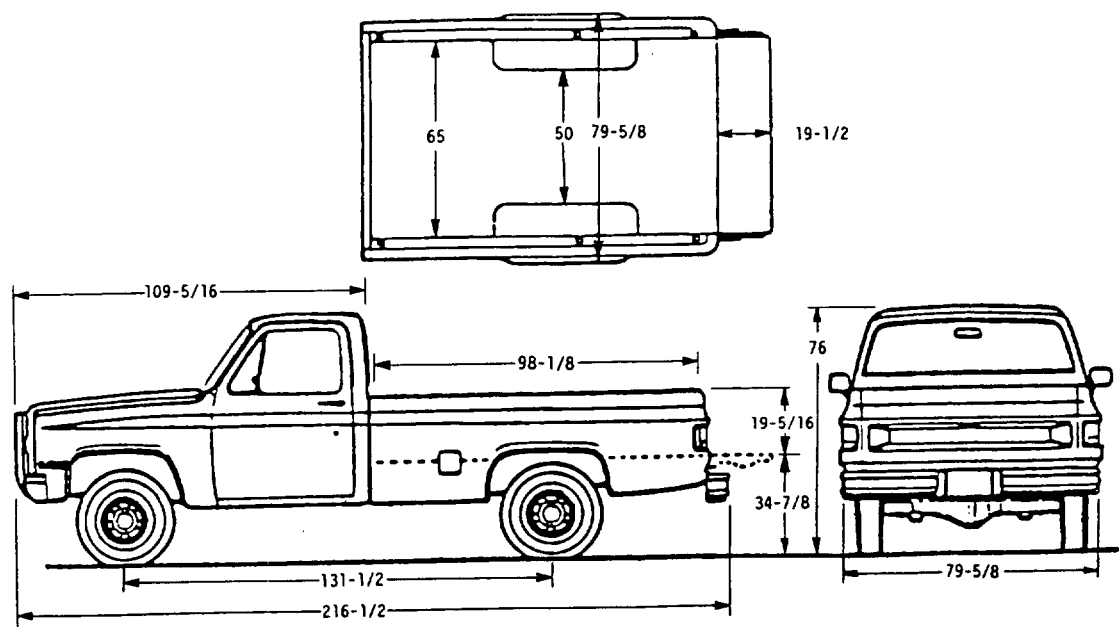


FED. SUP CLASS
2320

USER ACTIVITIES:

REVIEWER ACTIVITIES:

This military standard is approved for use by the US Army Tank-Automotive Command; Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.
DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



P. A. ARMY-AT Other Cust	INTERNATIONAL INTEREST	TITLE TRUCK, CARGO, TACTICAL, 4x4, 1/4 TON SHELTER CARRIER, M1028 (COMMERCIAL)	MILITARY STANDARD
			MS52207(AT)
PROCUREMENT SPECIFICATION ATPD 2074	SUPERSEDES:		SHEET 1 OF 2

APPROVED 3 JUL 85 REVISED

FED. SUP CLASS
2320

VEHICLE CHARACTERISTICS

MODEL: M1028

FRAME:

CHANNEL-SECTION DESIGN WITH LADDER-TYPE CONSTRUCTION

SIDE RAIL DIMENSIONS:

WIDTH	2-25/32 IN
DEPTH	7-3/4 IN
THICKNESS	3/16 IN
SECTION MODULUS	6.14 IN ²

WIDTH OVER RAILS

FRONT	28-3/32 IN
REAR	34-1/32 IN
OVERALL LENGTH OF RAIL	204-1/8 IN

CURB WEIGHT:

TRUCK, CARGO, SHELTER CARRIER, TACTICAL, FULLY EQUIPPED LESS PAYLOAD AND CREW 5,688 LBS

PAYLOAD: 3,600 LBS

GROSS WEIGHT:

FULLY EQUIPPED, LOADED 9,288 LBS

ENGINE:

6.2 LITER V-8 DIESEL.

TYPE	VALVE-IN-HEAD
PISTON DISPLACEMENT	379 CU IN
BORE AND STROKE	3.98 X 3.82 IN
COMPRESSION RATIO	21.3:1
EXHAUST	DUAL
SAE NET HORSEPOWER	135 AT 3,600 RPM
SAE NET TORQUE LB-FT	240 AT 2,000 RPM

TRANSMISSION:

3 SPEED AUTOMATIC.

GEAR TYPE:	PLANETARY	
TORQUE CONVERTER	LOCKUP	BREAKAWAY
GEAR RATIOS:		
FIRST	2.48	5.70
SECOND	1.48	3.40
THIRD	1.00	2.30
REVERSE	2.10	4.83

TRANSFER CASE:

PART-TIME FOUR WHEEL DRIVE WITH MANUAL LOCKING HUBS IN THE FRONT AXLE.

LEVER LOCATION:	FLOOR, RIGHT OF CENTER
LEVER POSITION:	4-LOW (ALL WHEEL UNDERDRIVE) N (NEUTRAL) 4-HIGH (ALL WHEEL DIRECT DRIVE) 2-HIGH (REAR WHEEL DRIVE)

RATIOS:	HIGH RANGE:	1.00:1
	LOW RANGE:	2.61:1

FRONT AXLE AND SUSPENSION:

THE FRONT AXLE IS A FULL-FLOATING DESIGN AND HAS A RATING OF 4,500 LBS. THE FRONT SUSPENSION IS A TAPERED LEAF (THREE-LEAF) DESIGN RATED AT 2,250 LBS PER SPRING. FRONT SHOCK ABSORBERS ARE HEAVY DUTY. A FRONT STABILIZER BAR IS INCLUDED.

MINIMUM SHAFT DIAMETER	1-5/16 IN
RATIO	4.56:1
PINION MOUNTINGS	OVERHUNG
PINION BEARINGS	TAPERED ROLLER
DIFFERENTIAL, TYPE	2-PINION
DIFFERENTIAL BEARING, TYPE	TAPERED ROLLER
WHEEL ATTACHMENT	8 BOLT

REAR AXLE AND SUSPENSION:

THE REAR AXLE IS A FULL-FLOATING DESIGN WITH AN AXLE RATING OF 7,500 LBS AND IS EQUIPPED WITH A LOCKING DIFFERENTIAL. THE REAR SUSPENSION IS A 2 STAGE, SEMI-ELLIPTIC LEAF SPRING (9 LEAVES PER SPRING), RATED AT 3,500 LBS PER SPRING. REAR SHOCK ABSORBERS ARE ALSO HEAVY DUTY.

HOUSING DIAMETER AND THICKNESS	3-3/8 X 9/32 IN
RATIO	4.56:1
DIFFERENTIAL, TYPE	4-PINION
DIFFERENTIAL BEARING, TYPE	TAPERED ROLLER

WHEELS:

FOUR PLUS ONE SPARE; 16 X 6-1/2 IN, ONE PIECE, 8 LUG.

TIRES:

FOUR PLUS ONE SPARE; LT235/85R-16E, ON/OFF ROAD TREAD DESIGN, STEEL BELTED RADIAL BLACKWALLS.

ELECTRICAL SYSTEM:

28 VOLT WITH TWO 12 VOLT BATTERIES CONNECTED IN SERIES AND TWO 100 AMPERE ALTERNATORS.

POTENTIAL VOLTS	12/28
GROUNDS	NEGATIVE
ALTERNATOR CAPACITY	
AT 28 VOLTS	100 A
IDLE	50 A

PERFORMANCE AT GVW:

VEHICLE IS ABLE TO ASCEND A GRADE OF

3% AT 55 MI/HR
6% AT 45 MI/HR
30% AT 10 MI/HR

FORGING:

20 IN AT 5 MI/HR

RANGE:

250 MILES WITH PAYLOAD, IN 2 WHEEL DRIVE, AT CONSTANT SPEED OF 55 MI/HR.

ENVIRONMENTAL CAPABILITY:

VEHICLE IS CAPABLE OF OPERATION IN TEMPERATURES OF

-10° F TO 120° F WITHOUT WINTERIZATION KIT
-50° F TO 120° F WITH WINTERIZATION KIT

TOWING:

VEHICLE IS CAPABLE OF TOWING MILITARY SERIES M101 TRAILER (3,000 LBS) LOADED.

MILITARY REQUIREMENTS:

AIR TRANSPORTABILITY; BLACKOUT LIGHTS; CAMOUFLAGE PAINT; MILITARY MARKINGS; ENGINE DIAGNOSTIC CONNECTOR ASSEMBLY; MULTI-PURPOSE TOWING/TIEDOWN EYES; NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC) WARFARE PROTECTION; RADIO MOUNTING PROVISIONS; SLAVE START CAPABILITY; WINTERIZATION KIT ADD-ON CAPABILITY; WEAPON HOLDERS; REAR PINTLE HOOK. S-250 SHELTER EQUIPMENT TIEDOWNS.

ADD-ONS (KITS):

WINTERIZATION KIT
TROOP SEAT KIT (INCLUDED)

NOTES:

1. DIMENSIONS ARE IN INCHES AND ARE SHOWN FOR ENGINEERING REFERENCE ONLY.
2. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
3. THIS VEHICLE SHALL BE IN ACCORDANCE WITH REFERENCED ENGINEERING DRAWINGS, COPIES WHICH MAY BE OBTAINED FROM: US ARMY TANK-AUTOMOTIVE COMMAND, WARREN, MI 48397-5000.

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DD FORM 672-1 LIMITED COORDINATION
MAY 73

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

APPROVED 3 JUL 85
REVISED