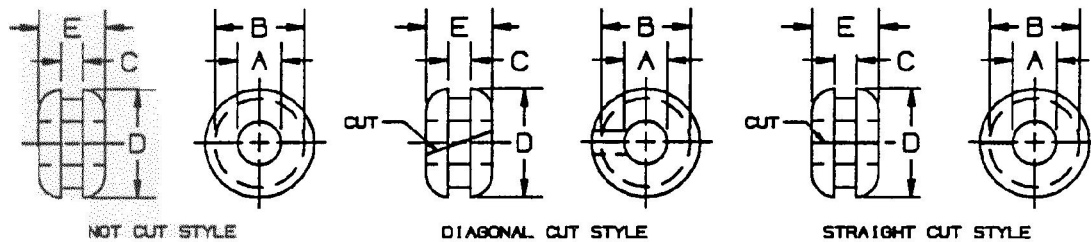


NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS S-S-41.101-GS/PL
		Former Designation: ESP-S-41.101-GS
TITLE: Rubber Grommets - English Series (Noun Code – 4020)	CURRENT REV No.: 1506	DATE: June 2015
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: ESP-S-41.101-GS - September 2000
PRINTED COPIES OF THIS DOCUMENT MUST BE VERIFIED FOR CURRENT REVISION		
<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		
Change Notice: Changed to New MPAPS format; Combined GS, PP, NPP, NR.		

- 1.0 GENERAL:** Tolerance for dimensions A, B, and D will be $\pm .010$. Tolerances for dimensions C and E will be $\pm .015$.

RUBBER GROMMETS (Noun Code – 4020)



- 2.0 RESTRICTED CHEMICAL SUBSTANCES:** Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.
- 3.0 MATERIAL:** Any CA 510 thru CA710 or AA510 thru AA710 per MPAPS K-15, Part 1, except that basic requirements for tensile strength, ultimate elongation, change in tensile strength, and compression set after heat aging are waived.
- 4.0 WORKMANSHIP:** Rubber grommets will be free from all defects that might affect their serviceability.
- 5.0 POLICY FOR SELECTING PARTS FOR NEW DESIGN:** Approved parts are so designated to reduce variety of parts and assure maximum availability, interchangeability, and cost savings in volume buying.

For new design, parts shall be selected from "Approved" part list only.

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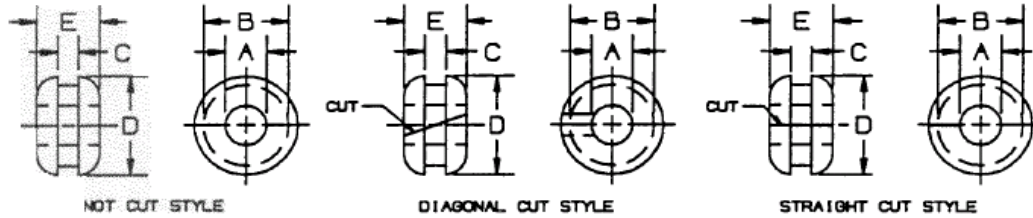
JUNE 2015

NUMBER: MPAPS S-S-41.101-GS/PL	TITLE: Rubber Grommets	REVISION: 1506
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6.0 PART LIST:

6.1 Approved:

RUBBER GROMMETS (Noun Code - 4020)



Dimensions in inches:

Size Number	1	2	3	4	5	6	7	8	9	10
Nominal Dia	1/4	1/4	5/16	5/16	3/8	3/8	1/2	1/2	5/8	5/8
A Hole Diameter	.266	.250	.328	.328	.391	.391	.500	.516	.641	.625
C Width of Groove	.062	.188	.062	.188	.062	.188	.062	.188	.062	.156
E Thickness	.312	.438	.312	.438	.312	.438	.312	.438	.312	.438
B Dia of Groove	.469	.500	.531	.531	.656	.656	.812	.844	.969	.938
D Outside Dia	.625	.625	.719	.719	.844	.844	1.062	1.062	1.188	1.188
Style	PART NUMBERS - RUBBER, PLAIN									
Not Cut	117957		117959			117962	117963		117965	
Diagonal Cut	144226		134252	109390	128157		120879	120408	120013	118833
Straight Cut	443850									

ADDITIONAL SIZES										
A Hole Diameter	3/16	1/4	1/4	5/16	5/16	3/8	1/2	1/2	1/2	1/2
C Width of Groove	.125	.125	.062	.062	.062	.062	.062	.062	.062	.094
E Thickness	.250	.375	.375	.375	.250	.281	.250	.250	.250	.344
B Dia of Groove	.312	.469	.750	.750	.875	.500	.750	.938	1.250	.750
D Outside Dia	.438	.625	1.000	1.000	1.375	.688	.875	1.625	1.500	.875
Style	PART NUMBERS - RUBBER, PLAIN									
Diagonal Cut	23406R1	187540	117971		117973	117974	144227	144228		

ADDITIONAL SIZES										
A Hole Diameter	9/16	5/8	3/4	7/8	1	1	1-1/8	1-1/4	1-1/2	
C Width of Groove	.062	.062	.062	.125	.250	.062	.062	.125	.062	
E Thickness	.313	.500	.375	.750	.500	.438	.438	.500	.438	
B Dia of Groove	.750	1.000	1.062	1.250	1.250	1.375	1.375	2.50	1.75	
D Outside Dia	1.000	1.375	1.375	1.562	1.500	1.750	1.75	2.875	2.125	
Style	PART NUMBERS - RUBBER, PLAIN									
Not Cut			144229	112745	40361R1				587215R1	
Diagonal Cut	40413R1	117975		142350						

6.2 Not for New Design:

Dimensions in inches:

Size Number	1	2	3	4	5	6	7	8	9	10
Nominal Dia	1/4	1/4	5/16	5/16	3/8	3/8	1/2	1/2	5/8	5/8
A Hole Diameter	.266	.250	.328	.328	.391	1	.500	.516	.641	.625
C Width of Groove	.062	.188	.062	.188	.062	.062	.062	.188	.062	.156
E Thickness	.312	.438	.312	.438	.312	.438	.312	.438	.312	.438
B Dia of Groove	.469	.500	.531	.531	.656	1.375	.812	.844	.969	.938
D Outside Dia	.625	.625	.719	.719	.844	1.750	1.062	1.062	1.188	1.188
Style	PART NUMBERS - RUBBER, PLAIN									
Diagonal Cut		140711				19351R1				

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JUNE 2015