

NOTE: ALL DIMENSIONS ARE IN INCHES

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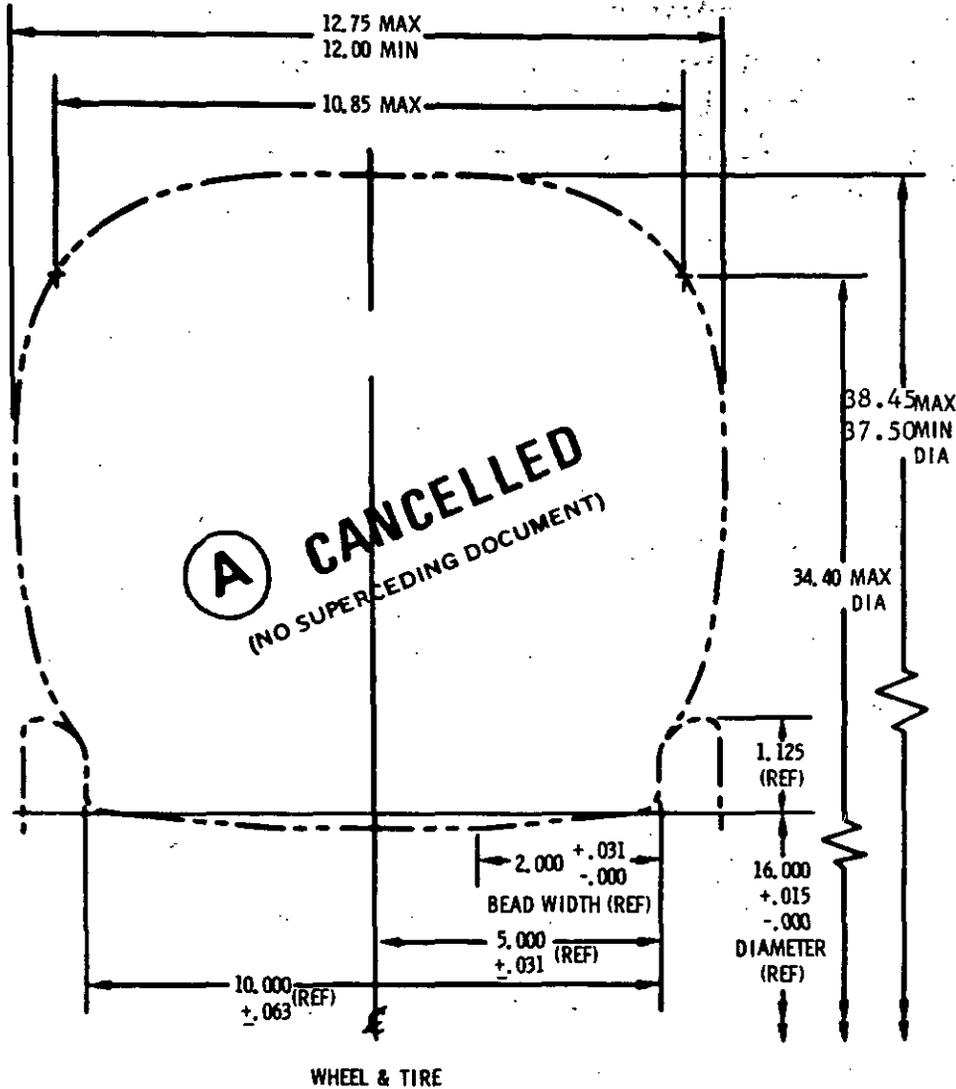


FIGURE 1

APPROVED 10 JUN 77 'REVISED (A) 25 JUL 86

P.A. 99 Other Code AS	TITLE TIRE-PNEUMATIC TYPE III 12.50-16/12 PR	MILITARY STANDARD
		MS22079
PROCUREMENT SPECIFICATION MIL-T-5041	SUPERSEDES:	SHEET 1 OF 3

DD FORM 672-1 (Limited coordination)

EDITION OF 1 SEP 86 MAY BE USED.

GENERAL NOTES

1. ANY DEVIATION FROM GIVEN DIMENSIONS MUST BE AUTHORIZED BY WRITTEN APPROVAL OF THE PROCURING AGENCY.

2. REFERENCE TO ANY SPECIFICATION HEREIN SHOULD BE CONSTRUED AS REFERENCE TO THE ISSUE IN EFFECT ON THE DATE OF INVITATIONS FOR BIDS.

3. WHERE CONFLICT EXISTS BETWEEN THIS STANDARD AND ANY OTHER MILITARY SPECIFICATION, THE REQUIREMENTS OF THIS STANDARD SHALL APPLY.

4. THE TIRE QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF MIL-T-5041.

TIRE NOTES

THE TUBELESS TIRE SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF MIL-T-5041 AND SHALL COMPLY WITH THE REQUIREMENTS LISTED BELOW:

SIZE	PLY RATING	INFLATION PRESSURE PSI (RATED)	BEAD WIDTH (MAX)	WEIGHT LBS IN (MAX)	STATIC UNBALANCE IN OZ (MAX)	TREAD DEPTH (MIN)	SKID DEPTH (MIN)	STATIC LOAD LBS
12.50-16	12	75	1.90*	86	35	RIB	0.45	12,800

\*MAXIMUM BEAD TOE FLASH OF 5/32 INCH NOT INCLUDED.

1. THE TIRE SHALL SUCCESSFULLY COMPLETE 100 DYNAMOMETER CYCLES EACH OF THE "TAXI-TAKE OFF" AND "LANDING TAXI" TEST AS SPECIFIED BELOW:

TAXI TAKE-OFF

THE TIRE SHALL BE LOADED TO 12,800 POUNDS AGAINST A STATIONARY FLYWHEEL. THE FLYWHEEL SHALL THEN BE ACCELERATED TO 30 MPH AND THE TIRE SHALL BE ROLLED FOR 10,000 FEET. STOP THE FLYWHEEL KEEPING THE TIRE FULLY LOADED. THE FLYWHEEL SHALL THEN BE ACCELERATED AT AN AVERAGE RATE OF 411 FT/SEC<sup>2</sup> TO 150 MPH. THE LOAD SHALL REMAIN CONSTANT FOR THE FIRST 10 SECONDS AND THEN DECREASED LINEARLY WITH TIME TO A LOAD OF 9,400 POUNDS IN 50 SECONDS. IN 3.5 MORE SECONDS THE LOAD SHALL BE REDUCED TO ZERO. THE TIRE SHALL BE UNLOADED AFTER A ROLL OF 5,885 FEET HAS BEEN COVERED.

LANDING - TAXI:

THE TIRE SHALL BE LANDED AGAINST A FLYWHEEL ROTATING AT 150 MPH. THE FLYWHEEL SHALL HAVE AN AVERAGE DECELERATION OF 4.27 FT/SEC<sup>2</sup> FROM

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Other Code	TIRE-PNEUMATIC	MS22079
AS	TYPE III 12.50-16/12 PR	
PROCUREMENT SPECIFICATION MIL-T-5041	SUPERSEDES	SHEET 2 OF 3

FED. SUP CLASS  
2620

150 MPH TO 23 MPH. THE LOAD SHALL INCREASE LINEARLY FROM ZERO AT INSTANT OF LANDING TO 5,000 POUNDS IN 4 SECONDS AND THEN LINEARLY TO 9,000 POUNDS IN 11 MORE SECONDS. THE LOAD SHALL BE FURTHER INCREASED LINEARLY TO 12,000 POUNDS IN A TOTAL ELAPSED TIME FROM LANDING OF 53.5 SECONDS. THE FLYWHEEL SHALL THEN BE ACCELERATED TO 30 MPH AND THE TIRE TAXIED FOR 10,000 FEET WITH 12,000 POUND LOAD.

2. THE TIRE MAY BE CONSTRUCTED WITH A FABRIC REINFORCED TREAD FEATURE TO OBTAIN MAXIMUM RELIABILITY AND RETENTION OF THE TREAD TO THE CARCASS.

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