

CB750-3106
CB750E-2223071

HONDA

CB750

SPORTS KIT

SPECIFICATION

AND

MANUAL

HONDA MOTOR CO., LTD.

RSC

OVER HAUL RECORD

	Cylinder Head	Crank Case	Case Mating	Transmission	Check										
Date					2/10	Model CB750									
Sign					B/B	E No 2223671									
						F No 3106									
Compression Ratio				1	2	3	4	5	6						
Ignition Timing				1	2	3	4	5	6						
Valve Timing				2	3	4	5	6							
Tappet Clearance				1	2	3	4	5	6	7	8	9	10	11	12
In				0.15											
Ex				0.15											
Selection of plane bearing (Measured from A.C.G side)															
CASE	YELLOW	YELLOW	GREEN	GREEN	GREEN										
CON ROD	ALL YELLOW														
Remarks															
* Broken in 500 km by using BP															
(We recommend to use _____)															

SPECIFICATION

Comments	Reason

1. Bore \times Stroke (mm) \times Cylinder $61.5 \text{ mm} \times 63.0 \text{ mm} \times 4 = 749 \text{ cc}$
2. Compression ratio $10.5 \sim 10.9$
3. Ignition timing 40° constant
4. Ignition system Ignited by magneto in the order of 1, 2, 4 and 3.
5. Tapet clearance 0.15 mm in cold for both In. & Ex.
6. Valve timing

20°	20°	In.	9.0
45°	45°	Ex.	8.5
		Lift	mm
7. Point gap $0.95 \text{ mm} \sim 0.4 \text{ mm}$
8. Main jet $\# 100 \sim \# 115$
9. Fuel consumption $11 \text{ km} / \text{l}$
10. Tightening torque
 - 1) Cylinder head 2.0 kg-cm
 - 2) Connecting rod 2.0 kg-cm
 - 3) Case (8mm - thread) 2.3 kg-cm
 - 4) Case (6mm - thread) 0.9 kg-cm
11. Body weight 173 kg

Supplemental Information

1. Oil Temperature

1) When outside temperature 28°C

* Oil temperature.....102°C with cooling

* Oil quantity..... 4 liters

Note: When passing the oil in a dried engine, pour first 3 liters in tank and run the engine and ensure oil surface went down, then pour additional one liter of oil.

2) Oil pressure: Ideal oil pressure is 6 kg/cm^2 (85 psi) in normal riding but 3 kg/cm^2 (43 psi) is tolerable. At 3 kg/cm^2 (43 psi), oil temperature would be around 140°C. However, if oil pressure records less than 2.6 kg/cm^2 (40 psi), check oil temperature and oil pump system. At the initial part of running, it may record 7 kg/cm^2 (100 psi) but this is nothing irregular.

2. Breaking in Crankshaft Bearings

Run around 350 km, at the engine revolution of 4,000 r.p.m.

Frame

Part Name	Content
1. Brake on front, right side	Newly provided Use left side assy.
2. Brake	Fitting angle and length changed
3. Master cylinder	Master cylinder sized up for additional brake on right side.
4. Front rim and size	STD 185B-19 → 185B-18 Aluminium
5. Fuel tank	STD Iron 19 liters → Aluminium 28 liters
6. Seat	FRP Body
7. Oil tank	Aluminium 3.5 liters
8. Rear wheel	Aluminium 215 B-15
9. Front fork	Tougher spring Damping force 70~85 kg/cm / 0.5 sec
10. Rear cushion	Strengthen the spring Damper up 170~180 kg/cm / 0.5 sec

MEMO

1. Plain bearing matching and breaking in

1) Matching

Match the bearings to obtain the clearance of
0.035 ~ 0.045mm.

2) Breaking in condition

Run the machine at 4,000rpm for 250km
then, at 5,000 " " 60 "
" " 5,500 " " 60 "
" " 6,000 " " 60 "
" " 7,500 " " 30 "

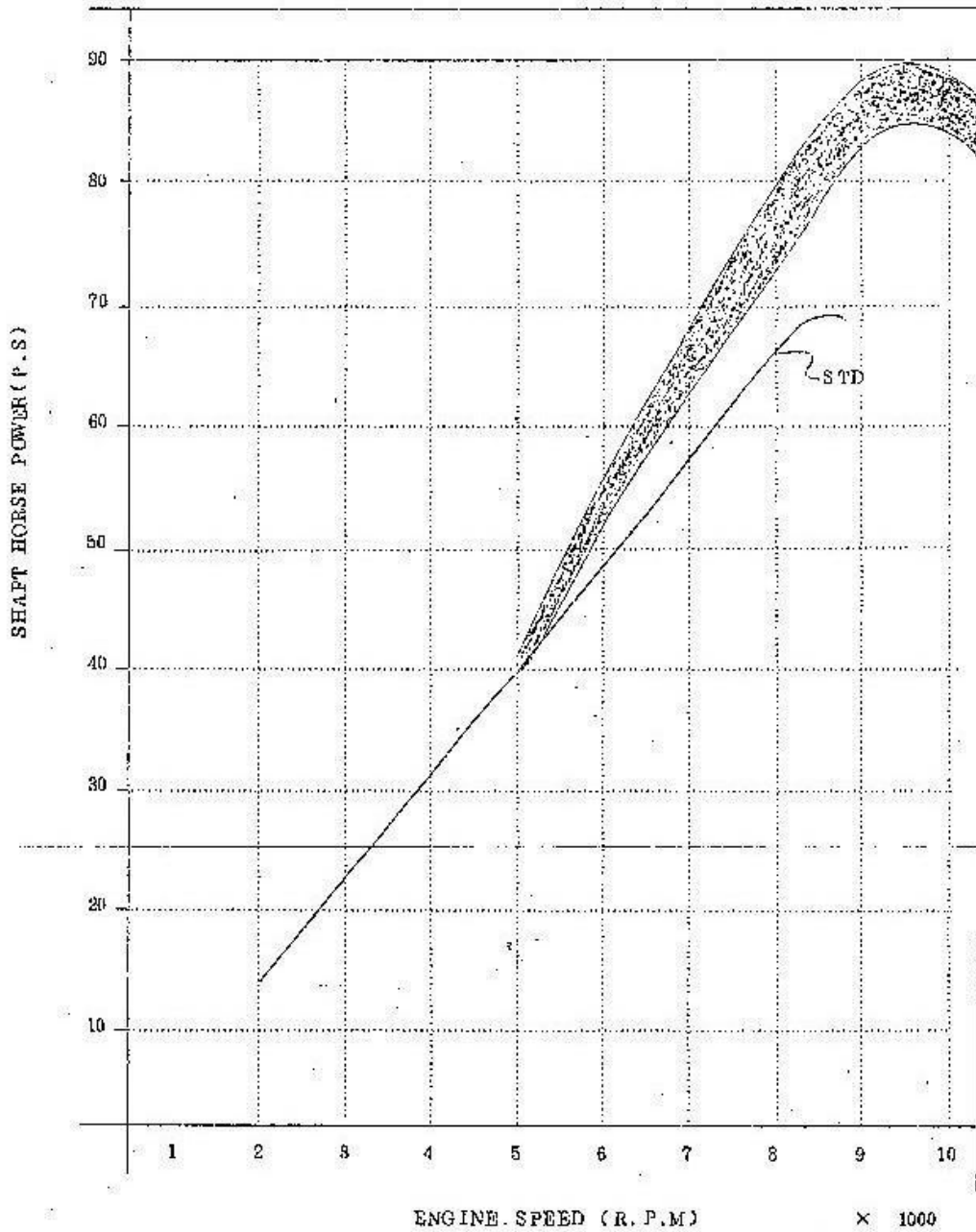
2. Piston, piston ring, and cylinder breaking in

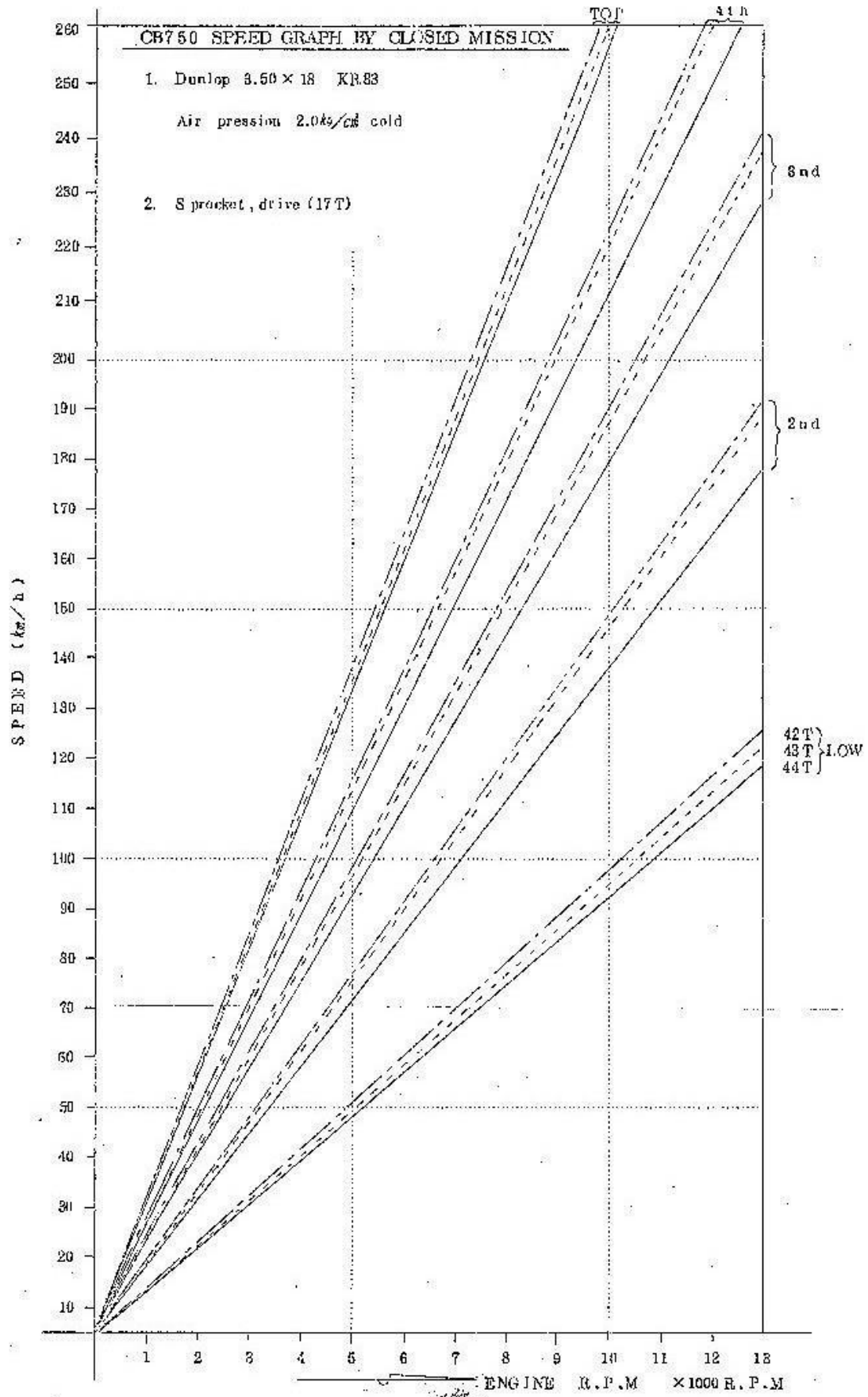
Run the machine at 5,000rpm for 50km
then at 5,500rpm for 150km

3. After the any breaking in, make sure to change oil
and oil cleaner element.

CB750

PERFORMANCE CURVE





SERVICE BULLETIN

HONDA MOTOR CO., LTD.

September 5, 1970

CB750 003

PAGE 1/15

SPORTS KIT FOR CB750

The information contained herein are the performance characteristics, specifications, and the parts list for the CB750 sports kit which will be marketed shortly. By purchasing the various parts of the sports kit the user will be able to configure his motorcycle to his desired performance, and appearance.

The parts price will be introduced in Parts News CB750, No. 0071.

Recommended Replacement Assemblies

1. Amateur (novice) Model

Carburetor	Seat comp.	Step
Front Brake	Handle comp.	Front cushion
Rear Brake	Megaphone muffler	Rear cushion

2. Junior Model

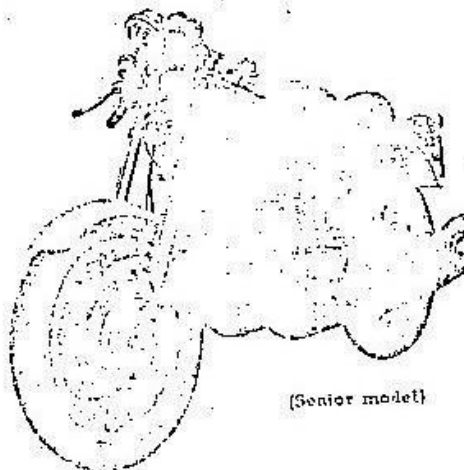
The following assemblies in addition to those listed for the Amateur Model above.

Camsshaft	Crankshaft	Drive chain
Valves	A. C. generator	
Valve spring	Point cam	

3. Senior Model

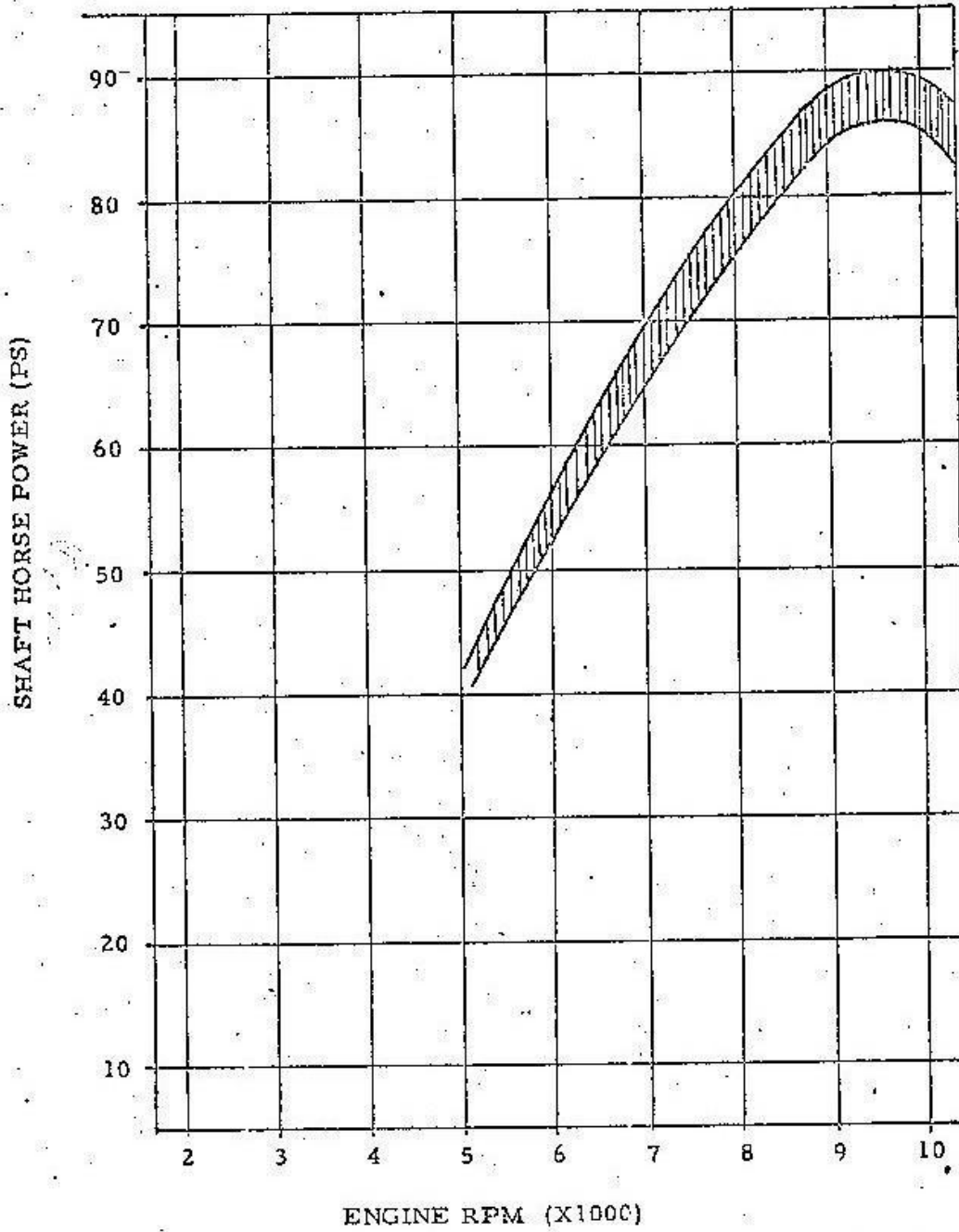
The following assemblies in addition to those listed for the Junior Model.

Cylinder head comp.	Transmission	Piston
Cylinder	Oil cooler comp.	Piston rings



(Senior model)

PERFORMANCE CURVE (Senior model)



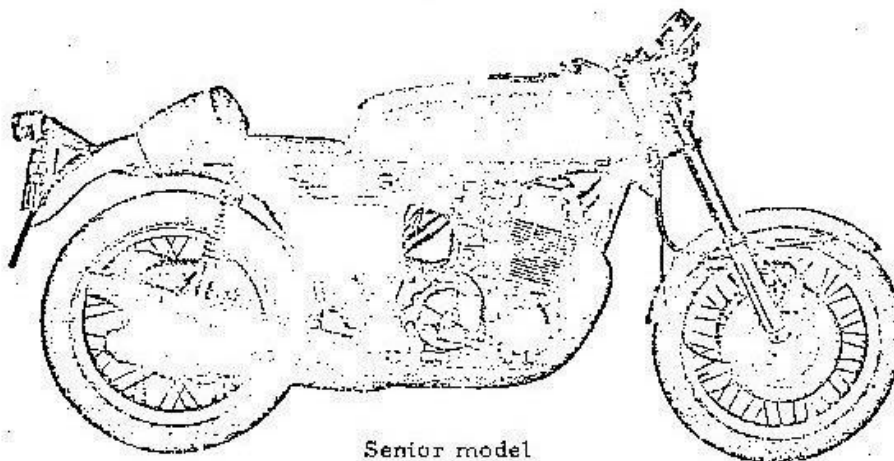
HONDA SPORTS KIT CB750 PARTS LIST

SPECIFICATION AND EFFICIENCY

Item No.	Description	Specification and Efficiency
1	Total displacement	Bore & stroke: 61.5mm x 63mm (2.42 in. x 2.48 in.), 4 cylinders 746.6cc (45.68 cu. in.) (STD 61mm dia. or 2.40 in. dia. 0.5mm or 0.02 in. oversize)
2	Valve timing	<div style="display: flex; justify-content: space-around;"> In open Ex close </div> <div style="text-align: center;"> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Maximum lift In 9.0mm </div> <div style="display: flex; justify-content: space-around;"> Ex 8.5mm </div>
3	Tappet clearance	IN 0.15mm (0.006 in.) EX 0.15mm (0.006 in.) At cold setting
4	Compression ratio	11 : 1

Item No.	Description	Specification and Efficiency
5	Ignition system	Rotor type, magnetic ignition system
6	Ignition timing	35° before compression top dead center, fixed
7	Point gap	0.35mm ± 0.1mm (0.014 in. ± 0.004 in.)
8	Carburetor	CR type Mb 31φ
9	Engine oil capacity	4.0 liters
10	Tire size	Front: 3.00 - 19 Rear : 3.50 - 19

* TIRE SIZE CHANGED FROM 3.00 x 19 — 3.50 x 19
to 3.00 x 18 3.50 x 18



Senior model

SPORTS KIT (ENGINE)

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
1	12200-300-970	HEAD COMP., cylinder	1	12200-300-050	Inlet port is enlarged and valve size is changed. IN 32φ → 33.5φ EX 28φ → 27.0φ
2	13000-300-970	CRANKSHAFT COMP.	1	13000-300-050	To reduce weight
3	13101-300-970	PISTON, A	2	13101-300-030	To reduce weight, the piston contour is changed to a slipper type (cut out the skirt toward the piston pin) A: #2 & #4 cylinder B: #1 & #3 cylinder
4	13102-300-970	PISTON, B	2		
5	14711-300-970	VALVE, inlet	4	14711-300-010	32φ → 33.5φ Valve size is change
6	14721-300-970	VALVE, exhaust	4	14721-300-010	28φ → 27φ Valve size is change
7	14751-300-970	SPRING, valve inner	8	14751-300-000	Increased strength
8	14761-300-970	SPRING, valve outer	8	14761-300-000	Increased strength
9	14731-300-970	VALVE, inlet	4	14711-300-010	Decreased weight 32φ
10	14741-300-970	VALVE, exhaust	4	14721-300-010	Decreased weight 28φ
11	13121-300-970	RING, piston top	4	13121-300-003	Bore 61.5mm (2.42 in.)

SPORTS KIT (FRAME)

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
1	16950-300-970	COCK ASSY., fuel	1	16950-300-000	Special cock for fu tank, P/No. 17500-300-970
2	17500-300-970	TANK COMP., fuel	1	17500-300-020	Aluminum fuel tan (capacity 28 liters used)
3	17502-300-970	CLIP, fuel feed tube	2		
4	17503-300-970	BAND, fuel tank	1		
5	17504-300-970	SPONGE, fuel tank	1		
6	17505-300-970	PAD, fuel tank	4		
7	17506-300-970	TUBE, fuel feed	1		
8	17507-300-970	PIECE, fuel tank joint	1		
9	16997-300-970	O-RING, 12.5 x 3.5	1		
10	53100-300-970	PIPE, right, handle	1		
11	53120-300-970	PIPE, left, handle	1		
12	53165-300-970	RUBBER, right, grip	1		

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
13	53166-300-970	RUBBER, left, grip	1		
14	53141-300-970	PIPE, throttle grip	1	53141-240-000	
15	53167-300-970	HOUSING, throttle winder upper	1		
16	53168-300-970	HOUSING, throttle winder lower	1		
17	17910-300-970	CABLE COMP., A throttle	1		
18	17912-300-970	CABLE COMP., B throttle	1		
19	53172-300-970	BRACKET COMP., left, handle lever	1		
20	53190-300-970	LEVER COMP., left, handle lever	1		
21	22870-300-970	CABLE COMP., clutch	1	22870-300-970	
22	90114-273-000	BOLT, left, handle lever pivot	1		Used on master cylinder
23	45175-300-970	LEVER, right steering	1		
24	53192-300-970	LOOSE, stopper cable adjust bolt	1		
25	45125-300-970	HOSE, B front brake	2	45125-300-010	Replace items 5 through 70 together

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
13	53166-300-970	RUBBER, left, grip	1		
14	53141-300-970	PIPE, throttle grip	1	53141-240-000	
15	53167-300-970	HOUSING, throttle winder upper	1		
16	53168-300-970	HOUSING, throttle winder lower	1		
17	17910-300-970	CABLE COMP., A throttle	1		
18	17912-300-970	CABLE COMP., B throttle	1		
19	53172-300-970	BRACKET COMP., left, handle lever	1		
20	53190-300-970	LEVER COMP., left, handle lever	1		
21	22870-300-970	CABLE COMP., clutch	1	22870-300-970	
22	90114-273-000	BOLT, left, handle lever pivot	1		Used on master cylinder
23	45175-300-970	LEVER, right steering	1		
24	53192-300-970	LOOSE, stopper cable adjust bolt	1		
25	45125-300-970	HOSE, B front brake	2	45125-300-010	Replace items 5 through 70 together

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
26	46128-300-970	HOSE, A front brake	2		
27	45130-300-970	CLIP	1		
28	45127-300-970	JOINT, three way	1	45127-300-020	
29	45228-300-970	PIPE, right, front brake	1		
30	45245-300-970	CLIP, right, brake hose	1		
31	45200-300-970	CALIPER RIGHT ASSY.	1		
32	45204-300-970	JOINT, right, caliper holder	1		
33	90122-300-970	BOLT, disc	6	90122-300-010	Used for disc mounting
34	45115-300-030	HOLDER, caliper	2		
35	45116-300-030	PIN, caliper holder	2		
36	45117-300-020	BOLT, caliper adjusting	2		
37	45119-300-020	SPRING, caliper adjusting	2		
38	45120-300-040	DISC COMP., front brake	2		

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
39	91259-300-000	O-RING, 10 x 1.7	2		Used on caliper holder
40	45146-300-000	GROMMET, brake hose	2		
41	45500-300-970	CYLINDER ASSY., master	1		
42	44311-300-970	COLLAR, front wheel side	1		
43	44606-300-970	SPOKE A, front	20		Used on aluminum rim #9 Washer, nipple With nipple, rear
44	44607-300-970	SPOKE B, front	20		Used on aluminum rim #9 Washer, nipple With nipple, rear
45	44701-300-970	RIM, front wheel	1	44701-300-970	Aluminum rim 1.85B - 19
46	51400-300-970	FORK ASSY., right, front	1	51400-300-030	
47	51500-300-970	FORK ASSY., left, front	1	51500-300-030	
48	53230-300-970	BRIDGE, fork top	1		
49	61100-300-970	FENDER COMP., front	1	61100-300-030	
50	77200-300-970	SEAT COMP.	1	77200-300-970	To reduce weight, glass fiber type is employed

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
51	77202-300-970	STAY, fitting seat	2		
52	77201-300-970	STAY, seat setting	1		
53	18300-300-970	MEGAPHONE COMP., I, exhaust	1		
54	18350-300-970	MEGAPHONE COMP., II, exhaust	1		
55	18400-300-970	MEGAPHONE COMP., III, exhaust	1		
56	18450-300-970	MEGAPHONE COMP., IV, exhaust	1		
57	18231-300-970	JOINT, ex. pipe	4		
58	43100-300-970	PANEL ASSY., rear brake	1	43100-300-020	Replace items 35 through 39 together
59	43451-300-970	ROD, rear brake	1		
60	17917-300-970	LOCK, nut, 7mm	5		
61	90321-300-970	NUT, left, brake rod lock	1		Used on brake
62	43471-300-970	PIN, brake wire joint	1		
63	46500-300-970	PEDAL, rear brake	1		

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
64	43421-300-970	ARM B COMP., rear brake	1		
65	43120-300-970	SHOE COMP., rear brake	1		
66	43411-300-970	ARM A COMP., rear brake	1		
67	46501-300-970	COLLAR, brake pedal	1		
68	43460-300-970	CABLE COMP., rear brake	1		
69	43141-300-970	CAM, rear brake	2		
70	43151-300-970	SPRING, rear brake shoe	2		
71	43472-300-970	SPRING, rear brake arm return	1		
72	90102-300-970	BOLT, brake pedal stopper	1		Used on brake pedal
73	41201-300-970	SPROCKET, final driven (44T)	1		
74	41202-300-970	SPROCKET, final driven (46T)	1		
75	41203-300-970	SPROCKET, final driven (48T)	1		
76	42311-300-970	COLLAR, rear wheel side	1		

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
77	42313-300-970	COLLAR, side, rear brake panel	1		
78	42601-300-970	HUB COMP., rear wheel	1		
79	42606-300-970	SPOKE A, rear	20		#9 Washer, nipple With nipple, rear
80	42607-300-970	SPOKE B, rear	20		#9 Washer, nipple With nipple, rear
81	42701-300-970	RIM, rear wheel	1	42701-300-970	Aluminum rim 2.15B - 18
82	90128-300-970	BOLT, driven sprocket fixing	4	90128-300-030	Used on driven sprocket
83	90523-300-970	WASHER, gongued, 8mm	4		Used on driven sprocket
84	52400-300-970	CUSHION ASSY., rear	2	52400-300-010	
85	37240-300-970	TACHOMETER ASSY.	1	37240-300-019	
86	37260-300-970	CABLE ASSY., tachometer	1	37260-300-000	
87	50148-300-970	BRACKET COMP., right, step	1		
88	50149-300-970	BRACKET COMP., left, step	1		
89	24701-300-970	PEDAL COMP., change	1	24701-300-020	Replace items 161 through 167 together

Item No.	Sports Kit Parts			Standard Parts	Remarks
	Part No.	Description	Q'ty	Part No.	
90	90101-300-970	BOLT, hex., 8 x 25	4		Used on step and steering handle
91	50616-300-970	ARM COMP., right, step	1	50616-300-670	
92	50642-300-970	ARM COMP., left, step	1		
93	40530-300-970	CHAIN, drive	1	40530-300-003	
94	30505-300-970	SUB CORD, ignition coil	1		
95	35300-300-971	SWITCH ASSY., kill	1		
96	32100-300-970	HARNES, wire	1		
97	56100-300-970	COOLER COMP., oil	1		
98	56101-300-970	STAY, oil cooler	1		