



Preferred Parts

Number:	F-001
Date Issued:	A-MAR09

ELECTRONIC DOCUMENT IN THE VIEWER IS CONTROLLED. PRINTED COPY IS AN UNCONTROLLED DOCUMENT.

FLAT WASHERS (Superseded)

This standard has been superseded by CNH Standard Parts, STPF110 (87366983), Flat Washers Inch Carbon Steel. For information on superseded standards refer to ENS0050 (87523699).

The controlled versions of CNH specifications and standards are published on the CNH Intranet site.

The documents are also available on the CNH electronic viewing system (e.g. eViewer). Suppliers are able to access these documents on CSCN (CNH Supplier Communications Network).

The superseded standard remains available for viewing following this page if needed.

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FLAT WASHERS (Superseded) GENERAL SPECIFICATIONS

GENERAL: Washers covered by this specification are intended for general industrial applications and are the same as described in American National Standard B18.22.1.

MATERIAL: Steel (CST) per Case MS 436 except 0.23 max. carbon permissible.
Brass (BRS) and Copper (COP) - Standard with manufacturer.
Stainless Steel (SST) - Any 300 Series or 400 Series stainless steel.

PREFERRED PARTS POLICY: Preferred parts are so designated to reduce variety of parts and assure maximum availability, interchangeability and cost savings in volume buying.

Material: Steel (CST)
Finish: Zinc Dichromate (ZND)
Type: A, Narrow AN, Wide AW
Sizes: See dimensional pages 3 and 4

SERVICE PARTS SUBSTITUTION POLICY: In the event that engineering does not indicate a "Do Not Substitute" in engineering specifications, the following substitutions may be implemented in service.

Plain Washers	
To be Replaced	Service Replacement
Plain finish (PLN) all types	Zinc dichromate finish (ZND) all types or phosphate coating (PHC) (if ZND is not set up for service).
Cadmium finish (CAD) all types	Zinc dichromate finish (ZND) all types.

FINISHES: Washers shall be furnished plain, plated or coated in accordance with the Case Engineering Materials Specification and class listed below:

Plain (PLN) - Free from dirt and rust and coated with a light oil film.
Zinc Dichromate (ZND) - MS 201 Class 5A
Phosphate Coating (PHC) - MS 91
Black Teflon (PTF) - MS 61
Black Zinc (BZN) - MS 203
Cadmium (CAD) - MS 206
Black Cadmium (BKC) - MS 208

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FLAT WASHERS

(Superseded)

PLATING THICKNESS: The determinant of plating thickness shall be the thickness of plating on the flat surface of the washer approximately midway between the inside and outside diameters.

QUALITY: Washers shall be free from burrs, loose scale, sharp edges and all other defects that might affect their serviceability. Washers shall be flat within .005 inch for basic outside diameters up to and including .875 inch and within .010 inch for larger outside diameters.

SIZES: #3, #4, #5, #6, #8, #10, #12 and fractional bolt sizes have been converted to decimals.

NOTE: #10 and 3/16 (0.188) bolt sizes have been combined as 0.190 bolt size as there is only a 0.002 difference in size.

NON-DESIGNATED WASHERS

APPLICATION GUIDE: The washers listed (Section F-004) are non-standard sizes used for special applications. These washers should only be used where the design requirement is not satisfied by the ANSI standard washers.

TOLERANCES: I.D.: $\pm .005$ up to and including .219 I.D.
 $\pm .010$ over .219 I.D.

O.D.: $\pm .010$ all sizes

THICKNESS RANGE: Dimensions specified are maximum, minimum manufacturers standard for steel sheets.

Or, maximum, minimum thickness of plain washers per ANSI B18.22.1.

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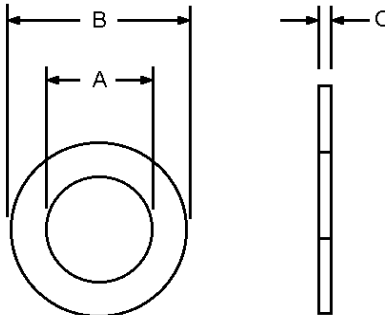


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FLAT WASHERS (Superseded)



TYPE A

All Dimensions are in inches.

Nominal Bolt Size	Series	Inside Diameter A			Outside Diameter B			Thickness C		
		Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
			Plus	Minus		Plus	Minus			
.138		.078	.000	.005	.188	.000	.005	.020	.025	.016
		.094	.000	.005	.250	.000	.005	.020	.025	.016
		.125	.008	.005	.312	.008	.005	.032	.040	.025
		.156	.008	.005	.375	.015	.005	.049	.065	.036
.164		.188	.008	.005	.438	.015	.005	.049	.065	.036
.190		.219	.008	.005	.500	.015	.005	.049	.065	.036
*.188		.250	.015	.005	.562	.015	.005	.049	.065	.036
*.216		.250	.015	.005	.562	.015	.005	.065	.080	.051
.250	Narrow	.281	.015	.005	.625	.015	.005	.065	.080	.051
.250	Wide	.312	.015	.005	.734	.015	.007	.065	.080	.051
.312	Narrow	.344	.015	.005	.688	.015	.007	.065	.080	.051
.312	Wide	.375	.015	.005	.875	.030	.007	.083	.104	.064
.375	Narrow	.406	.015	.005	.812	.015	.007	.065	.080	.051
.375	Wide	.438	.015	.005	1.000	.030	.007	.083	.104	.064
.438	Narrow	.469	.015	.005	.922	.015	.007	.065	.080	.051
.438	Wide	.500	.015	.005	1.250	.030	.007	.083	.104	.064
.500	Narrow	.531	.015	.005	1.062	.030	.007	.095	.121	.074
.500	Wide	.562	.015	.005	1.375	.030	.007	.109	.132	.086
*.562	Narrow	.594	.015	.005	1.156	.030	.007	.095	.121	.074
*.562	Wide	.625	.015	.005	1.469	.030	.007	.109	.132	.086
.625	Narrow	.656	.030	.007	1.312	.030	.007	.095	.121	.074
.625	Wide	.688	.030	.007	1.750	.030	.007	.134	.160	.108
.750	Narrow	.812	.030	.007	1.469	.030	.007	.134	.160	.108
.750	Wide	.812	.030	.007	2.000	.030	.007	.148	.177	.122
*.875	Narrow	.938	.030	.007	1.750	.030	.007	.134	.160	.108
*.875	Wide	.938	.030	.007	2.250	.030	.007	.165	.192	.136
1.000	Narrow	1.062	.030	.007	2.000	.030	.007	.134	.160	.108

* Non-Preferred Sizes

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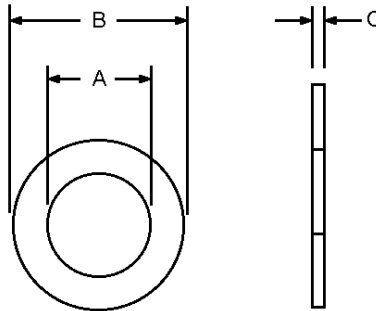


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FLAT WASHERS (Superseded)



TYPE A

All dimensions are in inches.

Nominal Bolt Size	Series	Inside Diameter A			Outside Diameter B			Thickness C		
		Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
			Plus	Minus		Plus	Minus			
1.000	Wide	1.062	.030	.007	2.500	.030	.007	.165	.192	.136
*1.125	Narrow	1.250	.030	.007	2.250	.030	.007	.134	.160	.108
*1.125	Wide	1.250	.030	.007	2.750	.030	.007	.165	.192	.136
1.250	Narrow	1.375	.030	.007	2.500	.030	.007	.165	.192	.136
1.250	Wide	1.375	.030	.007	3.000	.030	.007	.165	.192	.136
*1.375	Narrow	1.500	.030	.007	2.750	.030	.007	.165	.192	.136
*1.375	Wide	1.500	.045	.010	3.250	.045	.010	.180	.213	.153
1.500	Narrow	1.625	.030	.007	3.000	.030	.007	.165	.192	.136
1.500	Wide	1.625	.045	.010	3.500	.045	.010	.180	.213	.153
*1.625		1.750	.045	.010	3.750	.045	.010	.180	.213	.153
*1.750		1.875	.045	.010	4.000	.045	.010	.180	.213	.153
*1.750		2.000	.045	.010	4.250	.045	.010	.180	.213	.153
*2.000		2.125	.045	.010	4.500	.045	.010	.180	.213	.153
*2.250		2.375	.045	.010	4.750	.045	.010	.220	.248	.193
*2.500		2.625	.045	.010	5.000	.045	.010	.238	.280	.210
*2.750		2.875	.065	.010	5.250	.065	.010	.259	.310	.228
*3.000		3.125	.065	.010	5.500	.065	.010	.284	.327	.249

*Non-Preferred Sizes

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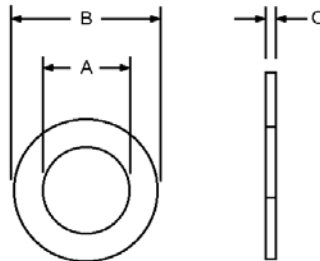


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FLAT WASHERS
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NON-PREFERRED PARTS



TYPE A
ADDITIONAL SIZES

All dimensions are in inches.

Inside Diameter A			Outside Diameter B			Thickness C		
Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
	Plus	Minus		Plus	Minus			
.094	.000	.005	.219	.000	.005	.020	.025	.016
.125	.000	.005	.250	.000	.005	.022	.028	.017
.156	.008	.005	.312	.008	.005	.035	.048	.027
.172	.008	.005	.406	.015	.005	.049	.065	.036
.188	.008	.005	.375	.015	.005	.049	.065	.036
.203	.008	.005	.469	.015	.005	.049	.065	.036
.219	.008	.005	.438	.015	.005	.049	.065	.036
.234	.008	.005	.531	.015	.005	.049	.065	.036
.250	.015	.005	.500	.015	.005	.049	.065	.036
.266	.015	.005	.625	.015	.005	.049	.065	.036
.312	.015	.005	.875	.015	.007	.065	.080	.051
.375	.015	.005	.734	.015	.007	.065	.080	.051
.375	.015	.005	1.125	.015	.007	.065	.080	.051
.438	.015	.005	.875	.030	.007	.083	.104	.064
.438	.015	.005	1.375	.030	.007	.083	.104	.064
.500	.015	.005	1.125	.030	.007	.083	.104	.064
.500	.015	.005	1.625	.030	.007	.083	.104	.064
.562	.015	.005	1.250	.030	.007	.109	.132	.086
.562	.015	.005	1.875	.030	.007	.109	.132	.086
.625	.015	.005	1.375	.030	.007	.109	.132	.086
.625	.015	.005	2.125	.030	.007	.134	.160	.108
.688	.030	.007	1.469	.030	.007	.134	.160	.108
.688	.030	.007	2.375	.030	.007	.165	.192	.136
.812	.030	.007	1.750	.030	.007	.148	.177	.122
.812	.030	.007	2.875	.030	.007	.165	.192	.136
.938	.030	.007	2.000	.030	.007	.165	.192	.136
.938	.030	.007	3.375	.045	.010	.180	.213	.153

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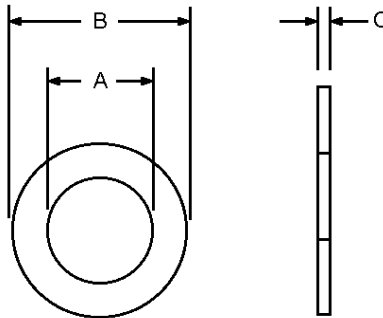
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FLAT WASHERS (Superseded)

NON-PREFERRED PARTS



TYPE A ADDITIONAL SIZES

All dimensions are in inches.

Inside Diameter A			Outside Diameter B			Thickness C		
Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
	Plus	Minus		Plus	Minus			
1.062	.030	.007	2.250	.030	.007	.165	.192	.136
1.062	.045	.010	3.875	.045	.010	.238	.280	.210
1.250	.030	.007	2.500	.030	.007	.165	.192	.136
1.375	.030	.007	2.750	.030	.007	.165	.192	.136
1.500	.045	.010	3.000	.045	.010	.180	.213	.153
1.625	.045	.010	3.250	.045	.010	.180	.213	.153
1.688	.045	.010	3.500	.045	.010	.180	.213	.153
1.812	.045	.010	3.750	.045	.010	.180	.213	.153
1.938	.045	.010	4.000	.045	.010	.180	.213	.153
2.062	.045	.010	4.250	.045	.010	.180	.213	.153

For Preferred Parts, See Pages 2 and 3.

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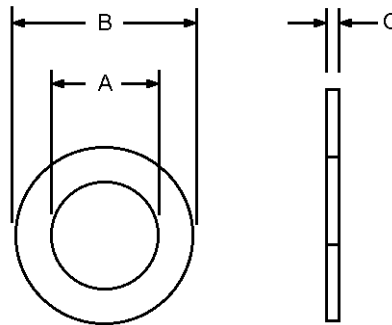


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FLAT WASHERS
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TYPE B

All dimensions are in inches.

Nominal Bolt Size	Series	Inside Diameter A			Outside Diameter B			Thickness C		
		Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
			Plus	Minus		Plus	Minus			
.062	Narrow	.068	.000	.005	.125	.000	.005	.025	.028	.022
	Regular	.068	.000	.005	.188	.000	.005	.025	.028	.022
	Wide	.068	.000	.005	.250	.000	.005	.025	.028	.022
.078	Narrow	.084	.000	.005	.156	.000	.005	.025	.028	.022
	Regular	.084	.000	.005	.219	.000	.005	.025	.028	.022
	Wide	.084	.000	.005	.281	.000	.005	.032	.036	.028
.086	Narrow	.094	.000	.005	.188	.000	.005	.025	.028	.022
	Regular	.094	.000	.005	.250	.000	.005	.032	.036	.028
	Wide	.094	.000	.005	.344	.000	.005	.032	.036	.028
.099	Narrow	.109	.000	.005	.219	.000	.005	.025	.028	.022
	Regular	.109	.000	.005	.312	.000	.005	.032	.036	.028
	Wide	.109	.008	.005	.406	.008	.005	.040	.045	.036
.112	Narrow	.125	.000	.005	.250	.000	.005	.032	.036	.028
	Regular	.125	.008	.005	.375	.008	.005	.040	.045	.036
	Wide	.125	.008	.005	.438	.008	.005	.040	.045	.036
.125	Narrow	.141	.000	.005	.281	.000	.005	.032	.036	.028
	Regular	.141	.008	.005	.406	.008	.005	.040	.045	.036
	Wide	.141	.008	.005	.500	.008	.005	.040	.045	.036

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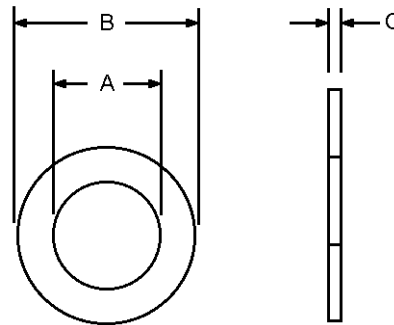


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TYPE B

All dimensions are in inches.

Nominal Bolt Size	Series	Inside Diameter A			Outside Diameter B			Thickness C		
		Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
			Plus	Minus		Plus	Minus			
.138	Narrow	.156	.000	.005	.312	.000	.005	.032	.036	.028
	Regular	.156	.008	.005	.438	.008	.005	.040	.045	.036
	Wide	.156	.008	.005	.562	.008	.005	.040	.045	.036
.164	Narrow	.188	.008	.005	.375	.008	.005	.040	.045	.036
	Regular	.188	.008	.005	.500	.008	.005	.040	.045	.036
	Wide	.188	.008	.005	.625	.015	.005	.063	.071	.056
.190	Narrow	.203	.008	.005	.406	.008	.005	.040	.045	.036
	Regular	.203	.008	.005	.562	.008	.005	.040	.045	.036
	Wide	.203	.008	.005	.734	.015	.007	.063	.071	.056
.216	Narrow	.234	.008	.005	.438	.008	.005	.040	.045	.036
	Regular	.234	.008	.005	.625	.015	.005	.063	.071	.056
	Wide	.234	.008	.005	.875	.015	.007	.063	.071	.056
.250	Narrow	.281	.015	.005	.500	.015	.005	.063	.071	.056
	Regular	.281	.015	.005	.734	.015	.007	.063	.071	.056
	Wide	.281	.015	.005	1.000	.015	.007	.063	.071	.056
.312	Narrow	.344	.015	.005	.625	.015	.005	.063	.071	.056
	Regular	.344	.015	.005	.875	.015	.007	.063	.071	.056
	Wide	.344	.015	.005	1.125	.015	.007	.063	.071	.056

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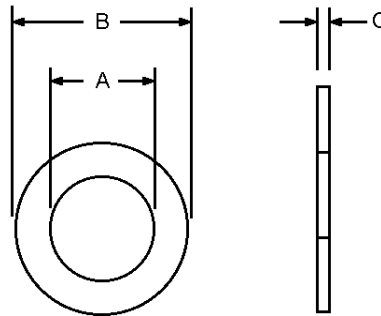


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TYPE B

All dimensions are in inches.

Nominal Bolt Size	Series	Inside Diameter A			Outside Diameter B			Thickness C		
		Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
			Plus	Minus		Plus	Minus			
.375	Narrow	.406	.015	.005	.734	.015	.007	.063	.071	.056
	Regular	.406	.015	.005	1.000	.015	.007	.063	.071	.056
	Wide	.406	.015	.005	1.250	.030	.007	.100	.112	.090
.438	Narrow	.469	.015	.005	.875	.015	.007	.063	.071	.056
	Regular	.469	.015	.005	1.125	.015	.007	.063	.071	.056
	Wide	.469	.015	.005	1.469	.030	.007	.100	.112	.090
.500	Narrow	.531	.015	.005	1.000	.015	.007	.063	.071	.056
	Regular	.531	.015	.005	1.250	.030	.007	.100	.112	.090
	Wide	.531	.015	.005	1.750	.030	.007	.100	.112	.090
.562	Narrow	.594	.015	.005	1.125	.015	.007	.063	.071	.056
	Regular	.594	.015	.005	1.469	.030	.007	.100	.112	.090
	Wide	.594	.015	.005	2.000	.030	.007	.100	.112	.090
.625	Narrow	.656	.030	.007	1.250	.030	.007	.100	.112	.090
	Regular	.656	.030	.007	1.750	.030	.007	.100	.112	.090
	Wide	.656	.030	.007	2.250	.030	.007	.160	.174	.146
.750	Narrow	.812	.030	.007	1.375	.030	.007	.100	.112	.090
	Regular	.812	.030	.007	2.000	.030	.007	.100	.112	.090
	Wide	.812	.030	.007	2.500	.030	.007	.160	.174	.146

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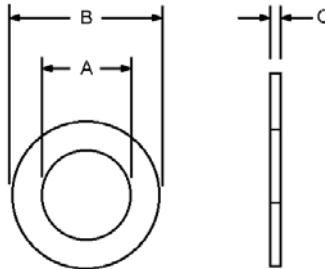


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FLAT WASHERS
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NON-PREFERRED PARTS



TYPE B

All dimensions are in inches.

Nominal Bolt Size	Series	Inside Diameter A			Outside Diameter B			Thickness C		
		Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
			Plus	Minus		Plus	Minus			
.875	Narrow	.938	.030	.007	1.469	.030	.007	.100	.112	.090
	Regular	.938	.030	.007	2.250	.030	.007	.160	.174	.146
	Wide	.938	.030	.007	2.750	.030	.007	.160	.174	.146
1.000	Narrow	1.062	.030	.007	1.750	.030	.007	.100	.112	.090
	Regular	1.062	.030	.007	2.500	.030	.007	.160	.174	.146
	Wide	1.062	.030	.007	3.000	.030	.007	.160	.174	.146
1.125	Narrow	1.188	.030	.007	2.000	.030	.007	.100	.112	.090
	Regular	1.188	.030	.007	2.750	.030	.007	.160	.174	.146
	Wide	1.188	.030	.007	3.250	.030	.007	.160	.174	.146
1.250	Narrow	1.312	.030	.007	2.250	.030	.007	.160	.174	.146
	Regular	1.312	.030	.007	3.000	.030	.007	.160	.174	.146
	Wide	1.312	.030	.010	3.500	.045	.010	.250	.266	.234
1.375	Narrow	1.438	.030	.007	2.500	.030	.007	.160	.174	.146
	Regular	1.438	.030	.007	3.250	.030	.007	.160	.174	.146
	Wide	1.438	.045	.010	3.750	.045	.010	.250	.266	.234
1.500	Narrow	1.562	.030	.007	2.750	.030	.007	.160	.174	.146
	Regular	1.562	.045	.010	3.500	.045	.010	.250	.266	.234
	Wide	1.562	.045	.010	4.000	.045	.010	.250	.266	.234
1.625	Narrow	1.750	.030	.007	3.000	.030	.007	.160	.174	.146
	Regular	1.750	.045	.010	3.750	.045	.010	.250	.266	.234
	Wide	1.750	.045	.010	4.250	.045	.010	.250	.266	.234

For Preferred Parts, See Pages 2 and 3.

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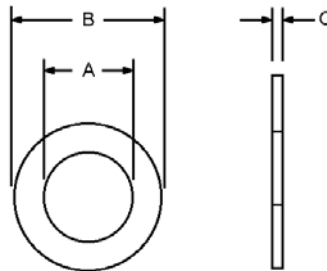


Preferred Parts

Number:	F-001
Date Issued:	A-MAR09

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FLAT WASHERS
(Superseded)
NON-PREFERRED PARTS



TYPE B

All dimensions are in inches.

Nominal Bolt Size	Series	Inside Diameter A			Outside Diameter B			Thickness C		
		Nominal	Tolerance		Nominal	Tolerance		Nominal	Max	Min
			Plus	Minus		Plus	Minus			
1.750	Narrow	1.875	.030	.007	3.250	.030	.007	.160	.174	.146
	Regular	1.875	.045	.010	4.000	.045	.010	.250	.266	.234
	Wide	1.875	.045	.010	4.500	.045	.010	.250	.266	.234
1.875	Narrow	2.000	.045	.010	3.500	.045	.010	.250	.266	.234
	Regular	2.000	.045	.010	4.250	.045	.010	.250	.266	.234
	Wide	2.000	.045	.010	4.750	.045	.010	.250	.266	.234
2.000	Narrow	2.125	.045	.010	3.750	.045	.010	.250	.266	.234
	Regular	2.125	.045	.010	4.500	.045	.010	.250	.266	.234
	Wide	2.125	.045	.010	5.000	.045	.010	.250	.266	.234
2.250	Narrow	2.375	.045	.010	4.000	.045	.010	.250	.266	.234
	Regular	2.375	.045	.010	5.000	.045	.010	.250	.266	.234
	Wide	2.375	.065	.010	5.500	.065	.010	.375	.393	.357
2.500	Narrow	2.625	.045	.010	4.500	.045	.010	.250	.266	.234
	Regular	2.625	.065	.010	5.500	.065	.010	.375	.393	.357
	Wide	2.625	.065	.010	6.000	.065	.010	.375	.393	.357
2.750	Narrow	2.875	.045	.010	5.000	.045	.010	.250	.266	.234
	Regular	2.875	.065	.010	6.000	.065	.010	.375	.393	.357
	Wide	2.875	.065	.010	6.500	.065	.010	.375	.393	.357
3.000	Narrow	3.125	.065	.010	5.500	.065	.010	.375	.393	.357
	Regular	3.125	.065	.010	6.500	.065	.010	.375	.393	.357
	Wide	3.125	.065	.010	7.000	.065	.010	.375	.393	.357

For Preferred Parts, See Pages 2 and 3.

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