

CHARACTERISTICS SHEET

DETROIT ARSENAL

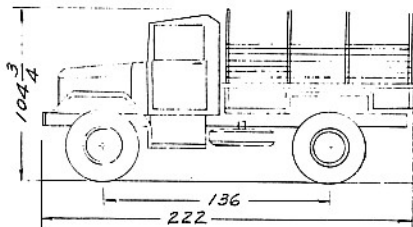
CENTER LINE, MICHIGAN

VEHICLE: TRUCK, CARGO, 2 TON, 4x4, XM2391
WHEELBASE: 136 IN.

TYPE: CARGO

PROJECT NO. TT3-812

SECTION: TV-1
DRAWING NO.: 77-850
SHEET: FACIM. 1



CURB WEIGHT, FULLY EQUIPPED,
LESS FUELLOAD & PERSONNEL
FRONT AXLE 9,560 LBS.
REAR AXLE 4,300 LBS.
TOTAL 13,860 LBS.

GROSS LOAD, CROSS COUNTRY
& HIGHWAY 4,000 LBS.
3,400 LBS.

TOWED LOAD ALLOWANCE, CROSS COUNTRY,
HIGHWAY 6,000 LBS. HIGHWAY N. A. LBS.

SHIPPING DIMENSIONS, CU. FT. 1,025
SQ. FT. 143

LENGTH 222 IN.
WIDTH 96 IN.
HEIGHT, WITH RING MOUNT 106 IN.-LESS RING MOUNT 97-3/4 IN. REDUCIBLE TO 82-1/8 IN.

TREAD, FRONT 69-5/8 IN. **REAR AXLE** 69-5/8 IN.

CAS TO & REAR AXLE 66 IN. & REAR AXLE TO END OF FRAME 48-1/4 IN.

MINIMUM GROUND CLEARANCE, REAR AXLE 12-1/4 IN. UNDER CHASSIS 19-7/8 IN.

ANGLE OF APPROACH 38° **48°**
ANGLE OF DEPARTURE 38° **48°**
MIN. TURNING RADIUS (OVER BUMPERS) LEFT 29 FT. 6 IN.
RIGHT 31 FT. 0 IN.

FORDING DEPTH, WITH AIT 72 IN. **LESS MIT** 40 IN.

EXHAUST:
MAKE RED MODEL GA-531 TYPE 6 CYL. VALVE IN HEAD
DISPLACEMENT 331 CU. IN. BORE&STROKE 4.125 X 4.125 COMPRESSION RATIO 6.73:1
FULL GASOLINE RATING 72 -- 80 OCTANE GOV. SPEED 3400 RPM.
HORSEPOWER/MAX. GROSS 146 @ 3400 RPM MAX. MIT 127 @ 3400 RPM.
TORQUE/MAX. GROSS 270 LB.FT. @ 1340 RPM MAX. MIT 246 LB.FT. @ 1400 RPM.
LUBRICATION: PRESSURE CRANK CASE CAPACITY 9 QTS.
GOVERNOR: MAKE HOLLEY MODEL 885 PG TYPE MECH. VACUUM
COOLING SYSTEM CAPACITY 22 QTS. PUMP TYPE DRIVE 2 V-BELTS

SUSPENSION: FRONT SPRINGS: TYPE SEMI-ELLIPTICAL SIZE 2-1/2" WIDE 48 LONG
NO. LEAVES 12 RATE 790 LB/IN. SHOCK ASSEMBLY DELCO
REAR SPRINGS: TYPE SEMI-ELLIPTICAL W/AUX. SITS: 2-1/2" WIDE 48 LONG
NO. LEAVES 19 RATE 1,360 LB/IN. SHOCK ASSEMBLY NONE

WHEELS: ORDNANCE NO. 7380616 TYPE VENTILATED DISC DIAM. 20-1/2 IN.
READ CLIPS: ORN. NO. 7380995 SINGLE REAR

TIRES: TYPE MILITARY STANDARD SIZE 31,00X20 PLY 12
TREAD DESIGN: MDCG NO. SPARES 32

STEERING: MODEL RUSS TYPE GEAR & T-14 LEVER
RATIO: 23.4 = 19.5 = 33.4 POWER ASSIST MODEL NONE

BRAKES: SERVICE: MAKE TINKEN-DETROIT TYPE INTERNAL
DRUM SIZE: FRONT: 15/3 REAR 16X3
EFFECTIVE AREA: FRONT 107 SQ. IN. REAR 107 SQ. IN.
ACTUATION: AIR/HYDRAULIC

BRAKES: PARKING: MAKE DELCO-GENCOIT TYPE INTERNAL - EXTERNAL
DRUM SIZE 14X3 EFFECTIVE AREA 67 SQ. IN.

ELECTRICAL SYSTEM: WATERPROOF YES RADIO SUPPRESSED YES
POTENTIAL 24 VOLT. STARTING MOTOR: ORN. NO. 7766316
GENERATOR ORN. NO. 7524473 RATING 25 AMP. DRIVE 2 V-BELTS
BATTERY(IES) NO. 2 TYPE GEN. ORN. NO. 372524
COIL: ORN. NO. 7762685 REGULATOR: ORN. NO. 7351952
LIGHTING: HEADLAMPS: NO. GUIDE LIGHTS-1 B.O. DRIVING LAMP NO. GUARD 103-23
B.O. MARKER LAMP: NO. GUIDE LIGHTS-2 B.O. TRAILER COUPLING LAMP NO. 7731420

PERFORMANCE: MILES PER GALLON CRUISING RANGE HIGHWAY 250 MI.
GRADE ABILITY: DIRECTION 3.8 % FOR G.V.W. (GTV) OF 13,560 LBS.
MAXIMUM SPEED LOW 64 % FOR G.V.W. (GTV) OF 15,300 LBS.
62 MPH AT ENGINE GOVERNED SPEED 3,900 RPM

CAB: TYPE CONVENTIONAL CAPACITY 5 MEN

WINCH: MAKE N. A. MODEL --

FIRTLE BOSS: ORN. NO. 772050
TYPE COVER: NO. 34 LOCATION 7 EACH SIDE

DEVELOPMENT FACILITY: DETROIT ARSENAL

TRANSMISSION: MODEL SPICER NO. OF SPEEDS 5 FWD. 1 REV.
RATIOS: 1ST-1 7.55 2ND-1 4.17 3RD-1 2.45 4TH-1 1.43 5TH-1 1.00 REV. 7.36
PTO OPENINGS 3 INPUT TORQUE RATING 285 LB.FT.
LUBRICANT CAPACITY: W/PTO 4,25 QTS. W/PTO N. A. QTS.

TRANSFER CASE: MODEL TINKEN-DETROIT NO. OF SPEEDS 2 FWD. 2 REV.
RATIOS: HIGH 1:1 LOW 1.98:1 REVERSE HIGH 1:1 LOW 1.98:1
CONTROL OF FRONT AXLE DRIVE: MANUAL LUB. CAPACITY 7 QTS.

AXLES: FRONT: MODEL TINKEN-DETROIT TYPE DOUBLE REDUCTION
RATIO 6.72:1 TORQUE RATING 1100 LB.FT. LUB. CAP. 7 QTS. FOR DRUM NONE
REAR: MODEL TINKEN-DETROIT TYPE DOUBLE REDUCTION
RATIO 6.72:1 TORQUE RATING 1100 LB.FT. LUB. CAP. 7 QTS.

FRAME: TYPE CHANNEL STRAIGHT DIMENSIONS: 800X88 8 X 3 X 5/16 IN.
SECTION MODULUS 3.64 NO. OF CROSS-MEMBERS 8 REINFORCED 30

FOR COMPLETE REFERENCE ITEMS, HISTORY AND CURRENT STATUS, SEE REVERSE SIDE.

PROJECT ENGINEER *Prof. Pradko*
BRANCH CHIEF *J. J. Jefferson*
DIVISION CHIEF *C. A. Vanneman*
CHIEF ENGINEER *Clay G. Bond*
DATE APPROVED 24 May, 1955