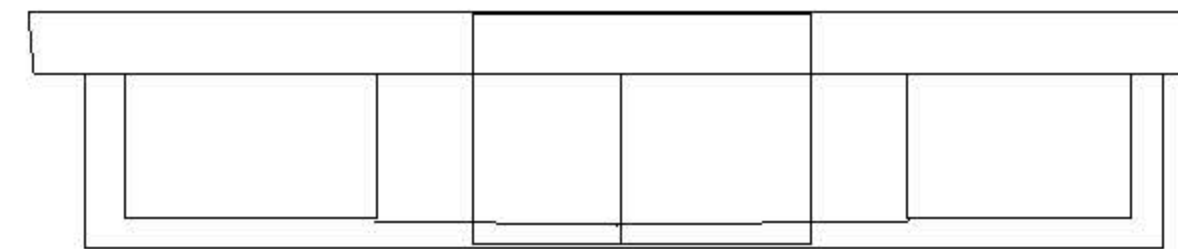
Name	GUARD,DIESEL ENGINE
INC	51293
FIIG	A520E0 (displayed for historical purposes only)
FIIG Title	GUARDS
Condition Code	1
Applicability Key	
Definition	A metal cover of different shapes and dimensions used to protect uncovered parts of a diesel engine.

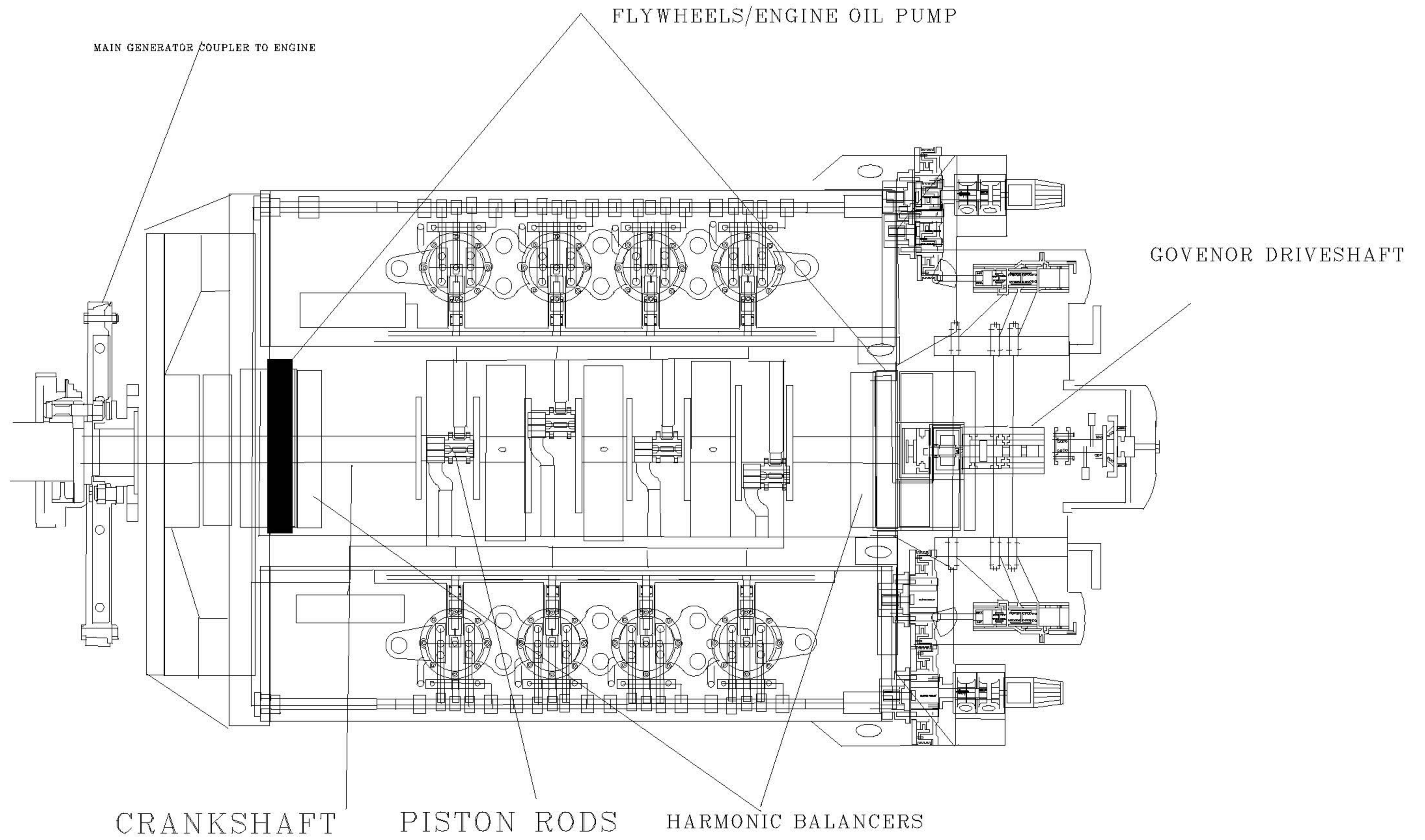
FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	

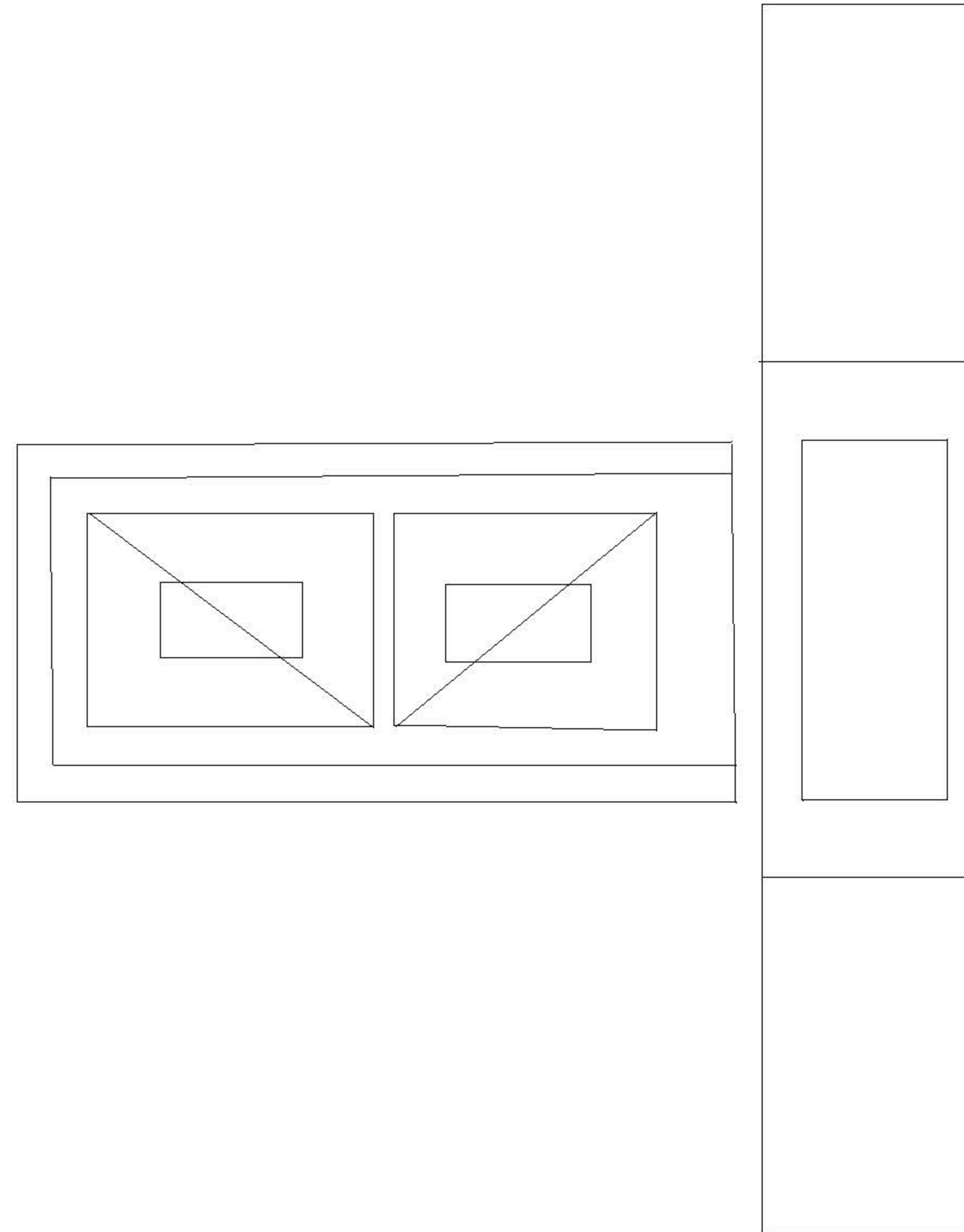




OIL LINE

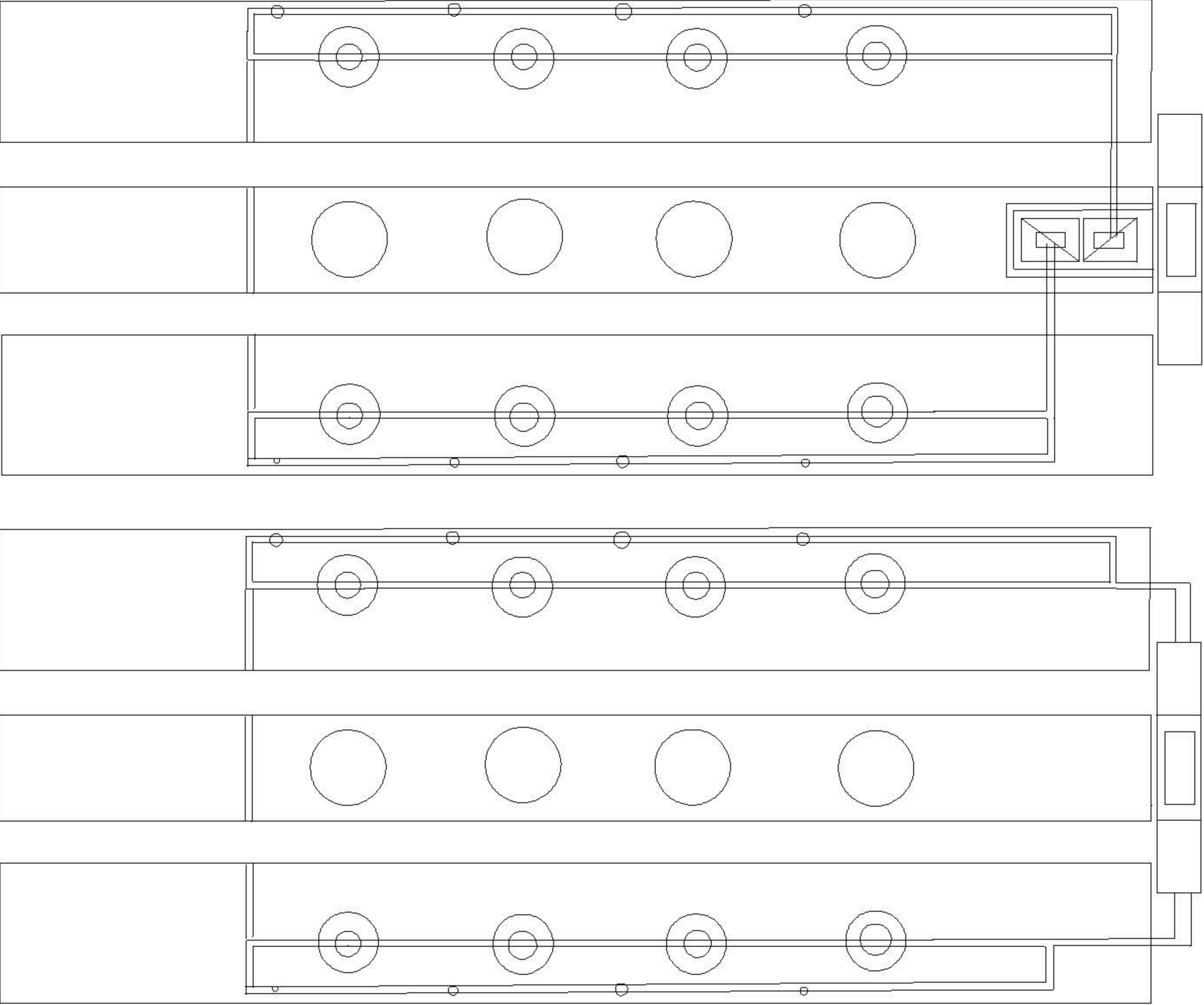




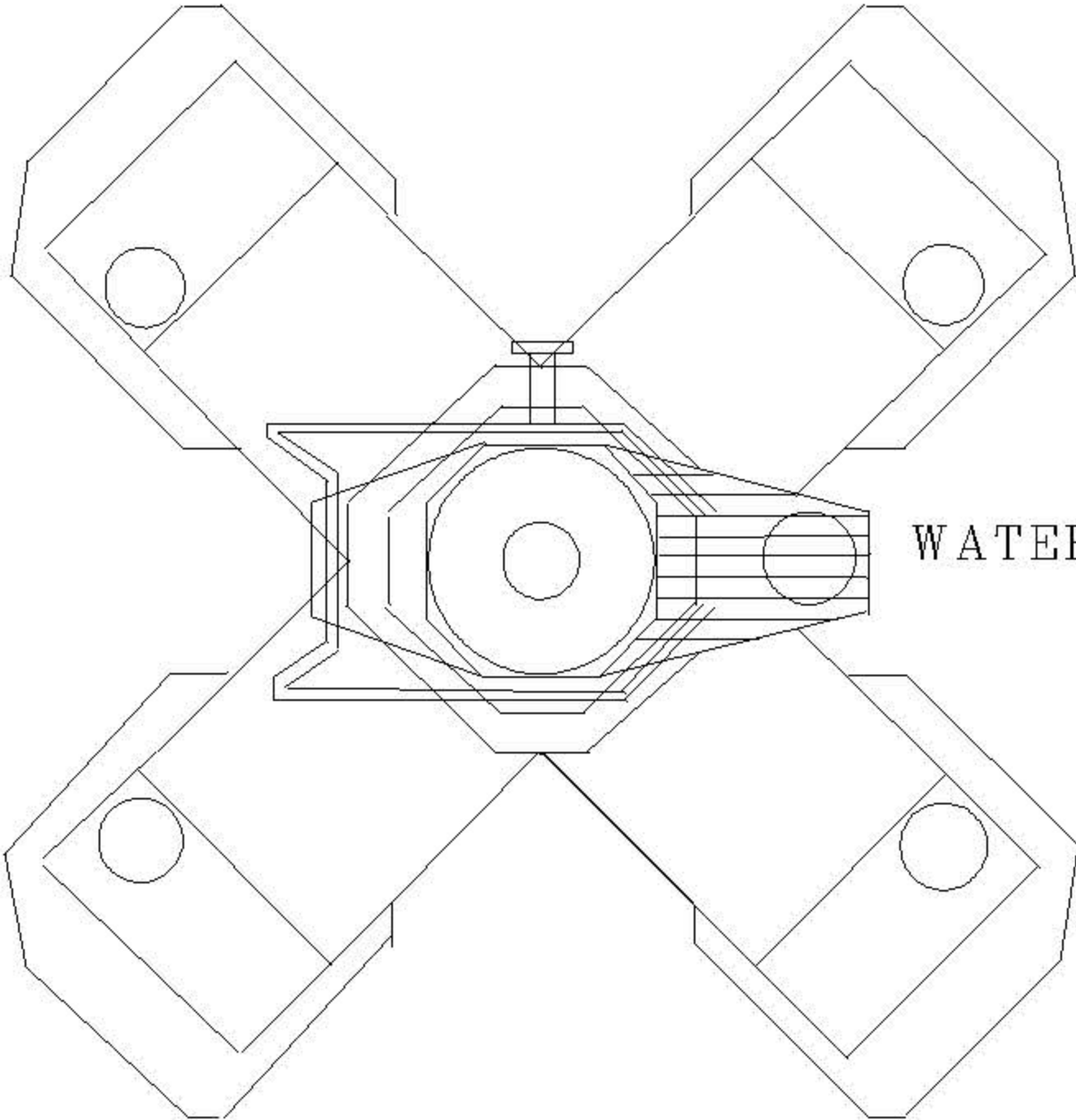


WATER PUMP

RIGHT BANK WATER DIAGRAM



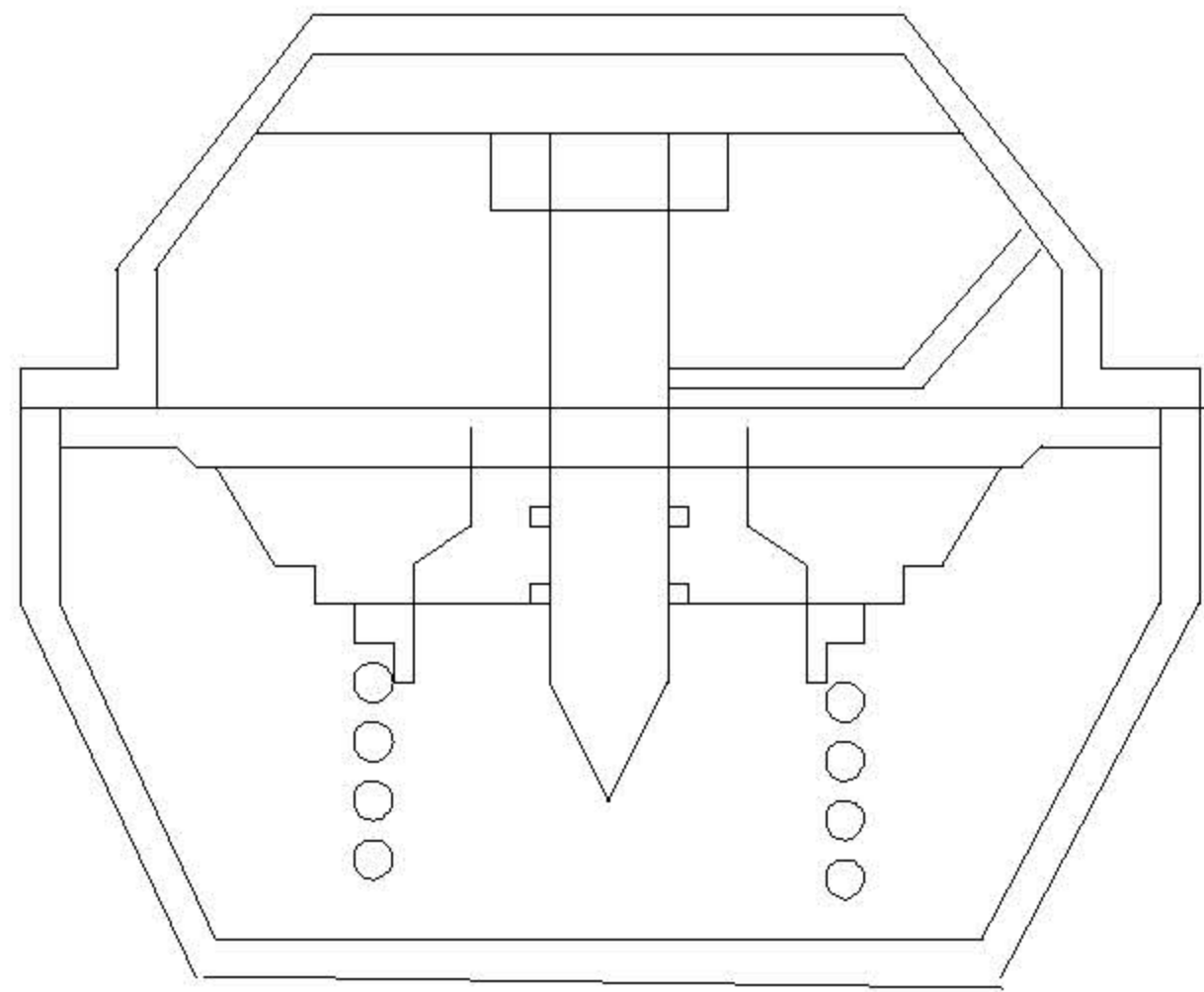
WATER PUMP



WATER PUMP

LEFT BANK WATER DIAGRAM

WATER FLOW DIAGRAM



THERMOSTAT



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Colloquial Name

Name WATER PUMP,DIESEL ENGINE
INC G3945
FIIG
FIIG Title
Condition Code
Applicability Key
Definition see PUMP, COOLING SYSTEM, ENGINE

Approved Item Name

Name PUMP,COOLING SYSTEM,ENGINE
INC [35988](#)
FIIG A503Y0 (displayed for historical purposes only)
FIIG Title PUMP, COOLING SYSTEM, ENGINE
Condition Code 1
Applicability Key
Definition A power driven item specifically designed to circulate water mixed with antifreeze and the like through the block and radiator for cooling. May include items such as pulley; coupling; gear and the like. Excludes PUMP (as modified).

FSC	Name
2930	Engine Cooling System Components, Nonaircraft
1 FSC(s) found.	



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Approved Item Name

Name	TANK,COOLANT FLUID,DIESEL ENGINE
INC	51244
FIIG	A23900 (displayed for historical purposes only)
FIIG Title	MISCELLANEOUS ITEMS
Condition Code	1
Applicability Key	A (displayed for historical purposes only)
Definition	An item which contains liquid coolant to lower the temperature of a diesel engine.

FSC	Name
2815	Diesel Engines and Components
1 FSC(s) found.	