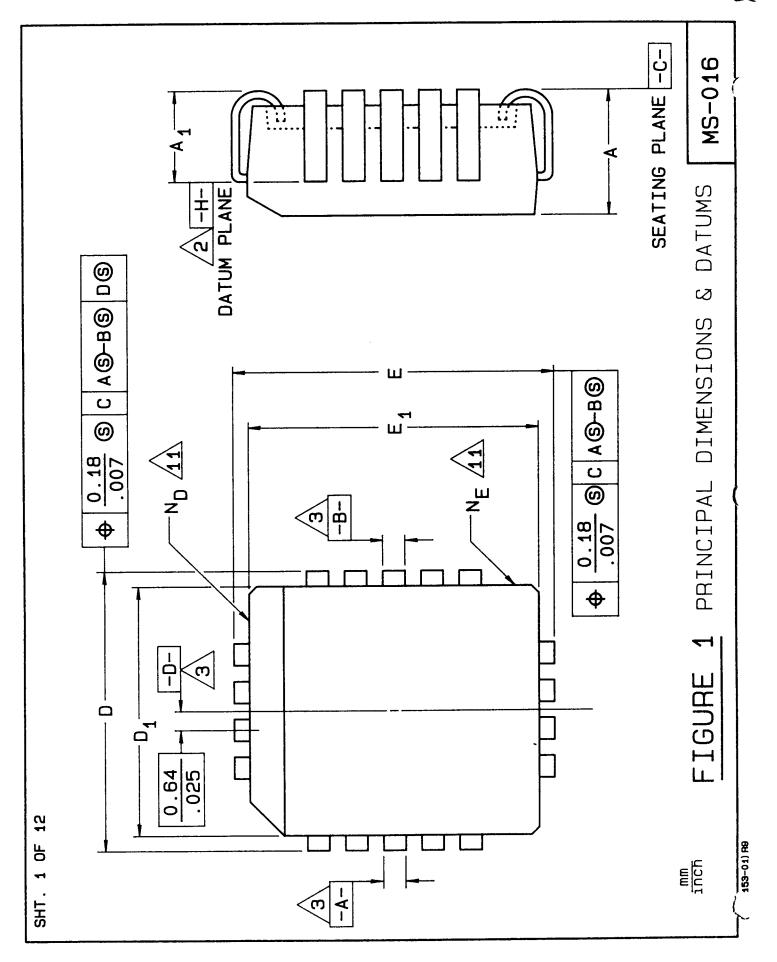
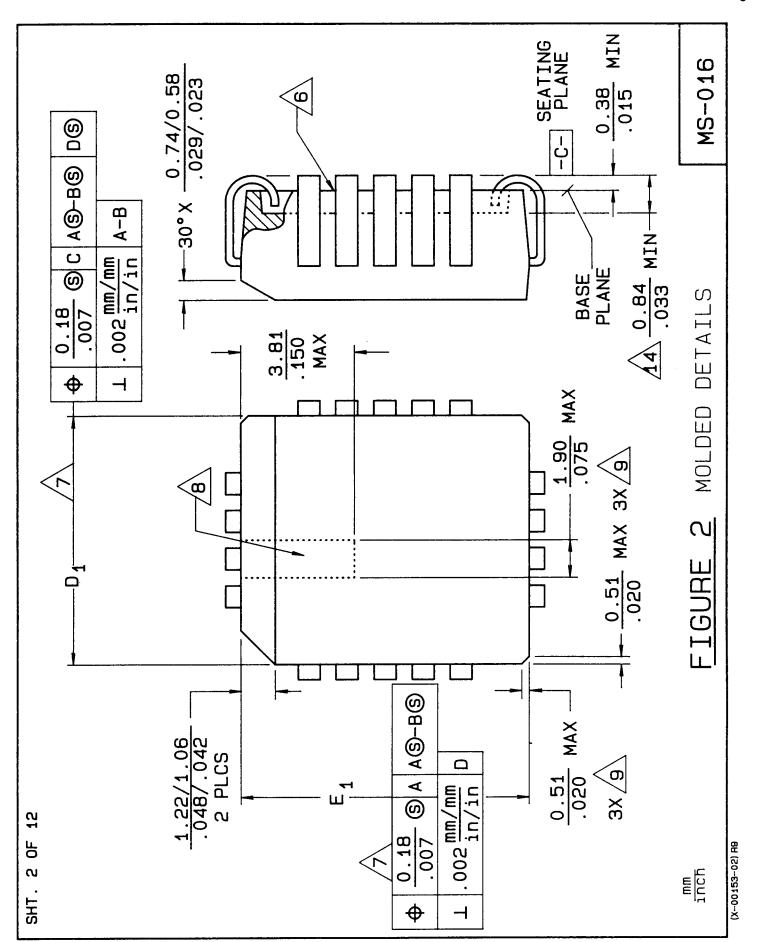
MS-016

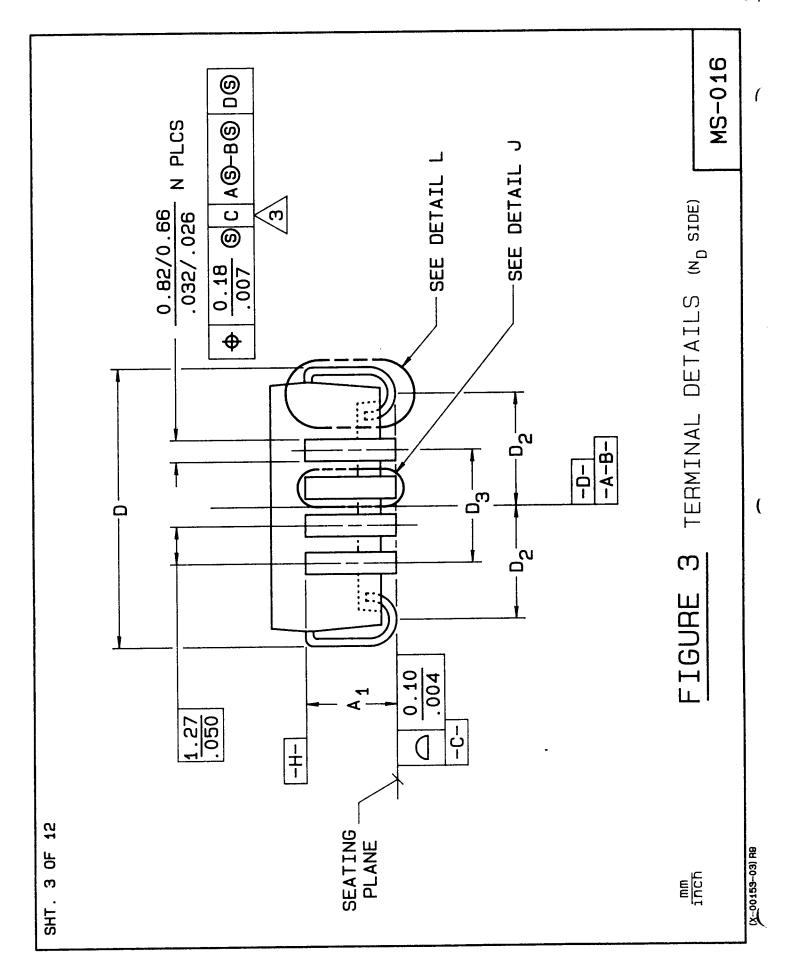
PLASTIC CHIP CARRIER (PCC) FAMILY

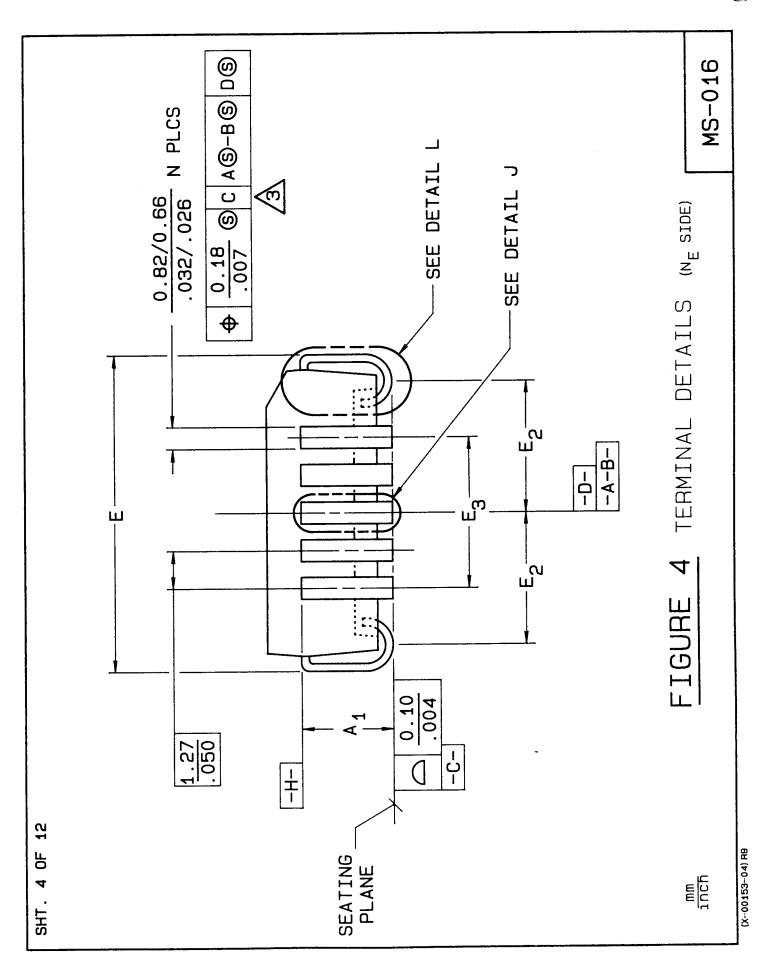
1.27mm/.050" LEAD SPACING, RECTANGULAR

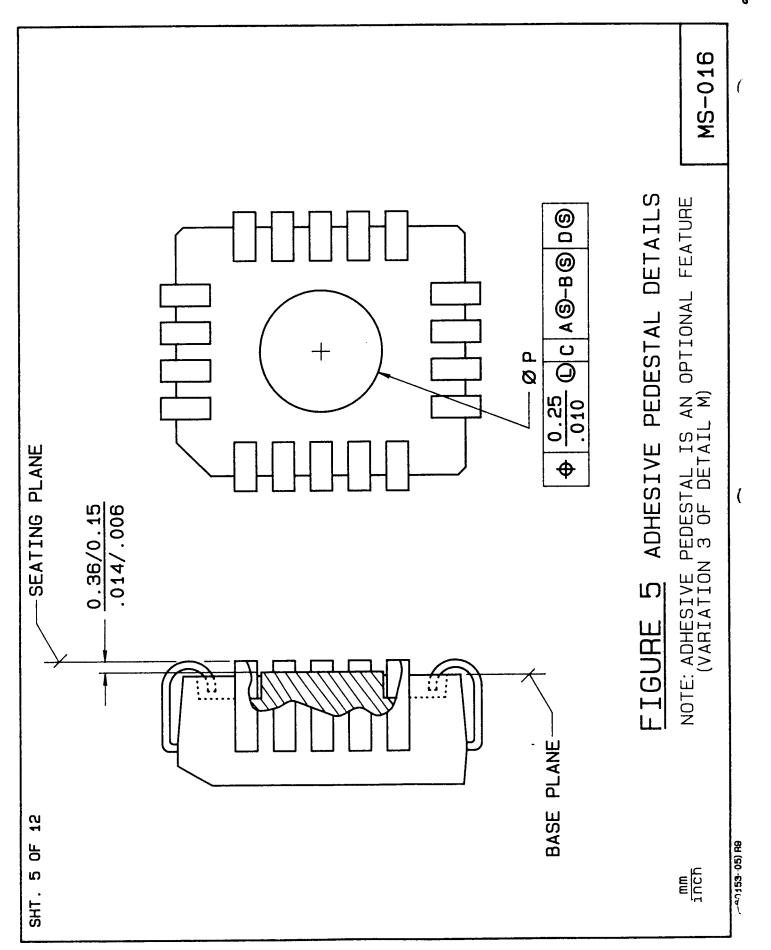
JEDEC SOLID STATE PRODUCTS
STANDARD OUTLINE

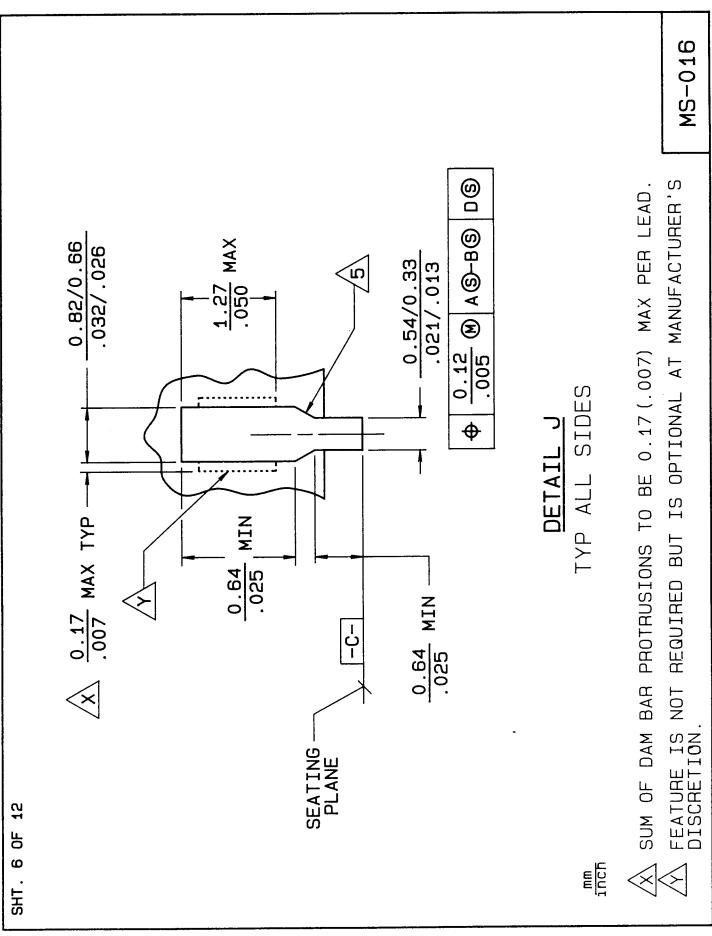




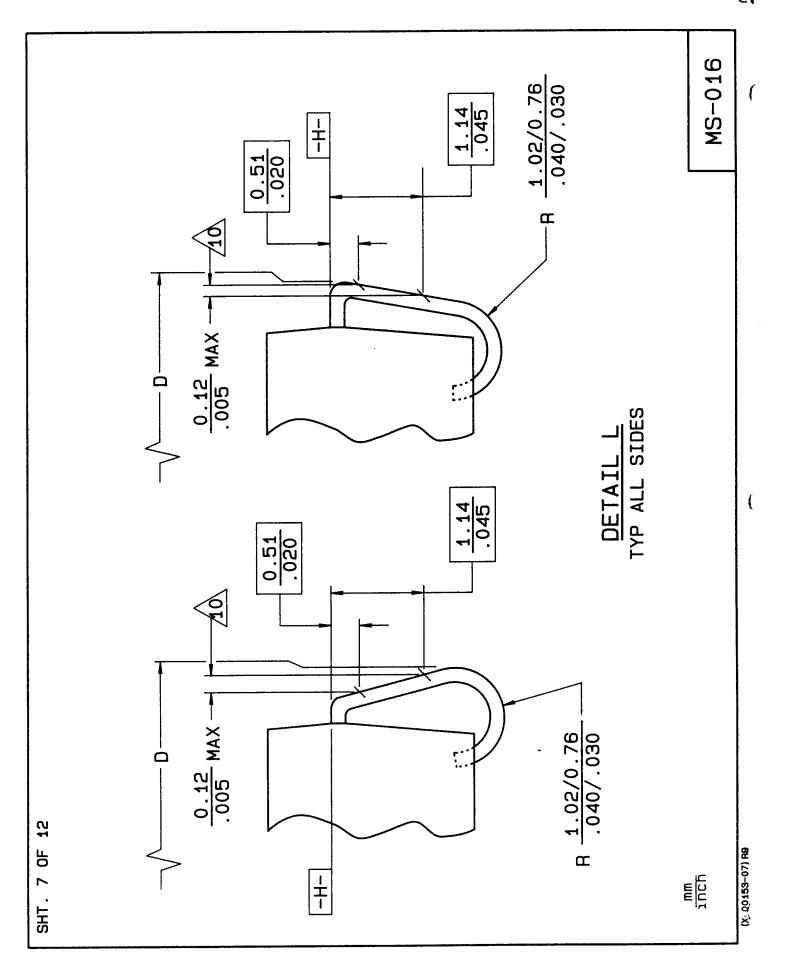








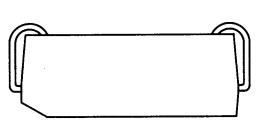
(X-00153-08) RB



DETAIL M

PACKAGE VARIATIONS

3 PEDESTAL



2 FLAT

1 CAVITY

SHT. 8 OF 12

(X~00153-08) R9

SHT.	9 OF 1	2							AL	L DIMENSION	s in INCH	HES_
S	S VARIATIONS											
M	AA		02	AB		N 0	AC		N O	AD		ZOT E
B 0 L	MIN.	MAX.	E	MIN.	MAX.	E	MIN.	MAX.	E	MIN.	MAX.	E
Α	. 125	.140		. 125	. 140		. 125	.140		. 125	. 140	
A1	.060	. 095		.060	. 095		.060	.095		.060	. 095	1 1
ם	.317	.327		. 320	. 335		. 320	. 335		. 385	. 395	
D1	. 282	. 288	7	. 287	. 293	7	. 287	. 293	7	. 347	. 353	7
D2	. 104	.140		. 104	. 140		.104	.140	1	. 138	. 173	
D3	.150 BSC			. 150 _, BSC			. 150	.150 BSC		. 200	BSC	
E	. 457	. 467		. 520	.535		. 520	. 535		. 585	. 595	
E1	. 422	. 428	7	. 487	. 493	7	. 487	. 493	7	. 547	. 553	7
E2	. 174	.210		. 204	. 240		.204	.240		. 238	. 273	
E3	.200 BSC			. 200	.200 BSC		.300 BSC			.400 BSC		1
N	1	18		18			22			28		
ND	4	-	11	i i		11 11	4		11	i		11
NE	5		11	5	5		7		111	9		11
ØΡ	.080	. 105		.080	. 105		. 080	. 105		. 130	. 205	

									A	LL DIM	ENSIONS I	NCH	<u>HES</u>
S					VARIAT	ION	IS						
M B	AE NO				707			10 Z				NOT E	
0 L	MIN.	MAX.	Ē	MIN.	MAX.	E	MIN.	MAX.	Ē	M.	IN.	MAX.	Ē
Α	. 125	. 140							1				
A1	.060	.095							1	ł			
D	. 485	. 495											
D1	. 447	. 453	7										
D2	. 188	. 223											
D3	. 300	BSC							1		1		1 1
E	. 585	. 595											
E1	.547	. 553	7										
E2	. 238	. 273											
E3	.400 BSC								ĺ			1 1	
N	32		<u> </u>										
ND	7	7	11						;				
NE	9	€	11]			
ØΡ	. 130	. 205											
NOTE													
REF	F ITEM 11-241												
ISSUE										L			
SOLI	JEDEC OLID STATE PRODUCTS OUTLINES			TITLE (PCC) F		50	CHIP CAR LEAD-SP LAR		ISS /	NE	DATE 12/89	MS-0	16

SHT. 10 OF 12 ALL DIMENSIONS IN MILLIMETERS												
S	S VARIATIONS											
м в о	AA		OZ	AB		02	AC		OZ	AD		70Z
0	MIN.	MAX.	Ē	MIN.	MAX.	E	MIN.	MAX.	E	MIN.	MAX.	E
Α	3.18	3.55		3.18	3.55		3.18	3.55		3.18	3.55	
A1	1.53	2.41		1.53	2.41		1.53	2.41		1.53	2.41	
ם	8.06	8.30		8.13	8.50		8.13	8.50		9.78	10.03	
D1	7.17	7.31	7	7.29	7.44	7	7.29	7.44	7	8.82	8.96	7
D2	2.65	3.55		2.65	3.55		2.65	3.55		3.51	4.39	
ם	3.81 BSC			3.81 BSC			3.81	BSC		5.08	BSC	
E	11.61	11.86		13.21	13.58		13.21	13.58		14.86	15.11	
E1	10.72	10.87	7	12.37	12.52	7	12.37	12.52	7	13.90	14.04	7
E2	4.42	5.33		5.19	6.09		5.19	6.09		6.05	6.93	
E3	5.08 BSC			5.08 BSC			7.62 BSC			10.16 BSC		
N	18			18			22			28		
ND	}		11	4		11	4		111	5		11
NE	5		11	5	_	11	7		111	9	3	11
ØP	2.04	2.66		2.04	2.66		2.04	2.66		3.31	5.20	

ALL DIMENSIONS IN MILLIMETER **VARIATIONS** SYMBOL NOTE ZOTE ZOLE NOTE ΑE MIN. MAX. MIN. MAX. MIN. MAX. MIN. MAX. 3.55 3.18 Α A 1 1.53 2.41 12.32 12.57 D 11.36 11.50 **D1** 4.78 5.66 D2 7.62 BSC D3 Ε 14.86 15.11 13.90 14.04 E1 6.05 | 6.93 E2 10.16 BSC E3 32 Ν 7 ND 11 11 NE ØΡ 3.31 5.20 NOTE ITEM 11-241 REF ISSUE **JEDEC** TITLE: PLASTIC CHIP CARRIER **ISSUE** DATE SOLID STATE PRODUCTS (PCC) FAMILY 1.27 LEAD-SPACING, MS-016 12/89 **OUTLINES** RECTANGULAR

NOTES:

1 ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1982.

2

DATUM PLANE -H- LOCATED AT TOP OF MOLD PARTING LINE AND COINCIDENT WITH TOP OF LEAD, WHERE LEAD EXITS PLASTIC BODY.



DATUMS A-B AND -D- ARE USED TO INDICATE THAT THE PACKAGE CENTER IS DETERMINED FROM THE TWO DATUMS DETERMINED WHERE LEAD OF CHOICE EXITS PLASTIC BODY AT DATUM PLANE -H- . WHEN NUMBER OF LEADS PER SIDE IS EVEN, DATUMS A-B AND -D- ARE DETERMINED BY ADDING THE HALF-PITCH BASIC DIMENSION TO THE CENTERLINE OF THE ADJACENT LEAD. WHEN NUMBER OF LEADS PER SIDE IS ODD, DATUMS A-B AND -D- ARE DETERMINED BY THE CENTERLINE OF THE CENTER LEADS.



TO BE DETERMINED AT SEATING PLANE _-C- .



TRANSITION IS OPTIONAL.



PLASTIC BODY DETAILS BETWEEN LEADS ARE OPTIONAL.



DIMENSIONS D₁ AND E₁ DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS 0.254 mm/0.010 in PER SIDE. DIMENSIONS D, AND E, INCLUDE MOLD MISMATCH AND ARE DETERMINED AT PARTING LINE.



DETAILS OF PIN 1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN ZONE INDICATED. IF THE NUMBER OF TERMINALS ON A SIDE IS ODD, TERMINAL 1 IS THE CENTER TERMINAL. IF THE NUMBER OF TERMINALS ON A SIDE IS EVEN, TERMINAL 1 IS THE TERMINAL WHICH IS ADJACENT TO THE CENTERLINE OF THE TERMINAL ARRAY AND IN THE DIRECTION OF THE INDEX CORNER.



EXACT SHAPE OF THIS FEATURE IS OPTIONAL.

MS-016

APPLICATIONS. IF UNIT IS INTENDED TO BE SOCKETED, IT IS ADVISABLE TO REVIEW THESE DIMENSIONS WITH THE SOCKET SUPPLIER. THESE TWO DIMENSIONS DETERMINE MAXIMUM ANGLE OF THE LEAD FOR CERTAIN SOCKET

(I

NE ONE ND DENOTES THE NUMBER OF LEADS ON THE TWO SHORT SIDES OF THE PACKAGE, ONE OF WHICH CONTAINS PIN #1. NE DENOTES THE NUMBER OF LEADS ON THE TWO LONG SIDES OF THE PACKAGE.

F

ALL DIMENSIONS AND TOLERANCES INCLUDE LEAD TRIM OFFSET AND LEAD FINISH.

CONTROLLING DIMENSION: INCH. 13

A

PACKAGE-TO-BOARD CLEARANCE AT CENTER APPLIES ONLY TO PACKAGE VARIATION 1 (DETAIL M). MS-016