

SECTION 7 INDEX TO CYCLE SECTION

VEHICLES	TABLE	PAGE			
		TIRE LOADS AND INFLATIONS	GENERAL DATA	APPROVED RIM CONTOURS	RIM CONTOUR DIMENSIONS
Motorcycle	MM-1A (Metric)	7-04, 7-05	7-06, 7-07 7-08, 7-09	7-12, 7-13	SECTION 8
	MC-4 (Alpha-Numeric)	7-10	7-11	7-12, 7-13	
	Maximum Dynamic Grown Tire Dimensions	7-15, 7-16			
Explanation of Tire Size Designation		7-02			
Definition of Terms Used in the Selection of Cycle Tires		7-02			
Optional Speed Symbols and Related Definitions		7-03			
Load Adjustment for "V" Speed Symbol Tires		7-03			
Definition of Maximum Grown Tire Envelope		7-14			

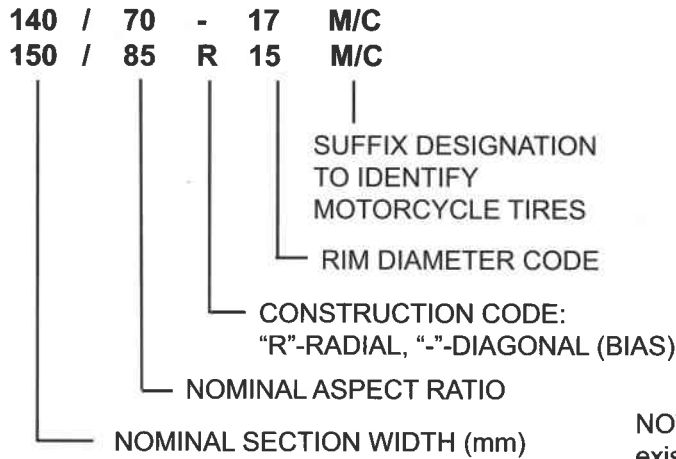
COLD INFLATION PRESSURES

The inflation pressures shown in this section are those taken with the tires at the prevailing atmospheric temperatures and do not include any inflation pressure build-up due to vehicle operation.

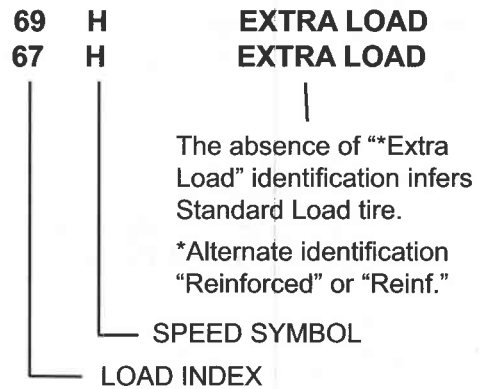
DEFINITION OF "NEW TIRE DIMENSIONS" AND "MEASURING PROCEDURE" (SEE PAGES XII AND XIII)

MOTORCYCLE TIRES EXPLANATION OF TIRE DESIGNATION

METRIC MOTORCYCLE TIRES TIRE SIZE DESIGNATION

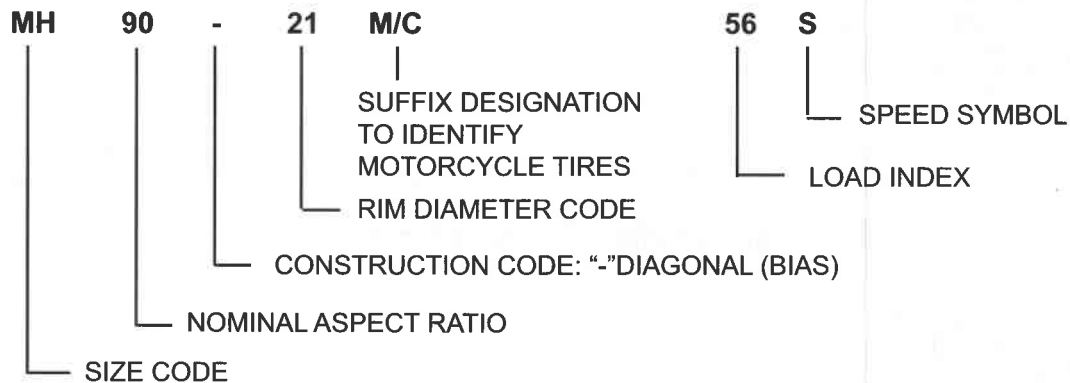


OPTIONAL SERVICE DESCRIPTION LOAD IDENTIFICATION



NOTE: An "M" prefix may appear on certain existing sizes to indicate a motorcycle tire.

ALPHA-NUMERIC MOTORCYCLE TIRES



SELECTION OF TIRES FOR CYCLES AND DEFINITION OF TERMS TIRE AND RIM ASSOCIATION STANDARD

TIRE SELECTION

Selection of size and load range (and/or ply rating) is based on the highest individual wheel load. Refer to appropriate load/inflation tables (and General Data Tables for tire dimensions). Refer to vehicle manufacturers for clearances.

DEFINITION OF TERMS

M/C (suffix) Designation - identifies tires and rims for motorcycles.

TIRE TYPES

Motorcycle Tires - Tires used on rims of 14 diameter code and larger used on motorized two or three-wheeled vehicles.

RIM SELECTION

See Page 8-03

DEFINITIONS AND OPTIONAL SPEED SYMBOLS FOR MOTORCYCLE TIRES

TIRE AND RIM ASSOCIATION STANDARD

DEFINITIONS

Service Description - A service designation, which is distinct from the size designation, consisting of the Load Index and Speed Symbol.

Load Index - A numerical code associated with the maximum load a tire can carry at the speed indicated by its Speed Symbol under specified service conditions.

Speed Symbol - A symbol indicating the speed category at which the tire can carry a load corresponding to its Load Index under specified service conditions.

Speed Category - A category assigned to a tire which denotes the maximum speed for which the use of the tire is rated.

SPEED SYMBOL	SPEED CATEGORY	OPEN-ENDED SPEED CATEGORY
S	180 km/h (112 mph)	
H	210 km/h (130 mph)	
V	240 km/h (149 mph)	
	Above 240 km/h (149 mph)	*ZR

* For tires having a maximum speed capability above 240 km/h (149 mph), a "ZR" must appear in the size designation. Consult tire manufacturer for maximum speed when there is no Service Description.

Example: **TIRE DESIGNATION** **MAXIMUM SPEED**

M160/70-17 72H 210 km/h (130 mph)

M160/60ZR17 Above 240 km/h (149 mph); consult tire manufacturer

LOAD ADJUSTMENT FOR SPEED FOR "V" SPEED SYMBOL MOTORCYCLE TIRES

SPEED CAPABILITY OF VEHICLE	ADJUSTMENT TO MAXIMUM TIRE LOAD
210 km/h (130 mph)	100%
220 km/h (137 mph)	95%
230 km/h (143 mph)	90%
240 km/h (149 mph)	85%

LOAD ADJUSTMENT FOR SPEED FOR "ZR" SPEED CATEGORY MOTORCYCLE TIRES

SPEED CAPABILITY OF VEHICLE	ADJUSTMENT TO MAXIMUM TIRE LOAD
240 km/h (149 mph)	100%
250 km/h (155 mph)	95%
260 km/h (162 mph)	85%
270 km/h (168 mph)	75%

METRIC MOTORCYCLE TIRES
TABLE - MM1A TIRE AND RIM ASSOCIATION STANDARD

TIRE SIZE DESIGNATION	MAXIMUM TIRE LOAD LIMITS (kg/lbs.) AT SPECIFIED COLD INFLATION PRESSURES (kPa/psi)					
	STANDARD LOAD (LOAD RANGE B)			EXTRA LOAD (LOAD RANGE C)		
	S - 250 kPa (36 psi) H - 280 kPa (41 psi) V - 290 kPa (42 psi) ZR - 290 kPa (42 psi)		LOAD INDEX	290 kPa (42 psi)		LOAD INDEX
	kg	lbs.		kg	lbs.	
"30 SERIES"						
330/30-17 M/C	545	1201	87			
"35 SERIES"						
300/35-18 M/C	545	1201	87			
"40 SERIES"						
250/40R18M/C	462	1019	81			
300/40-17 M/C	600	1323	90			
"50 SERIES"						
190/50R17M/C	365	805	73			
"55 SERIES"						
180/55*17M/C	365	805	73			
180/55*18M/C	375	827	74			
200/55*18M/C	437	963	79			
"60 SERIES"						
120/60*17M/C	218	481	55			
140/60*18M/C	280	617	64			
150/60*17M/C	300	661	66			
160/60*17M/C	325	716	69			
160/60*18M/C	335	739	70			
170/60*17M/C	355	783	72			
170/60*18M/C	365	805	73			
180/60*16M/C	375	827	74			
180/60*17M/C	387	853	75			
200/60*16M/C	437	963	79			
230/60*15M/C	545	1201	87			
"65 SERIES"						
120/65R17M/C	224	494	56	265	584	62
"70 SERIES"						
110/70*17M/C	212	467	54			
120/70*16M/C	230	507	57			
120/70*17M/C	236	520	58			
120/70*18M/C	243	536	59			
120/70*19M/C	250	551	60			
120/70*21M/C	265	584	62			
130/70*16M/C	257	567	61			
130/70*17M/C	265	584	62			
130/70*18M/C	272	600	63	325	716	69
140/70*17M/C	300	661	66			
140/70*18M/C	307	677	67			
150/70*17M/C	325	716	69			
150/70*18M/C	335	739	70			
160/70*17M/C	365	805	73	437	963	79
180/70*16M/C	412	908	77			

*Tire size designation will include "-" (Bias Ply) or "R" (Radial Ply)

NOTE: An "M" prefix letter is optional as part of the size designation.

METRIC MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD

TABLE - MM1A (continued)

TIRE SIZE DESIGNATION	MAXIMUM TIRE LOAD LIMITS (kg/lbs.) AT SPECIFIED COLD INFLATION PRESSURES (kPa/psi)					
	STANDARD LOAD (LOAD RANGE B)			EXTRA LOAD (LOAD RANGE C)		
	S - 250 kPa (36 psi) H - 280 kPa (41 psi) V - 290 kPa (42 psi) ZR - 290 kPa (42 psi)		LOAD INDEX	290 kPa (42 psi)		LOAD INDEX
	kg	lbs.		kg	lbs.	
"80 SERIES"						
110/80*17M/C	230	507	57			
110/80*18M/C	236	520	58			
110/80*19M/C	243	536	59			
120/80*16M/C	250	551	60			
120/80*17M/C	257	567	61			
120/80*18M/C	265	584	62			
130/80*16M/C	280	617	64			
130/80*17M/C	290	639	65			
130/80*18M/C	300	661	66			
140/80*15M/C	300	661	66	355	783	72
140/80*16M/C	315	694	68			
140/80*17M/C	325	716	69			
150/80*16M/C	345	761	71	412	908	77
150/80*18M/C	365	805	73			
160/80*15M/C	375	827	74	437	963	79
160/80*16M/C	387	853	75	450	992	80
170/80*15M/C	412	908	77	475	1047	82
"90 SERIES"						
80/90*21M/C	180	397	48			
90/90*18M/C	195	430	51			
90/90*19M/C	200	441	52			
90/90*21M/C	212	467	54			
100/90*16M/C	212	467	54			
100/90*18M/C	224	494	56			
100/90*19M/C	230	507	57			
110/90*16M/C	243	536	59			
110/90*18M/C	257	567	61	307	677	67
110/90*19M/C	265	584	62			
120/90*16M/C	280	617	64			
120/90*18M/C	290	639	65	345	761	71
130/90*16M/C	307	677	67	365	805	73
130/90*17M/C	315	694	68	375	827	74
130/90*18M/C	325	716	69			
140/90*15M/C	335	739	70	400	882	76
140/90*16M/C	345	761	71	412	908	77
150/90*15M/C	375	827	74	437	963	79

*Tire size designation will include "-" (Bias Ply) or "R" (Radial Ply)

NOTE: An "M" prefix letter is optional as part of the size designation.

METRIC MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD
GENERAL DATA

Millimeters
Inches

TIRE SIZE DESIGNATION	DESIGN RIM WIDTH	DESIGN NEW TIRE		**MAXIMUM GROWN TIRE		TR TUBE VALVE
		SECTION WIDTH	OVERALL DIAMETER	OVERALL WIDTH	OVERALL DIAMETER	
"30 SERIES"						
330/30-17M/C	11.50	328	630	361	644	4
		12.91	24.80	14.21	25.35	
"35 SERIES"						
300/35-18M/C	10.50	299	667	329	382	4
		11.77	26.26	12.95	26.85	
"40" SERIES						
250/40R18M/C	9.00	251	657	276	671	4
		9.88	25.87	10.87	26.42	
300/40-17M/C	10.50	299	672	329	689	4
		11.77	26.46	12.95	27.13	
"50" SERIES						
190/50R17M/C	6.00	190	622	209	636	4
		7.48	24.49	8.23	25.04	
"55" SERIES						
180/55*17M/C	5.50	178	630	196	644	4
		7.01	24.80	7.72	25.35	
180/55*18M/C	5.50	178	655	196	669	4
		7.01	25.79	7.72	26.34	
200/55*18M/C	6.50	202	677	222	693	4
		7.95	26.65	8.74	27.28	
"60" SERIES						
120/60*17M/C	3.50	122	576	134	586	4
		4.80	22.68	5.28	23.07	
140/60*18M/C	3.75	139	625	153	637	4
		5.47	24.61	6.02	25.08	
150/60*17M/C	4.00	149	612	164	624	4
		5.87	24.09	6.46	24.57	
160/60*17M/C	4.50	161	624	177	638	4
		6.34	24.57	6.97	25.12	
160/60*18M/C	4.50	161	649	177	663	4
		6.34	25.55	6.97	26.10	
170/60*17M/C	4.50	168	636	185	650	4
		6.61	25.04	7.28	25.6	
170/60*18M/C	4.50	168	661	185	675	4
		6.61	26.02	7.28	26.57	
180/60*16M/C	5.00	180	622	198	638	15,13, ***4
		7.09	24.49	7.80	25.12	
180/60*17M/C	5.00	180	648	198	664	4
		7.09	25.52	7.80	26.14	
200/60*16M/C	5.50	200	646	220	662	15,13, ***4
		7.87	25.43	8.66	26.06	
230/60*15M/C	6.50	232	657	255	677	4
		9.13	25.87	10.04	26.65	

(continued)

METRIC MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD
GENERAL DATA

Millimeters
Inches

TIRE SIZE DESIGNATION	DESIGN RIM WIDTH	DESIGN NEW TIRE		**MAXIMUM GROWN TIRE		TR TUBE VALVE
		SECTION WIDTH	OVERALL DIAMETER	OVERALL WIDTH	OVERALL DIAMETER	
"65" SERIES						
120/65R17M/C	3.50	122	588	135	602	4
		4.80	23.15	5.31	23.70	
"70" SERIES						
110/70*17M/C	3.00	110	586	121	596	4
		4.33	23.07	4.76	23.46	
120/70*16M/C	3.50	122	574	134	586	15, 13, ***4
		4.80	22.6	5.28	23.07	
120/70*17M/C	3.50	122	600	134	612	4
		4.80	23.62	5.28	24.09	
120/70*18M/C	3.50	122	625	134	637	4
		4.80	24.61	5.28	25.08	
120/70*19M/C	3.50	122	651	134	663	4
		4.80	25.63	5.28	26.10	
120/70*21M/C	3.50	122	701	134	713	4
		4.80	27.60	5.28	28.07	
130/70*16M/C	3.50	129	588	142	600	15, 13, ***4
		5.08	23.15	5.59	23.62	
130/70*17M/C	3.50	129	614	142	626	4
		5.08	24.17	5.59	24.65	
130/70*18M/C	3.50	129	639	142	651	4
		5.08	25.16	5.59	25.63	
140/70*17M/C	4.00	141	628	155	642	4
		5.55	24.72	6.10	25.28	
140/70*18M/C	4.00	141	653	155	667	4
		5.55	25.71	6.10	26.26	
150/70*17M/C	4.00	149	642	164	656	4
		5.87	25.28	6.46	25.83	
150/70*18M/C	4.00	149	667	164	681	4
		5.87	26.26	6.46	26.81	
160/70*17M/C	4.50	161	656	177	672	4
		6.34	25.83	6.97	26.46	
180/70*16M/C	5.00	180	658	198	676	15, 13, ***4
		7.09	25.91	7.80	26.61	

(continued)

METRIC MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD
GENERAL DATA

Millimeters
Inches

TIRE SIZE DESIGNATION	DESIGN RIM WIDTH	DESIGN NEW TIRE		**MAXIMUM GROWN TIRE		TR TUBE VALVE
		SECTION WIDTH	OVERALL DIAMETER	OVERALL WIDTH	OVERALL DIAMETER	
"80" SERIES						
110/80*17M/C	2.50	109	608	121	624	4
		4.29	23.94	4.76	24.56	
110/80*18M/C	2.50	109	633	121	649	4
		4.29	24.92	4.76	25.55	
110/80*19M/C	2.50	109	659	120	671	4
		4.29	25.94	4.72	26.42	
120/80*16M/C	2.75	119	594	132	616	4
		4.69	23.39	5.20	24.25	
120/80*17M/C	2.75	119	624	132	642	4
		4.69	24.57	5.20	25.28	
120/80*18M/C	2.75	119	649	132	667	4
		4.69	25.55	5.20	26.27	
130/80*16M/C	3.00	129	614	143	632	15, 13, ***4
		5.09	24.17	5.63	24.88	
130/80*17M/C	3.00	129	640	144	659	4
		5.09	25.20	5.65	25.94	
130/80*18M/C	3.00	129	665	143	683	4
		5.09	26.18	5.63	26.89	
140/80*15M/C	3.50	142	605	157	625	4
		5.58	23.82	6.19	24.61	
140/80*16M/C	3.50	142	630	156	646	15, 13, ***4
		5.59	24.80	6.14	25.43	
140/80*17M/C	3.50	142	656	158	676	4
		5.59	25.83	6.22	26.61	
150/80*16M/C	3.50	150	646	166	668	15, 13, ***4
		5.89	25.43	6.54	26.28	
150/80*18M/C	3.50	150	697	166	719	4
		5.89	27.44	6.54	28.29	
160/80*15M/C	3.75	160	637	178	660	4
		6.30	25.08	7.01	25.99	
160/80*16M/C	3.75	160	662	178	685	15, 13, ***4
		6.30	26.06	7.01	26.97	
170/80*15M/C	4.00	170	653	189	677	4
		6.69	25.71	7.43	26.67	

(continued)

METRIC MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD
GENERAL DATA

Millimeters (mm)
 Inches (ins.)

TIRE SIZE DESIGNATION	DESIGN RIM WIDTH	DESIGN NEW TIRE		**MAXIMUM GROWN TIRE		TR TUBE VALVE
		SECTION WIDTH	OVERALL DIAMETER	OVERALL WIDTH	OVERALL DIAMETER	
"90 SERIES"						
80/90*21M/C	1.85	80	677	88	687	4
		3.15	26.65	3.46	27.05	
90/90*18M/C	2.15	90	619	99	631	4
		3.54	24.37	3.90	24.84	
90/90*19M/C	2.15	90	645	99	659	4
		3.55	25.39	3.90	25.94	
90/90*21M/C	2.15	90	695	99	707	4
		3.54	27.36	3.90	27.83	
100/90*16M/C	2.50	101	586	113	602	15, 13, ***4
		3.99	23.06	4.43	23.7	
100/90*18M/C	2.50	101	637	113	653	4
		3.99	25.07	4.43	25.71	
100/90*19M/C	2.50	101	663	112	679	4
		3.99	26.10	4.41	26.73	
110/90*16M/C	2.50	109	604	120	618	15, 13, ***4
		4.29	23.78	4.72	24.33	
110/90*18M/C	2.50	109	655	120	673	4
		4.29	25.79	4.72	26.50	
110/90*19M/C	2.50	109	681	120	699	4
		4.29	26.82	4.72	27.52	
120/90*16M/C	2.75	119	648	131	664	15, 13, ***4
		4.69	25.51	5.16	26.14	
120/90*18M/C	2.75	119	673	132	693	4
		4.69	26.49	5.20	27.28	
130/90*16M/C	3.00	129	640	143	662	15, 13, ***4
		5.09	25.20	5.63	26.06	
130/90*17M/C	3.00	129	666	143	688	4
		5.09	26.22	5.63	27.09	
130/90*18M/C	3.00	129	691	143	713	4
		5.09	27.21	5.63	28.07	
140/90*15M/C	3.50	142	633	158	655	4
		5.58	24.92	6.22	25.79	
140/90*16M/C	3.50	142	658	158	680	15, 13, ***4
		5.58	25.9	6.22	26.77	
150/90*15M/C	3.50	150	651	167	675	4
		5.91	25.63	6.58	26.58	

* Tire size designation will include "-" (Bias Ply) or "R" (Radial Ply).

** Maximum dimensions for grown tires in service for use by vehicle manufacturers in designing for tire clearances. See pages 7-15 and 7-16 for maximum dynamic grown tire dimensions.

*** TR 4 tube valve to be used only in rims with .327/.339 rim hole.

NOTES 1: Refer to pages XII and XIII for New Tire Measuring Procedure and Definition of Terms.

2: Rim valves for tubeless operation are shown in Section 8.

3: Tube size designation same as tire size designation.

4: An M prefix is optional and may appear on certain existing tires.

MOTORCYCLE TIRES**"90, 85 SERIES"****TIRE AND RIM ASSOCIATION STANDARD****TABLE MC-4**

TIRE SIZE	TIRE LOAD LIMITS AT VARIOUS COLD INFLATION PRESSURES							
	kPa	175	200	225	250	LOAD INDEX	275	LOAD INDEX
	psi	25	29	33	36		40	
90 SERIES								
MH90-21M/C	kg	165	180	195	212 (B)	54	224 (C)	56
	lbs.	364	397	430	467 (B)		494 (C)	
MJ90-19M/C	kg	175	195	210	224 (B)	56		
	lbs.	386	430	463	494 (B)			
MM90-18M/C	kg	195	215	230	250 (B)	60		
	lbs.	430	474	507	551 (B)			
MM90-19M/C	kg	205	225	245	257 (B)	61		
	lbs.	452	496	540	567 (B)			
MR90-18M/C	kg	275	300	325	345 (B)	71		
	lbs.	606	661	716	761 (B)			
MT90-16M/C	kg	280	305	330	355 (B)	72	375 (C)	74
	lbs.	617	672	728	783 (B)		827 (C)	
MT90-17M/C	kg	290	320	345	375 (B)	74	400 (C)	76
	lbs.	639	705	761	827 (B)		882 (C)	
MU90-15M/C	kg	300	325	355	375 (B)	74	400 (C)	76
	lbs.	661	716	783	827 (B)		882 (C)	
MU90-16M/C	kg	310	340	370	400 (B)	76	425 (C)	78
	lbs.	683	750	816	882 (B)		937 (C)	
MV90-15M/C	kg	325	355	385	412 (B)	77	437 (C)	79
	lbs.	716	783	849	908 (B)		963 (C)	
85 SERIES								
MP85-18M/C	kg	235	255	280	300 (B)	66		
	lbs.	518	562	617	661 (B)			
MU85-16M/C	kg	300	330	360	387 (B)	75	412 (C)	77
	lbs.	661	728	794	853 (B)		908 (C)	
MV85-15M/C	kg	305	335	360	387 (B)	75	412 (C)	77
	lbs.	672	739	794	853 (B)		908 (C)	

- NOTES 1: Letters in parentheses denote Load Range for which Bold Face loads are maximum.
 2: For special operating conditions, inflation pressure may be increased up to 275 kPa (40 psi) maximum with no increase in load.
 3: For V-rated tires, inflation pressure may be increased up to 290 kPa (42 psi) with no increase in load.

FOR RIM AND WHEEL LOAD INFORMATION, SEE NOTE 3, PAGE 7-13.

MOTORCYCLE TIRES**"90, 85 SERIES"****TIRE AND RIM ASSOCIATION STANDARD**Millimeters
Inches

TIRE SIZE DESIGNATION	DESIGN RIM WIDTH	DESIGN NEW TIRE		*MAXIMUM GROWN TIRE		TR TUBE VALVE
		SECTION WIDTH	OVERALL DIAMETER	OVERALL WIDTH	OVERALL DIAMETER	
90 SERIES						
MH90-21M/C	1.85	80	686	89	700	4
		3.15	27.02	3.50	27.56	
MJ90-19M/C	2.15	89	650	99	665	4
		3.50	25.60	3.89	26.20	
MM90-18M/C	2.15	95	643	106	660	4
		3.75	25.32	4.16	25.98	
MM90-19M/C	2.15	95	669	106	685	4
		3.75	26.32	4.16	26.98	
MR90-18M/C	2.15	114	687	127	708	4
		4.50	27.04	5.00	27.86	
MT90-16M/C	3.00	130	650	144	672	13, 15
		5.10	25.58	5.66	26.44	
MT90-17M/C	3.00	130	675	144	697	4
		5.10	26.58	5.66	27.44	
MU90-15M/C	3.50	142	642	158	665	4
		5.60	25.26	6.22	26.17	
MU90-16M/C	3.50	142	667	158	690	13, 15
		5.60	26.26	6.22	27.17	
MV90-15M/C	3.50	150	651	172	675	4
		5.90	25.62	6.77	26.58	
85 SERIES						
MP85-18M/C	2.15	108	660	120	679	4
		4.25	26.00	4.72	26.72	
MU85-16M/C	3.50	142	658	158	681	13, 15
		5.60	25.92	6.22	26.82	
MV85-15M/C	3.50	150	635	172	658	4
		5.90	25.00	6.77	25.90	

* Maximum dimensions for grown tires in service for use by vehicle manufacturers in designing for tire clearances. See page 7-16 for maximum dynamic grown tire dimensions.

NOTES 1: Refer to pages XII and XIII for New Tire Measuring Procedure and Definition of Terms.

2: Rim valves for tubeless operation are shown in Section 9.

3: Tube size designation same as tire size designation.

APPROVED RIM CONTOURS FOR MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD

TIRE SIZE DESIGNATION	RECOM-MENDED RIM	ALTERNATE RIMS	RIM DIAMETER CODE
ALPHA-NUMERIC MOTORCYCLE TIRES			
MH90-21M/C	WM2/1.85	WM1/1.60, MT1.85, WM3/2.15, MT2.15	21M/C
MJ90-19M/C	WM3/2.15	WM2/1.85, MT1.85, MT2.15, MT2.50	19M/C
MM90-18M/C, MM90-19M/C	WM3/2.15	WM2/1.85, MT1.85, MT2.15, MT2.50	18M/C, 19M/C
MP85-18M/C	WM3/2.15	MT2.15, MT2.50, MT2.75, MT3.00	18M/C
MU85-16M/C	MT3.50	3.50D, 3.00D, MT3.00	16M/C
MR90-18M/C	WM3/2.15	MT2.15, MT2.50, MT2.75, MT3.00	18M/C
MT90-16M/C, MT90-17M/C	MT3.00	MT2.50, MT2.75, 3.00D (16), MT3.50, 3.50D (16)	16M/C, 17M/C
MU90-15M/C, MU90-16M/C	MT3.50	MT2.50, MT2.75, MT3.00	15M/C, 16M/C
MV90-15M/C, MV90-16M/C	MT3.50	MT3.00	15M/C, 16M/C
30 SERIES METRIC MOTORCYCLE TIRES			
330/30-17M/C	MT11.50	MT11.00, MT12.00, MT12.50	17M/C
35 SERIES METRIC MOTORCYCLE TIRES			
300/35-18M/C	MT10.50	MT10.00, MT11.00	18M/C
40 SERIES METRIC MOTORCYCLE TIRES			
250/40R18M/C	MT9.00	MT8.50, MT9.50	18M/C
300/40-17M/C	MT10.50	MT10.00, MT11.00	17M/C
50 AND 55 SERIES METRIC MOTORCYCLE TIRES			
180M/C	MT5.50	*MT5.00, MT6.00	17M/C, 18M/C
190M/C	MT6.00	MT5.50	17M/C
200M/C	MT6.50	MT6.00, MT6.25	18M/C
*Bias Ply only			
60, 65 AND 70 SERIES METRIC MOTORCYCLE TIRES			
110M/C	MT3.00	MT2.50, MT2.75, MT3.50	17M/C
120M/C	MT3.50	MT3.00, MT3.75	16M/C, 17M/C, 18M/C, 19M/C, 21M/C
130M/C	MT3.50	MT3.00, MT3.75, MT4.00	16M/C, 17M/C, 18M/C
140M/C	MT4.00	MT3.50, MT3.75, MT4.50	17M/C, 18M/C
150M/C	MT4.00	MT3.50, MT3.75, MT4.50	17M/C, 18M/C
160M/C	MT4.50	MT3.75, MT4.00, MT5.00	17M/C, 18M/C
170M/C	MT4.50	MT4.00, MT5.00, MT5.50	17M/C, 18M/C
180M/C	MT5.00	MT4.50, MT5.50	16M/C, 17M/C
200M/C	MT5.50	MT 5.00, MT6.00	16M/C
230M/C	MT6.50	MT6.00	15M/C, 16M/C

See notes on page 7-13.

(continued)

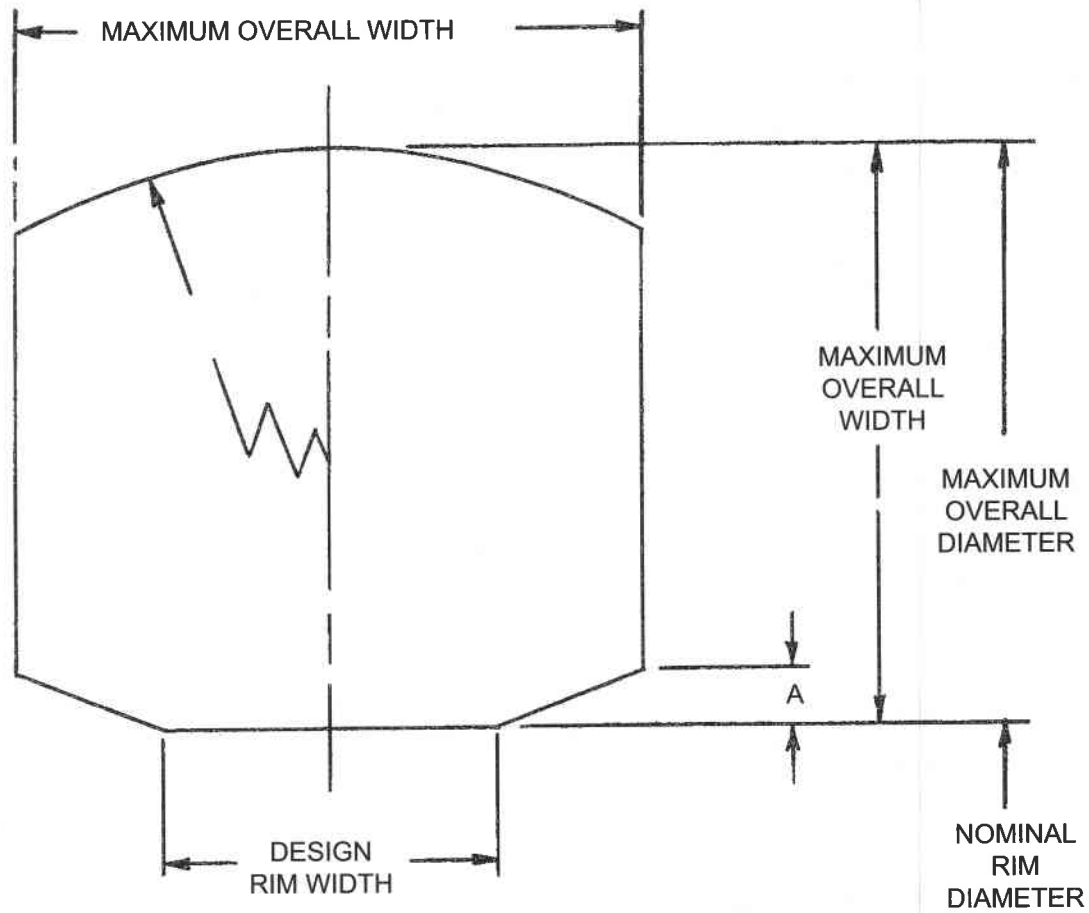
APPROVED RIM CONTOURS FOR MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD

TIRE SIZE DESIGNATION	RECOM-MENDED RIM	ALTERNATE RIMS	RIM DIAMETER CODE
80 AND 90 SERIES METRIC MOTORCYCLE TIRES			
80M/C	MT1.85	WM1/1.60, WM2/1.85, WM3/2.15, MT2.15	21M/C
90M/C	WM3/2.15	WM2/1.85, MT1.85, MT2.15, MT2.50	18M/C, 19M/C, 21M/C
100M/C	MT2.50	WM3/2.15, MT2.15, MT2.75	16M/C, 18M/C, 19M/C
110M/C	MT2.50	WM3/2.15, MT2.15, MT2.75, MT3.00	16M/C, 17M/C, 18M/C, 19M/C
120M/C	MT2.75	MT2.50, MT3.00	16M/C, 17M/C, 18M/C
130M/C	MT3.00	MT2.50, MT2.75, 3.00D(16), 3.50D(16), MT3.50	16M/C, 17M/C, 18M/C
140M/C	MT3.50	MT2.75, MT3.00, 3.00D(16), 3.50D(16), MT3.75	15M/C, 16M/C, 17M/C
150M/C	MT3.50	MT3.00, 3.00D(16), MT3.75, MT4.00	15M/C, 16M/C, 18M/C
160M/C	MT3.75	MT3.50, MT4.00, MT4.50	15M/C, 16M/C
170M/C	MT4.00	MT3.50, MT3.75, MT4.50	15M/C

- NOTES 1: "TL" rims may be used where "MT" are specified.
- 2: 2.15 TLA (21M/C only) and 2.50 TLA (19M/C only) may be used wherever MT2.15 and MT2.50 are shown respectively in above table.
- 3: **IMPORTANT** - Rim dimensions are standardized by The Tire and Rim Association for size and contour only, and particular tire and rim combinations are designated to assure proper mounting and fit of the tire to the rim. The load and cold inflation pressure imposed on the rim and wheel must not exceed the rim and wheel manufacturer's recommendations even though the tire may be approved for a higher load or inflation. Rims and wheels may be identified (stamped) with a maximum load or inflation. For rims and wheels not so identified or for service conditions exceeding the rated capacities, consult the rim and wheel manufacturers to determine rim and wheel capacities for intended service.

**DEFINITION OF MAXIMUM ENVELOPE DIMENSIONS
FOR GROWN TIRES IN SERVICE FOR USE BY VEHICLE MANUFACTURERS
IN DESIGNING FOR THE CLEARANCES**

TIRE AND RIM ASSOCIATION STANDARD



R = 100% MAXIMUM OVERALL WIDTH
A = 10% OF MAXIMUM SECTION HEIGHT

NOTE: See General Data Tables for specific tire dimensions.

**BIAS AND RADIAL PLY
MAXIMUM DYNAMIC GROWN TIRE OVERALL DIAMETERS
FOR METRIC SPEED RATED MOTORCYCLE TIRES
TIRE AND RIM ASSOCIATION STANDARD**

Millimeters
(Inches)

TIRE SIZE DESIGNATION	MAXIMUM DYNAMIC GROWN TIRE DIAMETER			
	SPEED SYMBOL LESS THAN S	S SPEED RATED	H SPEED RATED	V SPEED RATED
330/30-17M/C	644	650	656	662
	25.35	25.59	25.83	26.06
330/35-18M/C	682	688	694	701
	26.85	27.09	27.32	27.60
250/40R15M/C	671	677	683	689
	26.42	26.65	26.89	27.13
300/40-17M/C	689	696	703	710
	27.13	27.40	27.68	27.95
190/50R17M/C	635	641	647	652
	25.00	25.24	25.47	25.67
180/55*18M/C	669	675	681	687
	26.34	26.57	26.81	27.05
200/55*18M/C	692	699	706	712
	27.24	27.52	27.80	28.03
120/60*17M/C	586	590	595	599
	23.07	23.23	23.43	23.58
140/60*18M/C	637	642	647	652
	25.08	25.28	25.47	25.67
150/60*17M/C	625	630	635	641
	24.61	24.80	25.00	25.24
160/60*17M/C	637	643	649	655
	25.08	25.31	25.55	25.79
160/60*18M/C	662	668	674	680
	26.06	26.30	26.54	26.77
170/60*17M/C	650	656	663	669
	25.59	25.83	26.10	26.34
170/60*18M/C	675	681	688	694
	26.57	26.81	27.09	27.32
180/60*16M/C	637	644	650	657
	25.08	25.35	25.59	25.87
200/60*16M/C	663	670	677	684
	26.10	26.38	26.65	26.93
230/60*15M/C	676	685	693	701
	26.61	26.97	27.28	27.60
110/70*17M/C	597	601	606	611
	23.50	23.66	23.86	24.06
120/70*16M/C	586	591	596	601
	23.07	23.27	23.46	23.66
120/70*17M/C	612	617	622	627
	24.09	24.29	24.49	24.69
120/70*18M/C	637	642	647	652
	25.08	25.28	25.47	25.67
120/70*19M/C	663	668	673	678
	26.10	26.30	26.50	26.69
120/70-21M/C	713	718	723	728
	28.07	28.27	28.46	28.66
130/70*16M/C	601	606	612	617
	23.66	23.86	24.09	24.29
130/70*17M/C	627	632	638	643
	24.69	24.88	25.12	25.31

TIRE SIZE DESIGNATION	MAXIMUM DYNAMIC GROWN TIRE DIAMETER			
	SPEED SYMBOL LESS THAN S	S SPEED RATED	H SPEED RATED	V SPEED RATED
130/70*18M/C	652	657	663	668
	25.67	25.87	26.10	26.30
140/70*17M/C	642	648	653	659
	25.28	25.51	25.71	25.94
140/70*18M/C	667	673	678	684
	26.26	26.50	26.69	26.93
150/70*17M/C	657	663	669	676
	25.87	26.10	26.34	26.61
150/70*18M/C	682	688	694	701
	26.85	27.09	27.32	27.60
160/70*17M/C	672	678	685	692
	26.46	26.69	26.97	27.24
110/80*17M/C	620	626	631	636
	24.41	24.65	24.84	25.04
110/80*18M/C	645	651	656	661
	25.39	25.63	25.83	26.02
110/80*19M/C	671	677	682	687
	26.42	26.65	26.85	27.05
120/80*16M/C	611	617	623	629
	24.06	24.29	24.53	24.76
120/80*17M/C	637	643	649	655
	25.08	25.31	25.55	25.79
120/80*18M/C	662	668	674	680
	26.06	26.30	26.54	26.77
130/80*16M/C	629	635	641	647
	24.76	25.00	25.24	25.47
130/80*17M/C	655	661	667	673
	25.79	26.02	26.26	26.50
160/80*18M/C	680	686	692	698
	26.77	27.01	27.24	27.48
140/80*15M/C	621	627	634	641
	24.45	24.69	24.96	25.24
140/80*16M/C	646	652	659	666
	25.43	25.67	25.94	26.22
140/80*17M/C	672	678	685	692
	26.46	26.69	26.97	27.24
150/80*16M/C	663	670	677	684
	26.10	26.38	26.65	26.93
150/80*18M/C	714	721	728	735
	28.11	28.39	28.66	28.94
160/80*15M/C	655	663	670	678
	25.79	26.10	26.38	26.69
160/80*16M/C	680	688	695	703
	26.77	27.09	27.36	27.68
170/80*15M/C	672	680	688	697
	26.46	26.77	27.09	27.44

(continued)

* Tire size will include "-" (Bias Ply) or "R" (Radial Ply).

NOTE: For maximum dynamic grown dimensions for ZR tires, consult tire manufacturer.

**BIAS AND RADIAL PLY
MAXIMUM DYNAMIC GROWN TIRE OVERALL DIAMETERS
FOR METRIC SPEED RATED AND ALPHA-NUMERIC MOTORCYCLE TIRES**
TIRE AND RIM ASSOCIATION STANDARD

Millimeters
(Inches)

TIRE SIZE DESIGNATION	MAXIMUM DYNAMIC GROWN TIRE DIAMETER			
	SPEED SYMBOL LESS THAN S	S SPEED RATED	H SPEED RATED	V SPEED RATED
80/90*21M/C	687	691	696	700
	27.05	27.20	27.40	27.56
90/90*18M/C	630	635	640	645
	24.80	25.00	25.20	25.39
90/90*19M/C	656	661	666	671
	25.83	26.02	26.22	26.42
90/90*21M/C	706	711	716	721
	27.80	27.99	28.19	28.39
100/90*16M/C	599	604	609	615
	23.58	23.78	23.98	24.21
100/90*18M/C	650	655	660	666
	25.59	25.79	25.98	26.22
100/90*19M/C	676	681	686	692
	26.61	26.81	27.01	27.24
110/90*16M/C	618	624	630	636
	24.33	24.57	24.80	25.04
110/90*18M/C	669	675	681	687
	26.34	26.57	26.81	27.05
110/90*19M/C	695	701	707	713
	27.36	27.60	27.83	28.07
120/90*16M/C	637	644	650	657
	25.08	25.35	25.59	25.87
120/90*18M/C	688	695	701	708
	27.09	27.36	27.60	27.87
130/90*16M/C	656	663	670	677
	25.93	26.10	26.38	26.65
130/90*17M/C	682	689	696	703
	26.85	27.13	27.40	27.68
130/90*18M/C	707	714	721	728
	27.83	28.11	28.39	28.66
140/90*15M/C	651	658	666	673
	25.63	25.91	26.22	26.50
140/90*16M/C	676	683	691	698
	26.61	26.89	27.20	27.48
150/90*15M/C	670	678	686	694
	26.38	26.69	27.01	27.32

TIRE SIZE DESIGNATION	MAXIMUM DYNAMIC GROWN TIRE DIAMETER			
	SPEED SYMBOL LESS THAN S	S SPEED RATED	H SPEED RATED	V SPEED RATED
MH90-21M/C	697	702	706	711
	27.44	27.62	27.80	27.98
MJ90-19M/C	662	667	672	677
	26.06	26.26	26.46	26.66
MM90-18M/C	656	662	667	673
	25.83	26.05	26.27	26.49
MM90-19M/C	681	687	693	698
	26.83	27.05	27.27	27.49
MR90-18M/C	703	710	717	724
	27.67	27.94	28.22	28.49
MT90-16M/C	667	678	681	689
	26.25	26.54	26.83	27.11
MT90-17M/C	692	700	707	714
	27.25	27.54	27.83	28.11
MU90-15M/C	660	668	675	683
	25.98	26.29	26.59	26.90
MU90-19M/C	685	693	701	709
	26.98	27.29	27.59	27.90
MV90-15M/C	670	678	686	694
	26.36	26.68	27.00	27.32
MP85-18M/C	675	681	687	693
	26.56	26.80	27.04	27.28
MU85-16M/C	676	684	691	699
	26.61	26.91	27.21	27.51
MV85-15M/C	653	660	668	676
	25.70	26.00	26.30	26.60

* Tire size will include "." (Bias Ply) or "R" (Radial Ply).

NOTE: For maximum dynamic grown dimensions for ZR tires, consult tire manufacturer.