

TECHNICAL DATA

	B25R	B25SS	B25T	B25MX	B50R	B50SS	B50T	B50MX
	Gold	Gold	Victor	Victor	Gold	Gold	Victor	Victor
	Star	Star			Star	Star		
	250	250SS	250	250MX	500	500SS	500	500MX
MOTOR :								
Cylinder bore (mm.) . .	67	67	67	67	84	84	84	84
Stroke (mm.)	70	70	70	70	90	90	90	90
Capacity (cm ³) . .	247	247	247	247	499	499	499	499
(cu.in,) ..	15	15	15	15	30.5	30.5	30.5	30.5
Compression ratio ..	10	10	10	10	10	10	10	10
Valve timing at .015" clearance :								
intake opens b.t.d.c. . .	51	51	51	51	51	51	51	51
intake closes a.b.d.c. . .	68	68	68	68	68	68	68	68
exhaust opens b.b.d.c, . .	78	78	78	78	78	78	78	78
exhaust closes a.t.d.c. . .	37	37	37	37	37	37	37	37
Valve clearances:								
intake (in.)	. 008 (ALL MODELS)							
intake (mm.)	0.2 (ALL MODELS)							
exhaust (in.)	. 010 (ALL MODELS)							
exhaust (mm.)	0.25 (ALL MODELS)							
Spark plug :								
type . .	N3	N3	N3	N4	N4	N4	N3	N3
gap . .	0.020-.025" (0.5-0.65 mm.) ALL MODELS							
Spark timing, degrees fully advanced . .								
Contact breaker gap . . .	37	37	37	37	30	30	30	30
Maximum safe r.p.m. . .	.015" (0.38 mm.) ALL MODELS							
	8,500	8,500	8,500	8,500	7 000	7,000	7,000	7,000
SPROCKETS, CHAINS, RATIOS :								
Gear ratios :								
high . .	6.92	6.92	7.35	9.05	5.13	5.13	6.45	6.92
third ,.	8.60	8.60	9.14	11.25	6.38	6.38	8.03	8.60
second ,.	11.35	11.35	12.06	14.83	8.42	8.42	10.58	11.35
first ,.	18.33	18,33	19.48	19.7	13.6	13.6	17.1	15.04
Chain sizes :								
Front	3/8" pitch (duplex) ALL MODELS							
rear	5/8" pitch x 1/4" wide (ALL MODELS)							
Teeth on:								
motor spkt. 23T	23T	23T	23T	23T	28T	28T	28T	28T
Transmission								
(g/box)spkt.17T	17T	16T	14T	17T	17T	15T	14T	
clutch spkt.52T	52T	52T	52T	52T	52T	52T	52T	
rear chain-wheel ..								
	52T	52T	52T	56T	47T	47T	52T	52T

TECHNICAL DATA-continued

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	Gold	Gold	Victor	Victor	Gold	Gold	Victor	Victor
	Star	Star			Star	Star		
	250	250SS	250	250MX	500	500SS	500	500MX
CAPACITIES :								
Gas (petrol)								
U.S. gallons	3 ¹ / ₂	2 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₄	3 ¹ / ₂	2 ¹ / ₂	2 ¹ / ₂	1 ¹ / ₄
British gall.	3	2	2	1	3	2	2	1
Liters . .	13.5	9	9	4.5	13.5	9	9	4.5
Oil :								
U.S. pints	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄	4 ³ / ₄
British pints	4	4	4	4	4	4	4	4
Liters . .	2.25	2.25	2,25	2.25	2.25	2.25	2.25	2.25
Transmission								
(gearbox) :								
pints . .	1/2 pint (British); 5/8 pint (U.S.A.) ALL MODELS							
cm3 . .	250 cm3 (ALL MODELS)							
Primary chain-								
case :								
pints . .	1/4 pint (British); 1/3 pint (U.S,A.) ALL MODELS							
cm3 . .	140 cm3 ALL MODELS							
Front forks :								
U S. pints	2/5	2/5	2/5	2/5	2/5	2/5	2/5	2/5
British pints	1/3	1/3	1/3	1/3	1/3	1/3	1/3	1/3
cm3 . .	190	190	190	190	190	190	190	190
WHEELS :								
Tire size :								
front . .	3.25x18	3.25x18	3.00x20	3-00x20	3.25x18	3.25x18	3-00x20	3,00x20
rear . .	3.50x18	3.50x18	4.00x18	3.50x18	3.50x18	3.50x18	4.00x18	4.00x18
Tire type :								
front . .	K70	K70	T.U. Sports	K70	K70	T.U.	Sports	Sports
rear . .	K70	K70	T.U. Sports	K70	K70	T.U	Sports	Sports
Tire pressures								
(p.s.i.).								
front (off			10	8	-	-	10	8
road) . .	-	-						
front (on	22	22	-	22	22	22	-	22
road) . .								
rear (off	-	-	14	12	-	-	14	12
road) . .								
rear (on	24	24	24	-	24	24	24	-
road) . .								
Brakes, dia. (in.)								
front . .	8	6	6	6	8	8	6	6
rear . .	7	7	7	7	7	7	7	7

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Star	Star			Star	Star		
250	250SS	250	250MX	500	500SS	500	500MX

GENERAL DETAILS :

Overall length							
in. (cm.) . .	85(216)	85(216)	85(216)	82 ¹ / ₂ (209)	85(216)	85(216)	85(216)
Wheelbase							
in. (cm.) . .	54(137)	54(137)	54(137)	54(137)	54(137)	54(137)	54(137)
Ground clear'ce							
in. (cm.) . .	7(17.8)	7(17.8)	7 ¹ / ₂ (19)	7 ¹ / ₂ (19)	7(17.8)	7(17.8)	7 ¹ / ₂ (19)
Overall width							
in. (cm.) . .	29(73.7)	29(73.7)	29(73.7)	33 ¹ / ₂ (85)	29(73.7)	29(73.7)	33 ¹ / ₂ (85)

Motor number: On left side of crankcase below cylinder base.

Frame number. On left side of front motor lug.

The recommended inflation pressures are based on a rider's weight of 154 lbs. If the rider's weight or additional load in the form of a pillion passenger or luggage exceeds 154 lbs" increase the tire pressure as follows :-

Front Tire:-Add 1 lb. per square inch for every 28 lb. increase above 154 lb.

Rear Tire:-Add 1 lb. per square inch for every 14 lb, increase above 154 lb.