Owner's Manual
Parts Manual

Twister
Hammerhead

**READ THIS MANUAL CAREFULLY,
IT CONTAINS IMPORTANT SAFETY INFORMATION.**

UM250 II R

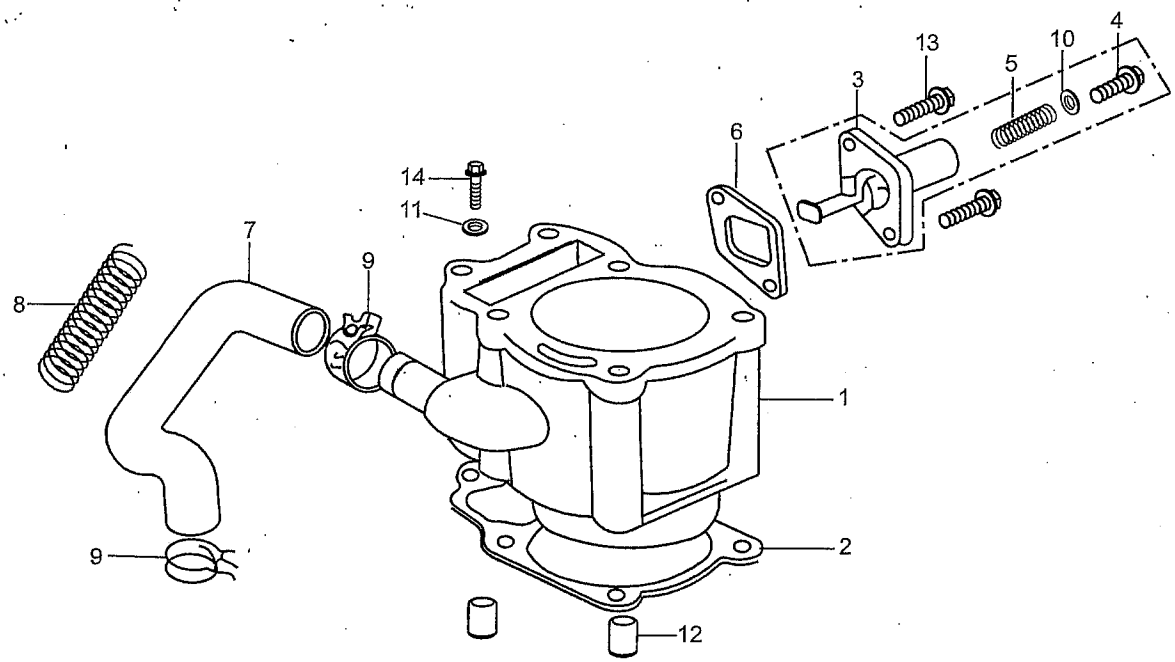
**MINIMUM
RECOMMENDED
OPERATOR AGE: 16**



FOR OFF-ROAD USE ONLY

This vehicle is designed and manufactured for off-road use only.
USA only:
It does not conform to Federal Motor Vehicle Safety Standards, and in regards to operation on public streets, roads, or highways is illegal.

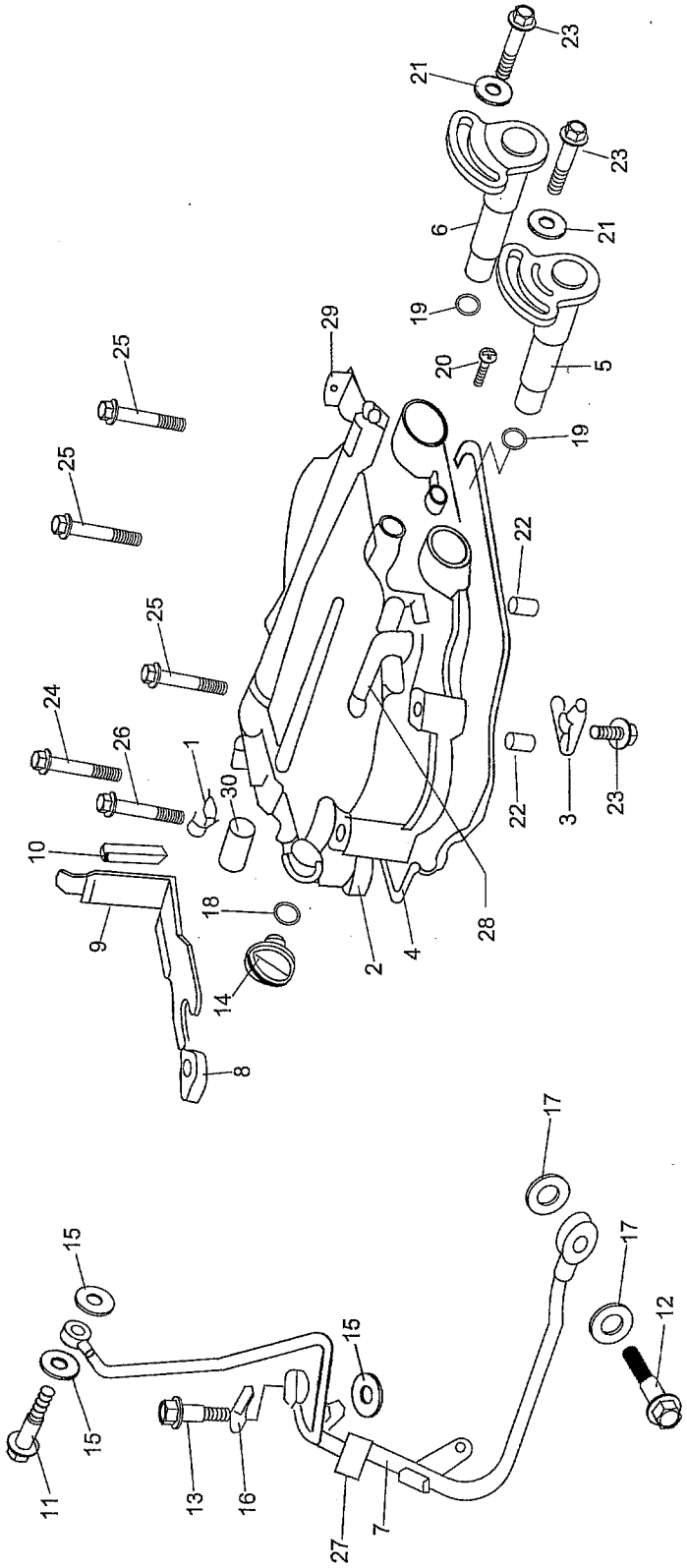
CYLINDER COMP.



CYLINDER COMP.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-023100	CYLINDER COMP	1
2	172MM-023002	CYLINDER SEAL	1
3	152MI-023300	TENSIONER	1
4	152MI-023003	SPRING SEAT FLANGE BOLT	1
5	152MI-023002	SPRING	1
6	152MI-023004	TENSIONER SEAL	1
7	172MM-023007	WATER INFLOW RUBBER TUBE	1
8	172MM-023009	WATER TUBE SHEATH	1
9	QC/T621-1999-B24	WIRE CLAMP	2
10	152MI-023009	WASHER 8.5	1
11	GB/T848-85-6-D	SMALL WASHER	1
12	152MI-021005	DOWEL PIN 10 X 14	2
13	152MI-023008	FLANGE BOLT M6 X 18	2
14	152MI-080013	FLANGE BOLT M6 X 22	1

FIG.2

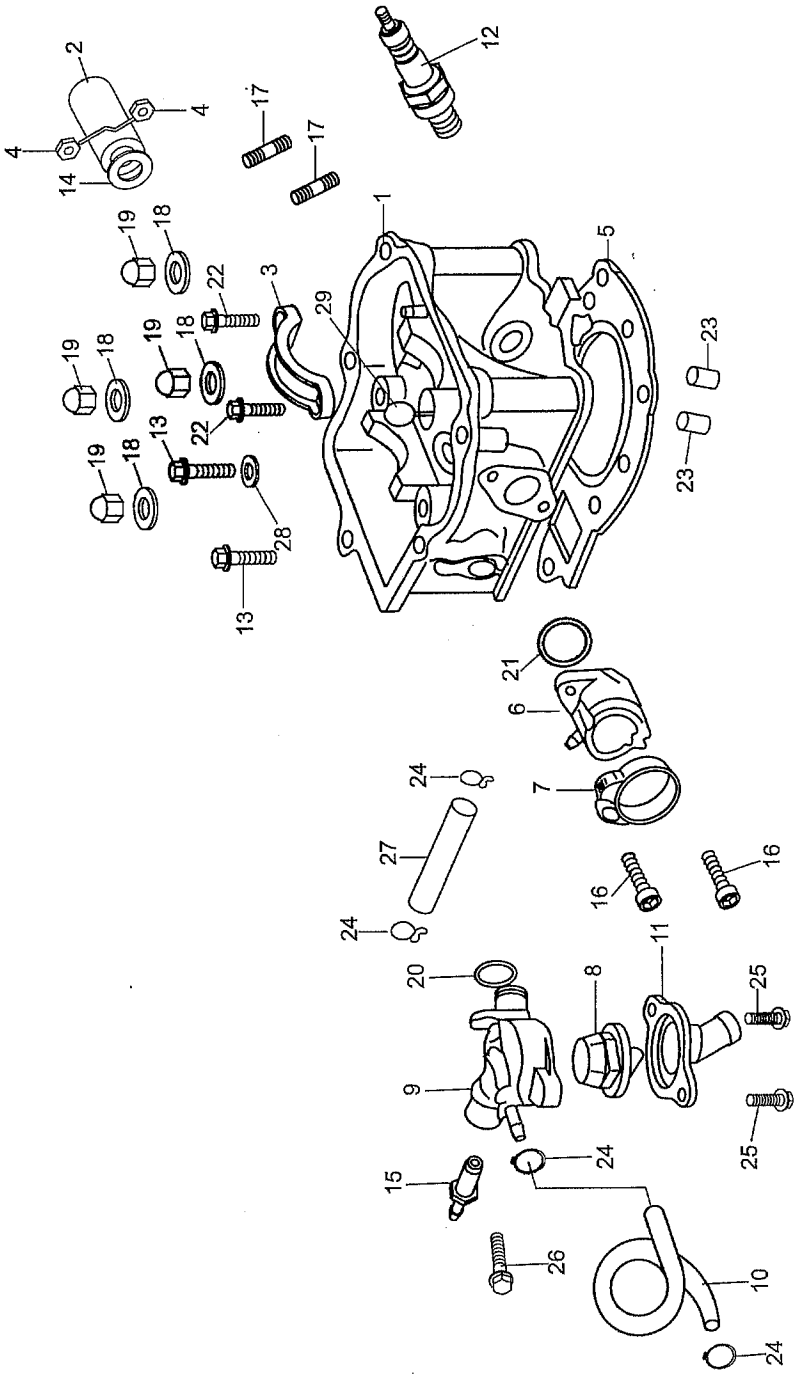
CYLINDER COVER ASSY.(1)



CYLINDER COVER ASSY.(1)				
REF NO.	PART NO.	DESCRIPTION	REGD NO.	Net
1	172MM-021009	OIL TUBE CLIP	1	
2	172MM-021001	CYLINDER COVER	1	
3	172MM-021006	PLATE	1	
4	152MI-021011	CYLINDER COVER SEAL	1	
5	172MM-021100	INLET ROCKER SHAFT	1	
6	172MM-021200	EX ROCKER SHAFT	1	
7	172MM-021400	OUTER OIL TUBE	1	
8	152MI-021001	RUBBER RING	1	
9	172MM-021431	OIL TUBE HOLDER	1	
10	152MI-021003	SHOCK ABSORPTION RUBBER BAR	1	
11	152MI-021004	BOLT M8 x 25	1	
12	152MI-021015	BOLT M12 x 1.25	1	
13	152MI-021013	BOLT M8 x 25	1	
14	152MI-021008	VISION HOLE CAP	1	
15	152MI-021016	WASHER 8	3	
16	152MI-021012	EAR WASHER	1	
17	152MI-021014	WASHER 12	2	
18	152MI-021009	VISION HOLE CAP SEAL	1	
19	152MI-021010	ROCKER SHAFT SEAL	2	
20	GB/T818-2000	CROSS FLANGE BOLT	1	
21	GB/T848-85-6	SMALL WASHER	2	
22	152MI-021005	DOWEL PIN 10 x 14	2	
23	152MI-021019	FLANGE BOLT M6 x 12	3	
24	152MI-021017	FLANGE BOLT M6 x 25	1	
25	152MI-013010	FALNGE BOLT M6 x 50	3	
26	152MI-021018	FLANGE BOLT M6 x 55	1	
27	172MM-021404	SHOCK ABSORPTION BUSH	1	
28	172MM-021002	AIR TUBE JOINT	1	
29	172MM-021300	AIR CLEANER HOLDER	1	
30	172MM-021008	STOPPLE	1	

FIG.3

CYLINDER COVER ASSY.(2)

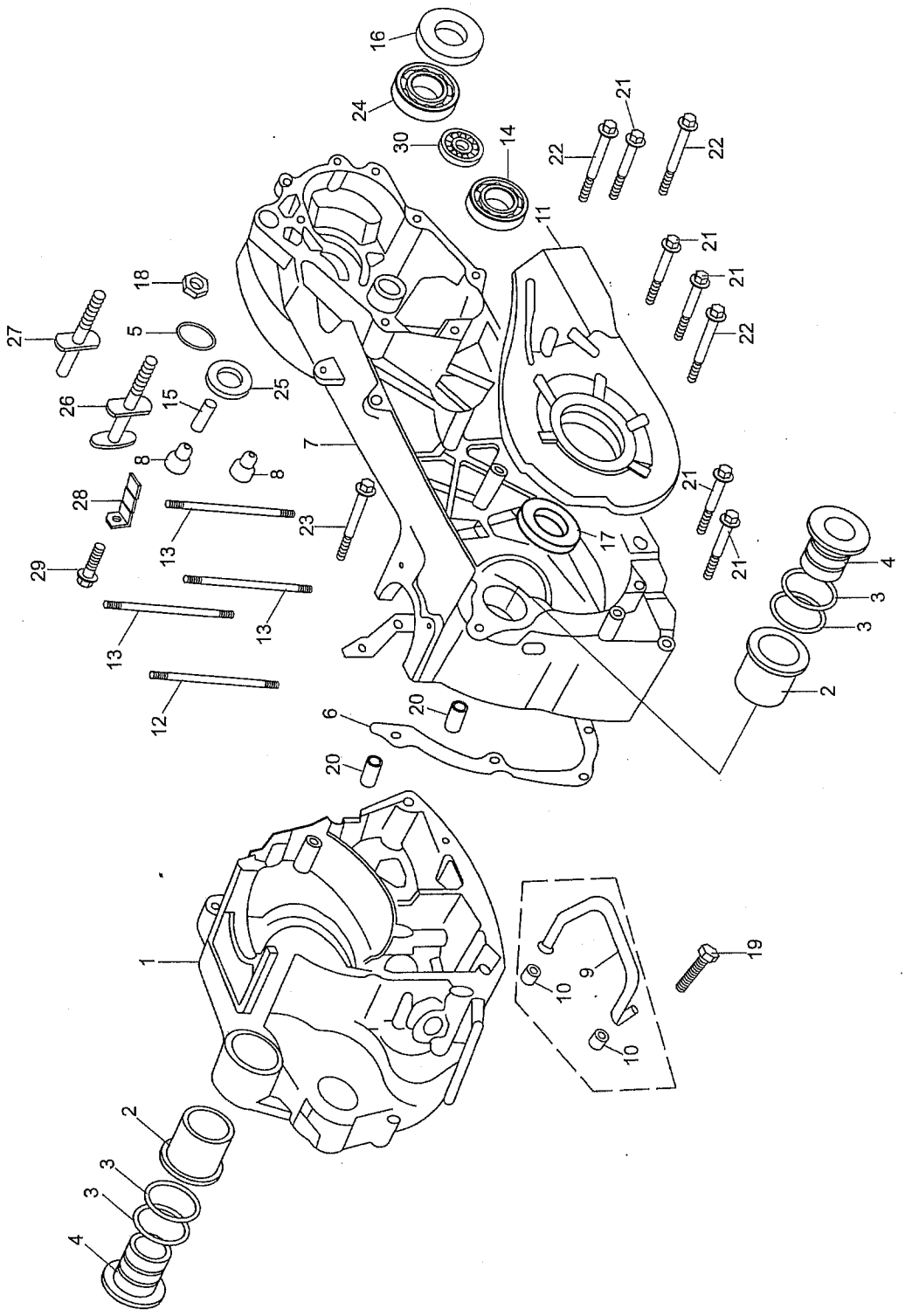


CYLINDER COVER ASSY.(2)

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-022100	CYLINDER COVER ASSY.	1
2	172MM-022700	EX. TUBE FLANGE	1
3	152MI-022014	CAMSHAFT COVER	1
4	172MM-022008	EX. TUBE NUT	2
5	172MM-022010	CYLINDER COVER SEAL	1
6	172MM-022900	CARBURETOR RELAY SEAT	1
7	172MM-022500	INLET TUBE CLAMP	1
8	152MI-022810	TEMPERATURE RETAINER	1
9	152MI-022803	UPPER TEMPERATURE RETAINER COVER	1
10	152MI-022021	CARBURETOR COOLING RUBBER TUBE	1
11	172MM-022601	UNDERSIDE TEMPERATURE RETAINER COVER	1
12	172MM-022400	SPARK PLUG	1
13	152MI-021017	FLANGE BOLT M6 x 25	2
14	172MM-022800	EX. OUTLET SEAL	1
15	152MI-022600	WATER TEMPERATURE SENSOR	1
16	GB/T6191-1986	INNER HEX FLANGE BOLT M6 x 18	2
17	172MM-022007	EX. TUBE FLANGE BOLT	2
18	152MI-022012	WASHER 8	4
19	152MI-022013	ACORN NUT M8	4
20	152MI-022804	O-RING 14.8 x 1.9	1
21	172MM-022009	O-RING 31 x 2	1
22	152MI-022020	FLANGE BOLT M6 x 22	2
23	152MI-021005	DOWEL PIN 10 x 14	2
24	QC/T621-1999	WIRE CLIP	2
25	152MI-090005	FLANGE BOLT M6 x 16	2
26	152MI-023008	FLANGE BOLT M6 x 18	1
27	152MI-022017	CARBURETOR VENTILATION RUBBER TUBE	1
28	GB/T848-85	SMALL WASHER	1
29	152MI-022303	STOPPLE M12 x 1	

FIG.4

CRANKCASE ASSY.

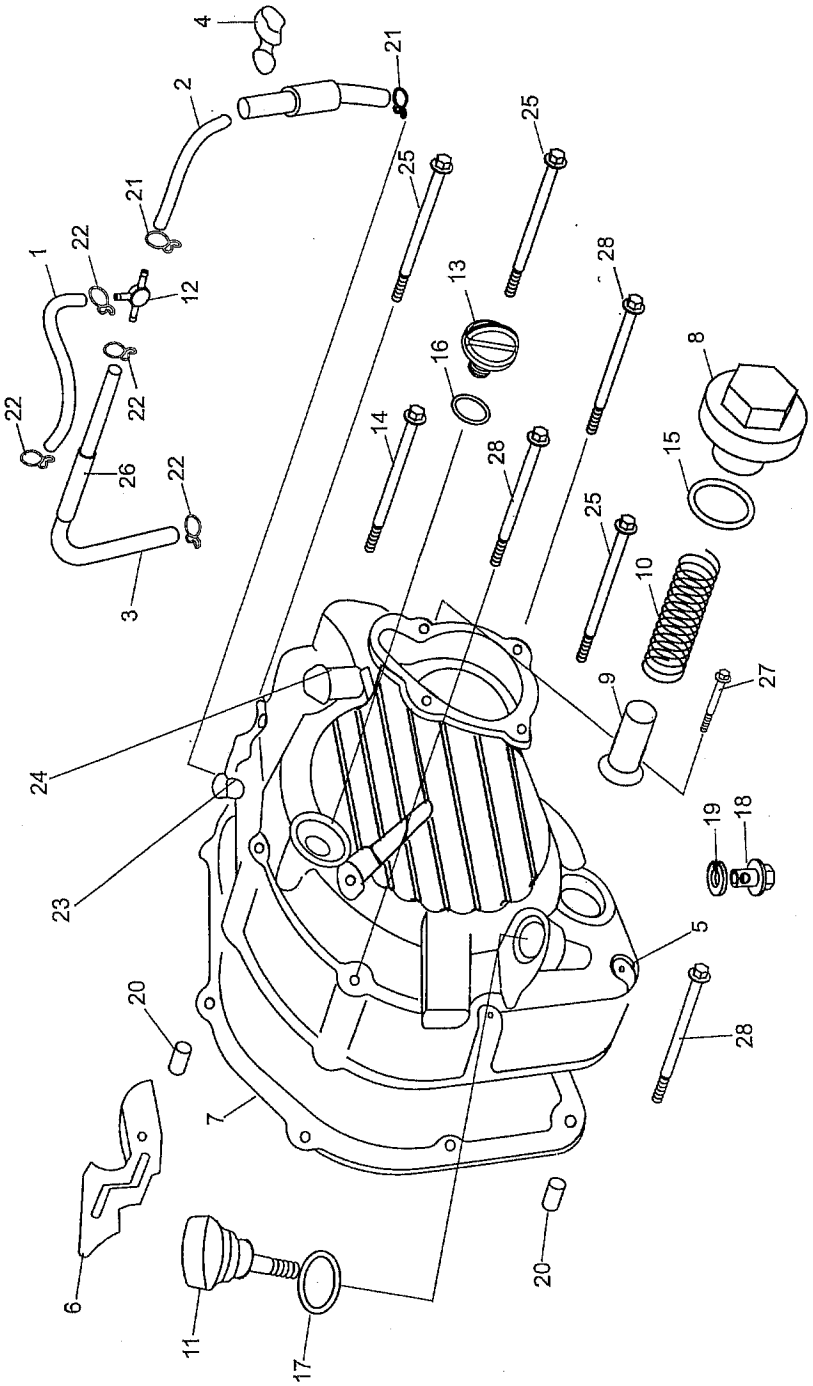


CRANKCASE ASSY.

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-011200	CRANKCASE, R.	1
2	152MI-011010	HANGER OUTER BUSH	2
3	152MI-011008	O-RING 15.8 x 2.4	4
4	152MI-011009	HANGER INNER BUSH	2
5	152MI-011013	O-RING 7.5 x 1.5	1
6	172MM-011003	CRANKCASE SEAL	1
7	172MM-011100	CRANKCASE, L.	1
8	172MM-011014	BRAKE SHOE SHOCK ABSORPTION WASHER	2
9	172MM-011400	INNER OIL TUBE	1
10	172MM-011002	INNER OIL TUBE SEAL	2
11	172MM-011300	INSULATION GASKET	1
12	172MM-011005	CYLINDER STUD BOLT B	1
13	172MM-011004	CYLINDER STUD BOLT A	3
14	NTN: TMB301	ROLL BEARING	1
15	172MM-011007	BRAKE SHOE BUSH, DOWEL PIN	1
16	172MM-011009	OIL SEAL 34 x 52 x 5	1
17	172MM-011001	OIL SEAL 28 x 40 x 8	1
18	152MI-011700	STOP NUT M8	1
19	152MI-021019	FLANGE BOLT M6 x 12	1
20	152MI-021005	DOWEL PIN 10 x 14	2
21	152MI-011017	FLANGE BOLT M6 x 60	5
22	152MI-011018	FLANGE BOLT M6 x 70	3
23	152MI-011016	FLANGE BOLT M6 x 125	1
24	NTN: 6205LLU	ROLL BEARING	1
25	172MM-011008	OIL SEAL 14 x 20 x 3.5	1
26	172MM-011010	BRAKE SHOE DOWEL PIN	1
27	172MM-011006	REAR SWING AXLE	1
28	172MM-011011	BRAKE CABLE PLATE	1
29	152MI-090005	FLANGE BOLT M6 x 16	1
30	NTN: HMK1416	NEEDLE BEARING	1

FIG.5

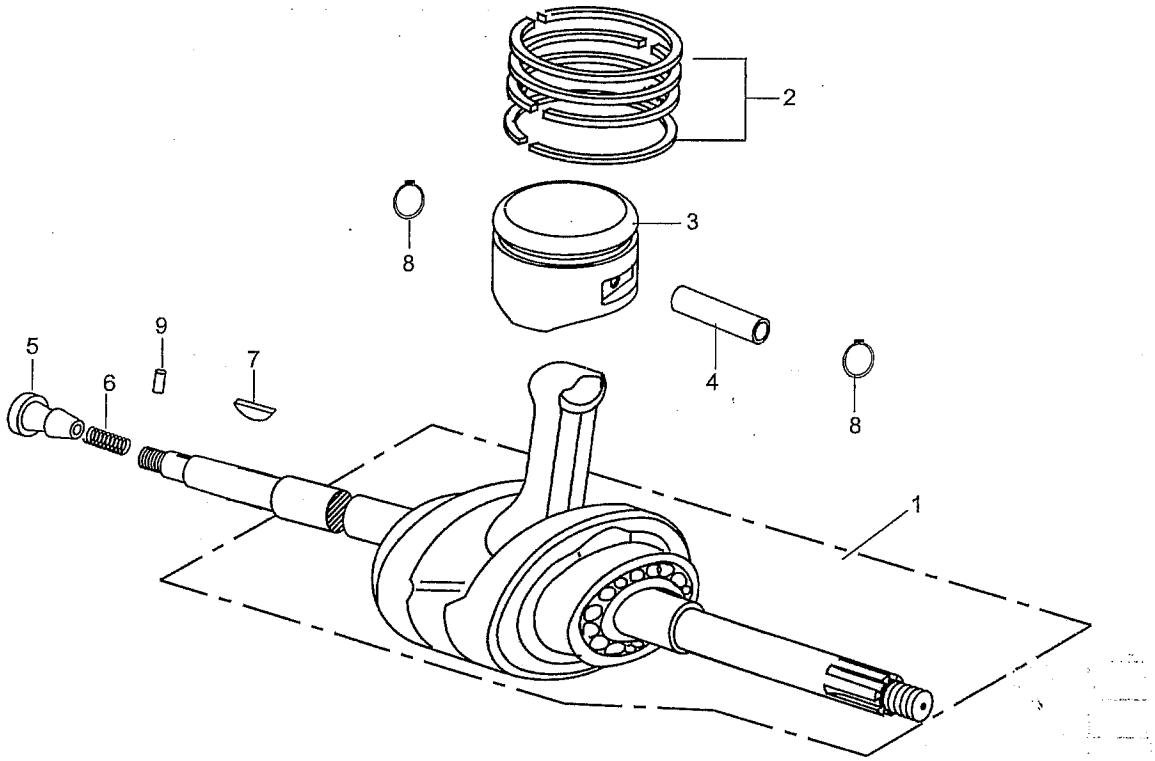
RIGHT SIDE COVER ASSY.



RIGHT SIDE COVER ASSY.

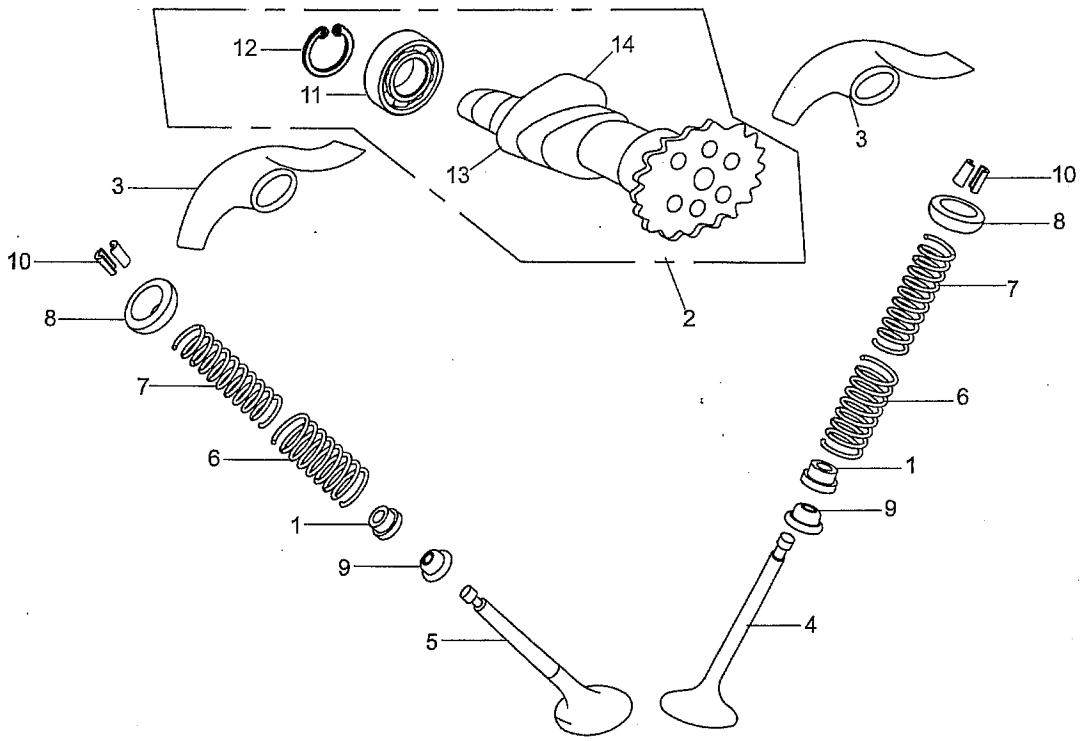
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-013013	RUBBER HOSE (LINKED WITH CYLINDER COVER)	1
2	172MM-013100	RUBBER HOSE (LINKED WITH RIGHT SIDE COVER)	1
3	172MM-013015	RUBBER HOSE (LINKED WITH AIR CLEANER)	1
4	172MM-013016	RUBBER HOSE CLIP	1
5	172MM-013002	RIGHT SIDE COVER	1
6	172MM-013008	PLATE	1
7	172MM-013012	RIGHT SIDE COVER SEAT	1
8	172MM-013007	OIL FILTE SCREEN LID	1
9	152MI-013100	FILTE CORE	1
10	172MM-013006	SPRING	1
11	172MM-013001	DIPSTICK	1
12	172MM-013019	EXHAUST THREE JOINT	1
13	152MI-021008	VISION HOLE CAP	1
14	172MM-013031	FLANGE BOLT M6 x 80	1
15	172MM-013028	O-RING 30 x 3.55	1
16	152MI-021009	VISION HOLE CAP SEAL	1
17	172MM-013030	O-RING 18 x 3.55	1
18	172MM-013005	OIL DISCHARGE BOLT M12 x 1.5	1
19	152MI-021014	WASHER 12	1
20	152MI-080008	DOWEL PIN 8 x 14	2
21	QC/T621-1999-A10	WIRE CLIP ROUND	2
22	QC/T621-1999-A12	WIRE CLIP ROUND	4
23	172MM-013010	VENTILATION JOINT	1
24	172MM-013009	WATER DISCHARGE JOINT	1
25	152MI-013009	FLANGE BOLT M6 x 40	3
26	172MM-013026	RUBBER TUBE LINDED WITH AIR CLEANER BUSH	1
27	152MI-071007	FLANGE BOLT M6 x 28	1
28	152MI-011018	FLANGE BOLT M6 x 70	3

CRANKSHAFT CON'ROD & PISTON ASSY.



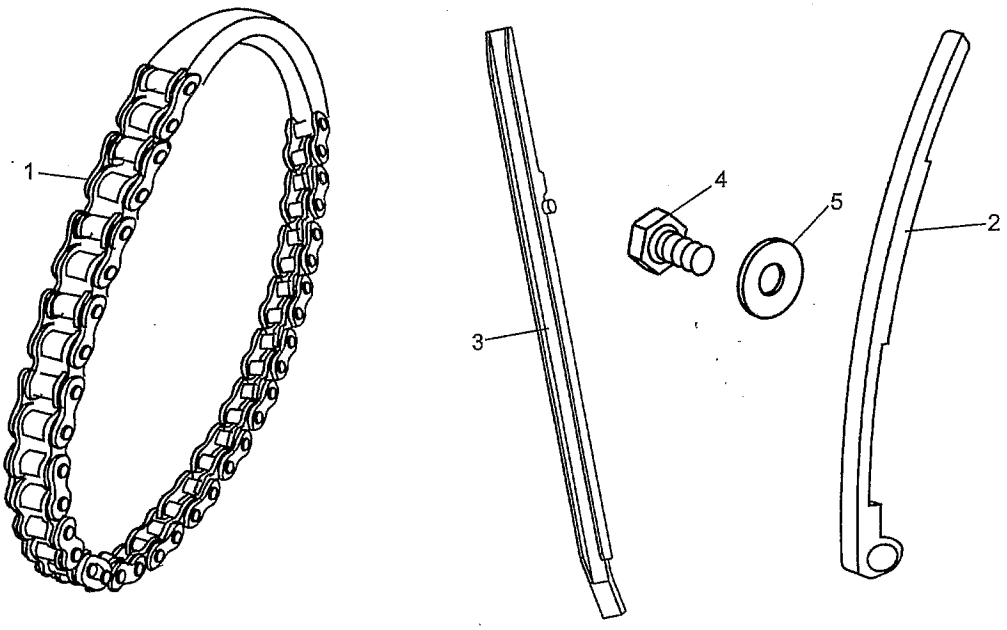
CRANKSHAFT CON'ROD & PISTON ASSY.			
REF NO.	**PART NO.**	**DESCRIPTION**	**REGD NO.**
1	172MM-041000	CON'ROD ASSY.	1
	172MM-040008	THE FIRST PISTON RING	1
	172MM-040009	THE SECOND PISTON RING	1
2	172MM-042000	OIL RING ASSY.	1
3	172MM-040005	PISTON	1
4	172MM-040007	PISTON PIN	1
5	152MI-040011	OIL TUBE JOINT	1
6	152MI-040010	OIL TUBE JOINT SPRING	1
7	152MI-040006	WOODRUFF KEY	1
8	172MM-040006	PISTON PIN CIRCLIP	2
9	GB/T119-2000	COLUMN PIN 2 x 14	1

VALVE TRANNY ASSY.(1)



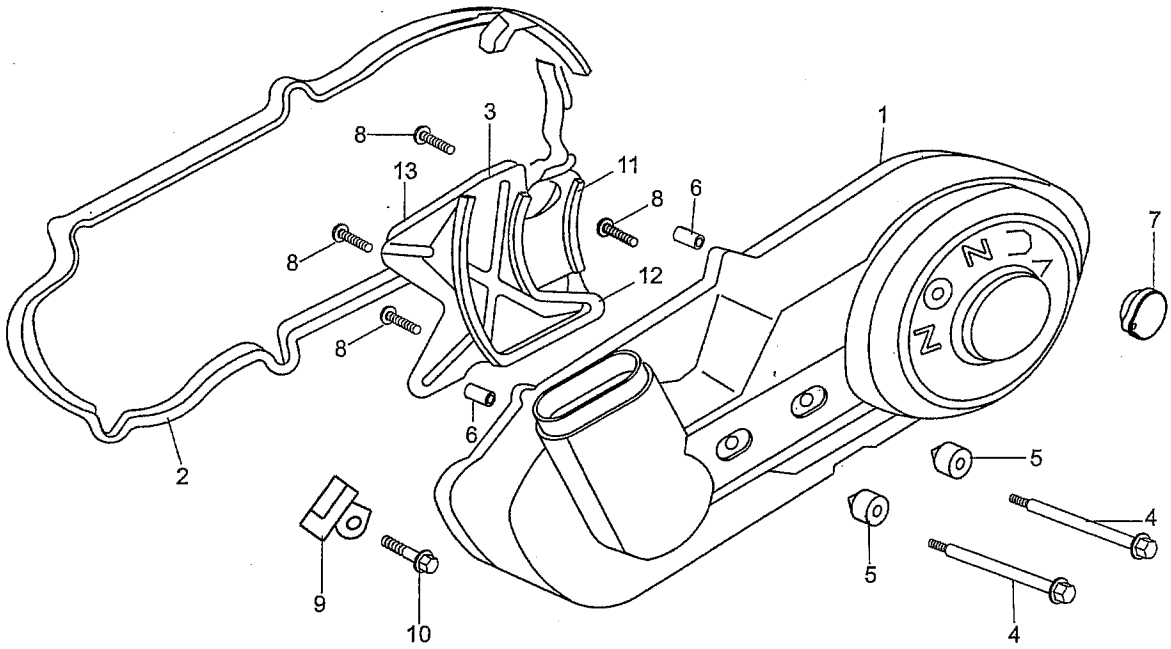
VALVE TRANNY ASSY.(1)			
REF NO.	**PART NO.**	**DESCRIPTION**	**REGD NO.**
1	152MI-022500	VALVE TAPPET SEAL	2
2	172MM-022300	VALVE CAM	1
3	152MI-021007	ROCKER	2
4	172MM-022001	INLET VALVE	1
5	172MM-022005	EX. VALVE	1
6	172MM-022002	OUTER VALVE SPRING	2
7	172MM-022003	INNER VALVE SPRING	2
8	152MI-022005	SPRING VALVE DISC	2
9	152MI-022001	SPRING VALVE SEAT	2
10	152MI-022006	VALVE CLIP LOCK	4
11	NTN: 16002	ROLL BEARING	2
12	GB894 1-86-15	BEARING CIRCLIP	1
13	172MM-022310	CHAIN WHEEL	1
14	172MM-022301	CAMSHAFT	1

VALVE TRANNY ASSY.(2)



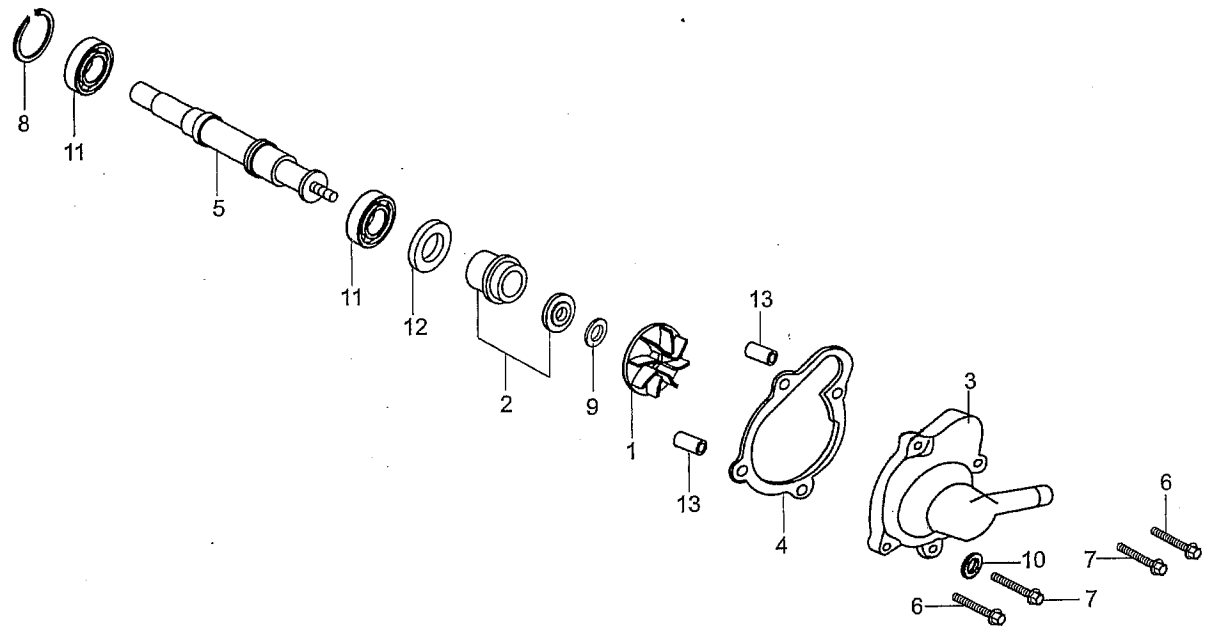
VALVE TRANNY ASSY.(2)			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-022200	TIME CHAIN	1
2	172MM-023200	TENSIONER	1
3	172MM-023001	CHAIN GUIDE PLATE	1
4	GB96-85-6-D. Zn	BIG WASHER	1
5	GB/T5781-2000	HEX FLANGE BOLT M6 x 12	1

LEFT SIDE COVER ASSY.



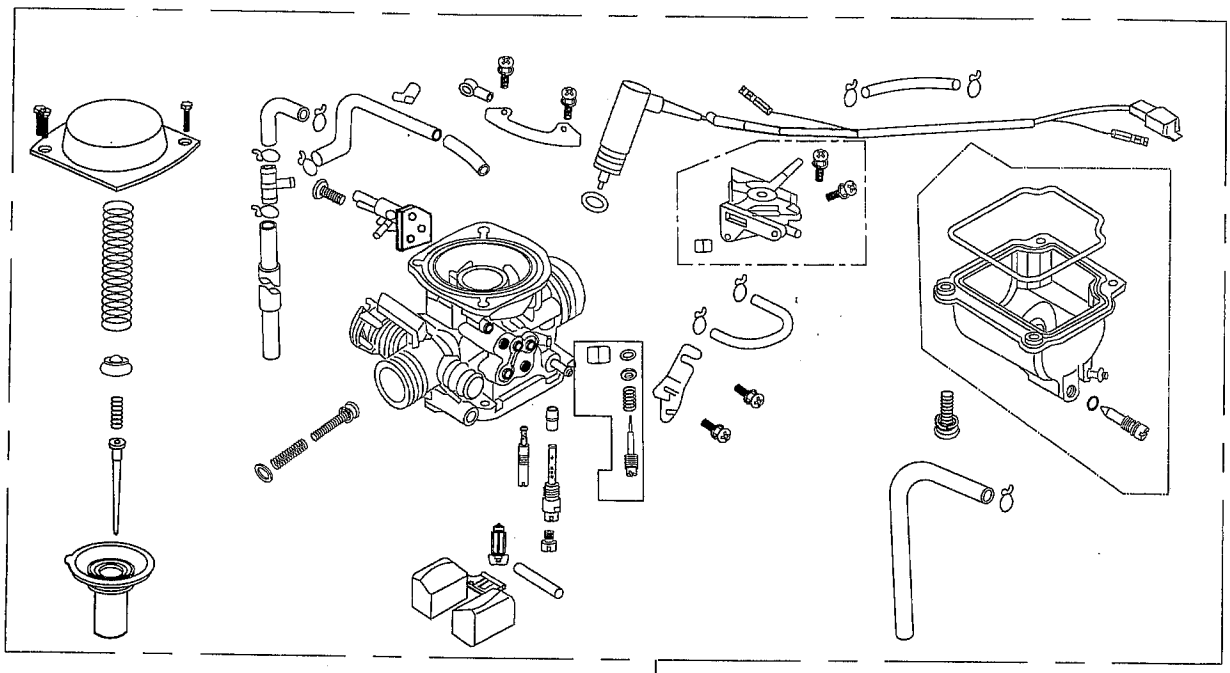
LEFT SIDE COVER ASSY.			
REF NO.	**PART NO.**	**DESCRIPTION**	**REGD NO.**
1	172MM-012001	LEFT SIDE COVER	1
2	172MM-012007	LEFT SIDE COVER SEAL	1
3	172MM-012004	PLATE	1
4	172MM-012003	FLANGE BOLT	2
5	152MI-012200	SHOCK ABSORPTION BLOCK ASSY.	2
6	152MI-011007	DOWEL PIN Φ10 x 16	2
7	172MM-012008	OIL DISCHARGE BOLT VISION HOLE CAP	1
8	GBT818-2000-M5X8	CROSS FLANGE BOLT	4
9	172MM-012100	WIRE CLAMP	1
10	152MI-090005	FLANGE BOLT M6 x 16	1
11	172MM-012002	DUST-PROOF BAR 1	1
12	172MM-012006	DUST-PROOF BAR 2	1
13	172MM-012005	WOOL MAT	1

WATER PUMP ASSY.



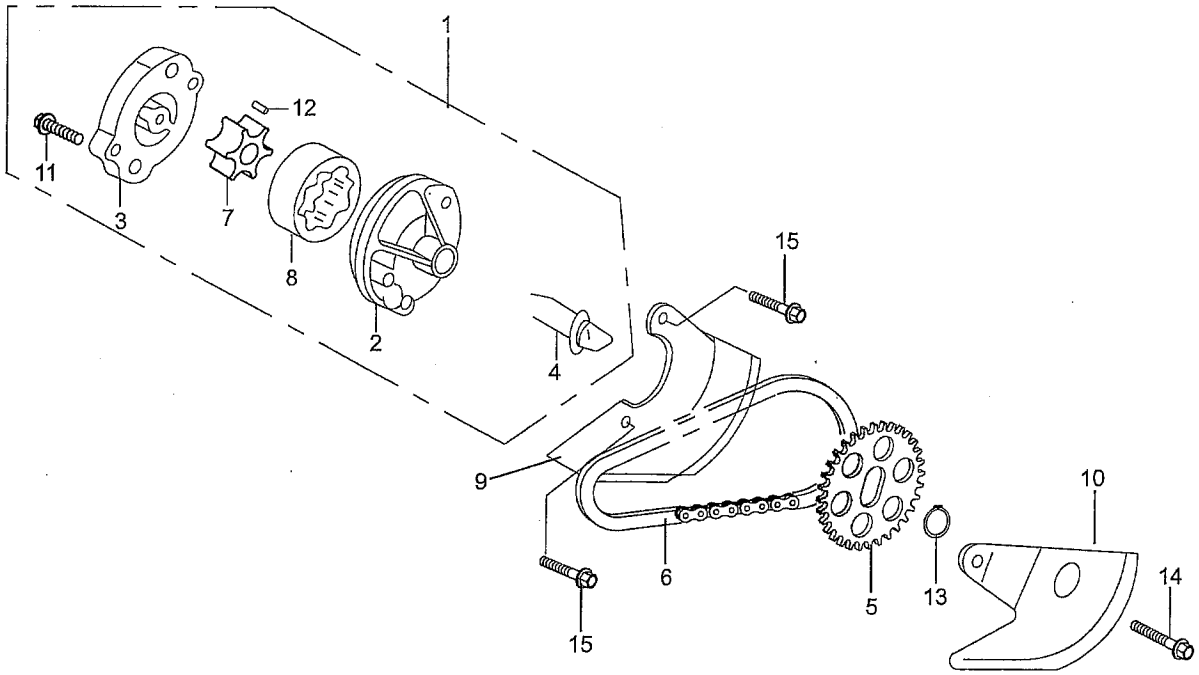
WATER PUMP ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-080004	WATER PUMP IMPELLER	1
2	152MI-081000	WATER SEAL	1
3	172MM-080003	WATER PUMP HOUSING	1
4	172MM-080002	WATER PUMP HOUSING SEAL	1
5	172MM-080001	WATER PUMP SHAFT	1
6	152MI-013009	FLANGE BOLT M6 x 40	2
7	152MI-02017	FLANGE BOLT M6 x 25	2
8	GBT893 1-86-19	CIRCLIP	1
9	152MI-080007	WASHER 7.5 x 13 x 1.2	1
10	152MI-080011	WASHER 6 x 12 x 1	1
11	NTN:6800	ROLL BEARING	2
12	172MM-08005	OIL SEAL 10 x 20 x 5	1
13	152MI-080008	DOWEL PIN 8 x 14	2

CARBURETOR COMP.



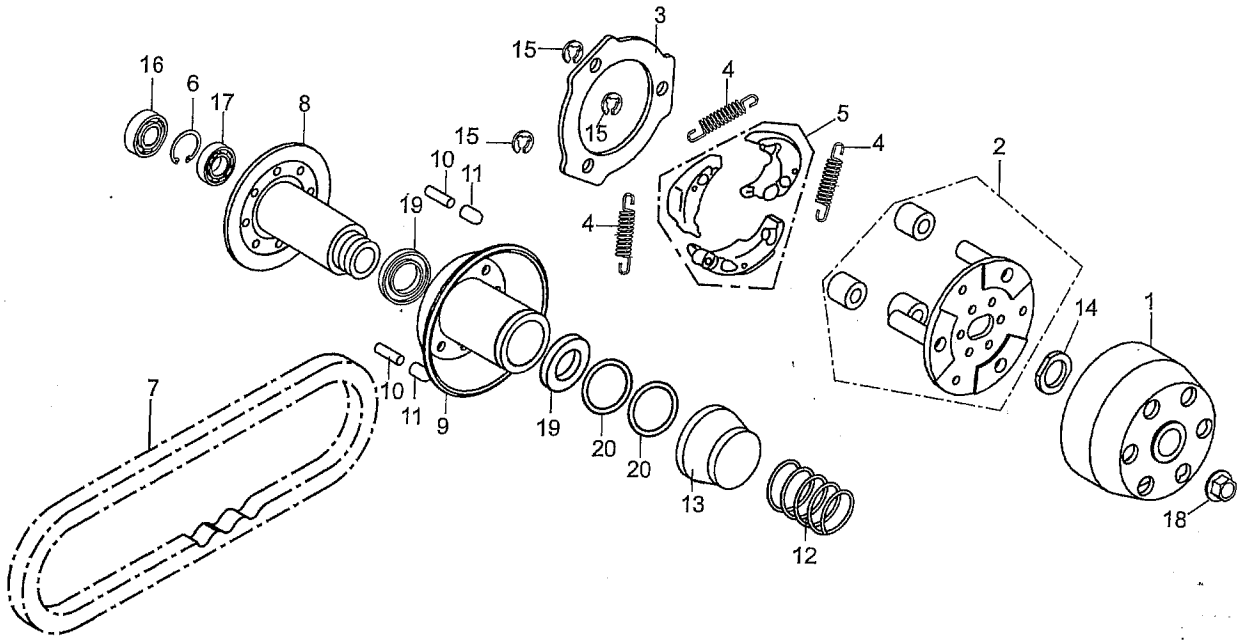
CARBURETOR COMP.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-100000	CARBURETOR COMP.	1

OIL PUMP ASSY.



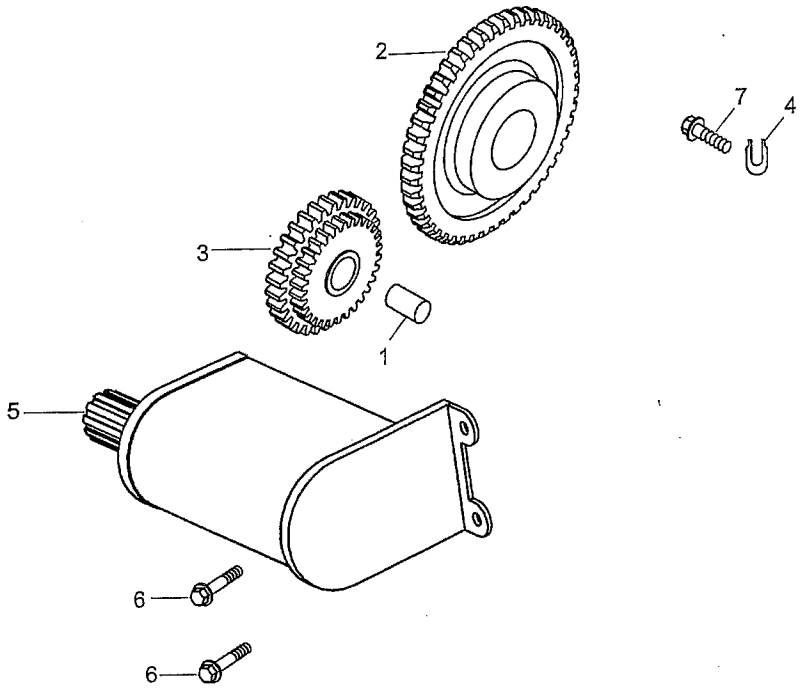
OIL PUMP ASSY.			
REF NO.	**PART NO.**	**DESCRIPTION**	**REGD NO.**
1	152MI-071000	OIL PUMP ASSY.	1
2	152MI-071002	OIL PUMP	1
3	152MI-071003	OIL PUMP COVER PLATE	1
4	152MI-071001	OIL PUMP SHAFT	1
5	152MI-070001	OIL PUMP SPROCKET	1
6	152MI-073000	OIL PUMP CHAIN	1
7	152MI-071004	INNER OIL PUMP ROTOR	1
8	152MI-071005	OUTER OIL PUMP ROTOR	1
9	152MI-070002	OIL PUMP DIVISION PLATE A	1
10	152MI-072000	OIL PUMP DIVISION PLATE B	1
11	GB878-85	FLANGE BOLT M3 x 12	1
12	152MI-0710006	DOWEL PIN 4 x 6.5	1
13	GB897 1-86-10	CIRCLIP	1
14	152MI-021019	FLANGE BOLT M6 x 12	1
15	152MI-071007	FLANGE BOLT M6 x 28	2

CLUTCH ASSY.



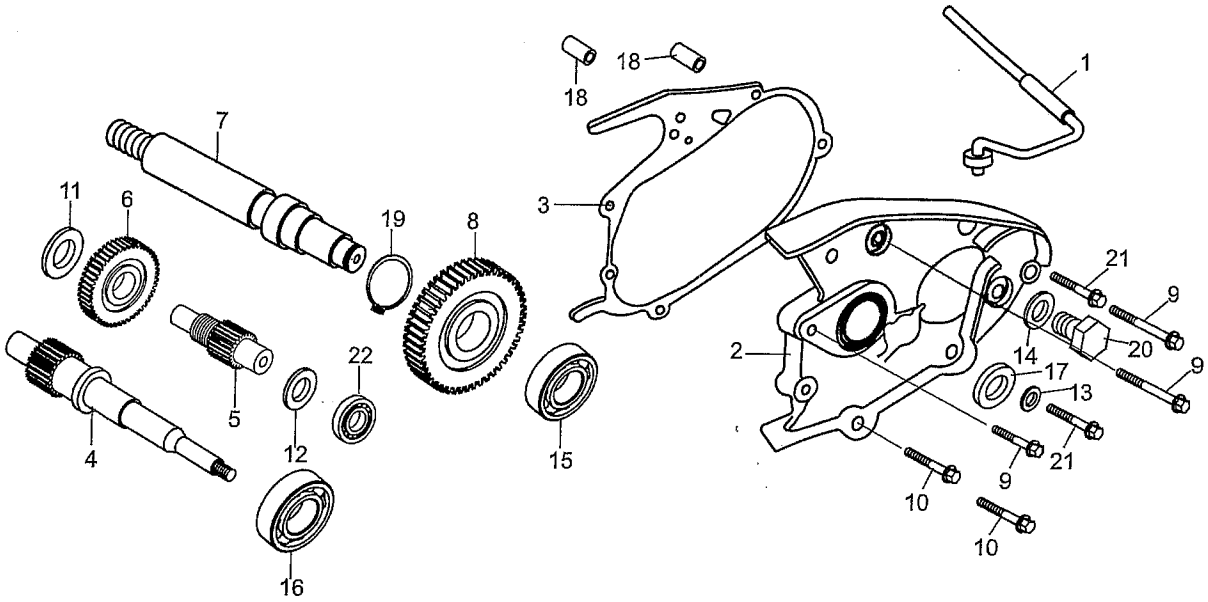
CLUTCH ASSY.			
REF NO.	**PART NO.**	**DESCRIPTION**	**REGD NO.**
1	172MM-052500	OUTER WHEEL CLUTCH	1
2	172MM-052400	DRIVEN DISC	1
3	172MM-052003	SIDE DISC	1
4	172MM-052006	CLUTCH RETURN SPRING	3
5	172MM-052600	CENTRIFUGAL BLOCK	3
6	GB/T8931-86-28	CIRCLIP	1
7	172MM-052700	DRIVE BELT	1
8	172MM-052300	DRIVEN WHEEL	1
9	172MM-052100	MOVABLE DRIVEN WHEEL	1
10	172MM-052002	GUIDE COLUMN PIN	4
11	172MM-052001	GUIDE ROLLER	4
12	172MM-052004	CLUTCH SPRING	1
13	172MM-052200	SEAL BUSH	1
14	172MM-052005	FLAT NUT M30 x 1	1
15	GB/T896-86-6	CIRCLIP	3
16	GB278-89-1060902	ROLL BEARING	1
17	172MM-052310	NEEDLE BEARING 22 x 29 x 18	1
18	172MM-052008	NUT M12 x 1.25	1
19	172MM-052104	DRIVEN WHEEL OIL SEAL	2
20	GB3452.1-82	O-RING 46.2 x 1.8	2

ELECTRIC STARTER ASSY.



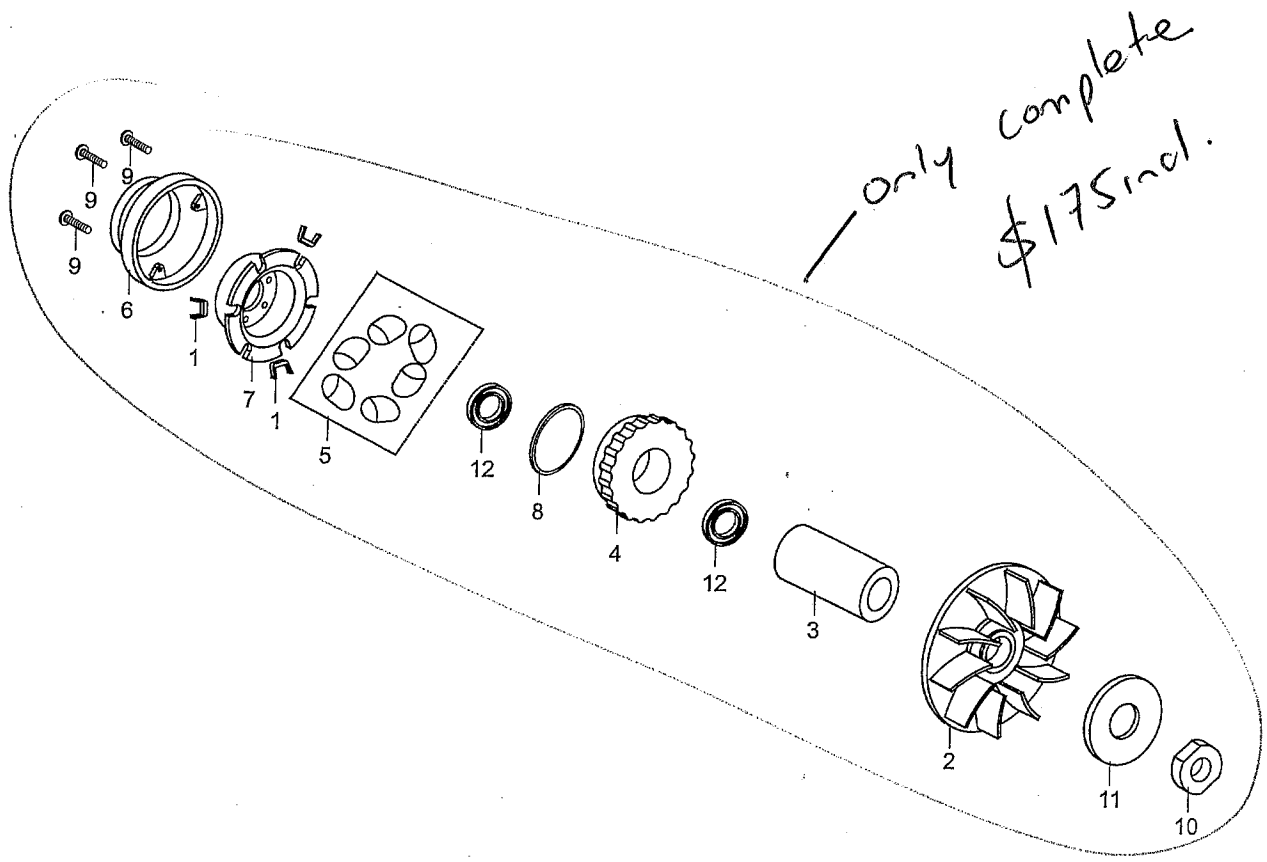
ELECTRIC STARTER ASSY.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-090001	DOUBLE-GEAR AXLE	1
2	172MM-092000	DRIVEN GEAR	1
3	172MM-091000	DOUBLE-GEAR	1
4	172MM-090007	FIX PLATE	1
5	172MM-093000	START MOTOR	1
6	152MI-080013	FLANGE BOLT M6*22	2
7	172MM-090008	FLANGE BOLT M6*14	1

REDUCTION BOX ASSY.



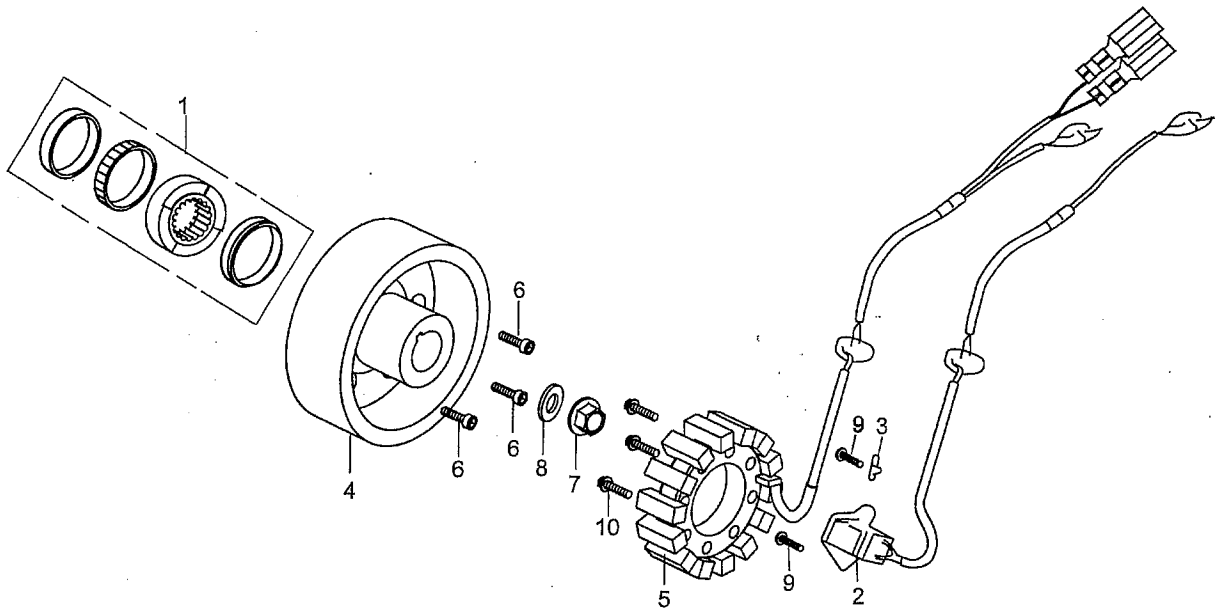
REDUCTION BOX ASSY.			
REF NO.	**PART NO.**	**DESCRIPTION**	**REGD NO.**
1	172MM-062000	VENTILATION PIPE	1
2	172MM-060009	REDUCTION BOX CAP	1
3	172MM-061000	REDUCTION CASE CAP SEAL	1
4	172MM-060001	CHIEF SHAFT	1
5	172MM-060003	SECONDARY SHAFT	1
6	172MM-060006	SECONDARY GEAR SHAFT	1
7	172MM-060007	OUTPUT SHAFT	1
8	172MM-060008	OUTPUT GEAR	1
9	172MM-060010	FLANGE BOLT M8 x 38	3
10	172MM-060011	FLANGE BOLT M8 x 28	2
11	152MI-060003	STOP GASKET 14	1
12	172MM-060004	STOP GASKET 14	1
13	152MI-060009	WASHER 6	1
14	152MI-060010	WASHER 10	1
15	NTN: 6304	ROLL BEARING	1
16	172MM-060002	ROLL BEARING 22 x 50 x 14	1
17	GB9877.1-88	OIL SEAL 22 x 35 x 5	1
18	152MI-021005	DOWEL PIN 10 x 14	2
19	GB/T894.1-86-24	CIRCLIP	1
20	152MI-060011	FLANGE BOLT M10 x 1.25 OIL DISCHARGE	1
21	152MI-080012	FLANGE BOLT M6 x 32	2
22	NTN: HMK1416	NEEDLE BEARING	1

GEARBOX ASSY.



GEARBOX ASSY.				
REF NO.	PART NO.	DESCRIPTION	REGD NO.	
1	172MM-051004	SLIDE BLOCK	3	
2	172MM-051005	DRIVE WHEEL	1	
3	172MM-051003	DRIVE WHEEL BUSH	1	
4	172MM-051100	MOVABLE DRIVE WHEEL	1	
5	172MM-051200	CENTRIFUGAL ROLLER	6	
6	172MM-051001	DRIVE WHEEL CAP	1	
7	172MM-051002	SLOPE PLATE	1	
8	GB3452 1-82	O-RING	1	
9	GB9074 14-88	FLANGE BOLT	3	
10	172MM-051007	NUT M14 x 1.5	1	
11	172MM-051006	WASHER 14.5 x 30 x 2	1	
12	152MI-051103	OIL SEAL 27 x 34 x 3.5	2	

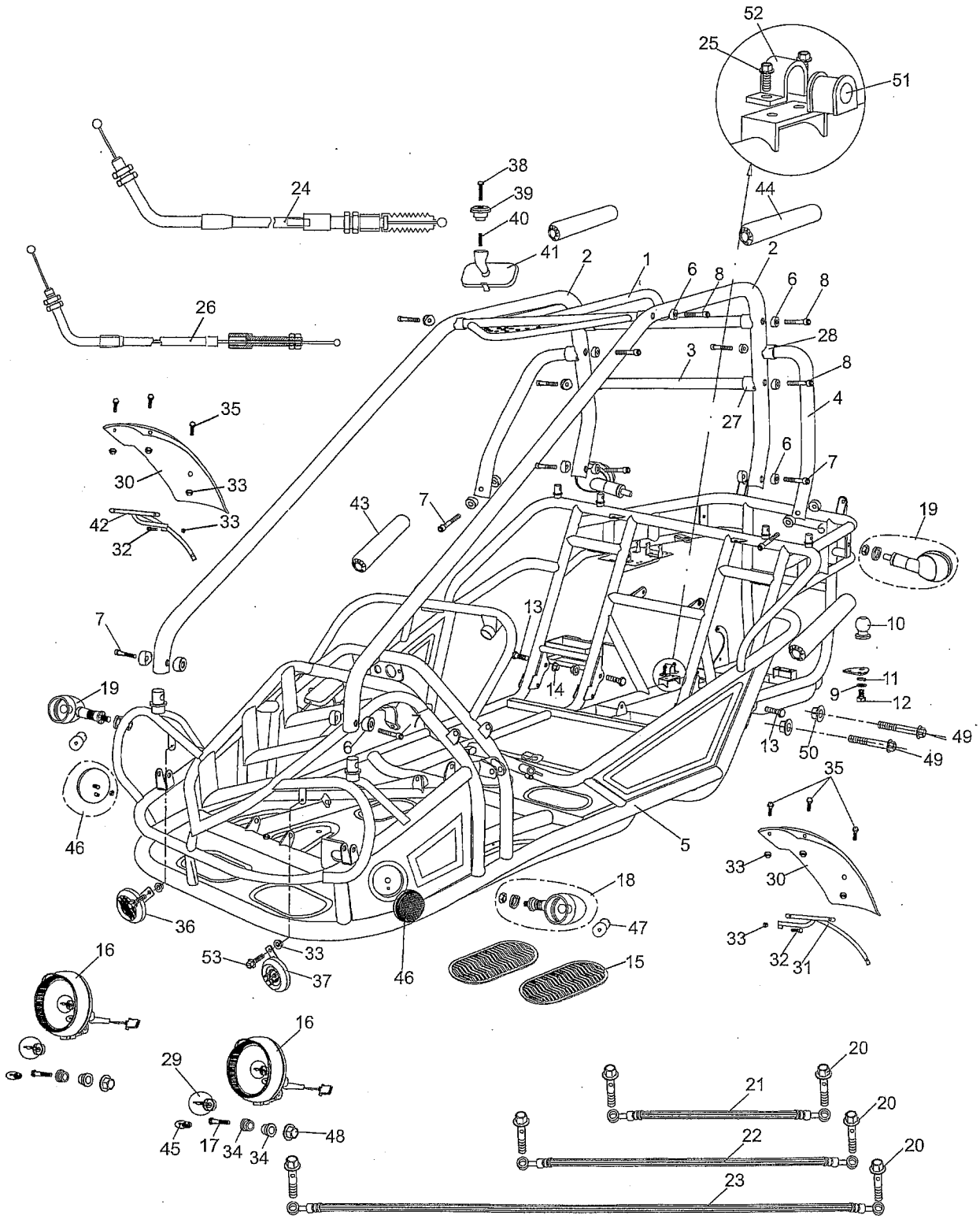
MAGNETO COMP.



MAGNETO COMP.			
REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	172MM-094000	CLUTCH	1
2	172MM-033000	IGNITION COIL	1
3	172MM-013008	WIRE PLATE	1
4	172MM-031000	FLYWHEEL	1
5	172MM-032000	STATOR	1
6	GB/T70 1-2000	INNER HEX FLANGE BOLT M8 X 18	3
7	172MM-040001	NUT M16 x 1	1
8	172MM-040002	WASHER 16.3 x 30 x 2	1
9	152MI-030002	FLANGE BOLT M5 x 16	2
10	152MI-060012	FLANGE BOLT M6 x 30	3

FIG.18

FRAME GROUP

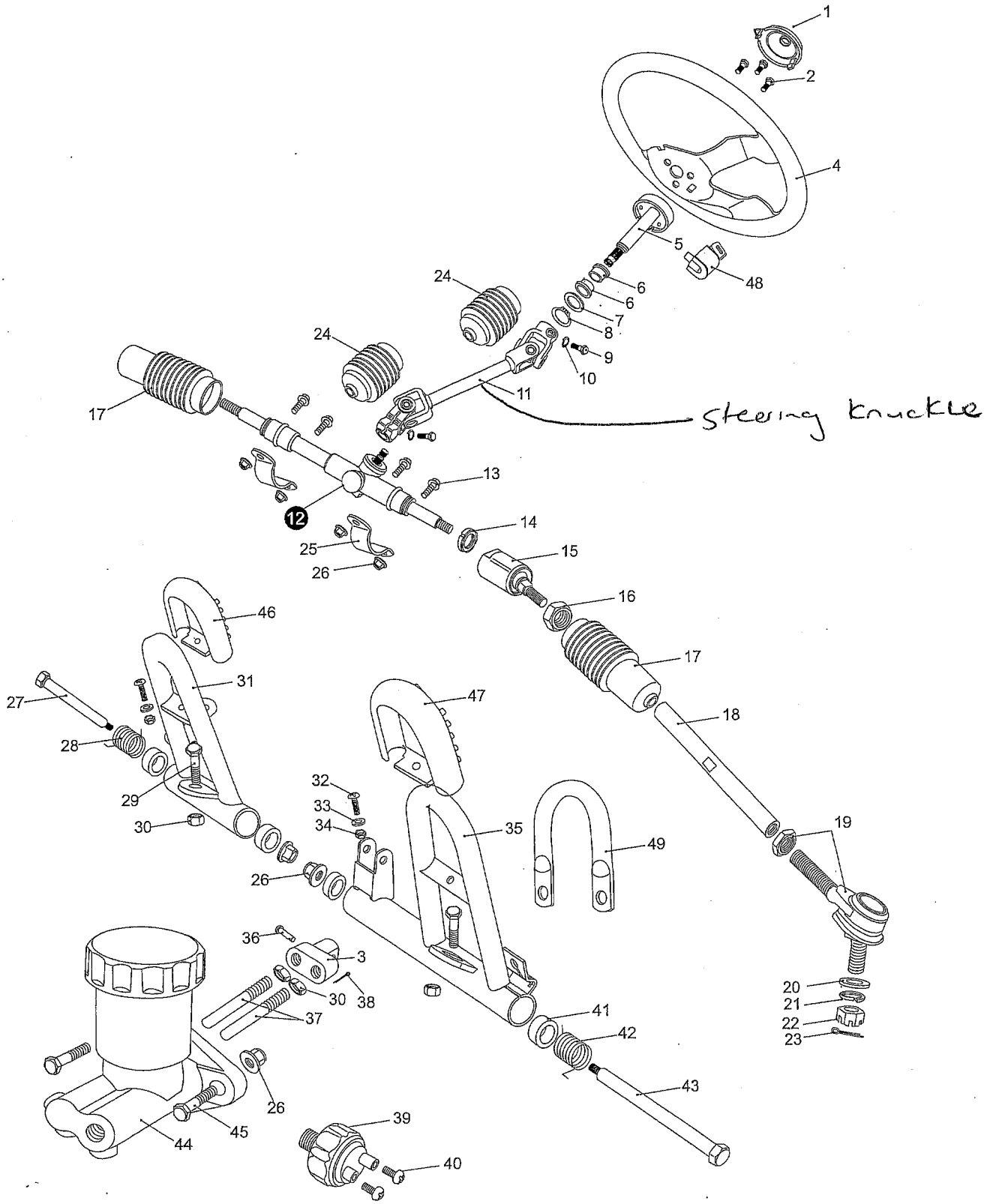


FRAME GROUP

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	6.000.061	C.B.C. CROSS BAR, FR (B.R.S.)	1
2	8.070.034	C.B.C. BAR CAGE (B.R.S.)	2
3	8.080.033	C.B.C. CROSS BAR, RR (B.R.S.)	1
4	8.070.035	C.B.C. BAR, L./R. SIDE (B.R.S.)	2
5	2.000.045	FRAME COMP. (B.R.S.)	1
6	8.010.047	R-WASHER	18
7	9.908.050N	SOCKET BOLT M8 x 1.25 x 50	6
8	9.908.055N	SOCKET BOLT M8 x 1.25 x 55	10
9	9.300.016	WASHER Φ16	1
10	2.200.001	TOW BALL	1
11	9.400.016	LOCK WASHER Φ16	1
12	9.101.625	BOLT M16 x 25	1
13	9.112.025	BOLT-WASHER M12 x 1.25 x 25	4
14	9.220.012	LOCKING FLANGE NUT M12	4
15	7.020.012	RUBER FOOT PLATE	2
16	6.000.104	HEADLIGHT UNIT	2
17	9.108.050	BOLT-WASHER M8 x 1.25 x 50	2
18	6.000.155	WINKER LIGHT ASSY. L. FR./R.RR.	2
19	6.000.156	WINKER LIGHT ASSY. R. FR./L.RR.	2
20	9.700.004	BANJO BOLT M10x24	6
21	6.000.089	BRAKE HOSE ASSY. L. 34"	1
22	6.000.090	BRAKE HOSE ASSY. R. 43"	1
23	6.000.230	BRAKE HOSE ASSY. RR. 80"	1
24	6.000.232	THROTTLE CABLE COMP.	1
25	9.106.012	BOLT M6 x 12	2
26	6.000.231	PARKING BRAKE CABLE COMP.	1
27	7.010.017	TUBE SEAT Φ25	6
28	7.010.016	TUBE SEAT Φ32	2
29	9.090.003	HEADLIGHT BULB 35W/35W/ 12V	2
30	7.010.034	FENDER, FR.	2
31	6.000.067	FRONT FENDER BRACKET, L.	1
32	9.100.640	BOLT M6 x 40	2
33	9.210.008	LOCKING FLANGE NUT M6	10
34	7.020.049	HEADLIGHT RUBBER MOUNT	4
35	9.106.014	BOLT-WASHER M6 x 14	6
36	6.000.135	HORN, H.	1
37	6.000.136	HORN, L.	1
38	9.100.525	BOLT M5 x 25	1
39	8.010.086	REAR MIRROR MOUNT	1
40	8.040.005	REAR VIEW MIRROR SPRING	1
41	6.000.084	REAR MIRROR ASSY.	1
42	6.000.102	FRONT FENDER BRACKET, R.	1
43	6.000.083	FOAM PADDING-1	2
44	6.000.116	FOAM PADDING-2	2
45	9.000.004	POSITION LIGHT BULB 3W 12V	2
46	6.000.114	FRONT REFLECTOR	2
47	9.090.006	WINKER BULB 10W 12V	4
48	9.220.008	LOCKING FLANGE NUT M8	2
49	9.110.110	BOLT M10 x 1.25 x 110	2
50	9.220.010	LOCKING NUT M10 x 1.25	2
51	2.100.001	SWAY BAR BRACE BUSHING	1
52	2.100.002	SWAY BAR BRACE	1
53	9.106.012	BOLT M6 x 12	2

FIG.19

STEERING SHAFT ASSY.

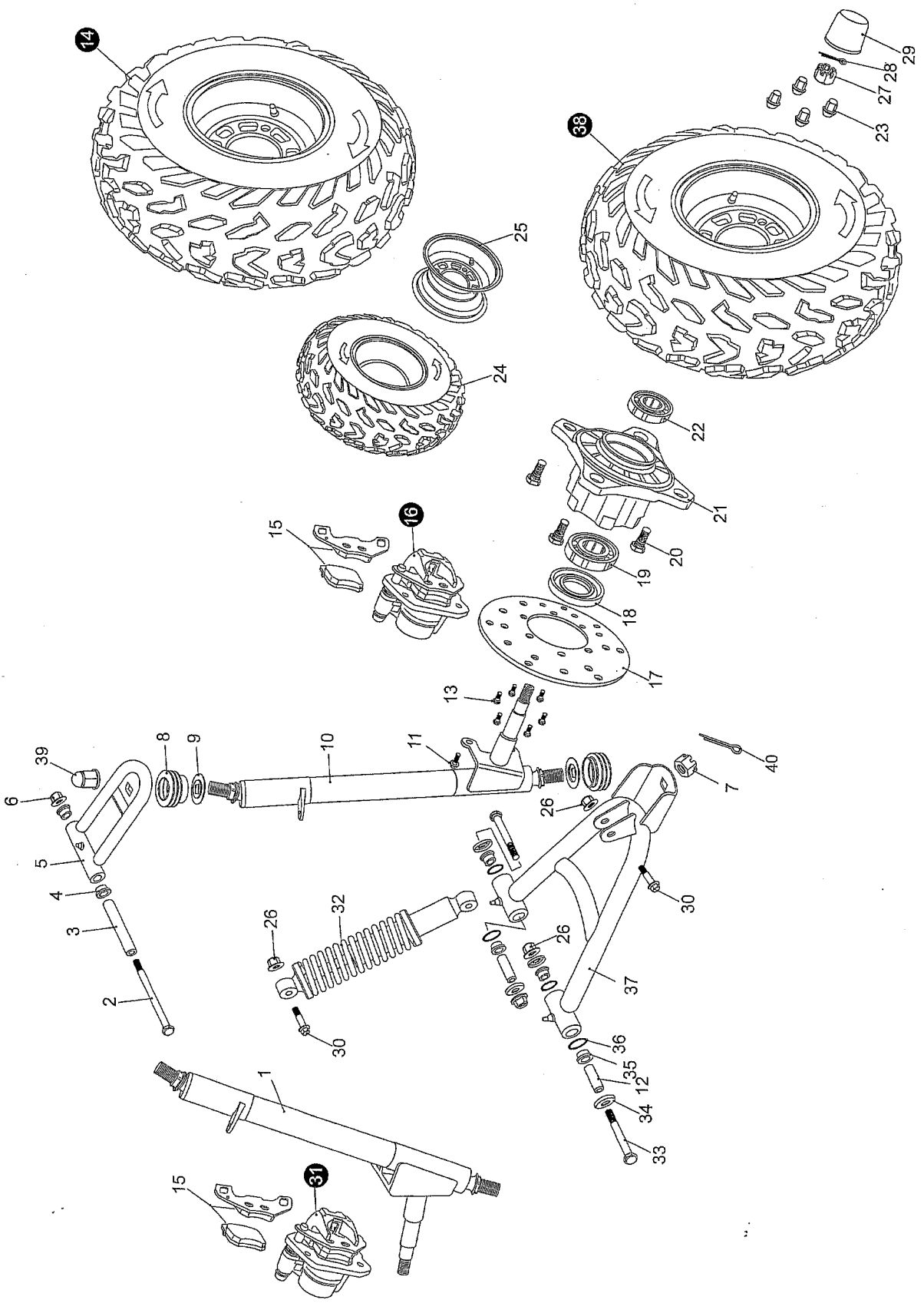


STEERING SHAFT ASSY.

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	7.010.041	STEERING BOLT COVER	1
2	9.100.612	BOLT STRAP M6 x 12	3
3	8.030.024	SPINDLE BRACKET	1
4	7.020.038	STEERING WHEEL	1
5	6.000.122	STEERING SHAFT	1
6	7.010.026	STEERING SHAFT BUSH	2
7	9.700.020	SPECIAL WASHER Φ20	1
8	9.700.120	CIRCLIP Φ20	1
9	9.100.825	BOLT M8 x 25	2
10	9.400.008	LOCK WASHER Φ8	2
11	6.000.093	STEERING KNUCKLE	1
12	84.000.014	STEERING GEAR	1
13	9.108.025	BOLT-WASHER M8 x 1.25 x 25	4
14	9.900.016	ROUND NUT M16 x 1.5	2
15	4.000.008	STEERING BALL JOINT	2
16	9.200.010	NUT M10	2
17	7.020.002	BALL JOINT DUST COVER	2
18	8.010.157	TIE ROD	2
19	6.000.062	ROD END	2
20	9.300.010	FLAT WASHER Φ10	2
21	9.400.010	LOCK WASHER Φ10	2
22	9.800.010	CASTLE NUT M10	2
23	9.500.215	COTTER PIN Φ2 x 15	2
24	7.020.066	STEERING KNUCKLE DUST COVER	2
25	8.020.014	STEERING GEAR BRACKET	2
26	9.220.008	LOCKING FLANGE NUT M8	8
27	9.708.145	THROTTLE PEDAL BOLT M8 x 1.25 x 145	1
28	8.040.001	THROTTLE PEDAL RETURN SPRING, L.	1
29	9.108.040	BOLT-WASHER M8 x 1.25 x 40	2
30	9.200.008	NUT M8	2
31	4.000.016	THROTTLE PEDAL COMP.	1
32	9.600.515	PAN SCREW M5 x 15	2
33	9.300.005	FLAT WASHER Φ6	2
34	9.210.005	NYLON LOCK NUT M5	2
35	84.000.015	BRAKE PEDAL COMP.	1
36	9.700.624	PIN Φ6 x 24	1
37	8.010.081	SPINDLE PIN	2
38	9.500.212	COTTER PIN Φ2 x 12	1
39	6.000.063	BRAKE LAMP SWITCH ASSY.	1
40	9.600.306	PAN SCREW M3 x 6	2
41	7.010.004	PEDAL BUSH	4
42	8.040.007	BRAKE PEDAL RETURN SPRING, R.	1
43	9.708.222	BRAKE PEDAL BOLT M8 x 1.25 x 222	1
44	6.000.076	MASTER CYLINDER	1
45	9.108.035	BOLT-WASHER M8 x 1.25 x 35	2
46	7.020.036	THROTTLE PEDAL PAD	1
47	7.020.037	BRAKE PEDAL PAD	1
48	6.000.134	STEERING WHEEL LOCK	1
49	8.070.044	MASTER CYLINDER BRACKET	1

FIG.20

FRONT SUSPENSION ARM ASSY.

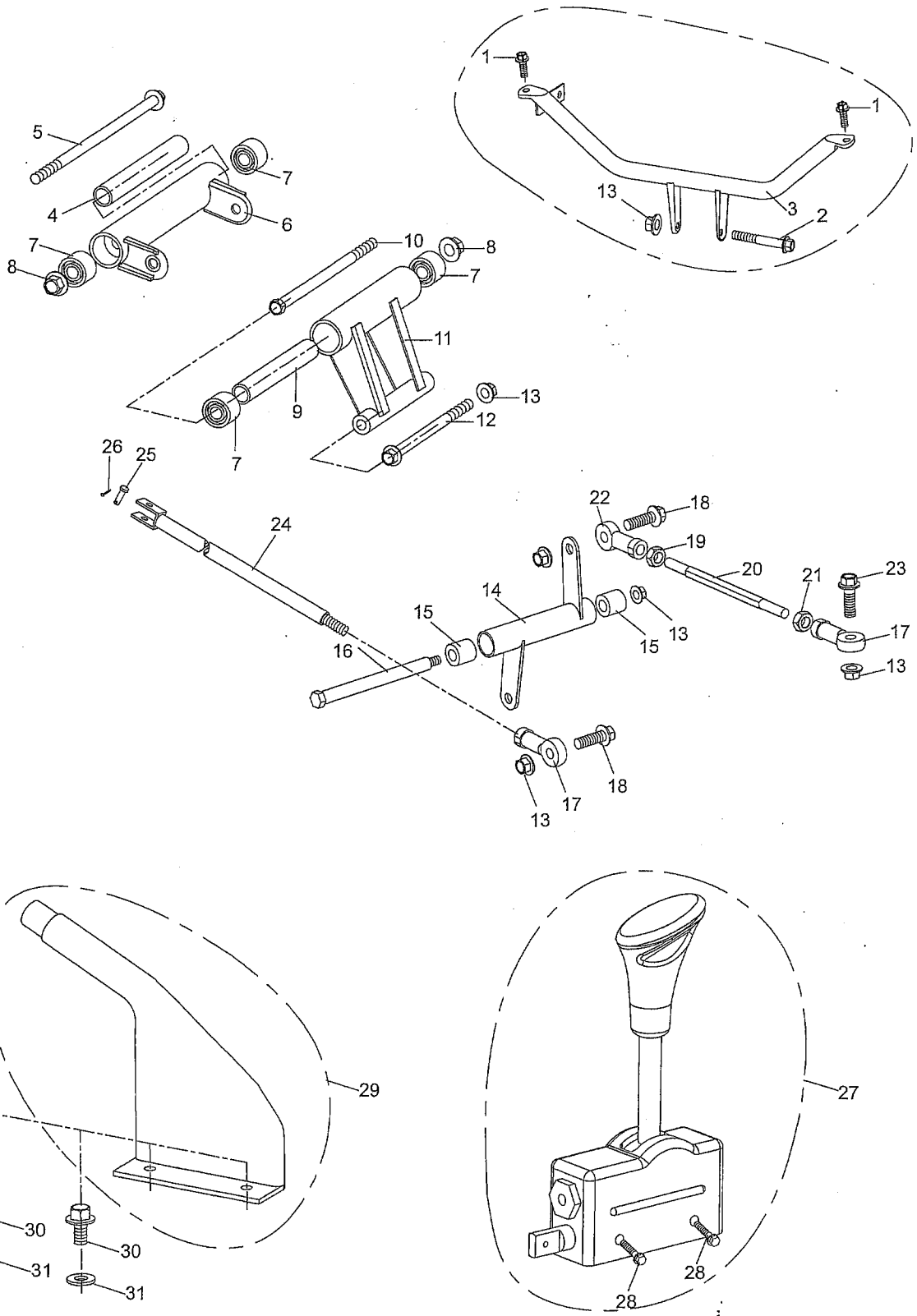


FRONT SUSPENSION ARM ASSY.

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	2.000.028	STRUT AND SPINDLE SUPPORT, R.	1
2	9.108.105	BOLT-WASHER M8 x 1.25 x 105	2
3	8.010.015	UPPER SUSPENSION ARM COLLAR	2
4	7.010.003	UPPER SUSPENSION ARM BUSH	4
5	4.000.004	UPPER SUSPENSION ARM	2
6	9.220.008	LOCKING FLANGE NUT M8	2
7	9.800.012	CASTLE NUT M12	2
8	7.020.025	BALL HEAD DUST SEAL	4
9	8.020.053	BALL HEAD SPACER	4
10	2.000.027	STRUT AND SPINDLE SUPPORT, L.	1
11	9.908.104	BOLT STRAP M8 x 14	4
12	8.010.014	LOWER SUSPENSION ARM COLLAR	4
13	9.906.012	BOLT STRAP M6 x 12	12
14	6.000.141	FR. WHEEL ASSY., R. 20 x 7-8	1
15	7.020.016	FR. BRAKE CALIPER PAD SET	2
16	6.000.028	FRONT BRAKE CALIPER, L.	1
17	8.010.054	BRAKE DISC.	2
18	9.040.002	DUST SEAL 47 x 25-7	2
19	9.030.002-Z	BEARING 6204-Z	2
20	9.710.031	TIRE BOLT M10 x 1.25 x 31	8
21	8.010.085	WHEEL HUB	2
22	9.030.010-Z	BEARING 6202-Z	2
23	8.010.118	CAP LUG NUT M10	8
24	7.020.050	TIRE, FR. 20 x 7-8	2
25	6.000.142	RIM,FR.	2
26	9.220.010	LOCKING FLANGE NUT M10	8
27	9.800.014	CASTLE NUT M14	2
28	9.500.220	COTTER PIN Φ2 x 20	2
29	7.020.039	HUB COVER	2
30	9.110.040	BOLT-WASHER M10 x 1.25 x 40	4
31	6.000.095	FRONT BRAKE CALIPER, R.	1
32	6.000.325	CUSHION ASSY., FR. L=325	2
33	9.110.080	BOLT-WASHER M10 x 1.25 x 80	4
34	8.020.034	LOWER SUSPENSION ARM DUST CAP	8
35	7.010.002	LOWER SUSPENSION ARM BUSH	8
36	9.040.001	O-RING Φ21.2 x 2.65	8
37	4.000.023	LOWER SUSPENSION ARM ASSY.	2
38	6.000.140	FR. WHEEL ASSY., L. 20 x 7-8	1
39	8.010.140	ACORN NUT M12	2
40	9.500.200	COTTER PIN Φ3.2 x 26	2

FIG.21

FULL SHIFTING ASSY.

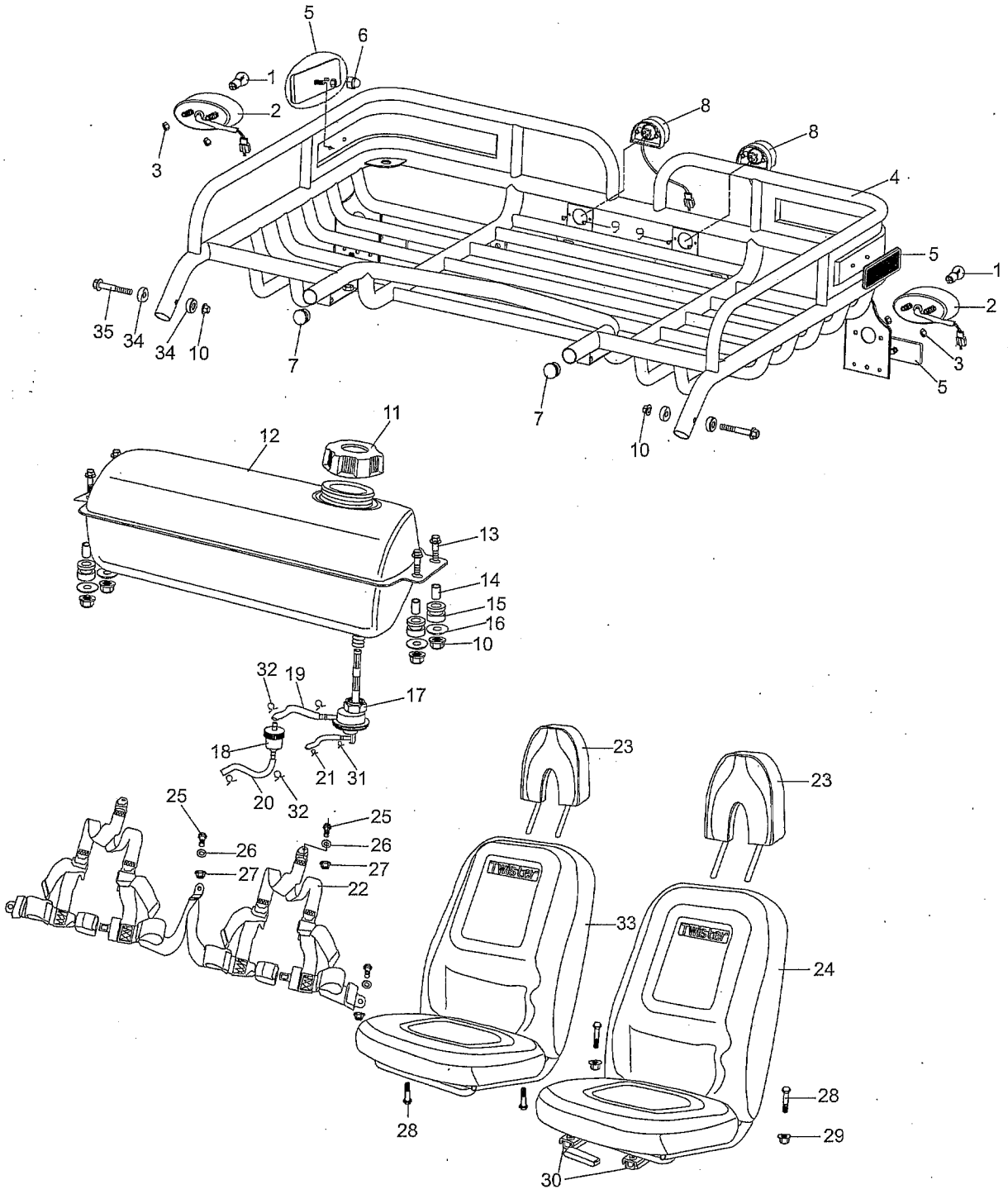


FULL SHIFTING ASSY.

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	9.110.020	BOLT-WASHER M10 x 20	2
2	9.110.100	BOLT-WASHER M10 x 100	3
3	6.000.240	GEAR BOX SUSPENSION ARM	1
4	8.010.168	COLLAR #1	1
5	9.112.230	BOLT-WASHER M12 x 1.2 5 x 230	1
6	6.000.239	PIVOT ARM SHIFT C	1
7	7.020.068	CUSHION BUSH	4
8	9.220.012	LOCKING FLANGE NUT M12	2
9	8.010.167	COLLAR #2	1
10	9.112.190	BOLT-WASHER M12 x 1.25 x 190	1
11	6.000.238	PIVOT ARM SHIFT B	1
12	9.110.200	BOLT-WASHER M10 x 1.25 x 200	1
13	9.220.010	LCOKING FLANGE NUT M10	5
14	6.000.237	PIVOT ARM SHIFT A	1
15	7.010.004	PEDAL BUSH	2
16	9.108.145	BOLT M8 x 1.25 x 145	1
17	6.000.235	RIGHT TURN CLEVIS ROD HEAD	1
18	9.110.030	BOLT-WASHER M10 x 30	2
19	9.200.010	RIGHT TURN NUT M10	1
20	6.000.236	SHORT CLEVIS ROD	1
21	9.200.010-L	LEFT TURN NUT M10	1
22	6.000.234	LEFT TURN CLEVIS ROD HEAD	1
23	9.110.040	BOLT-WASHER M10 x 40	1
24	6.000.233	LONG CLEVIS ROD	1
25	9.700.513	PIN Φ5 x 13.5	1
26	9.500.212	COTTER PIN	1
27	4.000.031	SHIFTER HOUSE ASSY.	1
28	9.100.612	BOLT M6 x 12	4
29	6.000.258	PARKING BRAKE ASSY.	1
30	9.108.020	BOLT-WASHER M8 x 20	2
31	9.300.008	WASHER Φ8	2

FIG.22

REAR CARGO RACK/ SEAT/ BELT

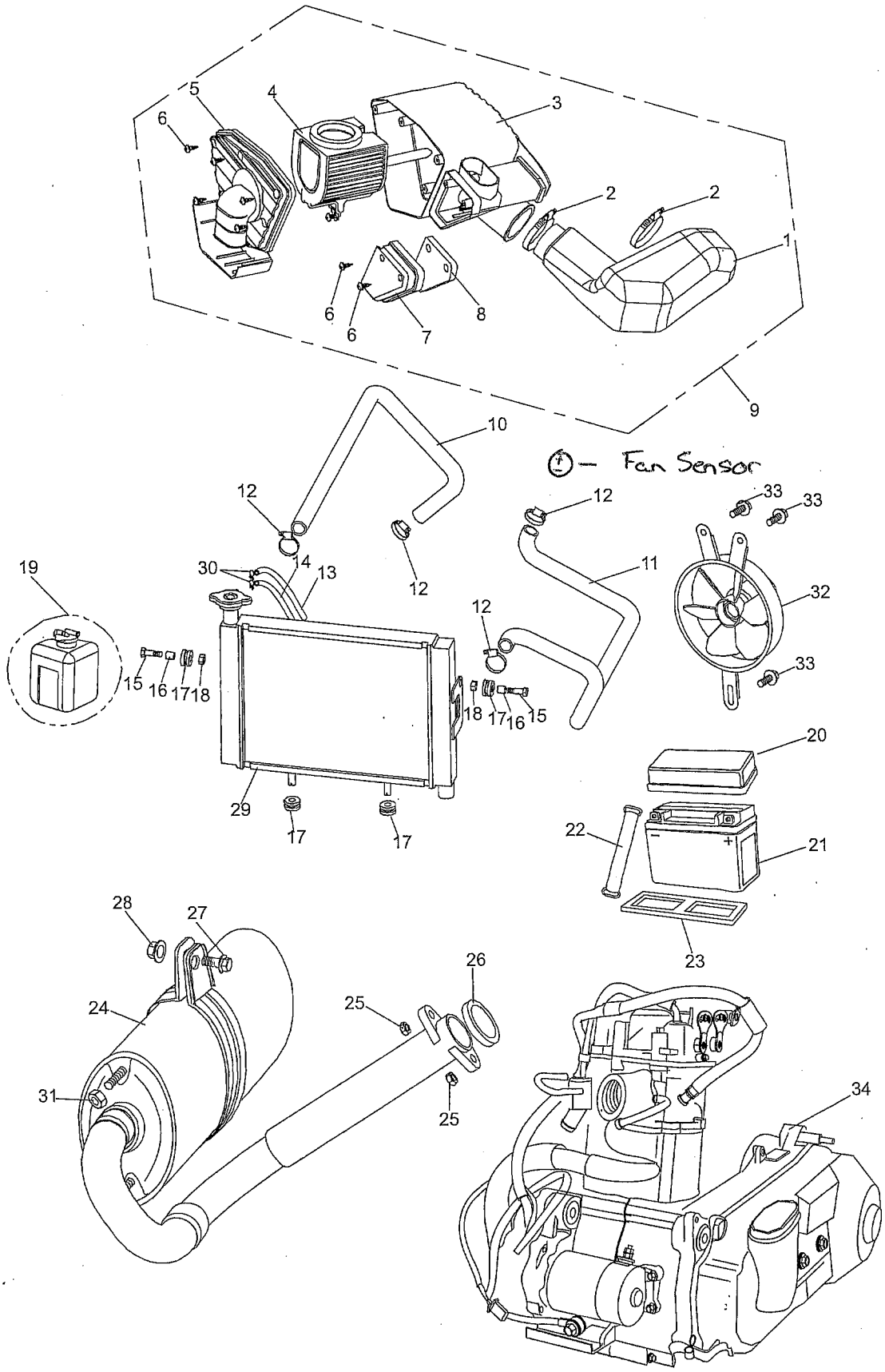


REAR CARGO RACK/ SEAT/ BELT

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	9.090.005	TAIL LIGHT BULB 21W/5W 12V	2
2	6.000.144	TAIL LIGHT	2
3	9.210.006	LOCK NYLON NUT M6	4
4	2.000.046	REAR CARGO RACK (B.R.S.)	1
5	6.000.111	REAR SIDE REFLECTOR ®	4
6	8.010.171	LUG NUT	2
7	7.020.032	TUBE COVER	2
8	6.000.241	LICENSE LIGHT ASSY.	2
9	9.804.003	SCREW ST3.5 x 10	4
10	9.220.008	LOCK FLANGE NUT M8	6
11	6.000.145	FUEL TANK CAP COMP.	1
12	4.000.029	FUEL TANK COMP. (B.R.S.)	1
13	9.108.025	BOLT-WASHER M8 x 1.25 x 25	4
14	8.010.034	TANK COMP. COLLAR	4
15	7.020.005	RUBBER MOUNT	4
16	9.300.008	FLAT WASHER Φ8	4
17	6.000.046	FUEL AUTO COCK ASSY.	1
18	6.000.056	GAS FILTER	1
19	7.020.030	TUBE COMP. FUEL #1	1
20	7.020.029	TUBE COMP. FUEL #2	1
21	7.020.031	TUBE COMP. VACUUM	1
22	6.000.146	SAFETY BELT	1
23	6.000.094	HEAD-REST	2
24	6.000.081	SEAT COMP. L.	1
25	9.700.001	SPECIAL BOLT M7/16" x 28	1
26	9.700.002	BELT WASHER Φ12	1
27	9.700.003	NUT BELT M7/A6"	1
28	9.900.840	BOLT STRAP M8 x 1.25 x 40	2
29	9.220.008	LOCK FLANGE NUT M8	2
30	6.000.057	SEAT RAIL SET	1
31	8.040.008	VACUUM TUBE	2
32	8.040.009	FUEL TUBE	4
33	6.000.082	SEAT COMP. R.	1
34	8.010.047	R-WASHER	4
35	9.908.055	BOLT STRAP M8 x 1.25 x 55	2

FIG.23

AIR CLEANER/ RADIATOR/ BATTERY/ MUFFLER ASSY.

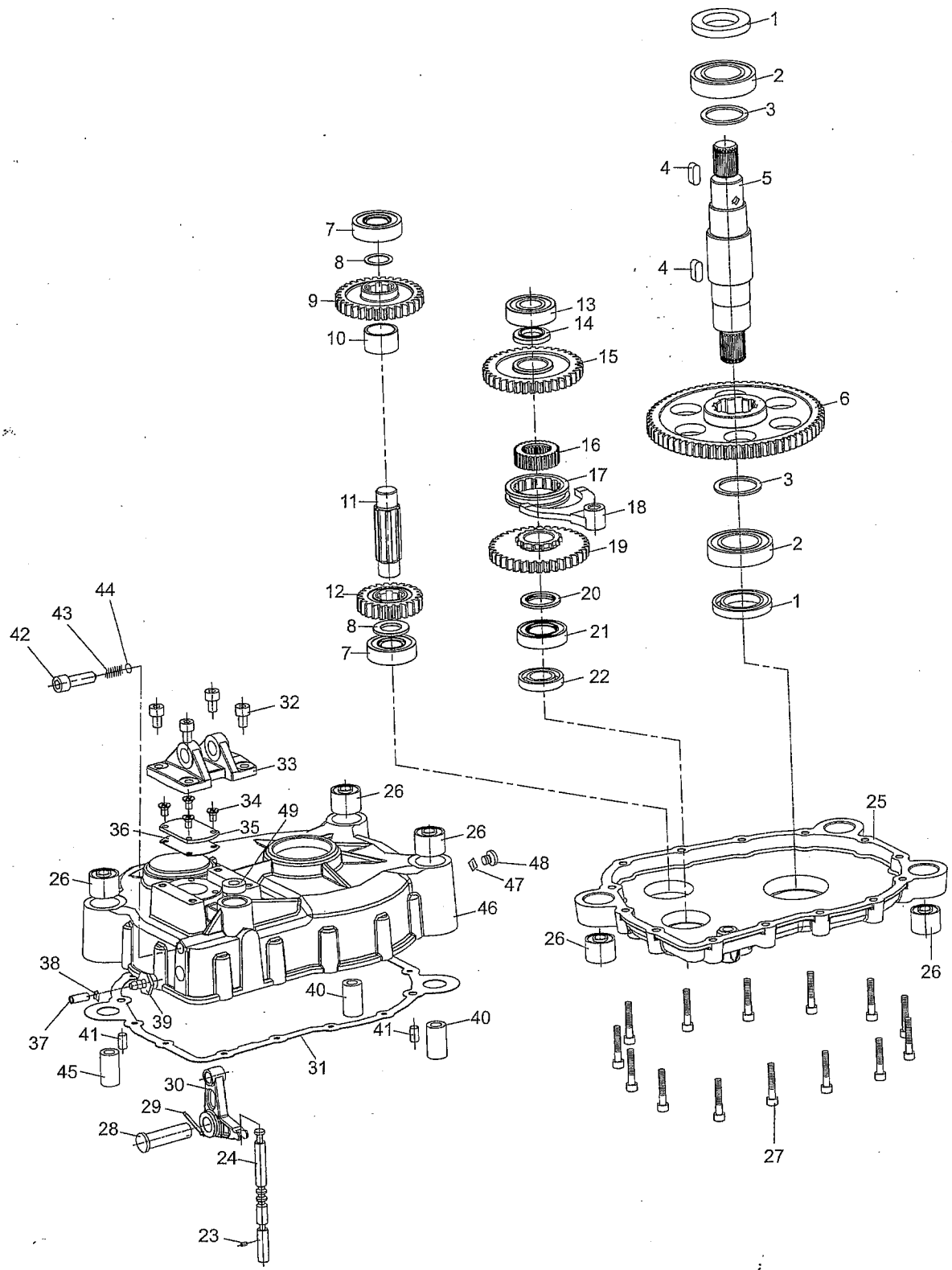


AIR CLEANER/ RADIATOR/ BATTERY/ MUFFLER ASSY.

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	7.090.035	AIR CLEANER DUCT	1
2	7.090.036	AIR CLEANER CLAMP	2
3	7.090.037	AIR CLEANER CASE COMP.	1
4	7.090.038	AIR CLEANER ELEMENT	1
5	7.090.039	AIR CLEANER COVER	1
6	9.805.003	TAPPING SCREW M5 x 16	7
7	7.090.040	AIR CLEANER GAUZE COVER	1
8	7.090.041	AIR CLEANER ELEMENT GAUZE	1
9	4.000.032	AIR CLEANER ASSY.	1
10	7.090.042	TUBE COMP. WATER 1#	1
11	7.090.043	TUBE COMP. WATER 2#	1
12	7.090.044	TUBE CLAMP	4
13	7.090.045	TUBE COMP. WATER 3#	1
14	7.090.046	TUBE COMP. WATER 4#	1
15	9.100.830	BOLT M8 x 30 x 1.25	2
16	7.090.047	RADIATOR COMP. COLLAR	2
17	7.020.069	RUBBER MOUNT	2
18	9.200.008	NUT M8	2
19	6.000.248	COLLANT TANK	1
20	7.010.028	BATTERY COVER	1
21	6.000.085	BATTERY (YTX12-BS)	1
22	7.021.023	BATTERY BAND	1
23	7.020.020	BATTERY LOWER	1
24	7.090.049	MUFFLER COMP. EX.	1
25	9.040.027	MUFFLER JOINT NUT M6	2
26	7.090.050	EX. PIPE GASKET	1
27	9.110.030	BOLT-WASHER M10 x 1.25 x 30	1
28	9.020.010	NUT M10	1
29	4.000.033	RADIATOR COMP.	1
30	7.090.051	TUBE CLAMP	2
31	9.200.006	NUT M6	2
32	6.000.249	FAN COMP.	1
33	7.090.052	BOLT	6
34	2.000.047	250CC ENGINE	1
	KSY/M250FANSENSOR	Fan Sensor Switch - bottom of radiator	

FIG.24

GEAR BOX ASSY.

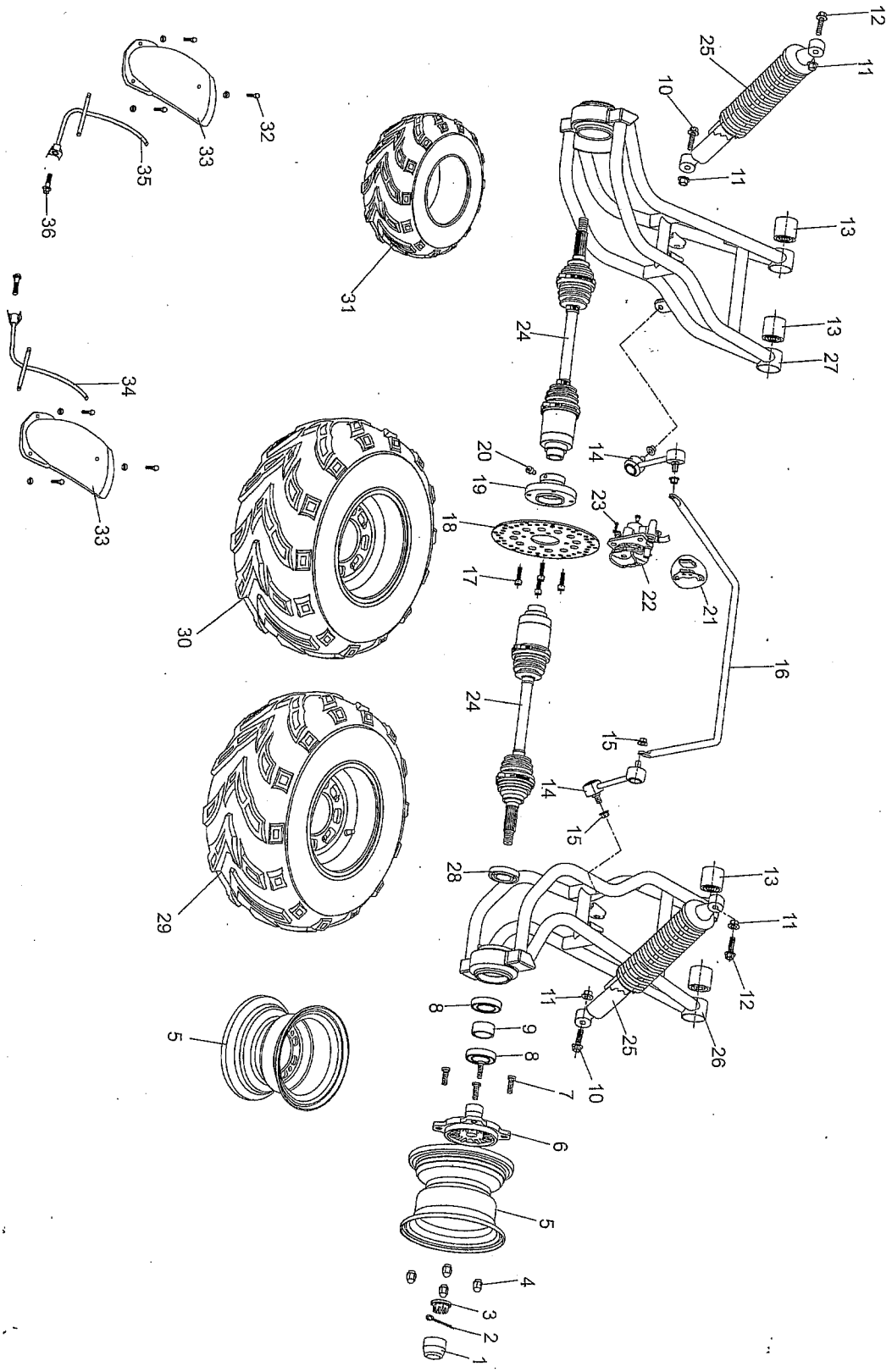


GEAR BOX ASSY.

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	9.040.012	DUST SEAL Φ56 x 35 x 10	2
2	9.030.011	BEARING RADIAL BALL E6007	2
3	7.090.001	WAHSER Φ45 x 35 x 2	2
4	7.090.002	KEY STOCK	2
5	7.090.003	FINAL SHAFT	1
6	7.090.004	FINAL GEAR	1
7	9.030.002	BEARINGN RADIAL BALL E6204	2
8	7.090.005	WAHSER Φ35 x 20.5 x 2	2
9	7.090.006	COUNTER GEAR A	1
10	7.090.007	COLLER	1
11	7.090.008	COUNTER SHAFT	1
12	7.090.009	COUNTER GEAR B	1
13	9.030.005	BEARING RADIAL BALL E6005	1
14	7.090.010	WASHER Φ35 x 20 x 5.5	1
15	7.090.011	IN PUT GEAR A	1
16	7.090.012	INTERNAL GEAR	1
17	7.090.013	SLIDER COLLAR	1
18	7.090.014	PIVOT ARM SLIDER	1
19	7.090.015	IN PUT GEAR B	1
20	7.090.016	WASHER Φ35 x 25 x 4	1
21	7.090.017	BEARING RADIAL BALL E6204	1
22	9.040.013	DUST SEAL Φ42 x 25 x 8	1
23	7.090.018	LOCKING PIN IN/OUT Φ4 x 8	1
24	7.090.019	PIVOT GEAR SHIFT	1
25	8.030.041	L-SIDE CASE COVER	1
26	7.090.020	SWING ARM CUSHION BUSH	6
27	9.106.040	BOLT-WAHSER M6 x 40	14
28	7.090.021	PIVOT SHAFT PIN	1
29	9.500.408	COTTER PIN Φ4 x 8	1
30	7.090.022	PIVOT ARM SHAFT	1
31	7.090.023	GEAR CASE COVER GASKET	1
32	9.108.020	BOLT-WASHER M8 x 20	4
33	7.090.024	OUTER SHIFT BRACKET	1
34	9.100.610	BOLT M6 x 10	4
35	7.090.025	GASKET PLANE	1
36	7.090.026	GASKET	1
37	7.090.027	AIR TUBE	1
38	7.090.028	TUBE CLIP	1
39	7.090.029	AIR VENT	1
40	7.090.030	COLLAR A	2
41	7.090.031	DOWEL PIN Φ8 x 20	2
42	9.101.025	BOLT M10 x 25	1
43	7.090.032	SPRING	1
44	7.090.033	STEEL BALL	1
45	7.090.035	COLLAR B	1
46	8.030.040	GEAR CASE	1
47	9.700.008	WASHER Φ8	1
48	9.100.812	BOLT M8 x 12	1
49	9.040.014	DUST SEAL Φ22 x 10 x 7	1

FIG.25

REAR SUSPENSION ASSY.

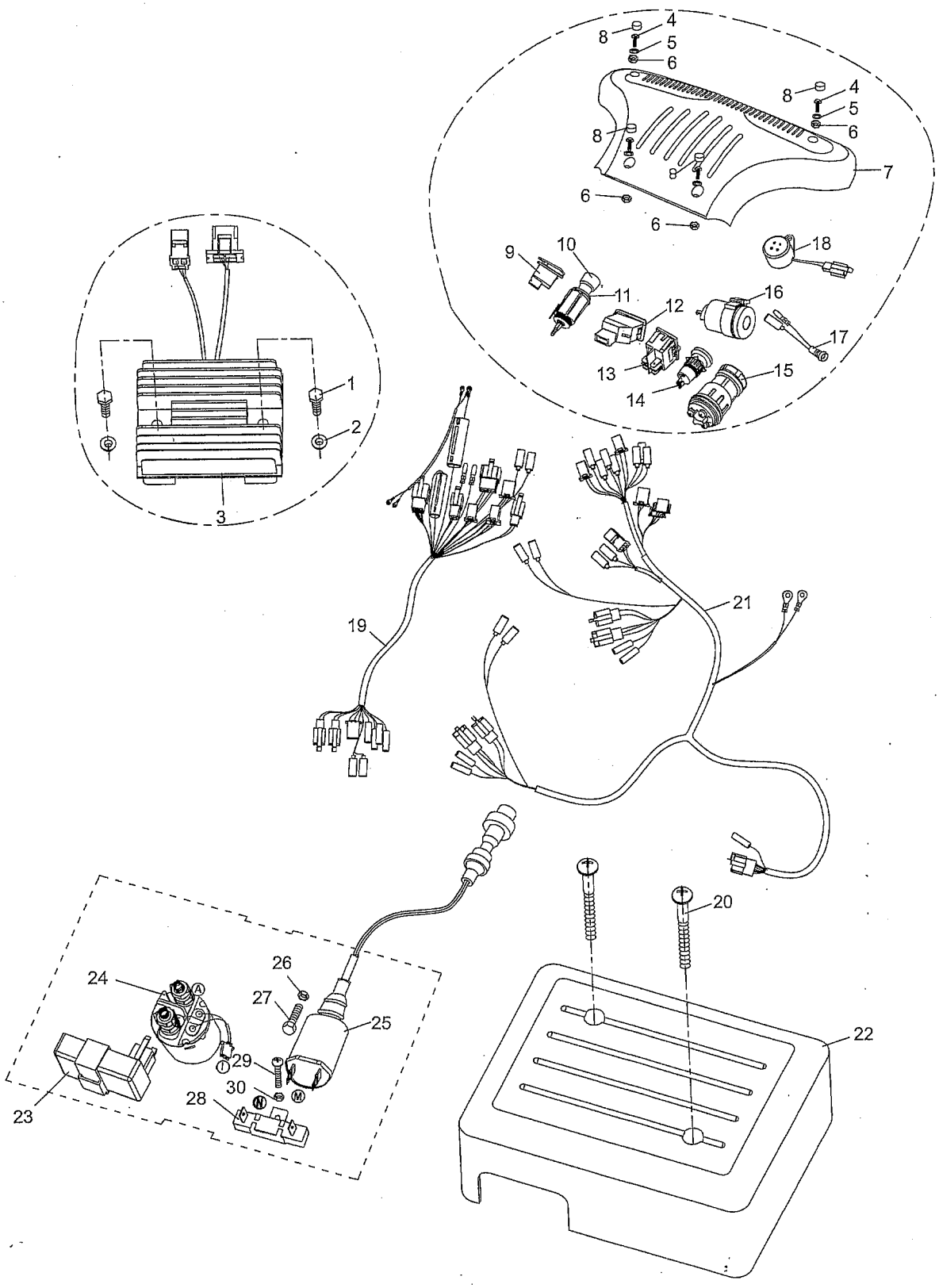


REAR SUSPENSION ASSY.

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	7.020.039	RR. HUB COVER	2
2	9.500.430	COTTER PIN Φ4 x 30	2
3	9.800.018	CASTLE NUT M18	2
4	8.010.118	LUG NUT CAP M10	8
5	6.000.143	RIM, RR.	2
6	8.010.169	REAR WHEEL HUB	2
7	9.710.031	TIRE BOLT. M10 x 1.25 x 31	8
8	9.030.007	BEARING 6007	4
9	8.010.170	COLLAR	2
10	9.112.055	BOLT-WASHER M12 x 1.25 x 55	2
11	9.220.012	LOCKING FLANGE NUT M12 x 1.25 x 50	4
12	9.112.050	BOLT-WASHER M12 x 1.25 x 50	2
13	7.020.008	SWING ARM CUSHION BUSH	4
14	6.000.242	BALANCE LEVER LINK ROD	2
15	9.220.010	LOCKING FLANGE NUT M10 x 1.25	2
16	6.000.243	BALANCE LEVER	1
17	9.108.020	BOLT-WASHER M8 x 20 x 1.25	4
18	8.010.053	RR. BRAKE DISC.	1
19	8.030.036	BRAKE DISC. BASE	1
20	9.101.018	BOLT M10 x 1.5 x 18	1
21	7.020.022	RR. BRAKE PAD SET	1
22	6.000.229	CALIPER HYDRAULICAL BRAKE, RR.	1
23	9.908.014	ALLEN HEAD BOLT M8 x 1.25 x 16	2
24	6.000.244	CV/ SHAFT JOINT	2
25	6.000.245	CUSHION ASSY., RR. L=480	2
26	6.000.247	SWING ARM COMP. R.	1
27	6.000.246	SWING ARM COMP. L.	1
28	9.040.011	DUST SEAL Φ62 x 44 x 10	2
29	6.000.148	REAR WHEEL ASSY., R.	1
30	6.000.147	REAR WHEEL ASSY., L.	1
31	7.020.052	TIRE, RR. 22 x 10-10	1
32	9.906.016	BOLT-WASHER M6 x 16	6
33	7.010.059	FENDER, RR.	2
34	6.000.068	REAR FENDER BRACKET, R.	1
35	6.000.101	REAR FENDER BRACKET, L.	1
36	9.108.045	BOLT-WASHER M8 x 1.25 x 45	2

FIG.26

WIRE HARNESS/ELECTRICAL



WIRE HARNESS/ELECTRICAL

REF NO.	PART NO.	DESCRIPTION	REGD NO.
1	9.100.630	BOLT M6 x 30	2
2	9.200.006	NUT M6	2
3	6.000.250	REGULATE RECTIFIER COMP.	1
4	9.600.615	PAN SCREW M6 x 15	4
5	9.300.006	WASHER Φ6	4
6	9.210.005	LOCKING NYLON NUT M6	2
7	7.010.038	SWITCH PANEL COVER	1
8	7.010.061	BOLT COVER	4
9	6.000.079	HORN SWITCH	1
10	7.020.051	POWER OUTLET COVER	1
11	6.000.087	POWER OUTLET	1
12	6.000.113	WINKER SWITCH UNIT	1
13	6.000.160	DIMMER SWITCH UNIT	1
14	6.000.159	ENGINE STOP BUTTON	1
15	6.000.158	IGNITION START SWITCH	1
16	6.000.153	RELAY COMP. AUDIBLE PILOT & WINKER	1
17	6.000.251	TEMPERATURE BUZZER	1
18	6.000.252	HORN RECTIFIER	1
19	6.000.253	SOCKET COMP.	1
20	9.600.655	PAN SCREW M6 x 55	2
21	6.000.254	WIRE HARNESS	2
22	7.010.029	ELECTRIC ASSY. COVER	1
23	6.000.255	C.D.I. UNIT COMP.	1
24	6.000.256	STARTING RELAY	1
25	6.000.257	IGNITION COIL COMP.	1
26	9.210.006	LOCK NYLON NUT M5	1
27	9.600.525	PAN SCREW M5 x 25	1
28	6.000.038	RESISTOR COMP. 10W 10	1
29	9.600.410	PAN SCREW M4 x 10	1
30	9.210.004	LOCK NYLON NUT M4	1

WARNING STICKERS



WARNING STICKERS				
REF NO.	**PART NO.**	**DESCRIPTION**	**REGD NO.**	
1	9.090.007	LABEL. PARKING BRAKE	1	
2	9.090.008	LABEL. REVERSE LEVER	1	
3	9.090.023	LABEL.GEAR CASE	1	
4	9.090.010	LABEL. NO LONG HAIR	1	
5	9.090.011	LABEL. WARNING	1	
6	9.090.012	LABEL. NO CLIMBING	1	
7	9.090.013	LABEL. WARNING	1	
8	9.090.014	LABEL. SEAT BELT	1	
9	9.090.024	LABEL.RADIATOR	1	
10	9.090.016	LABEL. TWISTER	3	
11	9.090.017	LABEL. WARNING	1	
12	9.090.025	LABEL.HAMMERHEAD 250	1	
13	9.090.026	LABEL.HAMMERHEAD 250 R.SIDE	1	
14	9.090.027	LABEL.HAMMERHEAD 250 L.SIDE	1	