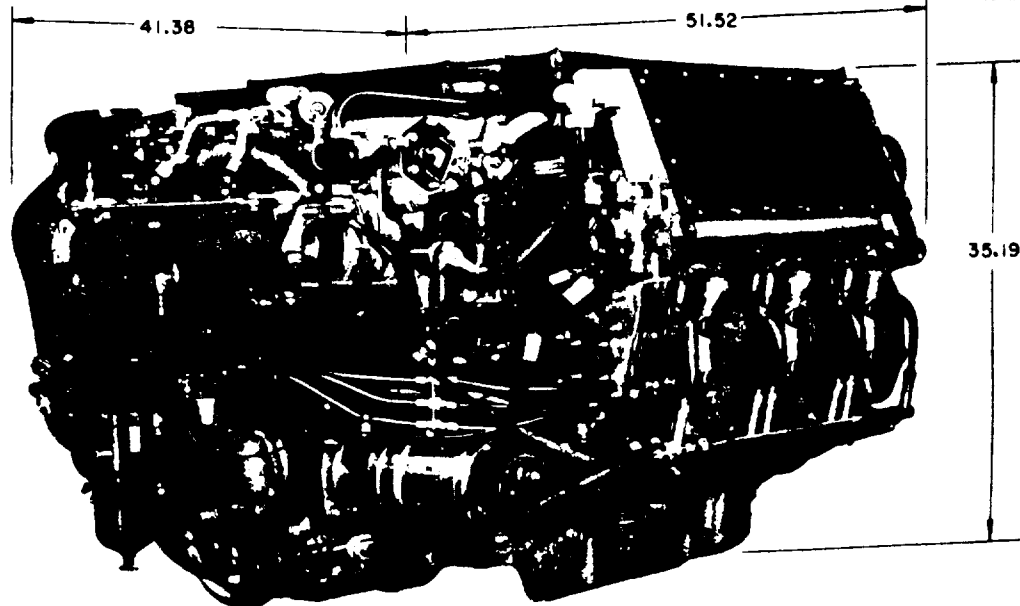


REVIEW ACTIVITIES: AF-82.85; DSA-CS
USER ACTIVITIES: ARMY-AV; NAVY-MC

This military standard has been approved by the Department of Defense and is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.



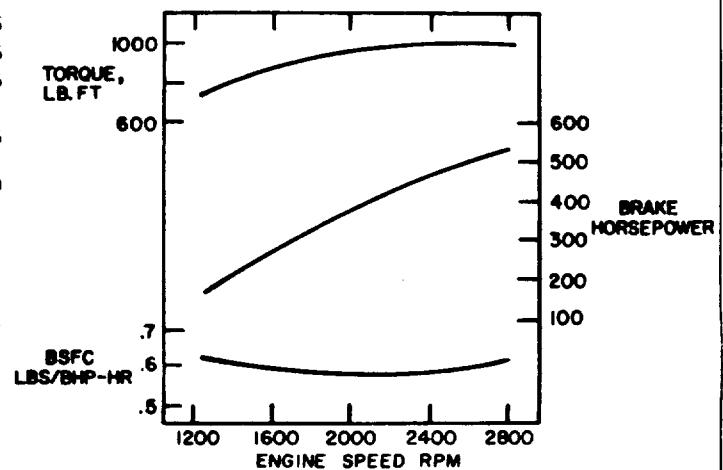
FED. SUP CLASS
2805

ENGINE CHARACTERISTICS:

| | |
|--|--------------|
| NUMBER OF CYLINDERS | 6 |
| BORE AND STROKE, INCHES | 5.75x5.75 |
| DISPLACEMENT, CUBIC INCHES | 895 |
| COMPRESSION RATIO | 5.5:1 |
| TORQUE, MAX. LB FT AT 2000 RPM AT FLYWHEEL STANDARD CONDITIONS | 945 |
| BHP, AT 2800 RPM, STANDARD CONDITIONS | 500 |
| INDUCTION SYSTEM | SUPERCHARGED |
| IGNITION SYSTEM | MAGNETOS |
| GENERATOR | 150 AMPERES |
| FUEL SYSTEM | INJECTION |
| WEIGHT, DRY | 1842 LBS.* |

* INCLUDES ENGINE AND TRANSMISSION OIL COOLERS AND COOLING SYSTEM, AND ALL ACCESSORIES EXCEPT GENERATOR.

GROSS PERFORMANCE



NOTES:

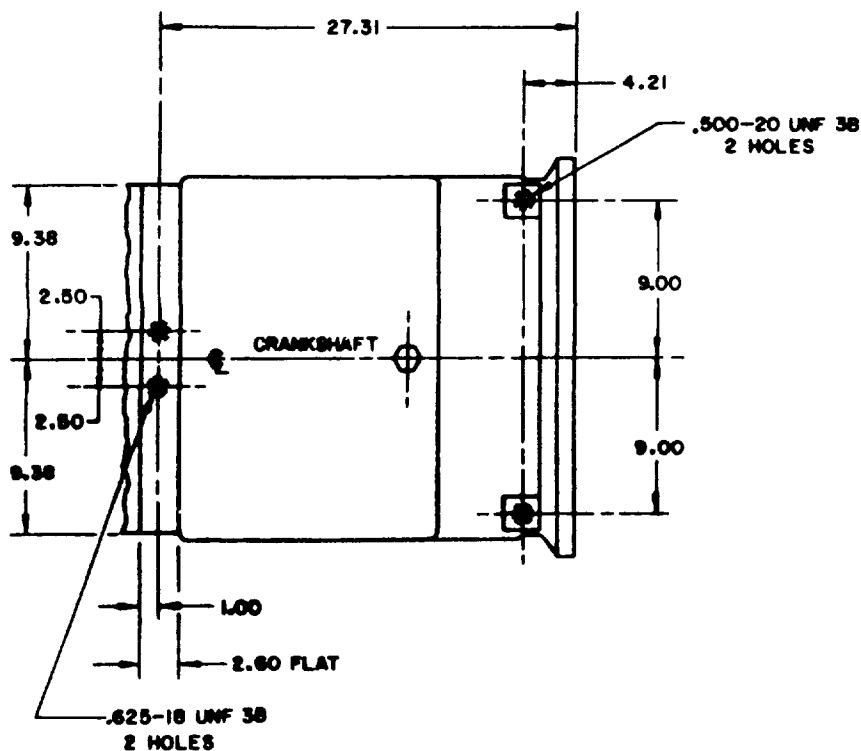
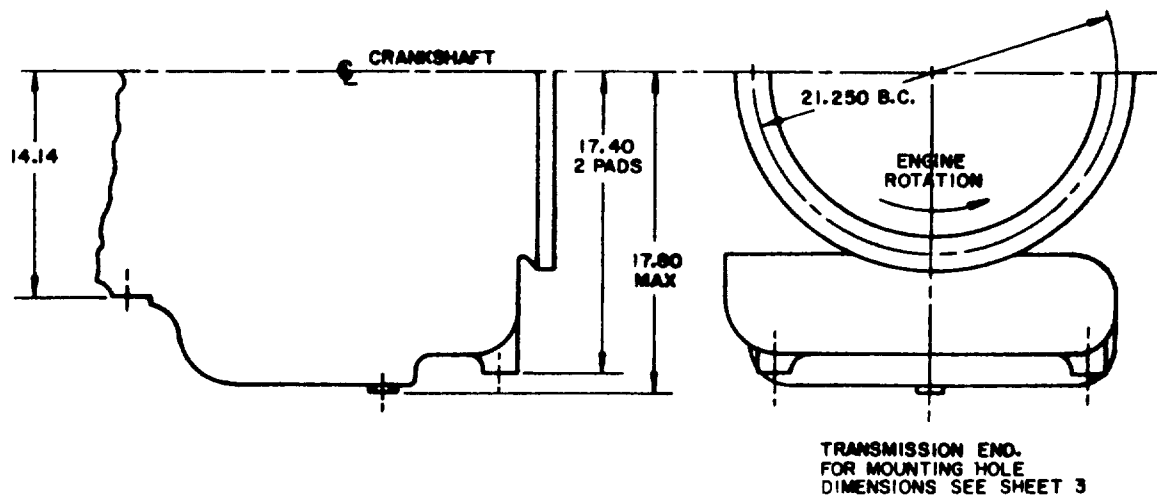
1. THIS ENGINE SHALL CONFORM TO HORIZONTAL OPPOSED, 800 BHP SUPERCHARGED, WITH FUEL INJECTOR CLASSIFICATION OF MIL-E-45162.
2. ALL THREADS SHALL BE IN ACCORDANCE WITH SCREW-THREAD STANDARDS FOR FEDERAL SERVICES, HANDBOOK H28.
3. DIMENSIONS SHOWN ARE IN INCHES AND ARE FOR ENGINEERING REFERENCE ONLY.
4. MARKING SHALL CONSIST OF THE MS PART NUMBER AND THE MANUFACTURER'S IDENTIFICATION AND SHALL BE IN ACCORDANCE WITH MIL-STD-130.
5. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
6. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
7. DRAWINGS AND OTHER INFORMATION PERTAINING TO THIS ENGINE ARE AVAILABLE FROM THE U.S. ARMY TANK-AUTOMOTIVE COMMAND, WARREN, MICHIGAN 48090.

ⓑ INACTIVE FOR DESIGN AFTER 4 FEB 1988
NO SUPERSEDING STANDARD

| | | | |
|--|--|--------------------------------------|------------------------|
| P A ARMY-AT | TITLE | MS PART NO. | ENGINEERING PARTS LIST |
| Other Cust NAVY - MC AF - 82 | ENGINE, GASOLINE: AIR COOLED, 895 CU IN DISPL, 4 STROKE CYCLE, RECIPROCATING, AUTOMOTIVE | MS 51314-1 | 8376655 |
| PROCUREMENT SPECIFICATION MIL-E-45162 | SUPERSEDES | MILITARY STANDARD MS 51314 | |
| | | SHEET 1 | OF 3 |

FED SUP CLASS
2805

STANDARD MOUNTING DIMENSIONS FOR ENGINE MS 51314-1



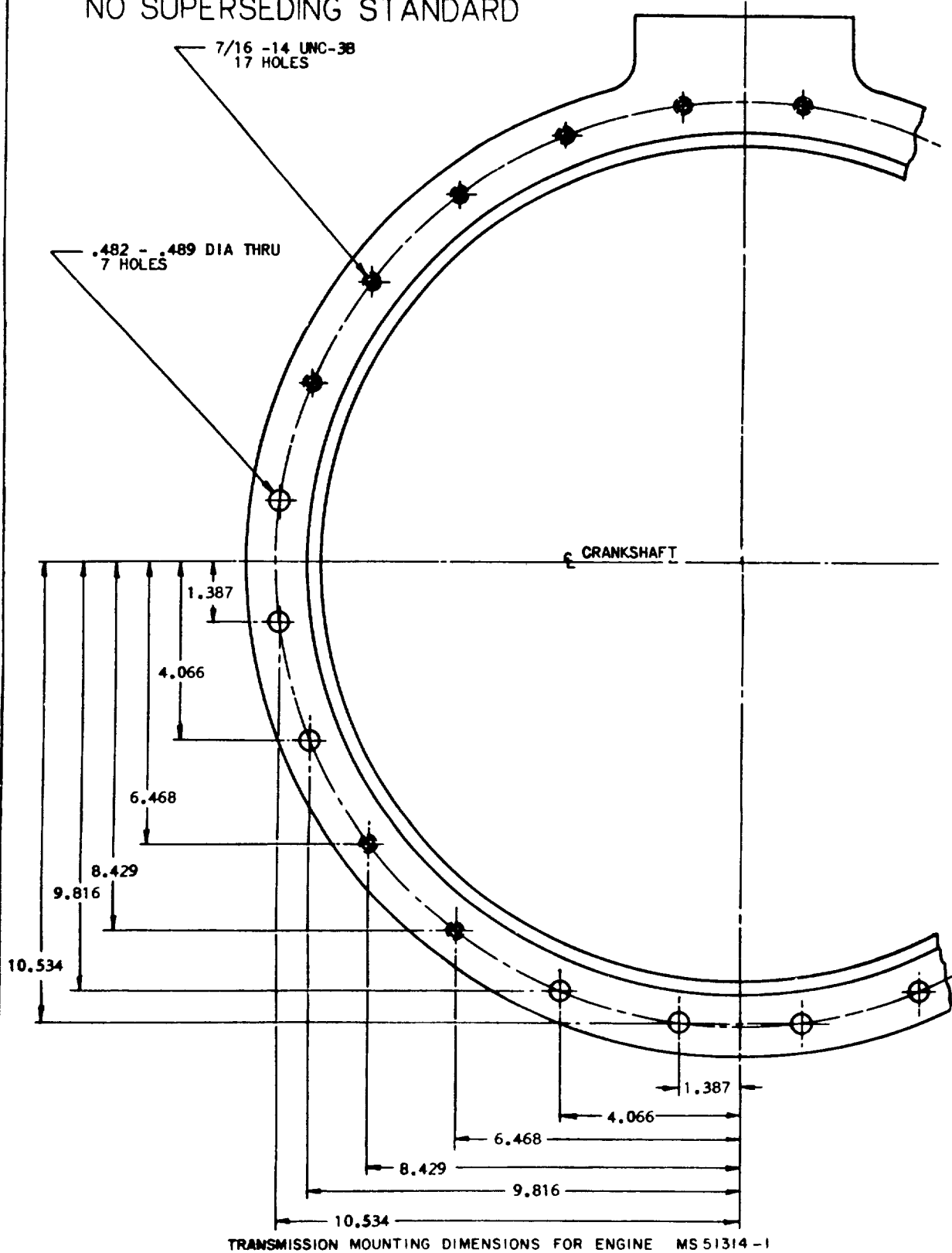
ⓑ INACTIVE FOR DESIGN AFTER 4 FEB 1988
NO SUPERSEDING STANDARD

APPROVED 26 MAY 1959 REVISED ⓐ 6 SEPTEMBER 1966 ⓑ 4 FEBRUARY 1988

| | | |
|--|--|-------------------|
| P A ARMY-AT | TITLE | MILITARY STANDARD |
| Other Cust NAVY - MC AF - 82 | ENGINE, GASOLINE: AIR COOLED, 895 CU IN DISPL, 4 STROKE CYCLE, RECIPROCATING, AUTOMOTIVE | MS 51314 |
| PROCUREMENT SPECIFICATION MIL-E-45162 | SUPERSEDES | SHEET 2 OF 3 |

Ⓑ INACTIVE FOR DESIGN AFTER 4 FEB 1988
NO SUPERSEDING STANDARD

FED SUP CLASS
2805



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| | | |
|---------------------------|----------------------------------|-------------------|
| P A ARMY-AT | TITLE | MILITARY STANDARD |
| Other Cust | ENGINE, GASOLINE: AIR COOLED, | |
| NAVY - MC | 895 CU IN DISPL, 4 STROKE CYCLE, | |
| AF - 82 | RECIPROCATING, AUTOMOTIVE | MS 51314 |
| PROCUREMENT SPECIFICATION | SUPERSEDES | SHEET |
| MIL-E-45162 | | 3 OF 3 |

DD FORM 672-1 (Coordinated)

APPROVED 26 MAY 1959 REVISED Ⓐ 6 SEPTEMBER 1966 Ⓑ 4 FEBRUARY 1988