

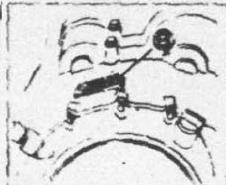
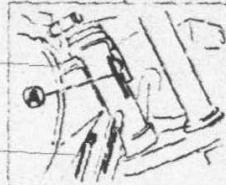
YAMAHA

PARTS CATALOGUE

MODEL YEAR 1982 XJ650RJ (5V2)

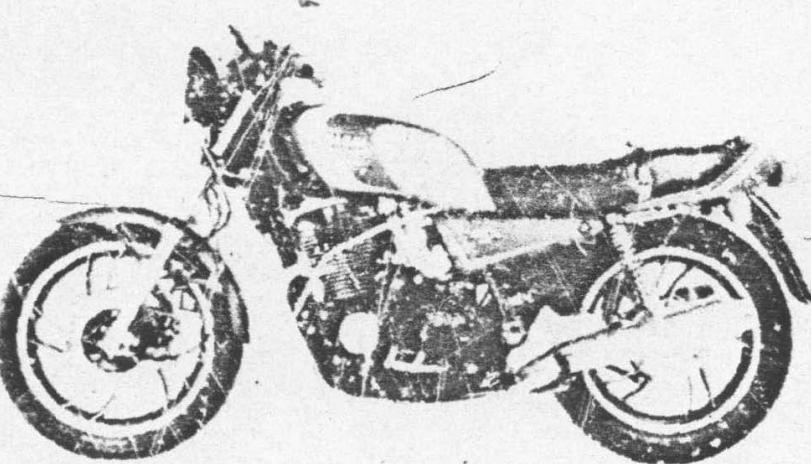
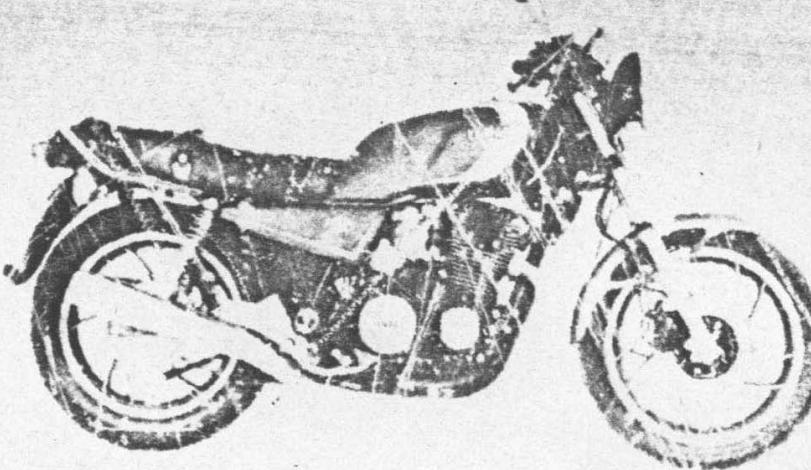
Initial Serial No.

A Frame Serial No.	5V2-CDU0101 and following
B Engine Serial No.	5V2-0000101 and following



PUBLICATION	PART NUMBER	REMARKS
Owner's Manual	LIT-11625-02-83	
Service Manual	LIT-11625-02-86	
Assembly Manual	LIT-11666-02-86	SUED TO XJ650G, H, LK, (31.94)
Consumer Information	LIT-11666-02-86	

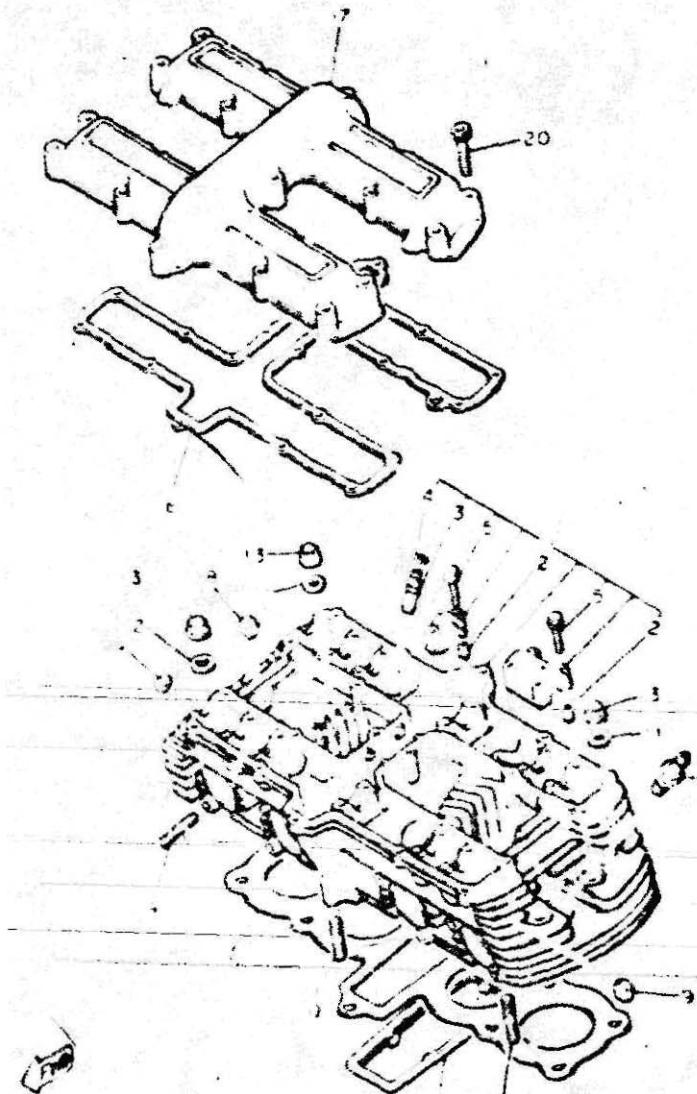
MODEL - ITEM NO. NUMBER	XJ650RJ	5V2
Initial Engine Number / Frame Number	5V2-000101 - 5V2-0000101	
Basic Colors:	Quartz Silver	
Fuel Type	Fuel Tank Capacity	Reserve Capacity
Dry Vehicle Weight	Regular: 173 kg / 381 lb	
ENGINE TYPE	210 kg	
Bore Stroke Number Cylinders Displacement (cc)	4-Stroke, Air-Cooled, 51.9 mm x 64.66 mm 33mm x 44mm x 1.4" x 6.466	Parallel Four
Compression Ratio Compression Pressure Min-Max	9.2 : 9.5 - 1.9 kg/cm ²	



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VALVE	

CYLINDER HEAD

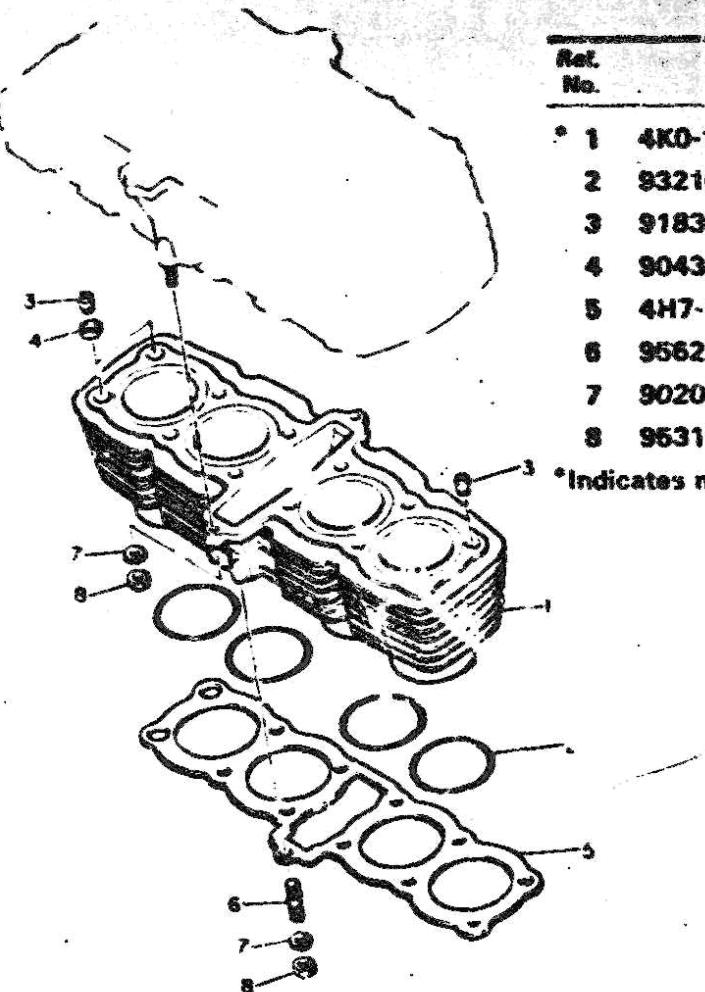


Ref. No.	Part Number	Description	Qty.	Remarks
1	4K0-11110-00-00	CYLINDER HEAD ASS'Y.	1	
2	91B10-18016-00	P.N. dowel	12	
3	4H7-11133-10-00	GUIDE, intake valve (1st O/S)	8	
4	93440-12052-00	CIRCLIP.....	8	
5	90105-06153-00	BOLT, washer based.....	20	
6	95611-08325-00	BOLT, stud.....	1	
7	95611-06630-00	BOLT, stud.....	8	
8	434-11161-00-00	ABSORBER 1.....	1	
9	4H7-11161-00-00	ABSORBER 1.....	14	
10	95621-08305-00	BOLT, stud.....	1	
11	90201-11537-00	WASHER, plate.....	10	
12	90201-10128-00	WASHER, plate.....	2	
13	90179-10277-00	NUT.....	12	
14	94701-00117-00	PLUG, spark (NGK BP-7ES)	1	
15	4H7-11181-02-00	GASKET, cylinder head 1.....	1	
16	4H7-11355-0000	SEAL, cylinder 1	1	
17	4K0-11191-00-00	COVER, cylinder head 1.....	1	
18	4H7-11193-00-00	GASKET, head cover 1.....	1	
19	1J7-11138-00-C0	PLUG.....	2	
20	91316-06035-C0	BOLT.....	20	

*Indicates new part numbers activated from January, 1981.

Cylinder Head Cover	6110 10m-kg
Cylinder Head	10x125 32m-kg
Spark Plug Type	NGK BP7ES or Nippon Denso W22EP
Spark Plug Gap, Torque & Gap	0.7 ~ 0.8mm 23m-kg 10Kg

CYLINDER



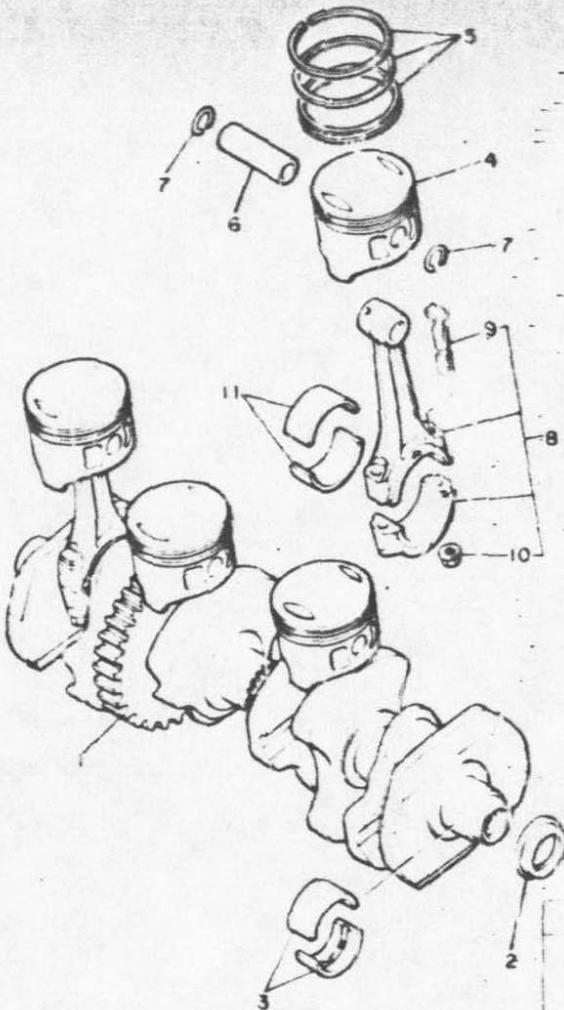
Ref. No.	Part Number	Description	Qty.	Remarks
1	4KD-11310-00-00	CYLINDER	1	
2	93210-69434-20	O-RING.....	4	
3	91830-24016-00	PIN, dowel.....	4	
4	90430-14131-00	GASKET	2	
5	4H7-11351-00-01	GASKET, cylinder	1	
6	95621-08330-00	BOLT, stud.....	1	
7	90201-08382-00	WASHER, plate.....	3	
8	95311-08600-00	NUT.....	3	

*Indicates new part numbers activated from January, 1981.

Stroke Number Cylinders Displacement (cc)	63mm "52.4mm" 4 983cc
Compression Ratio Compression Pressure Min~Max	9.24 : 9.5 ~ 11 kg/cm ²
Initial Engine Number Frame Number	5V2003101 572000101

4H7110 0020

CRANKSHAFT - PISTON



SV. 110-2030

Ref. No.	Part Number	Description	Cty.	Remarks
1	4H7-11411-10-00	CRANKSHAFT.....	1	
2	93101-32088-00	OIL SEAL	1	
3	4H7-11416-01-00	PLANE BEARING, crankshaft 1	10	U.R. Blue
	4H7-11416-11-00	PLANE BEARING, crankshaft 1	10	U.R. Black
	4H7-11416-21-00	PLANE BEARING, crankshaft 1	10	U.R. Brown
	4H7-11416-31-00	PLANE BEARING, crankshaft 1	10	U.R. Green
	4H7-11416-41-00	PLANE BEARING, crankshaft 1	10	U.R. Yellow
4	4H7-11631-00-00	PISTON (STD)	4	
	4H7-11635-00-00	PISTON (1st O/S 0.25MM)....	4	Alternate Part
	4H7-11636-00-00	PISTON (2nd O/S 0.50MM)	4	Alternate Part
	4H7-11637-00-00	PISTON (3rd O/S 0.75MM).	4	Alternate Part
	4H7-11638-00-00	PISTON (4th O/S 1.00MM).	4	Alternate Part
5	4H7-11610-00-00	PISTON RING SET (STD)	4	
	4H7-11610-10-00	PISTON RING SET (1st O/S) ...	4	Alternate Part
	4H7-11610-20-00	PISTON RING SET (2nd O/S) ...	4	Alternate Part
	4H7-11610-30-00	PISTON RING SET (3rd O/S) ...	4	Alternate Part
	4H7-11610-40-00	PISTON RING SET (4th O/S) ...	4	Alternate Part

*Indicates new part numbers activated from January, 1981.

CRANKSHAFT BEARING SELECTION
Housing No - Shaft No - Bearing No

BEARING No	PART No	COLOR
BEARING 1	4H7-11416-01	BLUE
BEARING 2	4H7-11416-11	BLACK
BEARING 3	4H7-11416-21	BROWN
BEARING 4	4H7-11416-31	GREEN
BEARING 5	4H7-11416-41	YELLOW

CONNECTING ROD BEARING SELECTION
Housing No - Shaft No - Bearing No

BEARING No	PART No	COLOR
BEARING 1	4H7-11656-01	BLUE
BEARING 2	4H7-11656-11	BLACK
BEARING 3	4H7-11656-21	BROWN
BEARING 4	4H7-11656-31	GREEN

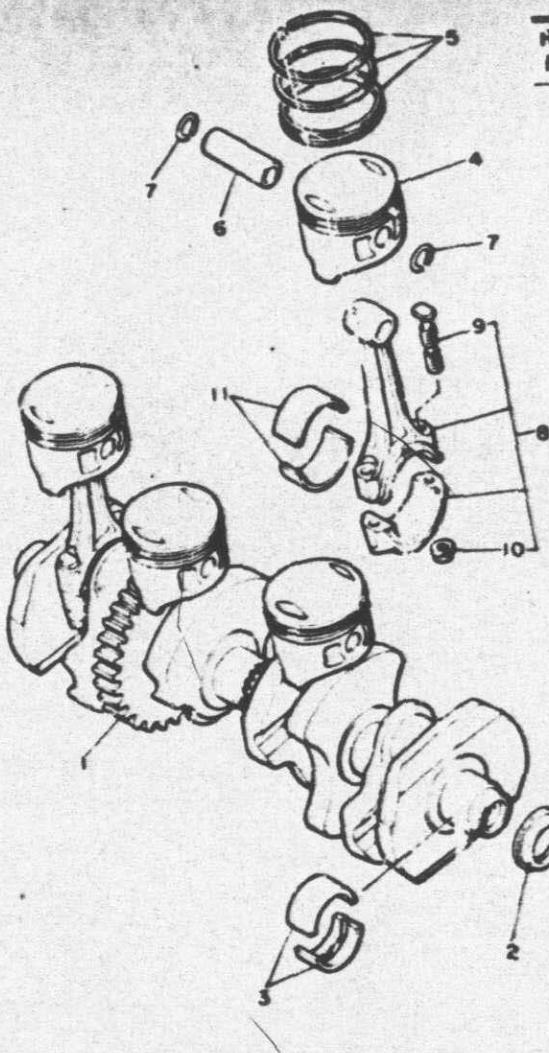
Piston. Sh ft Clearance New Max

0.033 ~ 0.150mm / 0.1mm

Ring End Gap Top 2nd / 3rd

0.15 ~ 0.3 mm / 0.15 ~ 0.35mm / 0.3 ~ 0.9mm

CRANKSHAFT • PISTON



5V2110-2030

Ref. No.	Part Number	Description	Qty.	Remarks
6	4H7-11633-00-00	PIN, piston.....	4	
7	93450-17944-00	CIRCLIP	8	
8	4H7-Y1165-00-00	CONNECTING ROD ASS'Y.....	4	
9	4H7-11654-00-00	BOLT, connecting rod	2	
10	90179-07307-00	NUT	2	
11	4H7-11656-01-00	PLANE BEARING, connecting rod	8	U.R.
	4H7-11656-11-00	PLANE BEARING, connecting rod	8	U.R.
	4H7-11656-21-00	PLANE BEARING, connecting rod	8	U.R.
	4H7-11656-31-00	PLANE BEARING, connecting rod	8	U.R.

CRANKSHAFT BEARING SELECTION

Housing No. - Shaft No. = Bearing No.

BEARING No.	PART NO.	COLOUR
BEARING 1	4H7-11416-01	BLUE
BEARING 2	4H7-11416-11	BLACK
BEARING 3	4H7-11416-21	BROWN
BEARING 4	4H7-11416-31	GREEN
BEARING 5	4H7-11416-41	YELLOW

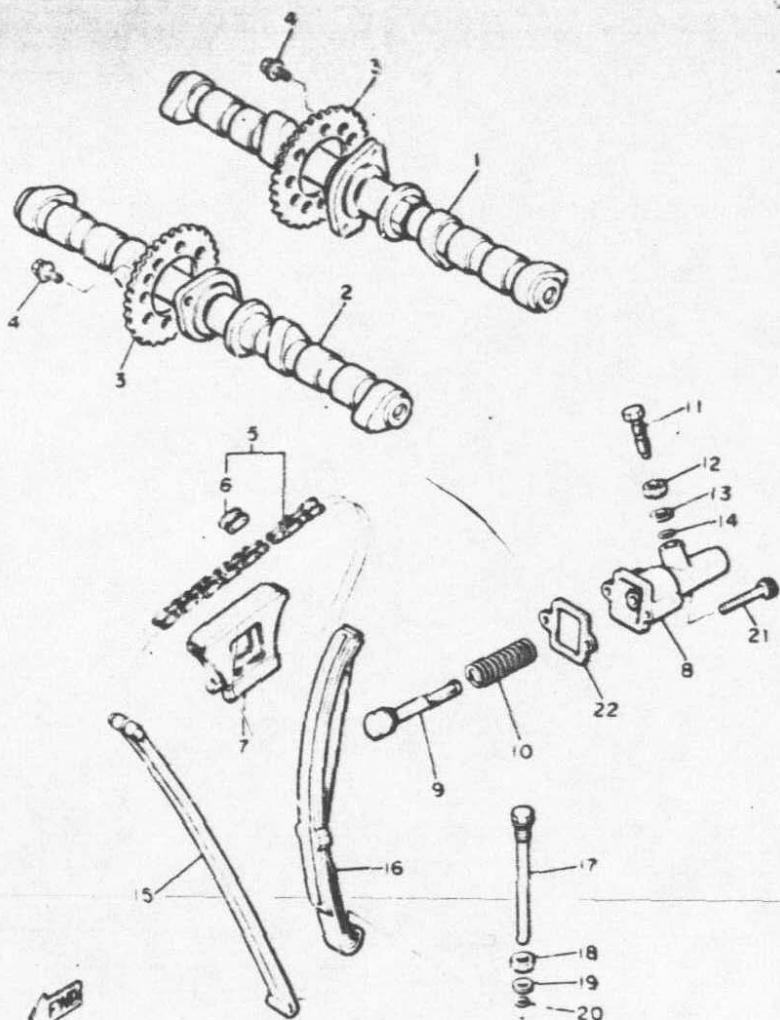
CONNECTING ROD BEARING SELECTION

Housing No. - Shaft No. = Bearing No.

BEARING No.	PART NO.	COLOUR
BEARING 1	4H7-11656-01	BLUE
BEARING 2	4H7-11656-11	BLACK
BEARING 3	4H7-11656-21	BROWN
BEARING 4	4H7-11656-31	GREEN

Piston Side Clearance New / Max	0.030 ~ 0.050mm / 0.7mm
Ring End Gap Top / 2nd / 3rd	0.15 ~ 0.35mm / 0.15 ~ 0.35mm / 0.3 ~ 0.9mm

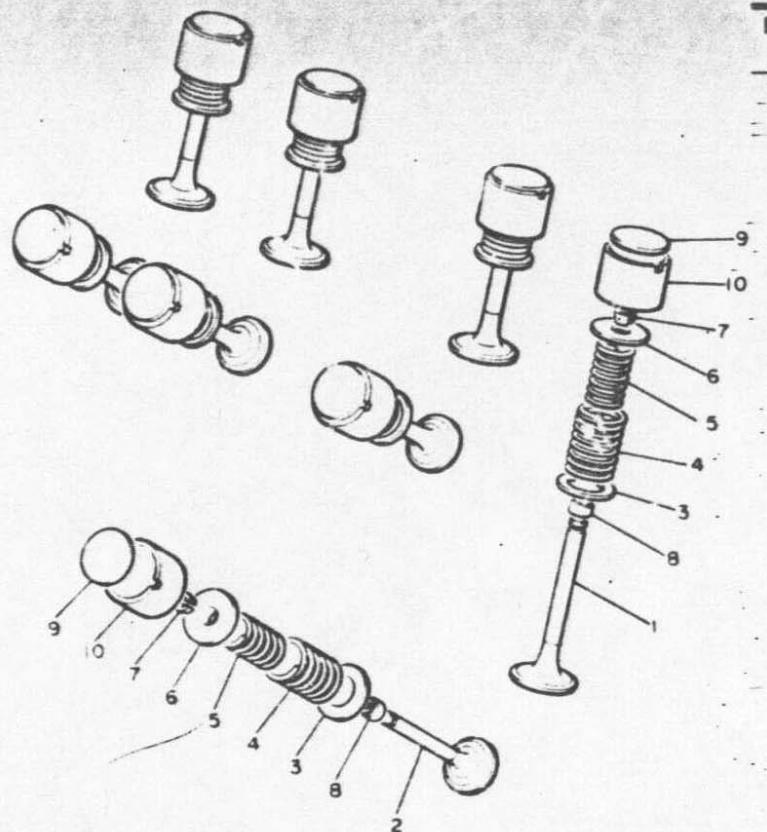
CAMSHAFT • CHAIN



4H711G-0040

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-12171-00-00	CAMSHAFT 1	1	
2	4H7-12181-00-00	CAMSHFT 2	1	
3	4H7-12176-01-00	SPROCKET, cam chain (32T) ...	2	
4	90105-07067-00	BOLT, washer based.....	4	
5	94500-02120-00	CHAIN (BF05M-120L)	1	
6	94600-02001-00	. JOINT, chain.....	1	
7	4H7-12241-00-00	GUIDE, stopper 2	1	
8	4K0-12212-00-00	CASE, chain tensioner	1	
9	4H7-12217-01-00	RQD, chain tensioner	1	
10	90501-16417-00	SPRING, compression	1	
11	90109-08442-00	BOLT	1	
12	95301-08700-00	NUT	1	
13	92901-06600-00	WASHER, plate	1	
14	93210-06001-00	O-RING	1	
15	4H7-12251-00-00	DAMPER, chain 1	1	
16	4H7-12252-00-00	DAMPER, chain 2	1	
17	90109-10570-00	BOLT	1	
18	95301-10700-00	NUT	1	
19	92901-08600-00	WASHER, plate	1	
20	93210-08006-00	O-RING	1	
21	91311-06040-00	BOILT	2	
22	4H7-12213-00-00	GASKET, tensioner case	1	

VALVE



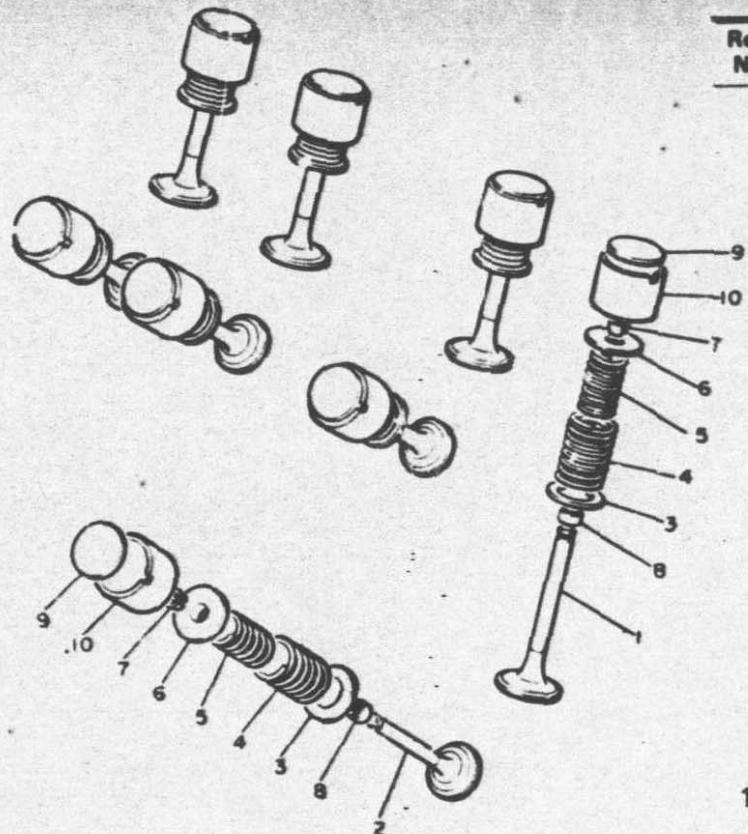
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-12111-00-00	VALVE, intake	4	
2	4H7-12121-00-00	VALVE, exhaust.....	4	
3	4H7-12116-00-00	SEAT, valve spring	8	
4	4H7-12114-00-00	SPRING, valve outer.....	8	
5	4H7-12113-00-00	SPRING, valve inner.....	8	
6	2F3-12117-00-00	RETAINER, valve spring.....	8	
7	1J7-12118-00-00	COTTER, valve.....	16	
8	1J7-12119-01-00	SEAL, valve stem.....	8	
9	1J7-12169-01-00	PAD, adjusting (2.00)	8	U.R.
	1J7-12169-11-00	PAD, adjusting (2.05)	8	U.R.
	1J7-12169-21-00	PAD, adjusting (2.10)	8	U.R.
	1J7-12169-31-00	PAD, adjusting (2.15)	8	U.R.
	1J7-12169-41-00	PAD, adjusting (2.20)	8	U.R.
	1J7-12169-51-00	PAD, adjusting (2.25)	8	U.R.
	1J7-12169-61-00	PAD, adjusting (2.30)	8	U.R.
	1J7-12169-71-00	PAD, adjusting (2.35)	8	U.R.
	1J7-12169-81-00	PAD, adjusting (2.40)	8	U.R.

4-110-005C

Valve Clearance (Cold) Intake Exhaust

0.16 ~ 0.20mm 0.16mm ~ 0.20mm

VALVE



Ref. No.	Part Number	Description	Qty.	Remarks
	1J7-12169-91-00	PAD, adjusting (2.45)	8	U.R.
	1J7-12169-A1-00	PAD, adjusting (2.50)	8	U.R.
	1J7-12169-E1-00	PAD, adjusting (2.55)	8	U.R.
	1J7-12169-F1-00	PAD, adjusting (2.60)	8	U.R.
	1J7-12169-G1-00	PAD, adjusting (2.65)	8	U.R.
	1J7-12169-H1-00	PAD, adjusting (2.70)	8	U.R.
	1J7-12169-J1-00	PAD, adjusting (2.75)	8	U.R.
	1J7-12169-K1-00	PAD, adjusting (2.80)	8	U.R.
	1J7-12169-L1-00	PAD, adjusting (2.85)	8	U.R.
	1J7-12169-M1-00	PAD, adjusting (2.90)	8	U.R.
	1J7-12169-N1-00	PAD, adjusting (2.95)	8	U.R.
9	1J7-12169-R1-00	PAD, adjusting (3.00)	8	U.R.
	1J7-12169-T1-00	PAD, adjusting (3.05)	8	U.R.
	1J7-12169-U1-00	PAD, adjusting (3.10)	8	U.R.
	1J7-12169-V1-00	PAD, adjusting (3.15)	8	U.R.
	1J7-12169-W1-00	PAD, adjusting (3.20)	8	U.R.
10	4H7-12153-01-00	LIFTER, valve	8	

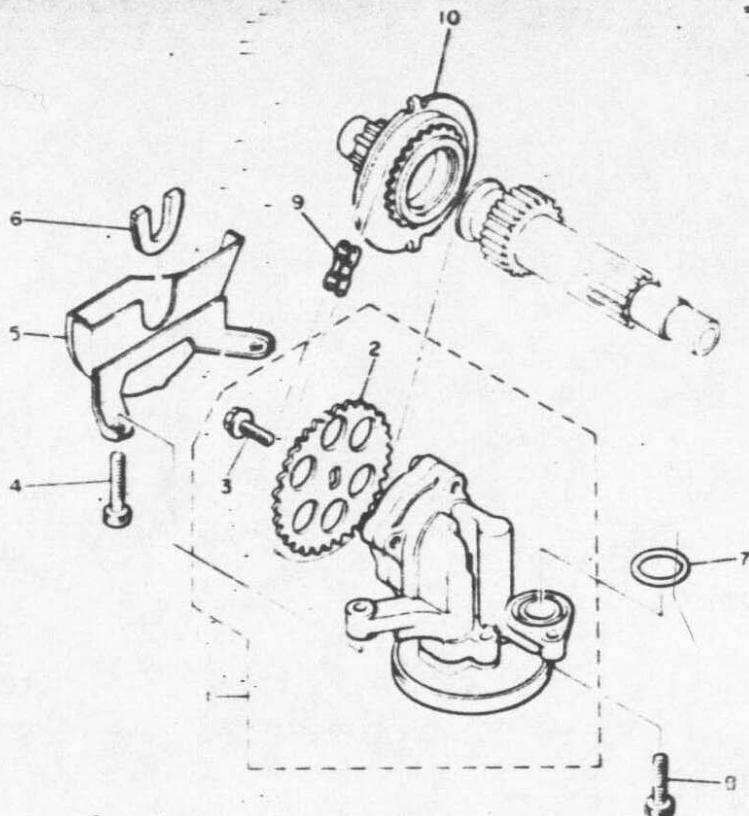
Valve Clearance (Cold) Intake / Exhaust

0.16 ~ 0.20mm / 0.16mm ~ 0.20mm

4H7110-0050



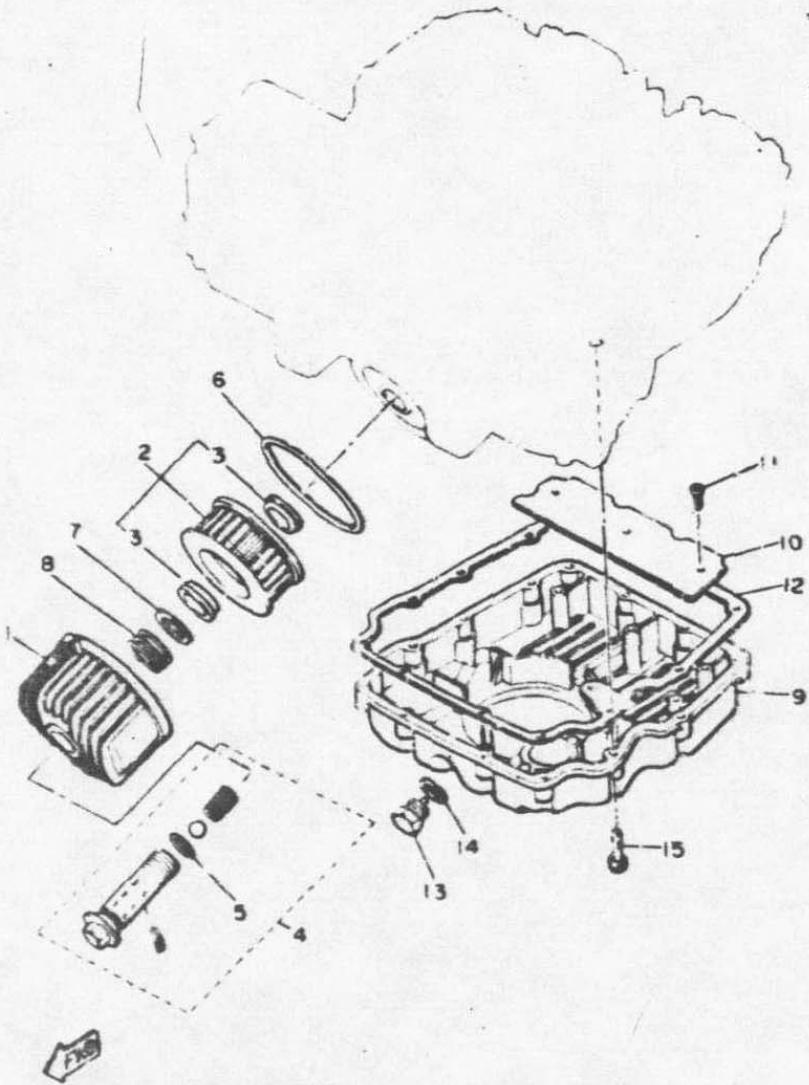
OIL PUMP



FWD
4H7110-0060

Ref. No.	Part Number	Description	Qty.	Remarks
1	5G2-13300-00-00	OIL PUMP ASS'Y	1	
2	5G2-13355-00-00	SPROCKET, driven.....	1	
3	90105-06154-00	BOLT, washer based	1	
4	90110-06035-00	BOLT, hexagon socket head	2	
5	4H7-13327-00-00	COVER, pump gear.....	1	
6	4H7-13328-00-00	GROMMET, gear cover	1	
7	93210-18319-00	O-RING.....	1	
8	91316-06025-00	BOLT.....	1	
9	94580-25062-00	CHAIN (DID25 62L)	1	
10	4H7-13354-00-00	SPROCKET, drive (25T)	1	

OIL CLEANER

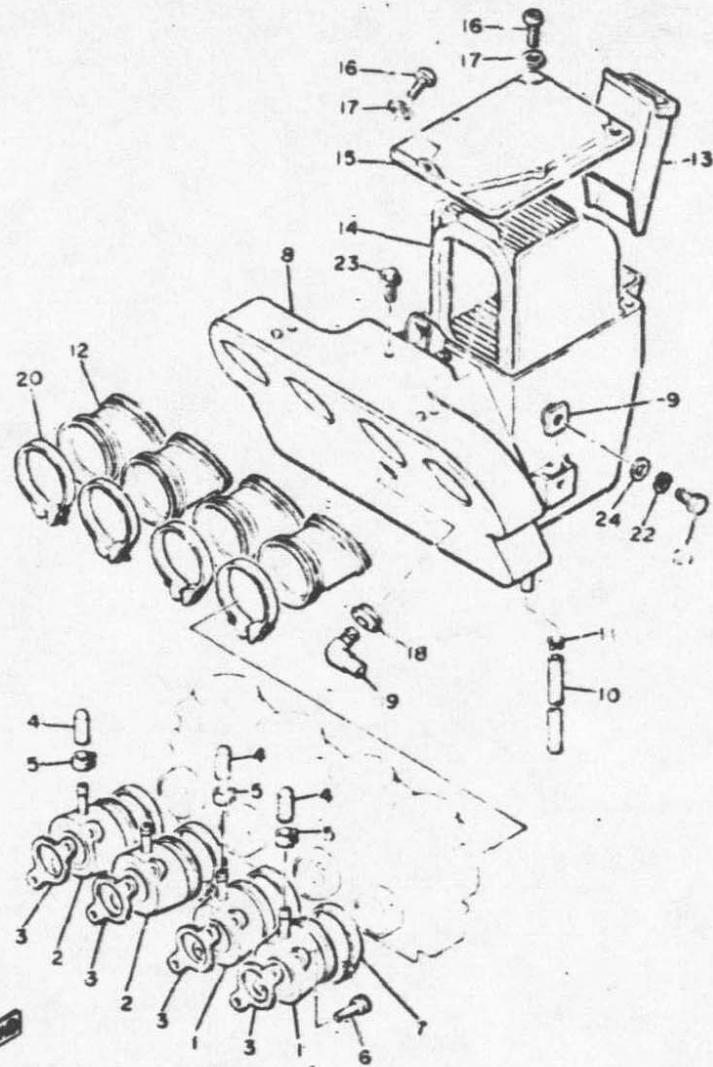


Ref. No.	Part Number	Description	Qty.	Remarks
1	4K0-13447-00-00	COVER, oil element	1	
2	1L9-13440-91-00	ELEMENT, oil cleaner (1L9-13440-90)	1	
3	90480-73193 00	GROMMET	2	
4	1L9-13340-01-00	PASS VALVE ASS'Y.....	1	
5	93210-16325-00	O-RING	1	
6	93210-88324-00	O-RING	1	
7	90201-21608-00	WASHER, plate	1	
8	90501-20422-00	SPRING, compression	1	
9	4H7-13417-02-00	COVER, strainer	1	
10	4H7-13337-00-00	PLATE, baffle lower	1	
11	92503-06010-00	SCREW, pan head (92501-06010)	3	
12	4H7-13414-00-00	GASKET, strainer cover	1	
13	90340-14042-00	PLUG, straight screw	1	
14	214-11198-01-00	GASKET	1	
15	91316-06030-00	BOLT	13	

*Indicates new part numbers activated from January, 1981.

SV2110 2070

INTAKE

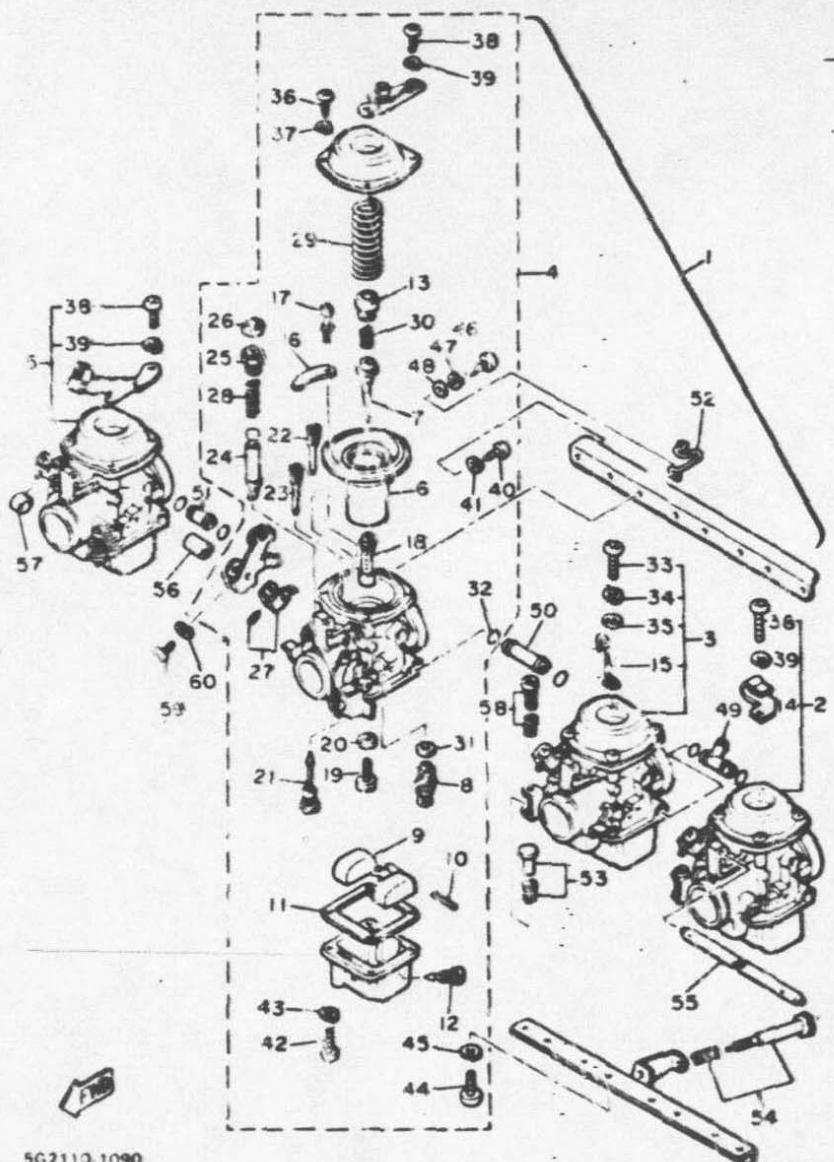


5V2110-2090

Ref. No.	Part Number	Description	Qty.	Remarks
• 1	4H7-13586-02-00	JOINT, carburetor 1	2	
2	5G2-13596-00-00	JOINT, carburetor 2	2	
3	4H7-13556-01-00	GASKET, manifold.....	4	
4	1J7-13569-00-00	PLUG, blind	3	
5	90467-10039-00	CLIP.....	3	
6	91316-06020-00	BOLT.....	8	
• 7	90460-49183-00	CLAMP, hose	4	
8	4H7-14411-00-00	AIR CLEANER CASE ASS'Y	1	
9	4H7-14484-00-00	PLATE, cleaner case fitting	1	
10	90445-11182-00	HOSE.....	1	
11	90467-09006-00	CLIP.....	1	
12	4H7-14453-00-00	JOINT, air cleaner 1	4	
13	4H7-14437-00-00	DUCT.....	1	
14	4H7-14451-00-00	ELEMENT, air cleaner	1	
15	4H7-14412-00-00	CAP, cleaner case 1	1	
16	92503-06012-00	SCREW, pan head (92501-06012)	3	
17	92901-06600-00	WASHER (92902-06600).....	3	
18	90480-16276-00	GROMMET.....	1	
19	4H7-14419-00-00	PIPE.....	1	
20	90460-56105-00	CLAMP, hose	4	
21	97301-06018-00	BOLT	1	
22	92903-06100-00	WASHER, spring (92901-06100)	1	
23	90119-06029-00	BOLT, with washer	1	
24	90201-06067-00	WASHER, pl.s.e	1	

*Indicates new part numbers activated from January, 1981.

CARBURETOR



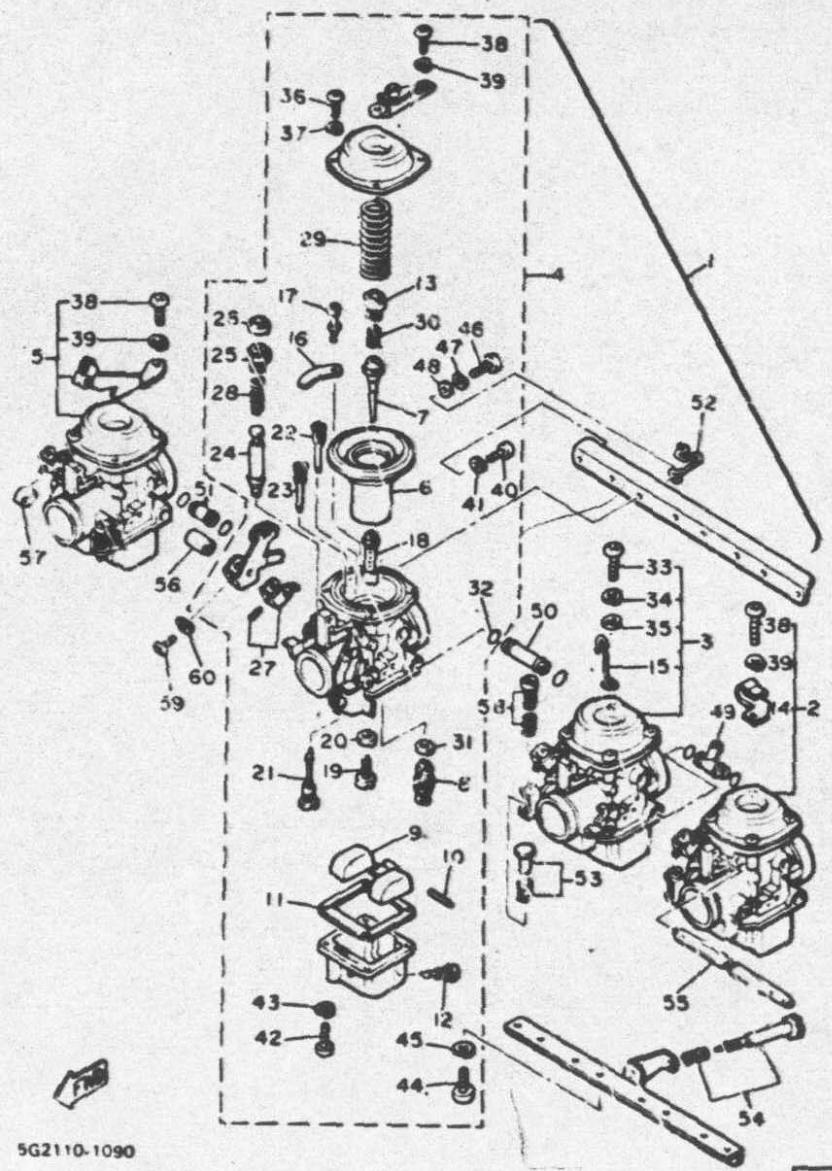
Ref. No.	Part Number	Description	Qty.	Remarks
• 1	(5V2-14900-00-00)	CARBURETOR ASS'Y.....	1	N/A
• 2	5V2-14901-00-00	CARBURETOR ASS'Y 1	1	
• 3	5V2-14902-00-00	CARBURETOR ASS'Y 2	1	
• 4	5V2-14903-00-00	CARBURETOR ASS'Y 3	1	
• 5	5V2-14904-00-00	CARBURETOR ASS'Y 4	1	
6	4H7-14940-00-00	DIAPHRAGM ASS'Y.....	4	
7	4H7-14917-10-00	JET, needle	4	
8	4H7-14950-00-00	NEEDLE VALVE ASS'Y	4	
9	4H7-14985-00-00	FLOAT.....	4	
10	4H7-14186-00-00	PIN, float	4	
11	4H7-14984-00-00	GASKET, float chamber.....	4	
12	4H7-14191-00-00	PLUG, drain	4	
13	4H7-14936-00-00	SEAT, spring	4	
14	4H7-14159-00-00	CLIP	1	
15	4H7-14139-00-00	CLIP, pipe.....	1	
16	4H7-14527-00-00	PLATE.....	4	
17	4H7-14325-00-00	SCREW, pan head	4	
18	4H7-14921-32-00	NOZZLE, main	4	
19	4H7-14925-10-00	JET, main (#110)	4	
20	4H7-14945-00-00	WASHER, main jet	4	

*Indicates new part numbers activated from January, 1981.

5G2112-1090

CARBURATOR - Mfr. Type / I.D. Number		Hitachi - HSC32 4H7-00
Main Jet	Pilot Jet	110 - 40
Needle Jet / Jet Needle-Clip Position		32 / Y-10 Fixed
Slide Cutaway or Throttle Valve		130
Floot Level / Fuel Level		$17.5 \pm 0.5\text{mm}$ $2 \sim 4\text{mm}$
Idle rpm		1050 rpm
Max CO*	Max HC*	Set CO
		5.0 % 800 ppm 3.0 % (All Settings @ Idlet)

CARBURETOR



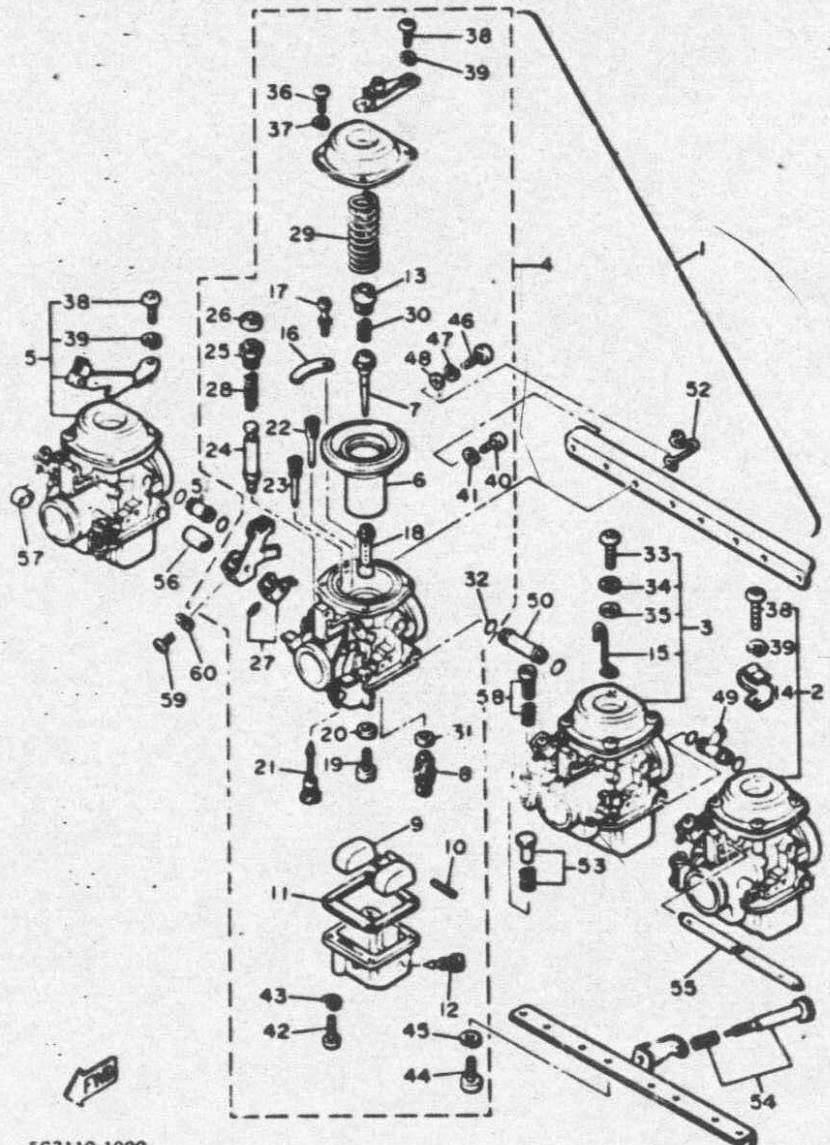
5G2110-1090

Ref. No.	Part Number	Description	Qty.	Remarks
21	4H7-14948-40-00	JET, pilot (#40).....	4	
22	4H7-14928-10-00	JET, main air (#50)	4	
23	4H7-14949-39-00	JET, pilot air (#195).....	4	
24	4H7-14171-00-00	PLUNGER, starter.....	4	
25	4H7-14174-00-00	CAP, plunger	4	
26	4H7-14173-00-00	COVER, plunger cap.....	4	
27	5G2-W1495-00-00	STARTER LEVER SET	4	
28	4H7-14135-00-00	SPRING, plunger.....	4	
29	4H7-14933-00-00	SPRING, diaphragm	4	
30	4H7-14589-00-00	SPRING	4	
31	4H7-14952-00-00	WASHER	4	
*32	3J4-14147-00-00	O-RING.....	6	
33	98503-04010-00	SCREW, pan head	1	
34	92901-04100-00	WASHER, spring.....	1	
35	92901-04600-00	WASHER, plate.....	1	
36	98501-04008-00	SCREW, pan head	10	
37	92901-04100-00	WASHER, spring.....	10	
38	38503-04010-00	SCREW, pan head	5	
39	92901-04100-00	WASHER, spring.....	5	
40	98501-05010-00	SCREW, pan head	7	

*Indicates new part numbers activated from January, 1981.

CARBURETOR - Mfr. / Type / I.D. Number		Hitachi / HSC32 / 4H7-00
Main Jet / Pilot Jet		110 / 40
Needle Jet / Jet Needle-Cup Position		3.2 Y-10 Fixed
Slide Cutaway or Throttle Valve		130
Fuel Level / Fuel Level		175 ± 0.5mm / 2 ~ 4mm
Idle rpm		1050 rpm
Max CO ₂ / Max HC ₂ / Set CO ₂		5.0 % / 800 ppm / 3.0 % (All Settings @ Idle)

CARBURETOR

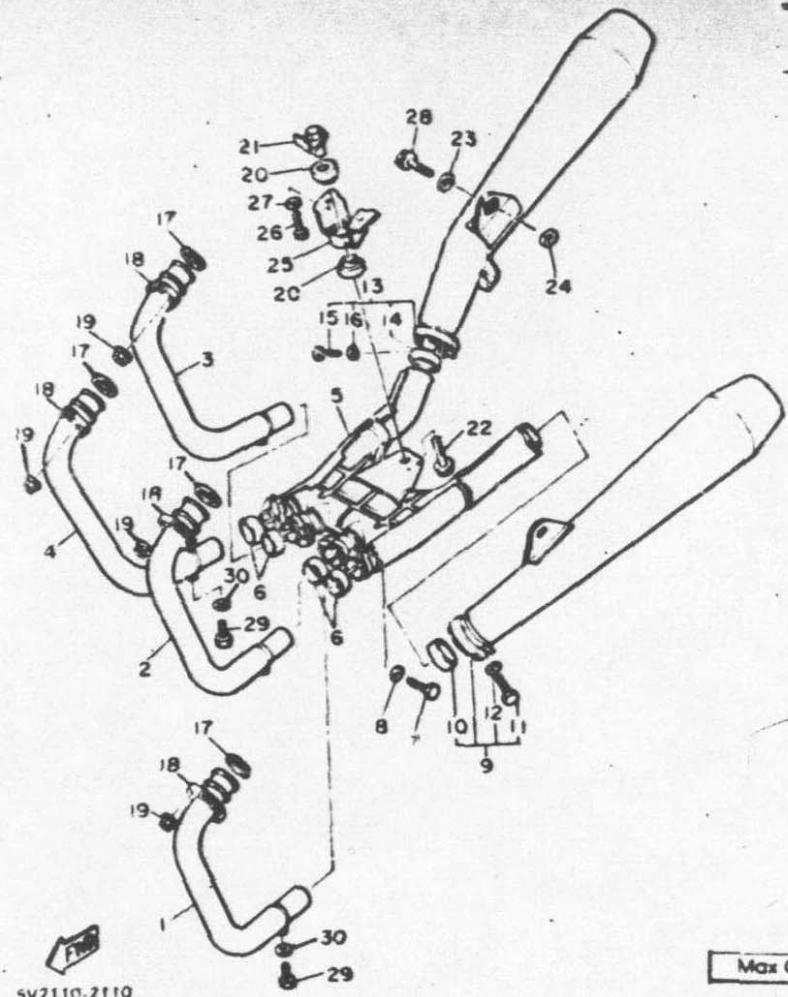


SG2110-1090

Ref. No.	Part Number	Description	Qty.	Remarks
41	92903-05100-00	. . WASHER, spring (92901-05100).....	7	
42	98501-05016-00	. . SCREW, pan head	16	
43	92903-05100-00	. . WASHER, spring (92901-05100).....	16	
44	92503-06012-00	. . SCREW, pan head (92501-06012).....	8	
45	92903-06100-00	. . WASHER, spring (92901-06100).....	8	
46	98503-05012-00	. . SCREW, pan head (98501-05012).....	1	
47	92903-05100-00	. . WASHER, spring (92901-05100).....	1	
48	92901-05600-00	. . WASHER, plate.....	1	
49	4H7-14988-00-00	. PIPE, starter connecting.....	1	
50	4H7-14188-00-00	. CONNECTOR	1	
51	4H7-14189-00-00	. CONNECTOR	1	
52	4H7-14919-00-00	. CLIP	1	
53	5G2-W1492-00-00	. THROTTLE ADJUST SCREW SET 2	3	
54	5G2-W1493-00-00	. THROTTLE ADJUST SCREW SET 3	1	
55	5G2-14978-00-00	. SHAFT, starter lever	1	
56	4H7-14998-00-00	. BUSH	1	
57	4H7-14973-00-00	. WASHER	1	
58	5G2-W1491-00-00	. THROTTLE ADJUST SCREW SET 1	3	
59	98502-03016-00	. SCREW, pan head	1	
60	92901-03100-00	. WASHER, spring	1	

CARBURETOR - Mfr. / Type / I.D. Number	Hitachi / HSC32 / 4H7-00
Main Jet / Pilot Jet	110 / 40
Needle Jet / Jet Needle-Clip Position	3.2 / Y-1C Fixed
Slide Cutaway or Throttle Valve	130
Floai Level / Fuel Level	17.5 ± 0.5mm / 2 ~ 4mm
idle rpm	1050 rpm
Max CO% / Max HC% / Set CO	5.0 % / 800 ppm / 3.0 % (All Settings @ Idle)

EXHAUST



Ref. No.	Part Number	Description	Qty.	Remarks
* 1	4K0-14611-01-00	PIPE, exhaust 1.....	1	
* 2	4K0-14621-01-00	PIPE, exhaust 2.....	1	
* 3	4K0-14631-01-00	PIPE, exhaust 3.....	1	
* 4	4K0-14641-01-00	PIPE, exhaust 4.....	1	
* 5	4K0-14615-00-00	JOINT, exhaust 1	1	
6	4H7-14714-00-00	GASKET, muffler.....	4	
7	7311-08020-00	BOLT	4	
8	92901-08600-00	WASHER, plate	4	
* 9	4K0-14710-00-00	MUFFLER ASS'Y 1.....	1	
10	1L9-14714-01-00	. GASKET, muffler	1	
11	97311-08025-00	. BOLT	1	
12	92901-08600-00	. WASHER, plate	1	
*13	4K0-14720-00-00	MUFFLER ASS'Y 2.....	1	
14	1L9-14714-01-00	. GASKET, muffler	1	
15	97311-08025-00	. BOLT	1	

*Indicates new part numbers activated from January 1981.

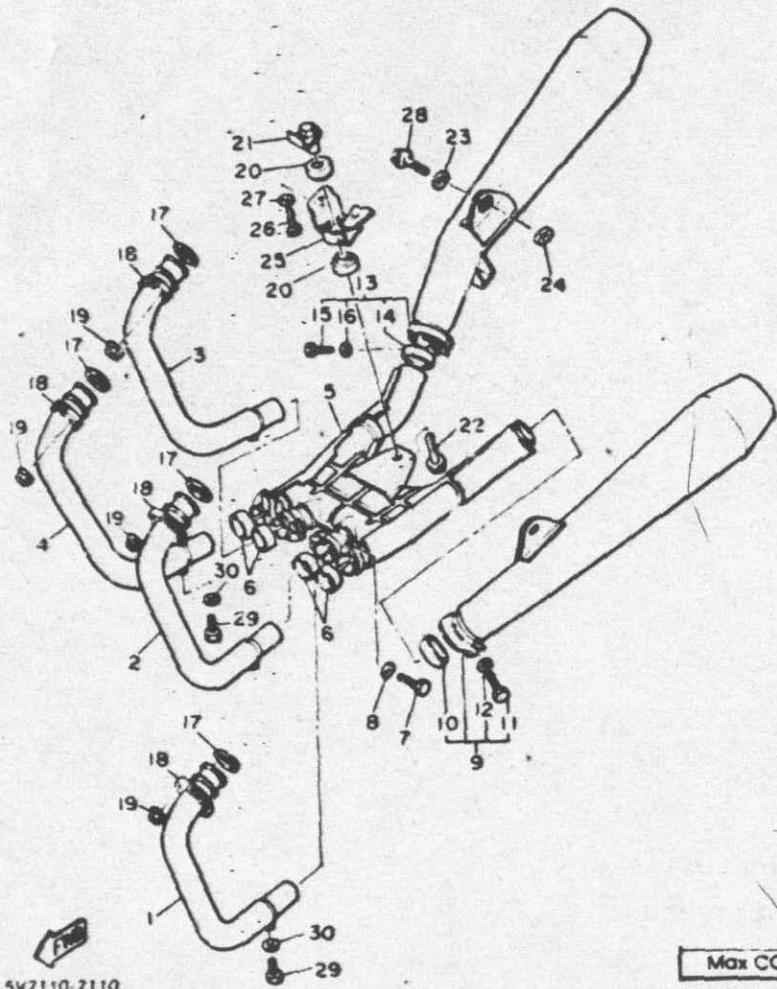
Max CO% Max HC% Set CO

5.0 % 800 ppm 3.0 % (All Settings @ Idle)

SV2110-2110

"These replacement parts comply with all Florida laws and regulations requiring testing and certification of exhaust system replacement parts."

EXHAUST



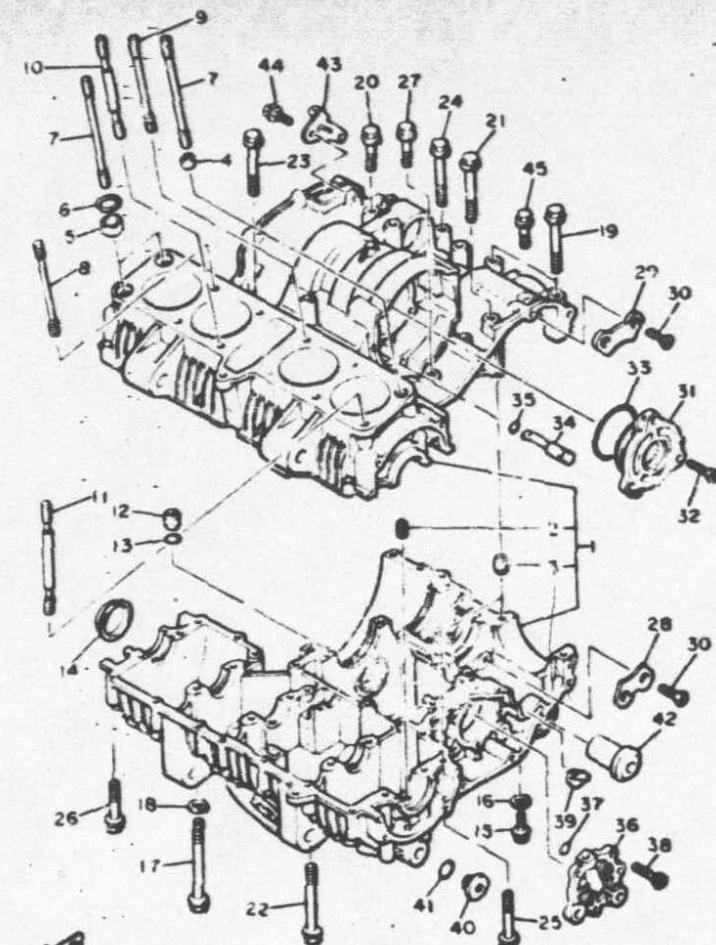
Ref. No.	Part Number	Description	Qty.	Remarks
16	92901-08600-00	WASHER, plate	1	
17	4H7-14613-00-00	GASKET, exhaust pipe	4	
18	4H7-14612-00-00	NUT, ring	4	
19	90179-06306-00	NUT.....	8	
20	4K0-14747-00-00	DAMPER, muffler	2	
21	4K0-14638-00-00	COLLAR	1	
22	95801-10040-00	BOLT, flange.....	1	
23	90201-10669-00	WASHER, plate.....	2	
24	90179-10276-00	NUT.....	2	
25	4K0-14791-00-00	STAY, muffler.....	1	
26	97311-08025-00	BOLT.....	2	
27	92901-08600-00	WAHSER, plate.....	2	
28	95821-10030-00	BOLT, flange.....	2	
29	97313-06012-00	BOLT.....	4	
30	92903-06600-00	WASHER, plate.....	4	

Max CO% Max HC% Set CO

5.0 % 800 ppm 3.0 % (All Settings @ Idle)

"These replacement parts comply with all Florida laws and regulations requiring testing and certification of exhaust system replacement parts."

CRANKCASE



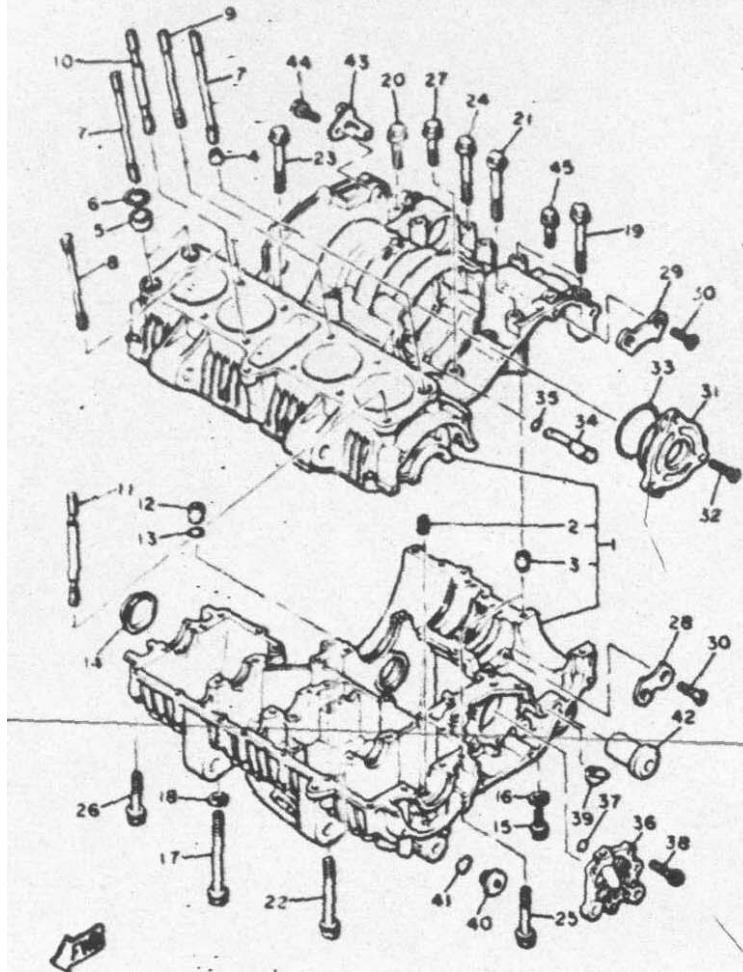
5V2110-2120

Drain P-2	14 x 15: 4.3 m-kg
Oiling System	Wet Sump
Capacity Dry	3500cc
Oil and Filter Change	2950cc
Coolant Change	2650cc
Lubricant Temp. Above 5°C (40°F)	Yamalube 4 ^o or SAE 20W-50 SE
Temp. Below 15°C (60°F)	Yamalube 4 ^o or SAE 10W30 SE

Train P-2	14 x 15: 4.3 m/kg
Filling System	Wet Sump
Capacity D.L.	3500cc
Oil and Filter Change	2950cc
Coolant Change	2650cc
Upper antifreeze. Above 55°C (40°F)	Yamalube 4° or SAE 20W-50 SE
Temp. Below 15°C (60°F)	Yamalube 4° or SAE 10W30 SE

*Indicates new part numbers activated from January, 1981.

CRANKCASE

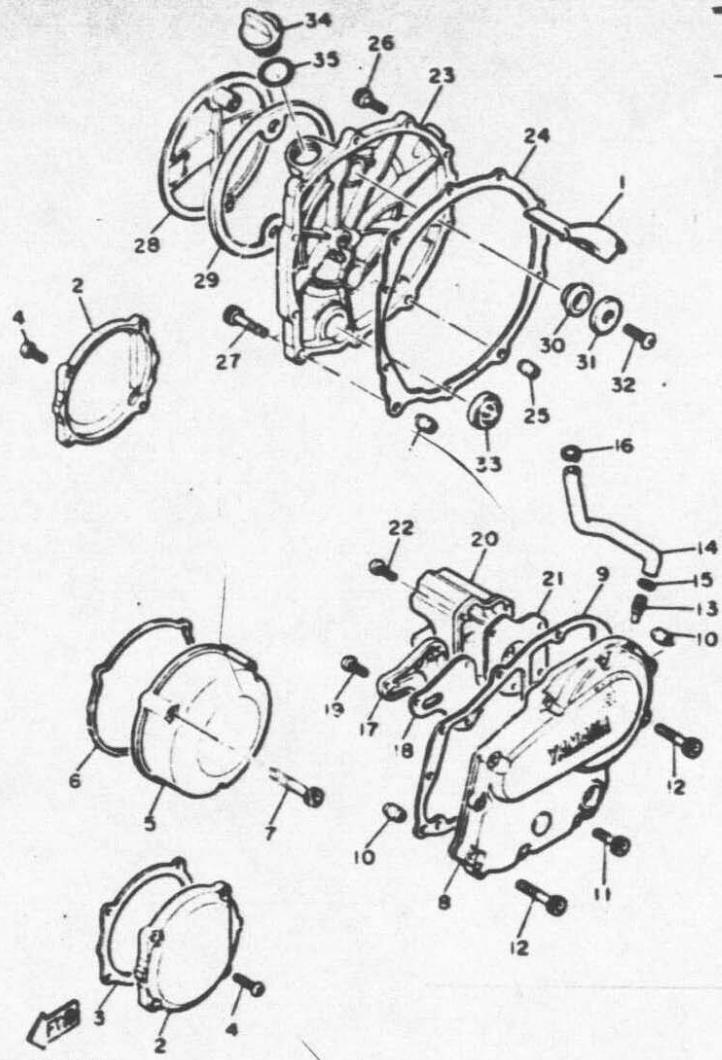


Ref. No.	Part Number	Description	Qty.	Remarks
24	95811-06060-00	BOLT, flange.....	6	
25	95811-06055-00	BOLT, flange.....	2	
26	95811-08045-00	BOLT, flange.....	1	
27	95811-06035-00	BOLT, flange.....	3	
28	4H7-15381-00-00	PLATE, bearing cover.....	1	
29	4H7-15383-00-00	PLATE, bearing cover.....	1	
30	90149-06152-00	SCREW.....	4	
31	4H7-15163-00-00	HOUSING, bearing 1	1	
32	90151-06014-00	SCREW, countersunk	3	
33	93210-62439-00	O-RING.....	1	
34	4H7-13454-00-00	NOZZLE.....	1	
35	93210-07435-00	O-RING	1	
*36	5G2-15164-00-00	HOUSING, bearing 2	1	
37	93210-07436-00	O-RING	1	
38	91311-06020-00	BOLT	3	
39	4H7-15385-00-00	GROMMET	1	
40	4K0-15189-00-00	PLUG	2	
41	93210-21278-00	O-RING	2	
42	90387-125A2-00	COLLAR	2	
43	4K0-15441-00-00	HOLDER, clutch cable	1	
44	91316-06012-00	BOLT	2	
45	95801-06060-00	BOLT, flange.....	1	

5V2110-2120

Drain Plug	14 x 15.43 m-kg
Oiling System	Wet Sump
Capacity Dry	3500cc
Oil and Filter Change	2950cc
Oil Change	2650cc
Lubricant Temp. Above 5°C (40°F)	Yamatube 4° or SAE 20W40 SE
Temp. Below 15°C (60°F)	Yamatube 4° or SAE 10W30 SE

CRANKCASE COVER

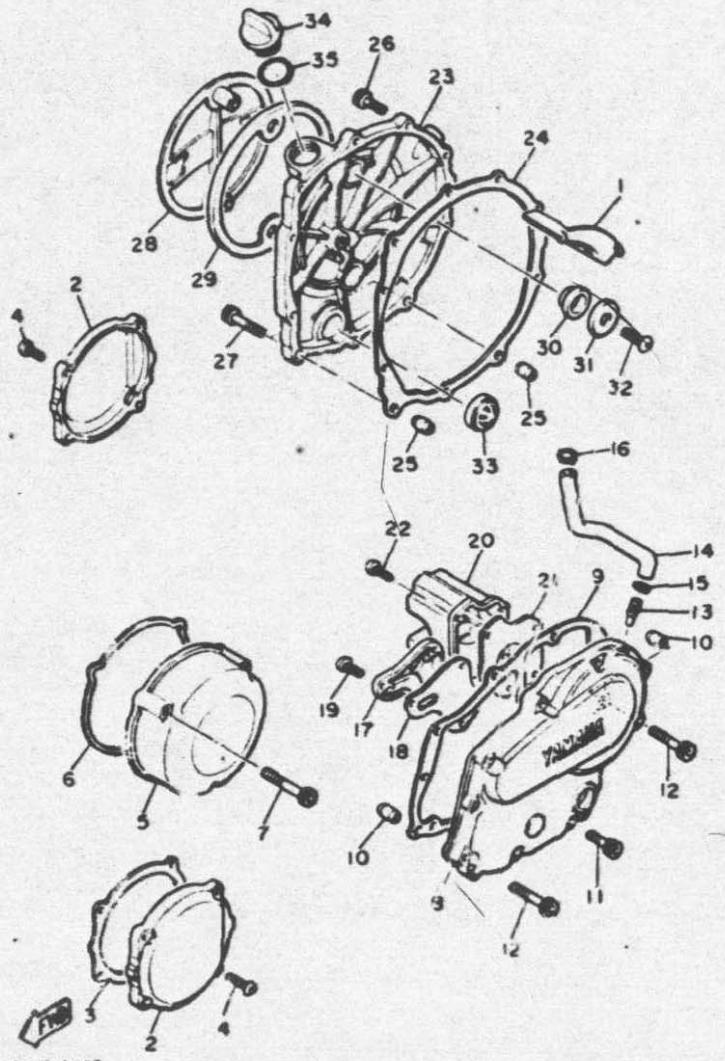


SV2110-2130

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-15412-01-00	SCRAPER, oil.....	1	
* 2	4K0-15416-00-00	COVER, oil pump	2	
3	4H7-15456-00-00	GASKET, oil pump cover 1	1	
4	98906-06200-00	SCREW, bind.....	8	
* 5	4K0-15415-00-00	COVER, generator.....	1	
6	4H7-15455-00-00	GASKET 1.....	1	
7	91316-06070-00	BOLT.....	3	
* 8	4K0-15411-00-00	COVER, crankcase 1	1	
9	4H7-15451-00-00	GASKET, crankcase cover.....	1	
10	91830-21014-00	PIN, dowel.....	2	
11	91316-06025-00	BOLT.....	8	
12	91316-06040-00	BOLT.....	2	
13	371-11167-01-00	COVER, breather 2	1	
14	4H7-11166-01-00	PIPE, breather 1	1	
15	90467-14015-00	CLIP.....	1	
16	90468-08104-00	CLIP.....	1	
17	4H7-15346-00-00	BREATHER 1.....	1	
18	4H7-15457-00-00	GASKET	1	

*Indicates new part numbers activated from January, 1981.

CRANKCASE COVER

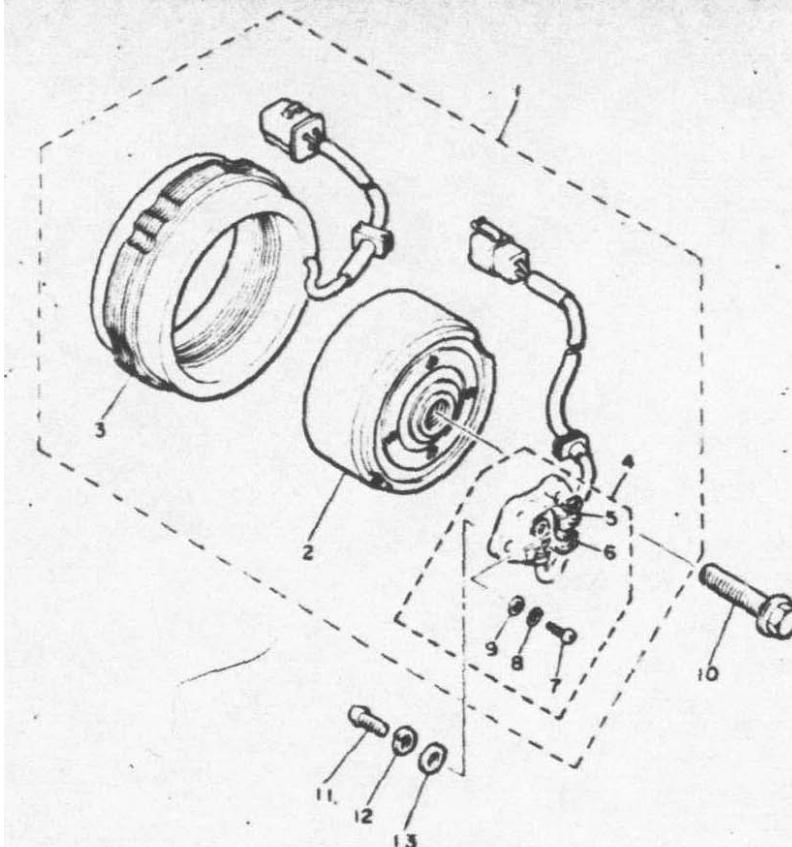


5V2110-21J0

Ref. No.	Part Number	Description	Qty.	Remarks
19	92503-06015-00	SCREW, pan head (92501-06015)	3	
20	4H7-15347-00-00	BREATHER 2.....	1	
21	4H7-15467-00-00	GASKET	1	
22	92503-06015-00	SCREW, pan head (92501-06015)	4	
*23	4K0-15421-01-00	COVER, crankcase 2	1	
24	4H7-15461-01-00	GASKET, crankcase cover 2	1	
25	91830-21014-00	PIN, dowel	2	
26	91316-06025-00	BOLT	8	
27	91316-06040-00	BOLT	2	
28	4H7-15417-00-00	COVER, cap	1	
29	4H7-15449-00-00	RING, rubber	1	
30	4H7-15486-00-00	GROMMET.....	2	
31	90209-06096-00	WASHER	2	
32	92503-06015-00	SCREW, pan head (92501-06015)	2	
33	2H7-15361-00-00	GAUGE, level	1	
34	2H9-15363-00-00	PLUG, oil	1	
35	93210-27370-00	O-RING	1	

*Indicates new part numbers activated from January, 1981

A · C · GENERATOR

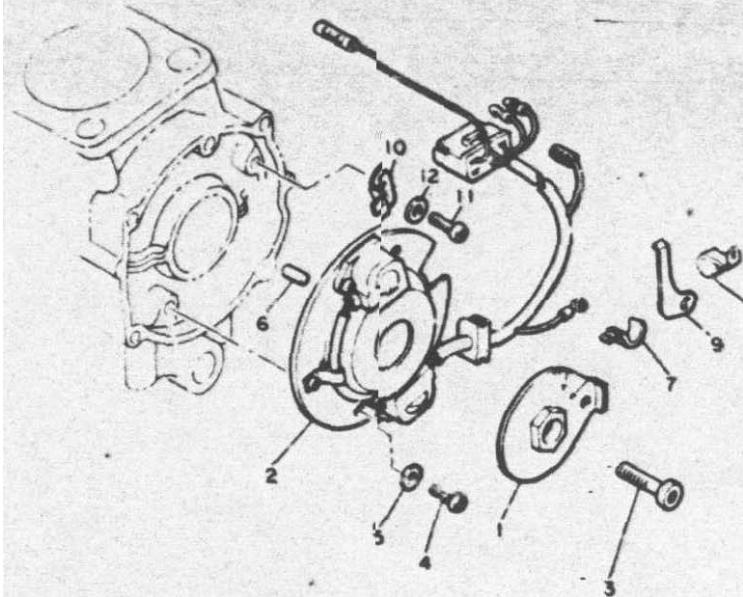


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81600-10-00	A.C. GENERATOR ASS'Y.....	1	
2	4H7-81650-10-00	ROTOR ASS'Y	1	
3	4H7-81610-10-00	STATOR ASS'Y.....	1	
4	4H7-81619-10-00	BRUSH HOLDER ASS'Y.....	1	
5	4H7-81611-10-00	BRUSH 1	1	
6	4H7-81612-10-00	BRUSH 2	1	
7	98501-04012-00	SCREW, pan head (98502-04012).....	2	
8	92901-04100-00	WASHER, spring (92903-04100).....	2	
9	92901-04600-00	WASHER, plate.....	2	
10	90105-10152-00	BOLT, washer based.....	1	
11	92503-06016-00	SCREW, pan head (92502-06016)	2	
12	92903-06100-00	WASHER, spring (92902-06100)	2	
13	92901-06600-00	WASHER (92902-06600).....	2	

CHARGING SYSTEM	
Battery Model	Specific Gravity / Charge Rate
Yuasa 12N12A (12V 12AH)	128 / 12A
Maximum Output	14V @ 9A @ 5000 rpm
TROUBLESHOOTING	
Field Coil Color Code : 2	Rotor GM ~ BLK: 4.0Ω ± 10% Stator WH ~ WH: 0.48Ω ± 10%

4H7110-1130

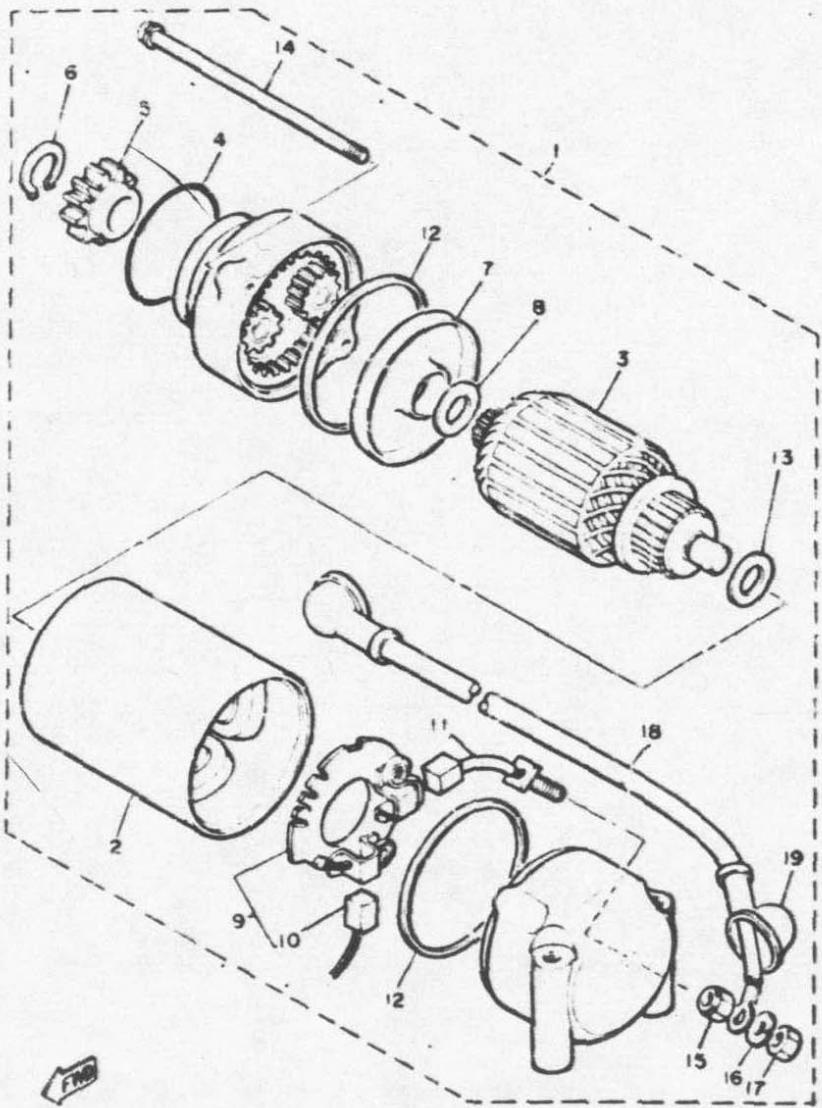
PICKUP COIL - GOVERNOR



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81673-10-00	ROTOR	1	
2	5V2-81671-10-00	BASE, pickup	1	
3	91316-08030-00	BOLT	1	
4	92503-03012-00	SCREW, pan head (92501-06012)	2	
5	92903-06200-00	WASHER, plain (92901-06200)	2	
6	93604-08071-00	PIN, dowel	1	
7	90465-08122-00	CLAMP	1	
8	90465-08156-00	CLAMP	1	
9	90465-12160-00	CLAMP	1	
10	4H7-81632-00-00	PLATE, timing	1	
11	92503-06012-00	SCREW, pan head (92501-06012)	1	
12	92903-06200-00	WASHER, plain (92901-06200)	1	

5V2110-2150

STARTING MOTOR

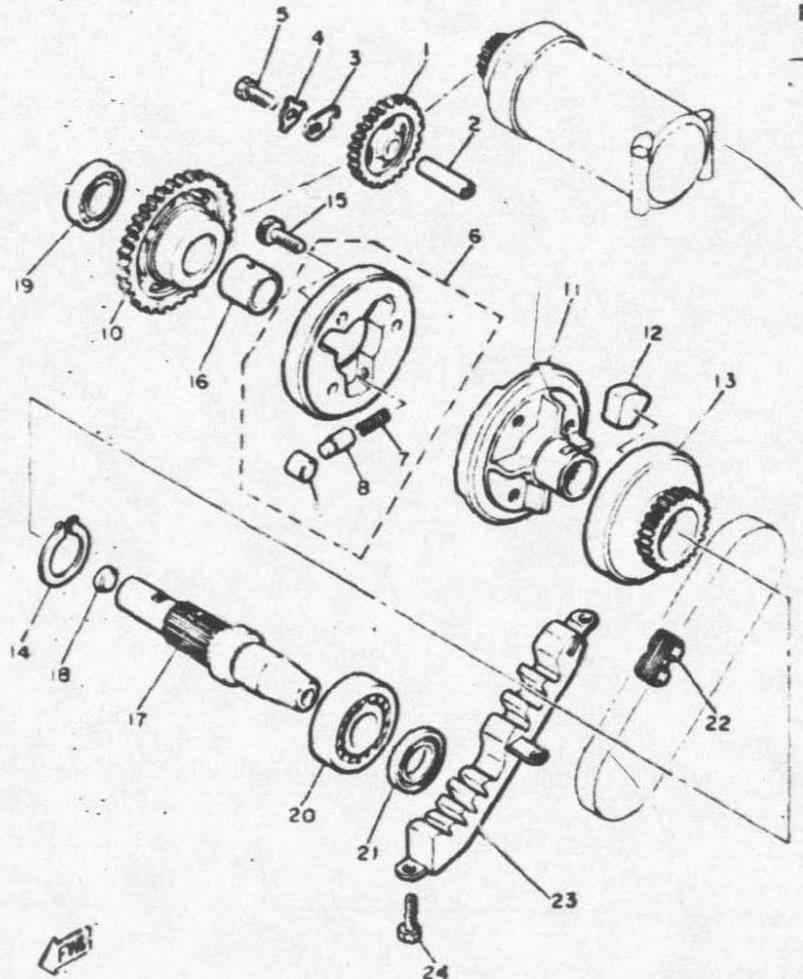


4H7110-1151

Ref. No.	Part Number	Description	Qty.	Remarks
1	4KD-81800-50-C0	STARTING MOTOR ASS'Y	1	
* 2	4KD-81810-01-00	. STATOR ASS'Y.....	1	
3	4H7-81850-00-00	. ARMATURE ASS'Y	1	
* 4	4H7-81847-01-00	. O-RING	1	
5	4H7-15511-00-00	. GEAR, starting motor (13T) ...	1	
6	4H7-81819-00-00	. CIRCLIP.....	1	
7	4H7-81845-00-00	. PLATE	1	
8	4H7-81843-00-00	. WASHER 1	1	
* 9	4H7-81P40-01-00	. BRUSH HOLDER ASS'Y.....	1	
10	4H7-81811-00-00	. . BRUSH 1	1	
* 11	4H7-81812-01-0G	. BRUSH 2.....	1	
12	4H7-81844-00-00	. GASKET.....	2	
13	4H7-81824-00-00	. WASHER 2	1	
* 14	4K0-81826-01-00	. BOLT	2	
15	4H7-81872-00-00	. NUT, special	1	
16	92903-06100-00	. WASHER, spring (92901-06100) ..	1	
17	95302-06600-00	. NUT	1	
18	4H7-81815-00-00	. WIRE, starter	1	
19	4H7-81871-00-00	. CAP	1	

*Indicates new part numbers activated from January, 1981.

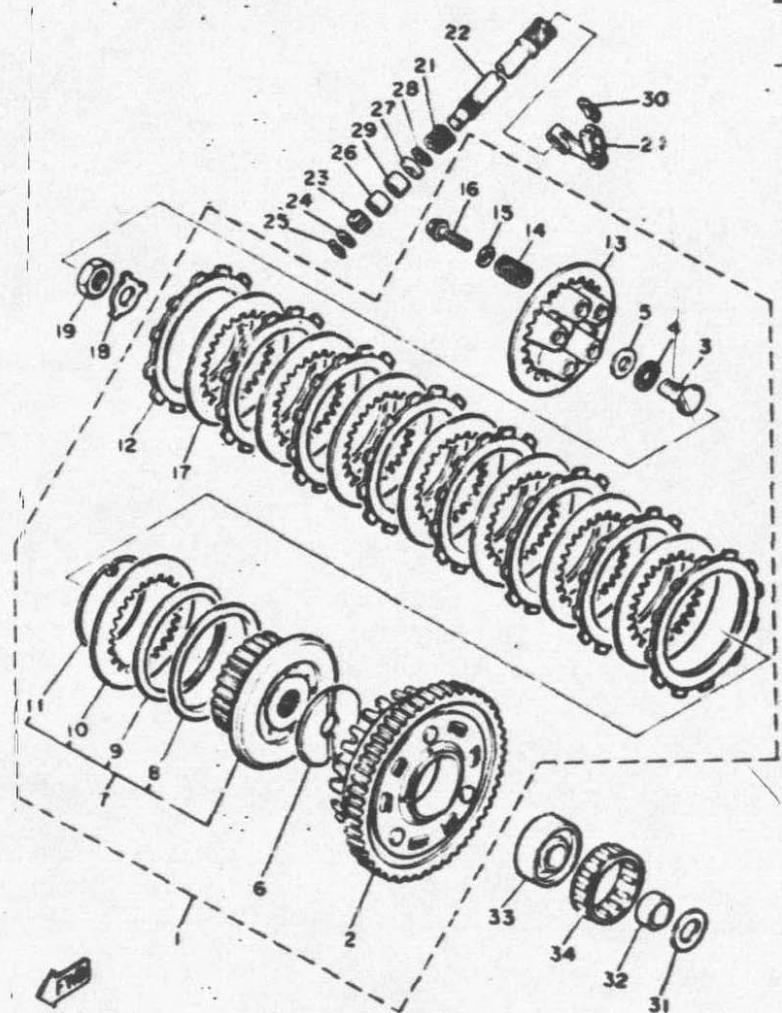
STARTER CLUTCH



4H7110-0160

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-15512-00-00	GEAR, idler 1 (27T).....	1	
2	4H7-15521-00-00	SHAFT 1.....	1	
3	2H7-15531-00-00	PLATE, stopper	1	
4	90215-06040-00	WASHER, lock.....	1	
5	97301-06016-00	BOLT (97301-06015)	1	
6	4H7-15580-00-00	STARTER CLUTCH OUTER ASS'Y	1	
7	90501-04596-00	SPRING, compression.....	3	
8	341-15583-05-00	CAP, starter clutch spring	3	
9	93615-12088-00	PIN, dowel	3	
10	4H7-15517-00-00	GEAR, idler 2 (43T).....	1	
11	4H7-15524-00-00	WHEEL, starter	1	
12	4H7-16155-0C-00	ABSORBER 1.....	8	
13	4H7-15519-00-00	SPROCKET, starter (21T).....	1	
14	93110-32052-00	CIRCLIP	1	
15	91316-08014-00	BOLT	3	
16	90387-202A7-00	COLLAR	1	
17	4H7-15522-00-00	SHAFT 2.....	1	
18	90331-12028-00	PLUG.....	1	
19	93306-00401-00	BEARING (B6004).....	1	
20	93306-20541-00	BEARING (B6205).....	1	
21	93102-25218-00	OIL SEAL	1	
22	4H7-11456-00-00	CHAIN, primary.....	1	
23	4H7-11474-00-00	GUIDE, upper.....	1	
24	97301-06014-00	BOLT	3	

CLUTCH

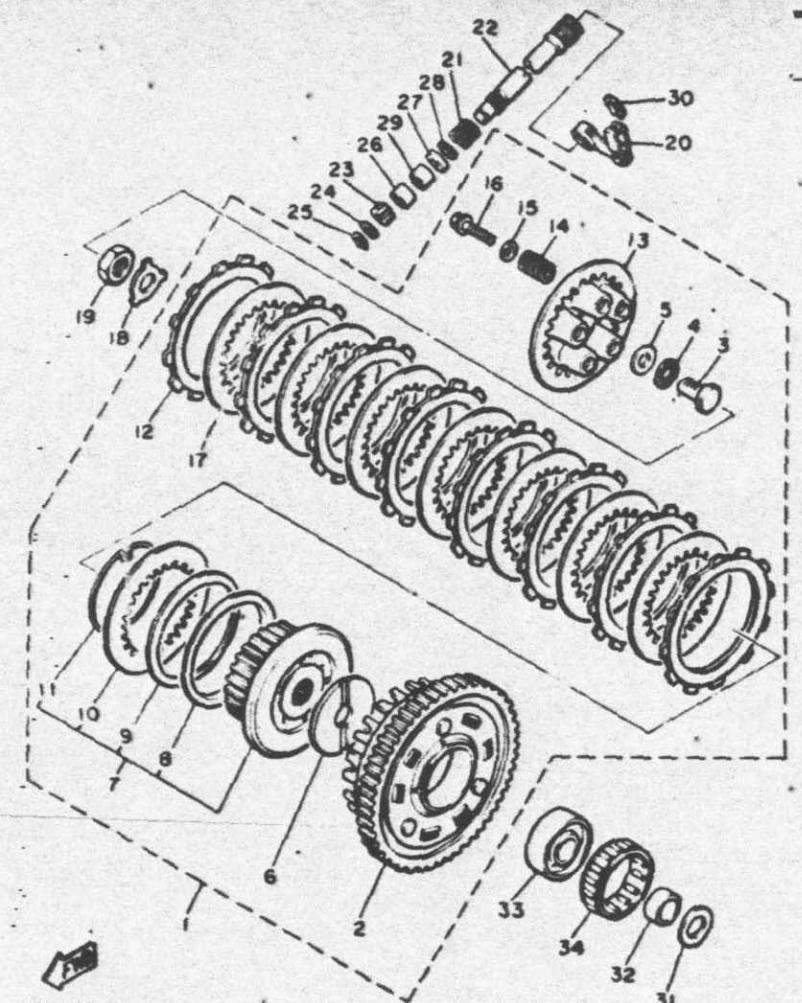


5V2110-2180

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-16300-10-00	CLUTCH ASS'Y.....	1	
2	4H7-16150-10-00	PRIMARY DRIVEN GEAR COMP. (97T).....	1	
3	4H7-16356-00-00	ROD, push 1.....	1	
4	93340-21505-00	BEARING.....	1	
5	90201-151A7-00	WASHER, plate	1	
6	4H7-16154-00-00	PLATE, thrust 1	1	
7	4H7-16370-00-00	CLUTCH BOSS ASS'Y.....	1	
8	1J7-16384-00-00	PLATE, seat.....	1	
9	1J7-16383-01-00	SPRING, clutch boss	1	
10	168-16324-00-00	PLATE, clutch 1.....	1	
11	1J7-16385-00-00	RING, clutch boss.....	1	
12	4H7-16321-00-00	PLATE, friction	8	
13	4H7-16351-00-00	PLATE, pressure 1.....	1	
14	90501-23598-00	SPRING, compression.....	5	
15	90201-061A5-00	WASHER, plate	5	
16	95821-06025-00	BOLT, flange.....	5	
17	4H7-16325-00-00	PLATE, clutch 2.....	7	

Clutch Nut	20 x 10.72 m-kg
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.8mm
Clutch Spring Length Std ~ Min	40.1 ~ 39.9mm

CLUTCH

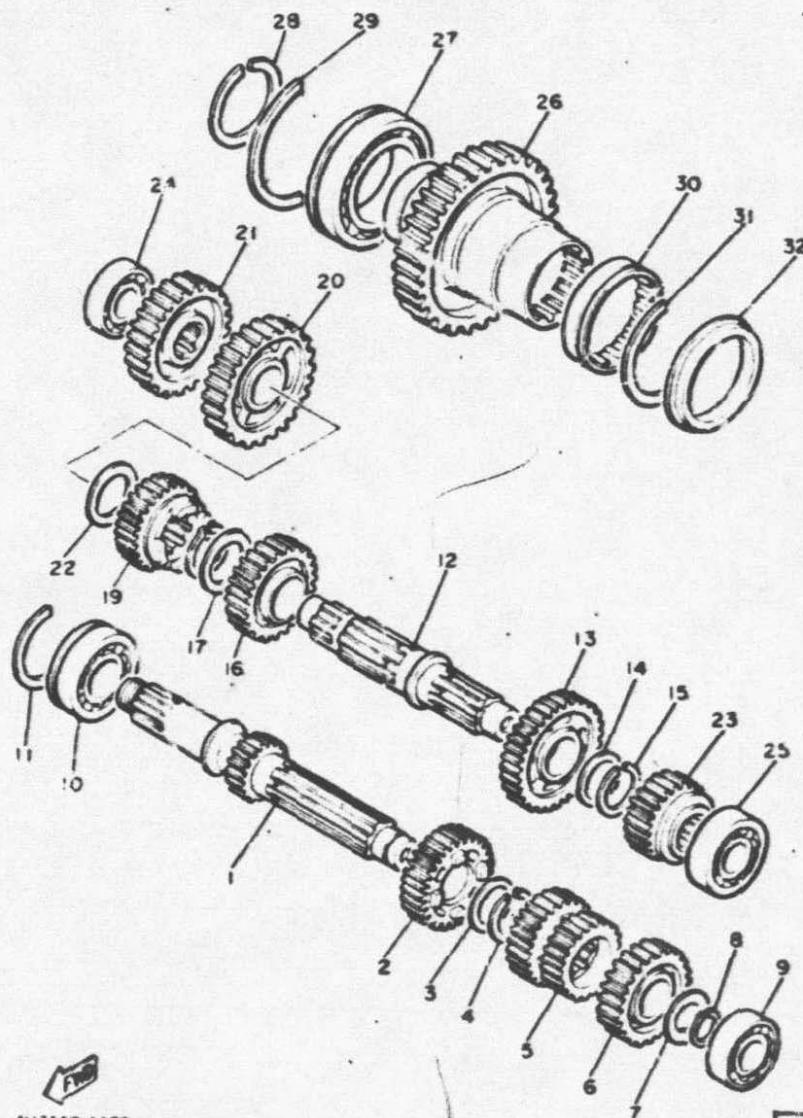


5V2110-2180

Ref. No.	Part Number	Description	Qty.	Remarks
18	90215-20170-00	WASHER, lock.....	1	
19	90170-20257-00	NUT.....	1	
20	4H7-16340-00-00	PUSH LEVER ASS'Y.....	1	
21	90508-18459-00	SPRING, torsion	1	
22	4H7-16382-01-00	AXLE, push lever.....	1	
23	4H7-16398-00-00	PINION, release (16T)	1	
24	92901-08600-00	WASHER, plate.....	1	
25	93430-07012-00	CIRCLIP	1	
26	93317-11020-00	BEARING, cylindrical	1	
27	93102-12224-00	OIL SEAL	1	
28	102-18137-00-10	WASHER 1.....	1	
29	93315-11206-00	BEARING, cylindrical	1	
30	93430-09035-00	CIRCLIP	1	
31	2K7-16154-00-00	PLATE, thrust 1.....	1	
32	90387-252A8-00	COLLAR	1	
33	4H7-16181-00-00	SPACER 1	1	
34	93310-365H3-00	BEARING, cylindrical	1	

Clutch Nut	20 x 10: 7.2 m-kg
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.8mm
Clutch Spring Length Std ~ Min	40.1 ~ 39.1mm

TRANSMISSION



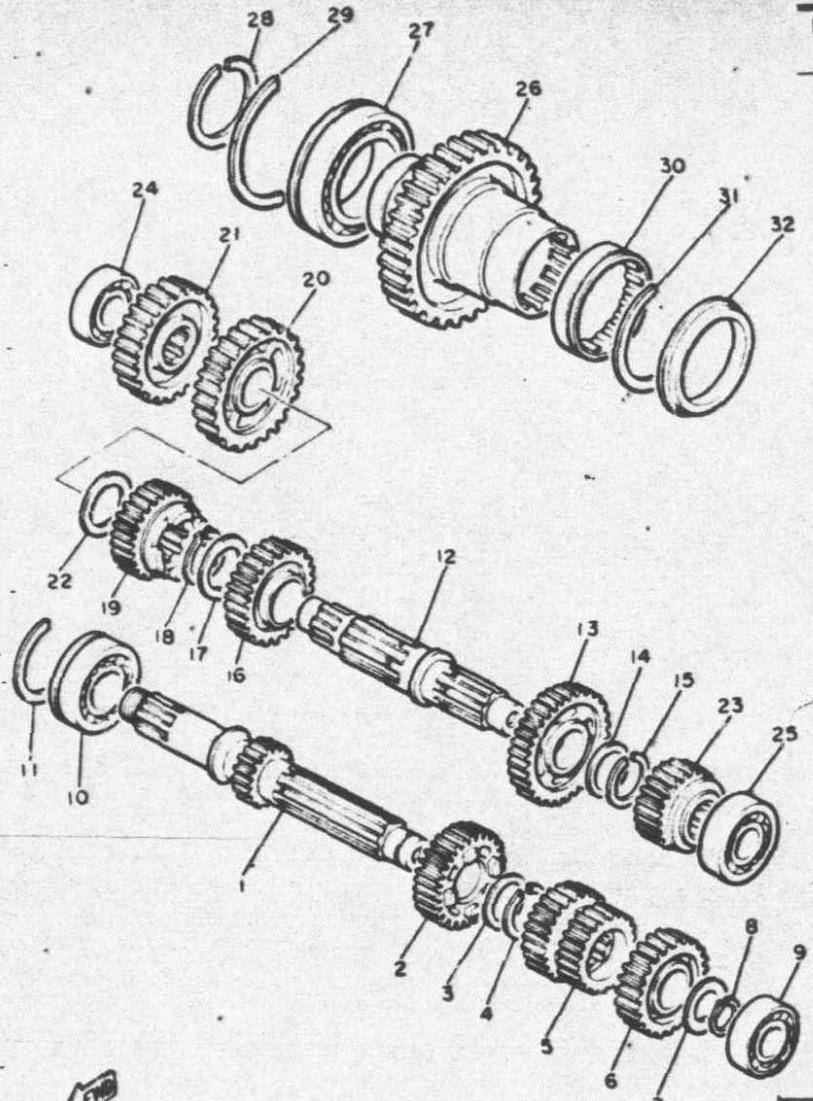
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-17401-00-00	MAIN AXLE ASS'Y (16T)	1	
2	4H7-17141-00-00	GEAR, 4th pinion (30T)	1	
3	90209-22191-00	WASHER	1	
4	93440-25019-00	CIRCLIP	1	
5	4H7-17121-00-00	GEAR, 2nd/3rd pinion (20/26T)	1	
6	4H7-17151-00-00	GEAR, 5th pinion (32T)	1	
7	90201-20276-00	WASHER, plate	1	
8	93410-20009-00	CIRCLIP	1	
9	93306-20434-00	BEARING (B6204)	1	
10	93306-30528-00	BEARING (86305Z)	1	
11	278-17424-00-00	CIRCLIP 1	1	
*12	4H7-17402-01-00	DRIV AXLE ASS'Y	1	
*13	4H7-17221-01-00	GEAR, 2nd wheel (30T)	1	
14	90209-22191-00	WASHER	1	
15	93440-25019-00	CIRCLIP	1	
*16	4H7-17231-01-00	GEAR, 3rd wheel (30T)	1	

*Indicates new part numbers activated from January, 1981.

TRANSMISSION - Oil Type/Cyl Chg/Cyl Reassemble	See ENGINE ABOVE
Primary Drive Type / Teeth / Ratio	Spur Gears 97-58 / 1.672
Secondary Drive Type / Teeth / Chain	Shaft Drive / 49-36 x 19-18 x 32-11 / 8
Oiling System	Wet Sump
Capacity: Dry	3500cc
Oil and Filter Change	2950cc
Oil Change	2650cc
Lubricant Temp. Above 5°C (40°F)	Yamalube 4 [°] or SAE 20W40 SE
Temp. Below 15°C (60°F)	Yamalube 4 [°] or SAE 10W30 SE

4H7110-1180

TRANSMISSION



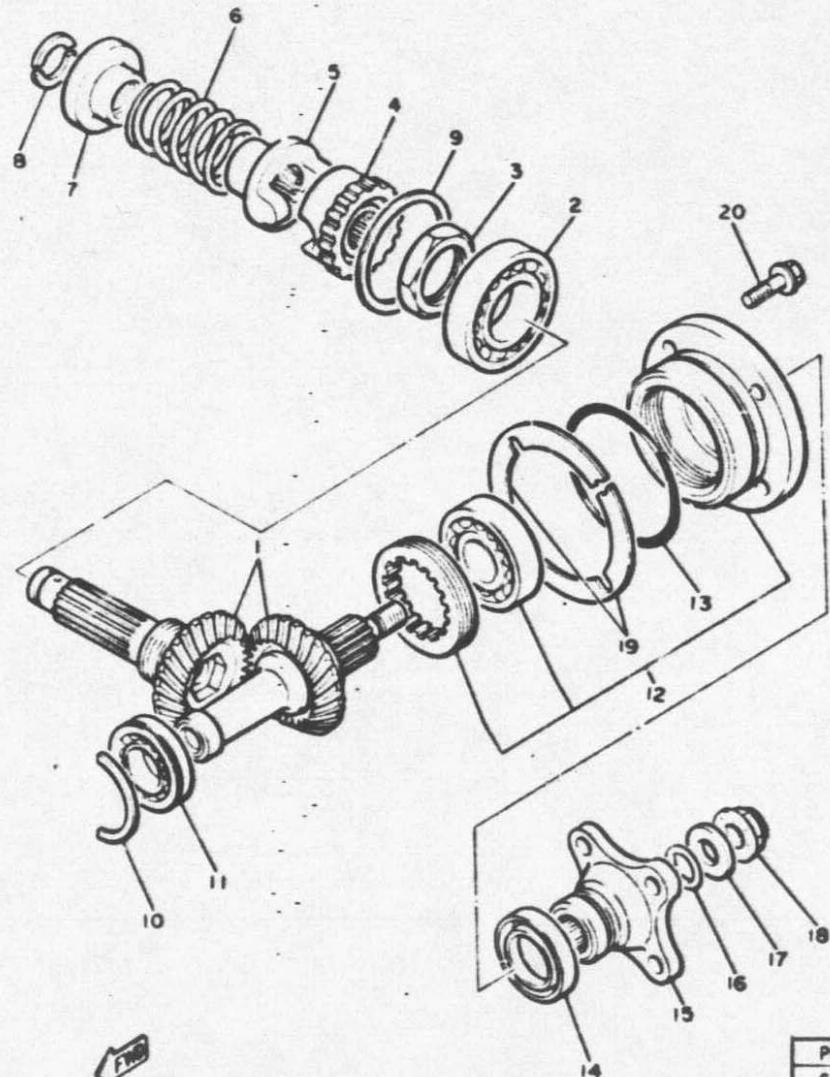
Ref. No.	Part Number	Description	Qty.	Remarks
17	90209-25196-00	WASHER	1	
18	93440-28062-00	CIRCLIP	1	
19	4H7-17241-00-00	GEAR, 4th wheel (28T).....	1	
20	4H7-17211-01-00	GEAR, 1st wheel (35T).....	1	
21	4H7-17582-00-00	GEAR, middle drive (36T).....	1	
22	90201-243A2-00	WASHER, plate.....	1	
*23	4H7-17251-01-00	GEAR, 5th wheel (26T).....	1	
24	93306-30301-00	BEARING (B6303).....	1	
25	93306-30425-00	BEARING (83A581A).....	1	
26	4H7-17583-00-00	GEAR, middle driven (49T)	1	
27	93306-91101-00	BEARING (B6911).....	1	
28	93410-55057-00	CIRCLIP	1	
29	93440-80082-00	CIRCLIP	1	
30	93311-36042-00	BEARING, cylindrical	1	
31	93440-72049-00	CIRCLIP	1	
32	93104-60066-00	OIL SEAL	1	

*Indicates new part numbers activated from January, 1981.

4H7110-1180

TRANSMISSION — Oil Type/Qty Chg. Oil Reassimilate		See ENGINE Above
Primary Drive Type / Teeth	/ Ratio	Spur Gears : 97-58 / 1.672
Secondary Drive Type / Teeth / Chain		Shaft Drive : 49-36 x 19-18 x 32-11 / 8
Oiling System		Wet Sump
Capacity: Dry		3500cc
Oil and Filter Change		2950cc
Oil Change		2650cc
Lubricant: Temp. Above 5°C (40°F)		Yamalube 4° or SAE 20W40 SE
Temp. Below 15°C (60°F)		Yamalube 4° or SAE 10W30 SE

MIDDLE DRIVE GEAR



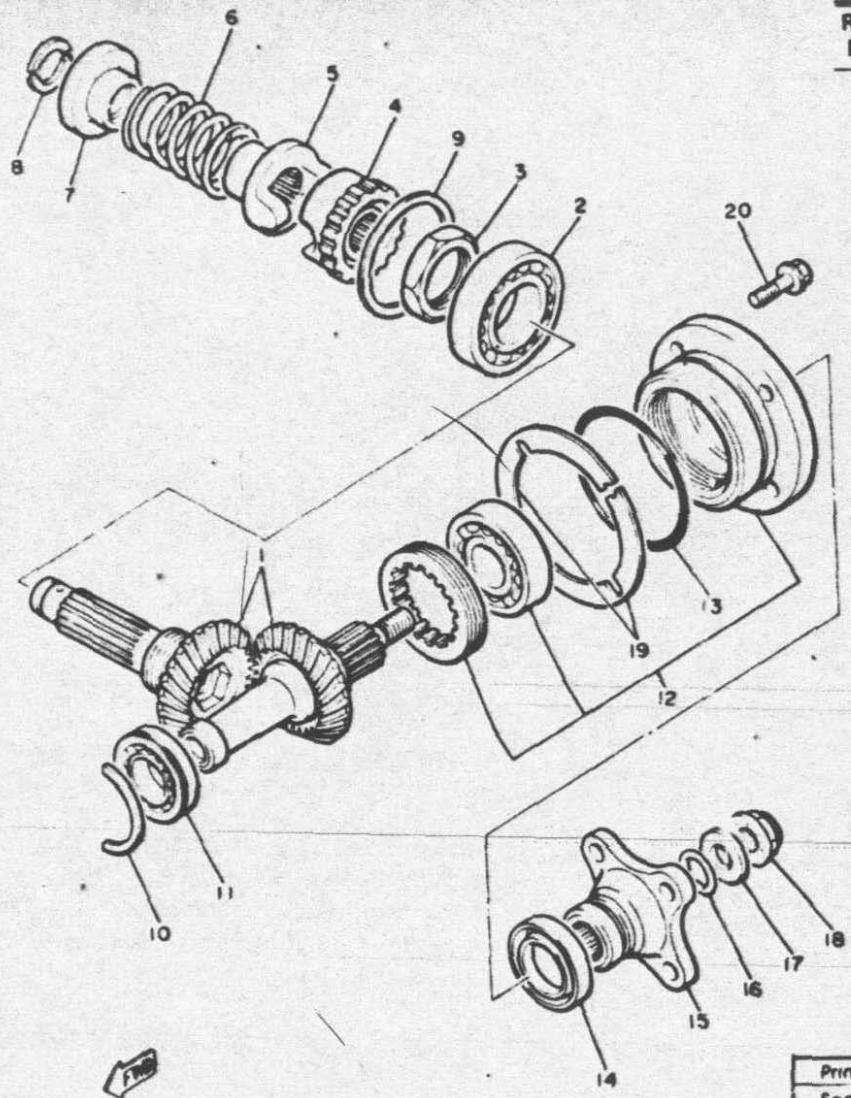
4H7110-1190

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-W1751-00-00	MIDDLE GEAR SET	1	
2	93306-20709-00	BEARING (B6207).....	1	
3	90179-34304-00	NUT.....	1	
4	4H7-17526-02-00	CAM, drive.....	1	
5	4H7-17527-00-00	CAM, driven.....	1	
6	90501-65575-00	SPRING, compression	1	
7	4H7-17524-00-00	HOLDER	1	
8	3H5-17529-00-00	WASHER, thrust	2	
9	4H7-17537-00-15	SHIM, thrust (0.15T)	1	U.R.
	4H7-17537-00-20	SHIM, thrust (0.20T)	1	U.R.
	4H7-17537-00-30	SHIM, thrust (0.30T)	1	U.R.
	4H7-17537-00-40	SHIM, thrust (0.40T)	1	U.R.
	4H7-17537-00-50	SHIM, thrust (0.50T)	1	U.R.
10	93440-47081-00	CIRCLIP	1	
11	93306-00508-00	BEARING (B6005).....	1	
12	4H7-W1752-00-00	HOUSING CUMP.....	1	

*Indicates new part numbers activated from January, 1981.

Primary Drive Type / Teeth / Ratio	Spur Gears / 97-58 / 1.672
Secondary Drive Type / Teeth / Chain	Shaft Drive / 49-36 x 19-18 x 32-11 / @

MIDDLE DRIVE GEAR

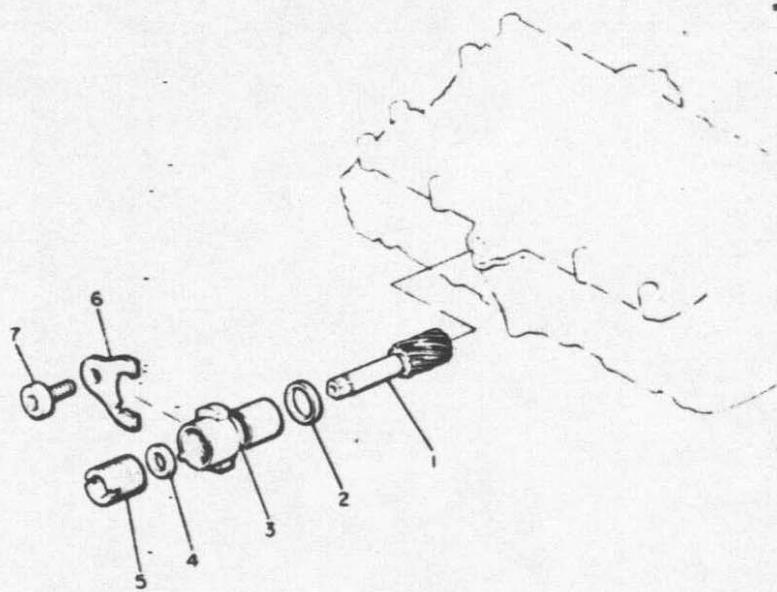


Ref. No.	Part Number	Description	Qty.	Remarks
13	93210-71360-00	O-RING.....	1	
14	93101-35097-00	OIL SEAL	1	
15	4H7-17555-00-00	FLANGE, middle gear.....	1	
16	93210-14359-00	O-RING.....	1	
17	90201-14633-00	WASHER, plate.....	1	
18	90179-14317-00	NUT.....	1	
19	4H7-17531-00-10	SHIM, pinion (0.10T)	2	U.R.
	4H7-17531-00-15	SHIM, pinion (0.15T)	2	U.R.,
	4H7-17531-00-20	SHIM, pinion (0.20T)	2	U.R.
	4H7-17531-00-30	SHIM, pinion (0.30T)	2	U.R.
	4H7-17531-00-40	SHIM, pinion (0.40T)	2	U.R.
	4H7-17531-00-50	SHIM, pinion (0.50T)	2	U.R.
20	95821-08030-00	BOLT, flange.....	4	

Primary Drive Type / Teeth / Ratio	Spur Gears : 97-58 / 1.672
Secondary Drive Type / Teeth / Chain	Shaft Drive : 49-36 x 19-18 x 32-11 : #

4H7110-1190

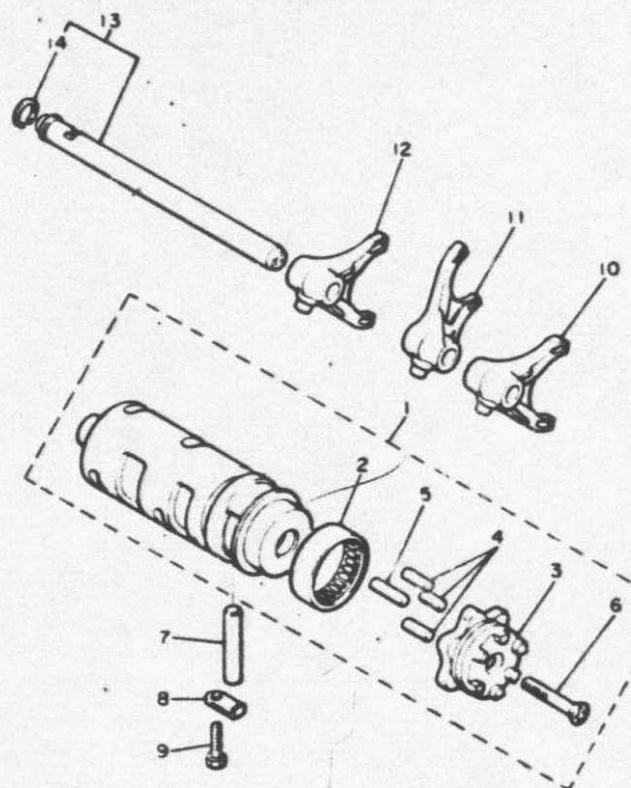
TACHOMETER GEAR



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-17841-00-00	GEAR, driven	1	
2	93210-11437-00	O-RING.....	1	
3	4H7-17811-00-00	HOUSING, tachometer gear	1	
4	93104-07036-00	OIL SEAL	1	
5	256-17848-00-00	ADAPTER	1	
6	4H7-17812-00-00	STOPPER	1	
7	91318-06012-00	BOLT	1	

4H7110-0200.

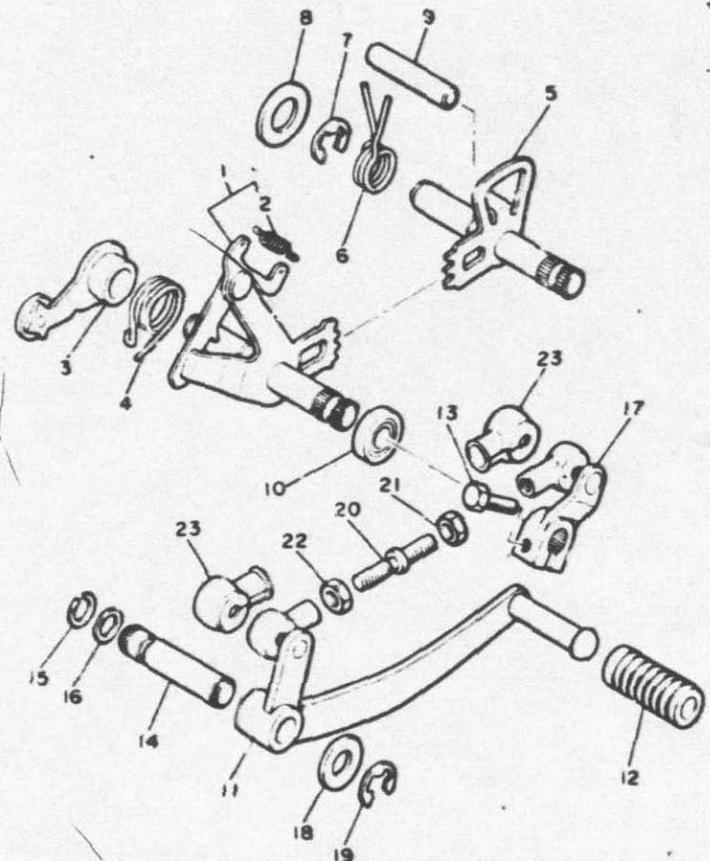
SHIFT CAM • FORK



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-18540-00-00	SHIFT CAM ASS'Y.....	1	
2	93315-23&12-00	. BEARING, cylindrical.....	1	
3	4H7-18185-00-00	. SEGMENT.....	1	
4	93604-16092-00	. PIN, dowel	3	
5	93604-20156-00	. PIN, dowel	1	
6	98701-05035-00	. SCREW, flat head	1	
7	93608-43157-00	. PIN, dowel	1	
8	2H7-15531-00-00	PLATE, stopper	1	
9	97301-06016-00	BOLT (97301-06015)	1	
10	4H7-18511-01-00	FORK, shift 1.....	1	
11	4H7-18512-01-00	FORK, shift 2.....	1	
12	4H7-18513-01-00	FORK, shift 3.....	1	
13	4H7-18531-00-00	BAR, shift fork guide 1.....	1	
14	93440-11029-00	. CIRCLIP.....	1	

5V2110-2220

SHIFT SHAFT • PEDAL

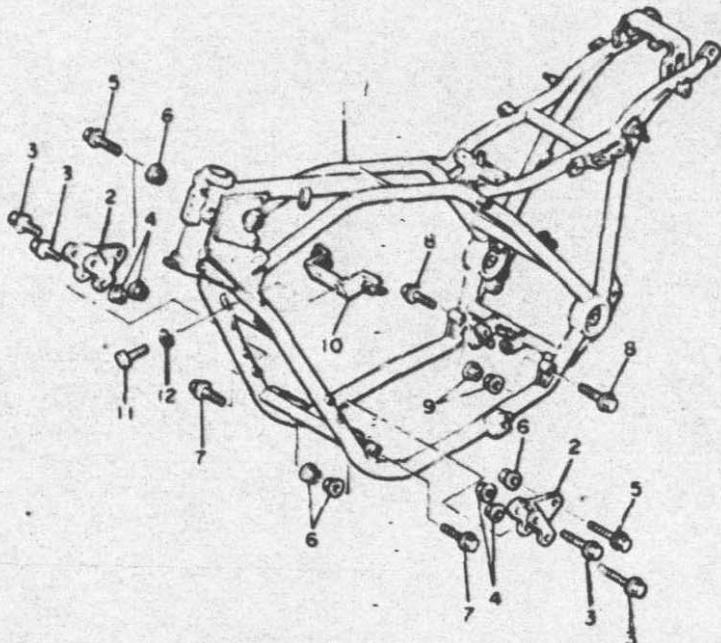


4KU332-0230

Ref. No.	Part Number	Description	Qty.	Remarks
1	4K0-18101-00-00	SHIFT SHAFT ASS'Y	1	
2	90508-08227-00	SPRING, tension	1	
3	4H7-18140-00-00	STOPPER LEVER ASS'Y	1	
4	90508-29448-00	SPRING, torsion	1	
5	4K0-18120-00-00	SHIFT LEVER ASS'Y	1	
6	90508-32449-00	SPRING, torsion	1	
7	93430-10016-00	CIRCLIP	1	
8	90201-12588-00	WASHER, plate	1	
9	93608-50158-00	PIN, dowel	1	
10	93102-12106-00	OIL SEAL	1	
*11	4K0-18111-01-00	PEDAL, shift	1	
12	132-18113-01-00	COVER, shift pedal	1	
13	97321-06020-00	BOLT	1	
14	4K0-18197-00-00	SHAFT	1	
15	93440-12066-00	CIRCLIP	1	
16	93210-09350-00	O-RING	1	
17	2H9-W1812-00-00	ARM, shift pedal	1	
18	90201-12688-00	WASHER, plate	1	
19	93430-10016-00	CIRCLIP	1	
20	4K0-18115-00-00	ROD, shift	1	
21	95303-06700-00	NUT	1	
22	90170-06228-00	NUT	1	
23	2H9-18154-00-00	COVER, dust	2	

*Indicates new part numbers activated from January, 1981.

FRAME



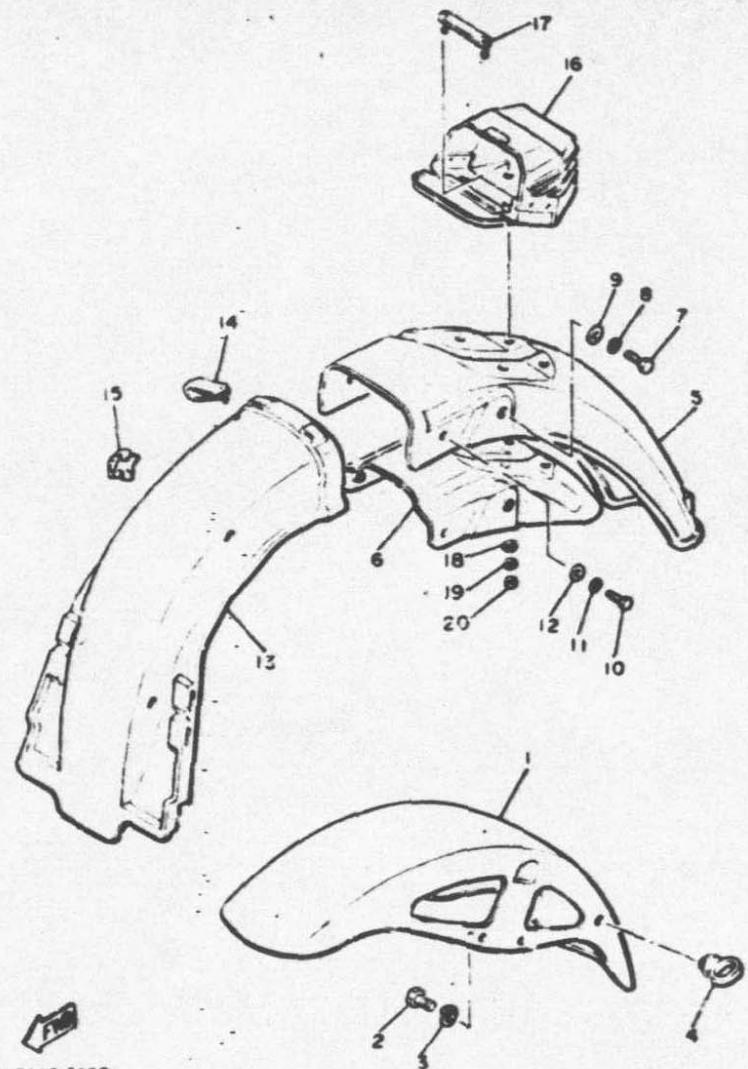
Ref. No.	Part Number	Description	Qty.	Remarks
• 1	5V2-21110-00-33	FRAME COMP.....	1	Yamaha Black
2	4K0-21315-00-00	STAY, engine 2	2	
3	90105-08107-00	BOLT, washer based.....	4	
4	90179-08246-00	NUT.....	4	
5	90105-10169-00	BOLT, washer based.....	2	
6	95701-10100-00	NUT, flange	4	
7	90105-10038-00	BOLT, washer based.....	2	
• 8	90105-12168-00	BOLT, washer based.....	2	
9	95701-12100-00	NUT, flange	2	
*10	4K0-2134Y-00-00	STAY, horn.....	1	
11	97301-08018-00	BOLT (97301-08016)	2	
12	32903-08100-00	WASHER, spring (92901-08100)	2	

*Indicates new part numbers activated from January, 1981.

4K0-332 0240

Initial Engine Number / Frame Number	5V2 000101 / 5V2-000101
Engine Mounting Bolts: Front, Upper	10 x 1.25: 4.2 m-kg
Front, Lower	10 x 1.25: 4.2 m-kg
Rear	12 x 1.25: 7.0 m-kg

FRONT FENDER • REAR FENDER

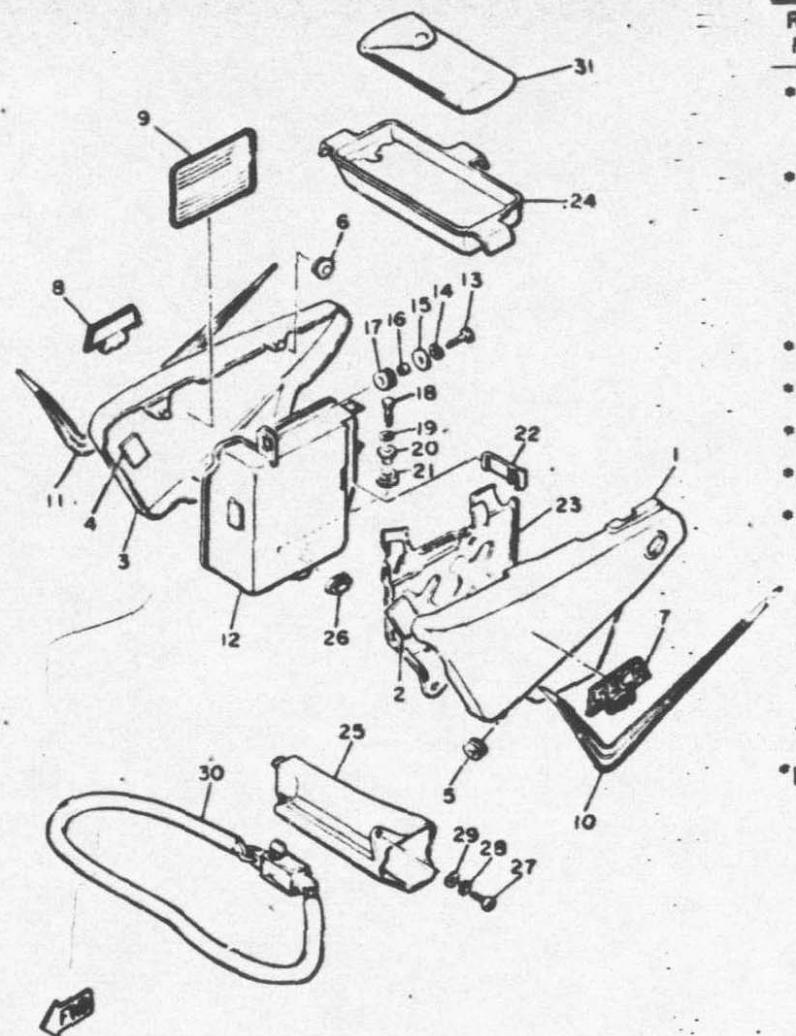


5V2110-2250

Ref. No.	Part Number	Description	Qty.	Remarks
* 1	4K0-21510-00-1U	FRONT FENDER COMP.....	1	Quartz Silver
2	97301-08020-00	BOLT	4	
3	92903-08100-00	WASHER, spring (92901-08100)	4	
4	1A0-21518-00-00	HOLDER, cable	1	
* 5	4K0-21611-00-00	FENDER, rear.....	1	
* 6	4K0-21670-00-00	REINF. COMP.....	1	
7	97321-08020-00	BOLT	2	
8	92903-08100-00	WASHER, spring (92901-08100)	2	
9	92901-08600-00	WASHER, plate	2	
10	97321-06016-00	BOLT	2	
11	92903-06100-00	WASHER, spring (92901-06100)	2	
12	92903-06200-00	WASHER, plain (92901-06200)	2	
13	4H7-21629-00-00	GUARD, mud	1	
14	90464-12027-00	CLAMP	1	
15	90464-16021-00	CLAMP	1	
*16	4K0-2160A-00-00	BOX COMP.....	1	
*17	4K0-21631-00-00	BOLT 1	2	
18	92902-06200-00	WASHER	1	
19	92903-06100-00	WASHER, spring (92901-06100)	4	
20	95301-06600-00	NUT.....	4	

*Indicates new part numbers activated from January, 1981.

SIDE COVER • TOOL

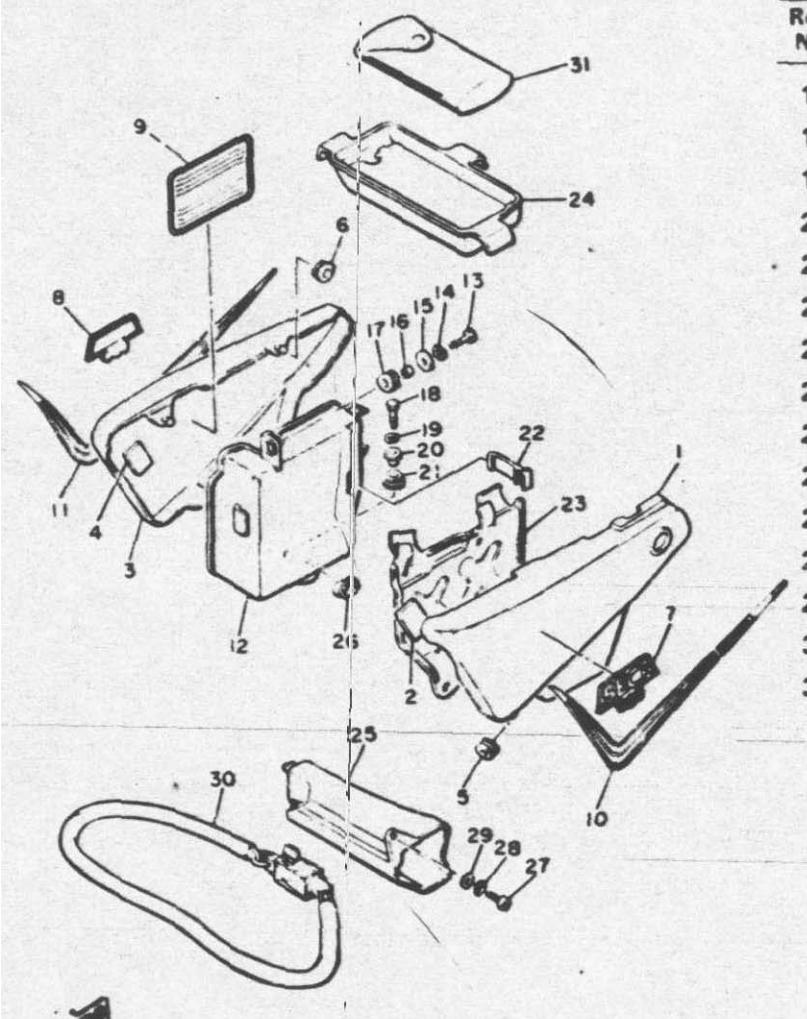


5V2110-2260-

Ref. No.	Part Number	Description	Qty.	Remarks
* 1	4K0-21711-00-1U	COVER, side 1.....	1	Quartz Silver
2	2H7-21628-00-00	DAMPER, mud guard.....	1	
* 3	4K0-21721-01-1U	COVER, side 2.....	1	Quartz Silver
4	2H7-21628-00-00	DAMPER, mud guard.....	1	
5	90480-12053-00	GROMMET.....	2	
6	90480-01141-00	GROMMET.....	4	
* 7	5V2-21781-00-00	EMBLEM 1.....	1	
* 8	5V2-21782-00-00	EMBLEM 2.....	1	
* 9	5V2-21683-00-00	PLATE, specification.....	1	
*10	4K0-2173E-10-00	GRAPHIC 1	1	Quartz Silver
*11	4K0-2173F-10-00	GRAPHIC 2	1	Quartz Silver
12	4H7-21240-J1-00	BOX COMP.....	1	
13	97321-06025-00	BOLT	1	
14	92903-06100-00	WASHER, spring (92902-06100)	1	
15	90201-06407-00	WASHER, plate.....	1	
16	90387-060A7-00	COLLAR	1	

*Indicates new part numbers activated from January, 1981.

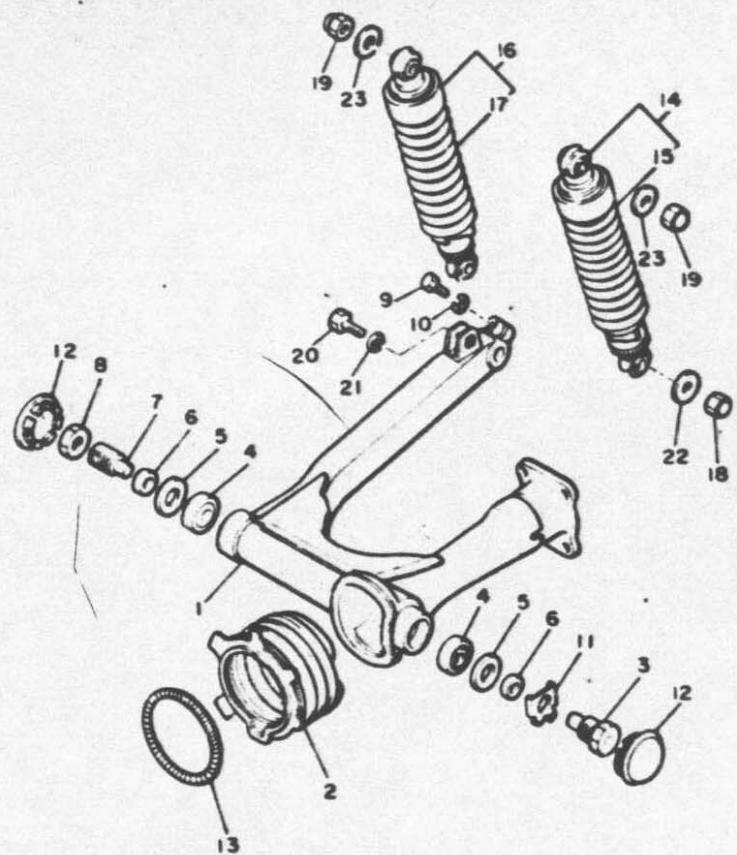
SIDE COVER • TOOL



SV2110-2260

Ruf. No.	Part Number	Description	Qty.	Remarks
17	90480-16233-00	GROMMET.....	1	
18	97321-08025-00	BOLT (97322-08025)	1	
19	92903-03100-00	WASHER, spring (92902-08100)	1	
20	90387-09617-00	COLLAR	1	
21	4H7-21746-00-00	DAMPER.....	1	
22	4H7-2175R-00-00	HOOK, bank.....	1	
23	4H7-21243-01-00	PLATE, bridge	1	
24	4H7-21170-00-00	BOX COMP.....	1	
25	4H7-21258-00-00	BOX.....	1	
26	90480-22084-00	GROMMET.....	1	
27	92503-06020-00	SCREW, pan head (92501-06020)	1	
28	92903-06100-00	WASHER, spring (92902-05100)	1	
29	90201-06557-00	WASHER, plate.....	1	
30	4H7-W2171-01-00	WHEEL LOCK ASS'Y	1	
31	4H7-28100-10-00	TOOL KIT	1	

REAR ARM • SUSPENSION

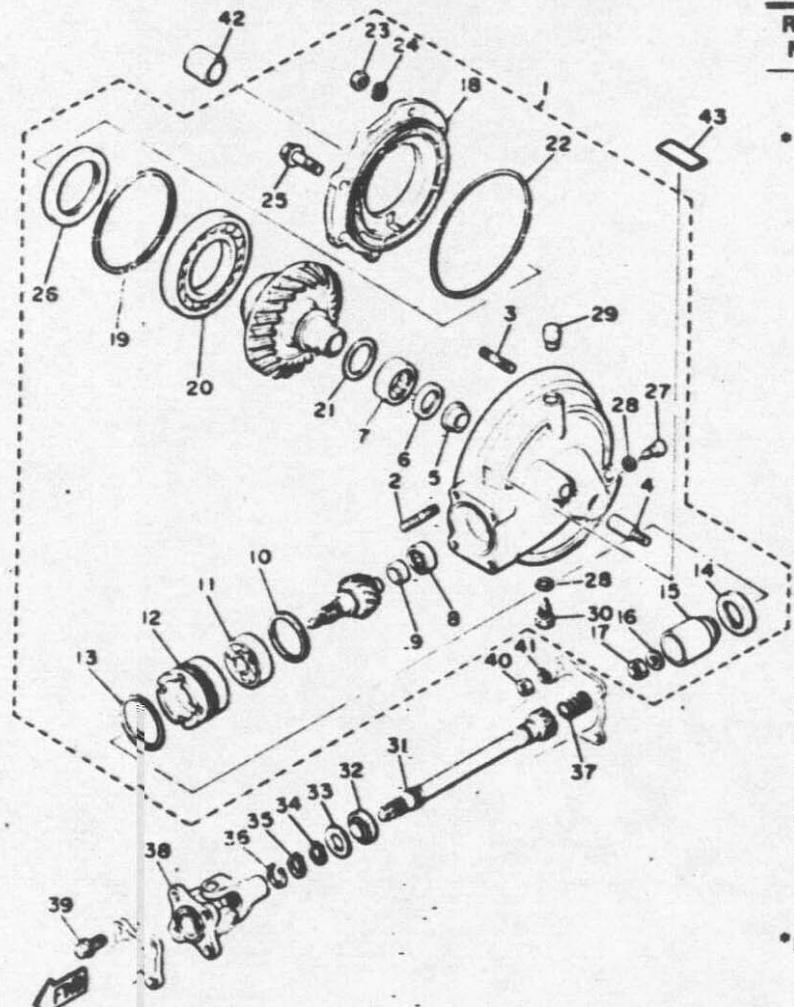


Ref. No.	Part Number	Description	Qty	Remarks
1	4K0-22110-00-33	REAR ARM COMP.	1	Yamaha Black
2	4H7-22189-00-00	BOOT, rubber.....	1	
3	4H7-22141-00-00	SHAFT, pivot	1	
4	93332-00010-00	BEARING	2	
5	93102-25017-00	OIL SEAL	2	
6	90387-17543-00	COLLAR	2	
7	1J7-22141-00-00	SHAFT, pivot	1	
8	1J7-22143-00-00	NUT.....	1	
9	97306-08035-00	BOLT.....	1	
10	92906-08100-00	WASHER, spring.....	1	
11	90215-22171-00	WASHER, lock.....	1	
12	2H7-2219X-00-00	COVER	2	
13	90506-07136-00	SPRING, tension.....	1	
*14	4K0-22210-00-00	SHOCK ABSORBER ASS'Y, rear	1	
	4H7-22210-A0-00	SHOCK ABSORBER ASS'Y, rear	1	Heavy Duty
*15	4K0-22212-00-00	SPRING.....	1	
*15	4K0-22212-00-00	SPRING.....	1	
	4H7-22212-A0-00	SPRING.....	1	Heavy Duty
*16	4K0-22210-10-00	SHOCK ABSORBER ASS'Y, rear	1	
	4H7-22210-E0-00	SHOCK ABSORBER ASS'Y, rear	1	Heavy Duty
*17	4K0-22212-00-00	SPRING.....	1	
	4H7-22212-A0-00	SPRING.....	1	Heavy Duty
18	90176-10013-00	NUT, crown	1	
19	90176-10009-00	NUT, crown	2	
20	90106-10030-00	BOLT	1	
21	92903-10100-00	WASHER, spring.....	1	
22	90201-10140-00	WASHER, plate.....	1	
23	90201-10142-00	WASHER, plate.....	2	

*Indicates new part numbers activated from January, 1981.

4K0332-0270

DRIVE SHAFT



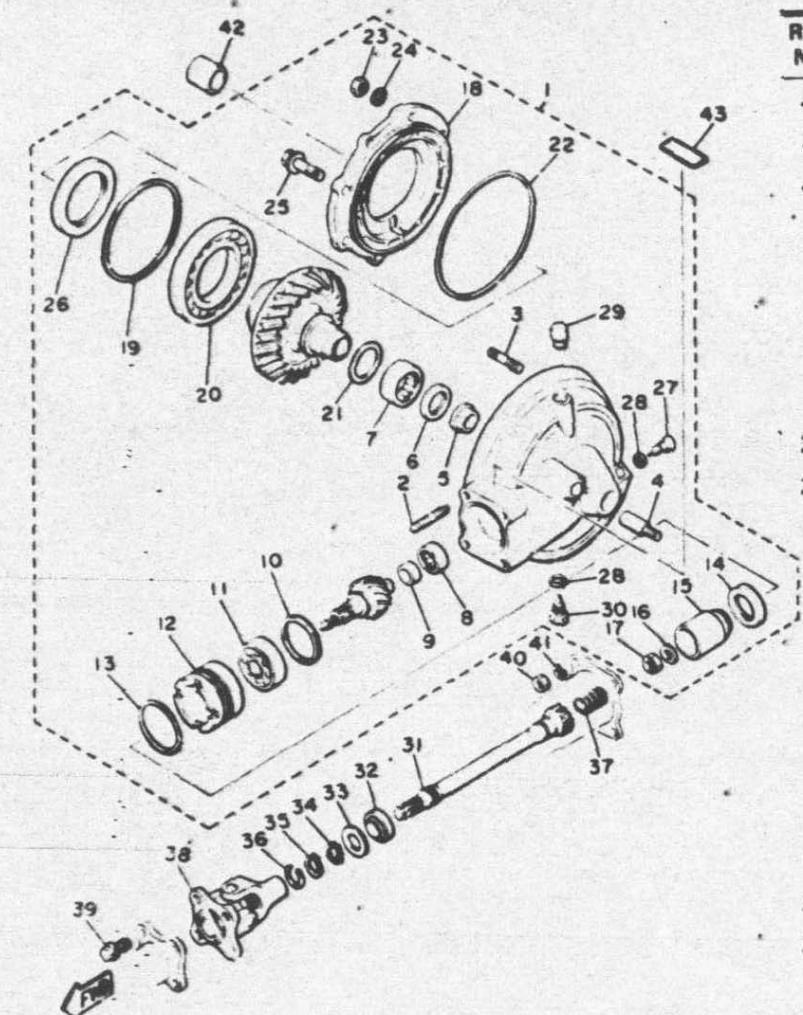
SG2110-1260

Ref. No.	Part Number	Description	Qty.	Remarks
1	5G2-46101-00-00	REAR AXLE GEAR CASE ASS'Y	1	
2	90116-10362-00	BOLT, stud	4	
3	90116-08360-00	BOLT, stud	6	
4	90116-10249-00	BOLT, stud	1	
5	4H7-46153-00-00	COLLAR, guide.....	1	
6	93101-30084-00	OIL SEAL.....	1	
7	93311-43729-00	BEARING, cylindrical.....	1	
8	93317-41510-00	BEARING, cylindrical.....	1	
9	2H7-46122-00-00	RACE, inner.....	1	
10	1J7-17537-Y0-15	SHIM, thrust (0.15T).....	1	U.R.
	1J7-17537-Y0-30	SHIM, thrust (0.30T).....	1	U.R.
	1J7-17537-Y0-40	SHIM, thrust (0.40T).....	1	U.R.
	1J7-17537-Y0-50	SHIM, thrust (0.50T).....	1	U.R.
	1J7-17537-Y0-60	SHIM, thrust (0.60T).....	1	U.R.
11	93306-30533-00	BEARING (B6305RB1 Special)	1	
12	4H7-46125-00-00	RETAINER, bearing	1	
13	93210-60426-00	O-RING	1	
14	93101-38098-00	OIL SEAL.....	1	
15	4H7-46123-00-00	COUPLING, gear	1	
16	90201-14632-00	WASHER, plate	1	

*Indicates new part numbers activated from January, 1981.

Final Gear Case Capacity	200cc
Gear Case Lubricant: Temp. Above 5°C (40°F)	SAE 80 API Hypoid Gear Oil GL-4
Temp. Below 15°C (60°F)	SAE 80 API Hypoid Gear Oil GL-4
All Weather Conditions	SAE 80 API Hypoid Gear Oil GL-4

DRIVE SHAFT

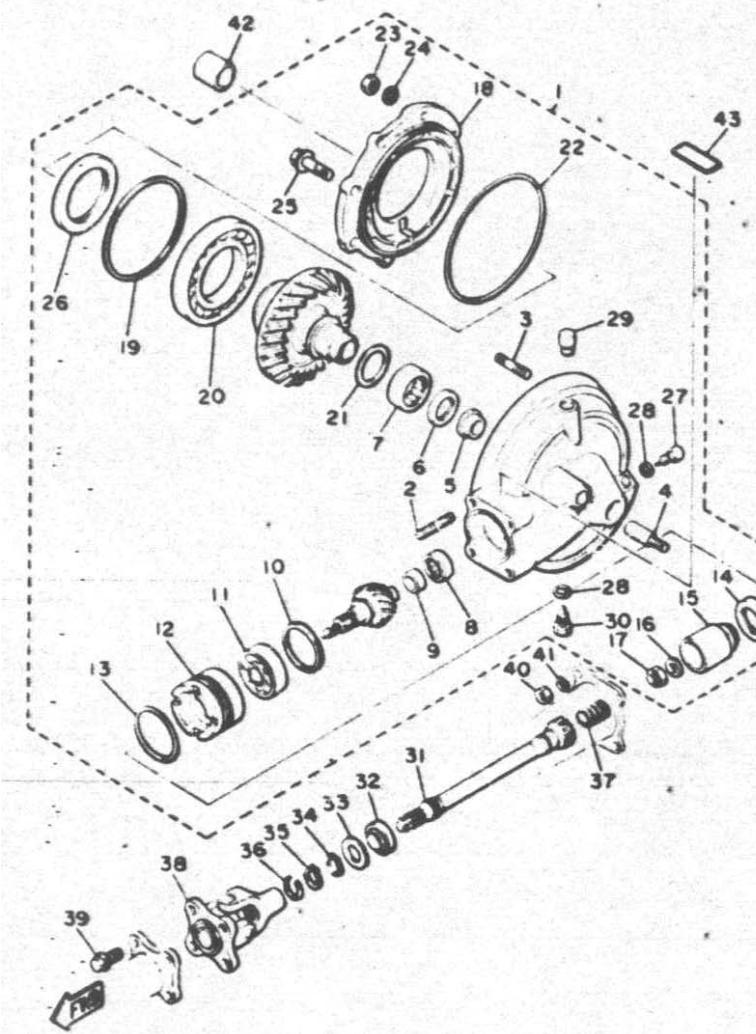


SG2110-1260

Ref. No.	Part Number	Description	Qty.	Remarks
17	90185-14070-00	NUT, self-locking	1	
18	4H7-461152-00-00	HOUSING, bearing.....	1	
19	1J7-46117-Y0-25	SHIM, ring gear (0.25T)	1	U.R.
	1J7-46117-Y0-30	SHIM, ring gear (0.30T)	1	U.R.
	1J7-46117-Y0-35	SHIM, ring gear (0.35T)	1	U.R.
	1J7-46117-Y0-40	SHIM, ring gear (0.40T)	1	U.R.
	1J7-46117-Y0-45	SHIM, ring gear (0.45T)	1	U.R.
	1J7-46117-Y0-50	SHIM, ring gear (0.50T)	1	U.R.
20	93316-01403-00	BEARING, cylindrical.....	1	
21	1J7-46118-Y0-18	WASHER, thrust (1.8T).....	1	U.R.
	1J7-46118-Y0-19	WASHER, thrust (1.9T).....	1	U.R.
	1J7-46118-Y0-20	WASHER, thrust (2.0T).....	1	U.R.
	1J7-46118-Y0-21	WASHER, thrust (2.1T).....	1	U.R.
	4H7-46118-00-14	WASHER, thrust (1.4T).....	1	U.R.
	4H7-46118-00-15	WASHER, thrust (1.5T).....	1	U.R.
	4H7-46118-00-16	WASHER, thrust (1.6T).....	1	U.R.
	4H7-46118-00-17	WASHER, thrust (1.7T).....	1	U.R.
	4H7-46118-00-22	WASHER, thrust (2.2T).....	1	U.R.
	4H7-46118-00-23	WASHER, thrust (2.3T).....	1	U.R.
22	93211-44348-00	O-RING	1	
23	95311-08600-00	NUT	6	

Final Gear Case Capacity	200cc
Gear Case Lubricant: Temp. Above 5°C (40°F)	SAE 80 API Hypoid Gear Oil GL-4
Temp. Below 15°C (60°F)	SAE 80 API Hypoid Gear Oil GL-1
All Weather Conditions	SAE 80 API Hypoid Gear Oil GL-4

DRIVE SHAFT

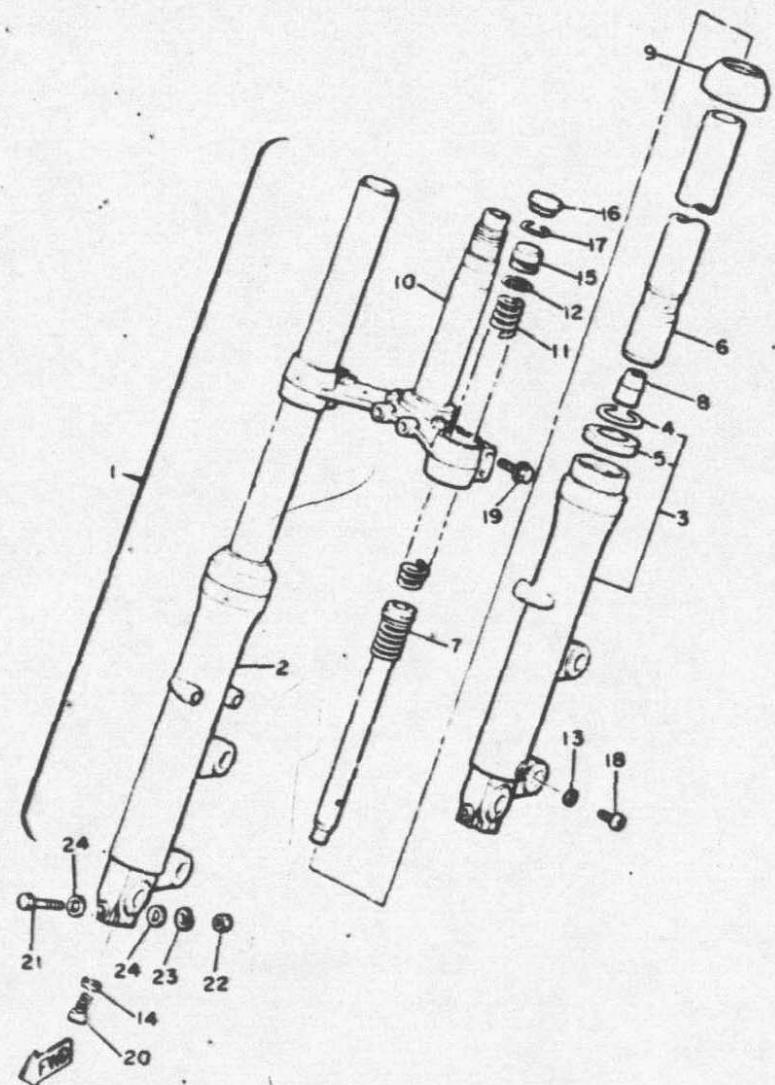


5G2110-1260

Ref. No.	Part Number	Description	Qty.	Remarks
24	92901-08700-00	WASHER, wave	6	
25	95821-10025-00	BOLT, flange	2	
26	93102-70167-00	OIL SEAL	1	
27	90340-14009-00	PLUG, straight screw	1	
28	214-11198-01-00	GASKET	2	
29	2H7-17590-00-00	BREATHER COMP.	1	
30	90340-14042-00	PLUG, straight screw	1	
31	5G2-46172-00-00	SHAFT, drive	1	
32	93108-23007-00	OIL SEAL	1	
33	90201-231A2-00	WASHER, plate	1	
34	93410-23056-00	CIRCLIP	1	
35	93410-22039-00	CIRCLIP	1	
36	90468-14067-00	CLIP	1	
37	90501-16491-00	SPRING, compression	1	
38	4H7-46180-00-00	CROSS JOINT COMP.	1	
39	90105-08066-00	BOLT, washer based.	4	
40	95316-10600-00	NUT	4	
41	92906-10100-00	WASHER, spring	4	
42	90387-172A5-00	COLLAR	1	
43	4H7-46181-10-00	LABEL, oil caution.	1	

Gear Case Capacity	200cc
Gear Case Lubricant: Temp. Above 5°C (40°F)	SAE 80 API Hypoid Gear Oil GL-4
Temp. Below 15°C (60°F)	SAE 80 API Hypoid Gear Oil GL-4
All Weather Conditions	SAE 80 API Hypoid Gear Oil GL-4

FRONT FORK



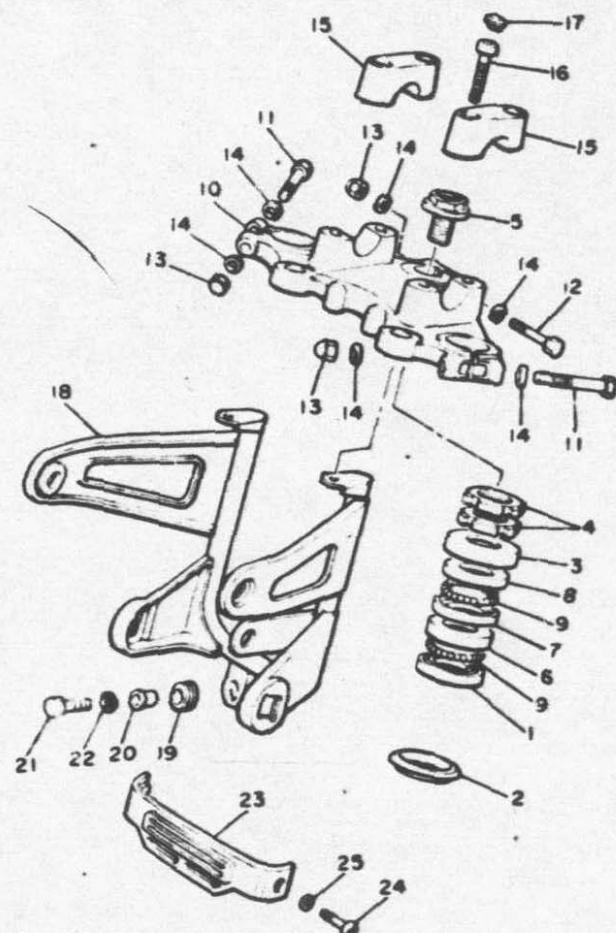
4K0312 0290

Ref. No.	Part Number	Description	Qty.	Remarks
* 1	4K0-23101-20-00	FRONT FORK ASS'Y	1	
* 2	4K0-23136-00-00	. TUBE, outer 2.....	1	
* 3	4K0-23126-00-00	. TUBE, outer 1.....	1	
* 4	4A1-23156-00-00	. CLIP, oil seal.....	2	
* 5	3J2-23145-00-00	. OIL SEAL	2	
* 6	4K0-23110-00-00	. INNER TUBE COMP. 1.....	2	
* 7	4K0-23170-00-00	. CYLINDER COMP., front fork	2	
* 8	1W1-23173-L0-00	. SPINDLE, taper	2	
* 9	3J2-23144-00-00	. SEAL, dust.....	2	
*10	4K0-23340-20-00	. UNDERBRACKET COMP	1	
*11	4K0-23141-00-00	. SPRING, front fork	2	
*12	3J2-23114-00-00	. O-RING	2	
*13	122-23129-00-00	. GASKET, drain plug.....	2	
*14	509-23158-L0-00	. GASKET.....	2	
*15	3Y1-23111-00-00	. BOLT, cap	2	
*16	3Y1-23168-00-00	. CAP, front fork.....	2	
*17	3J2-23183-00-00	. CIRCLIP.....	2	
*18	122-23119-01-00	. PLUG, drain.....	2	
*19	90119-08012-00	. BOLT, with washer	4	
*20	278-23181-50-00	. BOLT, hexagon socket head...	2	
*21	4G0-23358-00-00	. BOLT 2.....	2	
*22	95311-08600-00	. NUT	2	
*23	92930-08100-00	. WASHER, spring (92901-08100)	2	
*24	90201-08544-00	. WASHER, plate	4	

* indicates new part numbers activated from January, 1981.

Front Forks: Oil Type : Level / Qty	10 Wt. Fork Oil* / # / 236cc
Gas Pressure	#
Spring Length Std	540.5mm

STEERING

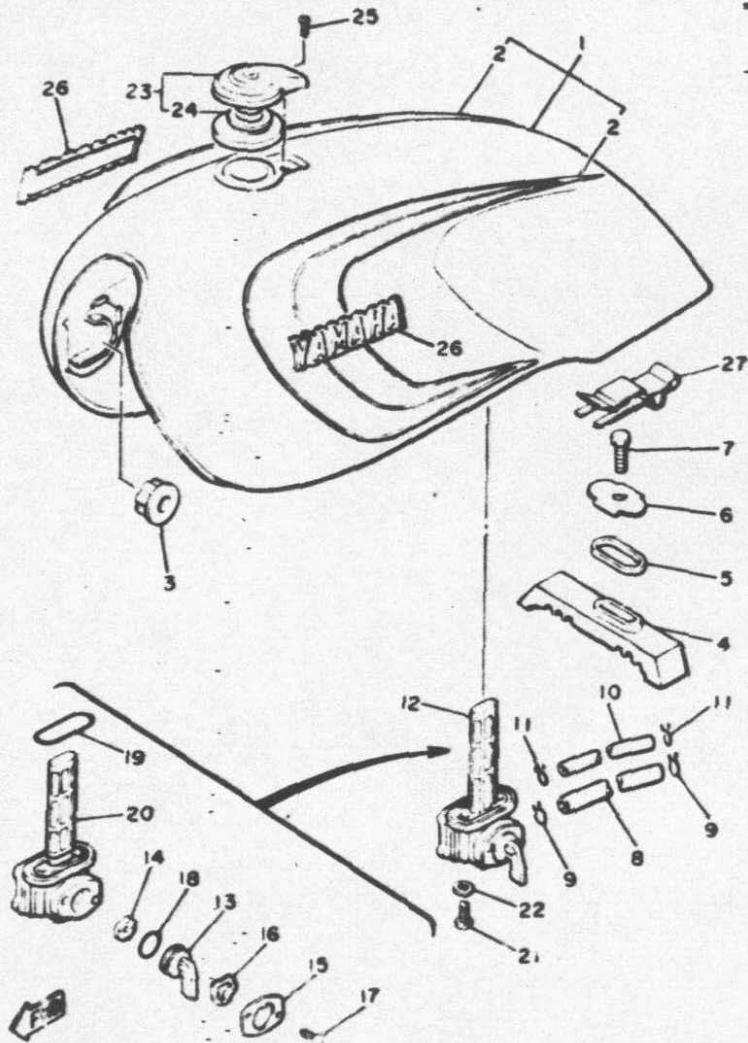


SV2110-2300

Ref. No.	Part Number	Description	Qty.	Remarks
1	256-23411-00-00	RACE, ball 1	1	
2	164-23462-00-00	SEAL, steering	1	
3	4K0-23415-00-00	COVER, ball race 1	1	
4	4H3-23454-00-00	NUT, fitting 2	2	
5	4H3-23451-00-00	BOLT, fitting 1	1	
6	256-23412-00-00	RACE, ball 2	1	
7	256-23413-00-00	RACE, ball 3	1	
8	256-23414-00-00	RACE, ball 4	1	
9	93501-04011-00	BALL	38	
*10	4K0-23435-00-98	CROWN, handle	1	Low Gloss Blk
11	97326-08055-00	BOLT	2	
12	97326-08065-00	BOLT	1	
13	95306-08800-00	NUT	3	
14	92906-08600-00	WASHER, plate	6	
15	4H7-23441-00-98	HOLDER, handle upper	2	Low Gloss Blk
16	91316-08030-00	BOLT	4	
17	341-23469-00-00	CAP, bolt	4	
*18	4K0-23174-00-00	STAY, headlight	1	
19	90480-14101-00	GROMMET	2	
20	90387-07391-00	COLLAR	2	
21	97302-06025-00	BOLT	2	
22	92903-06100-00	WASHER, spring (92902-06100)	2	
23	4K0-23122-00-00	COVER, outer 1	1	
24	98906-05012-00	SCREW, bind	2	
25	92906-05200-00	WASHER, plain	2	

*Indicates new part numbers activated from January, 1981.

FUEL TANK



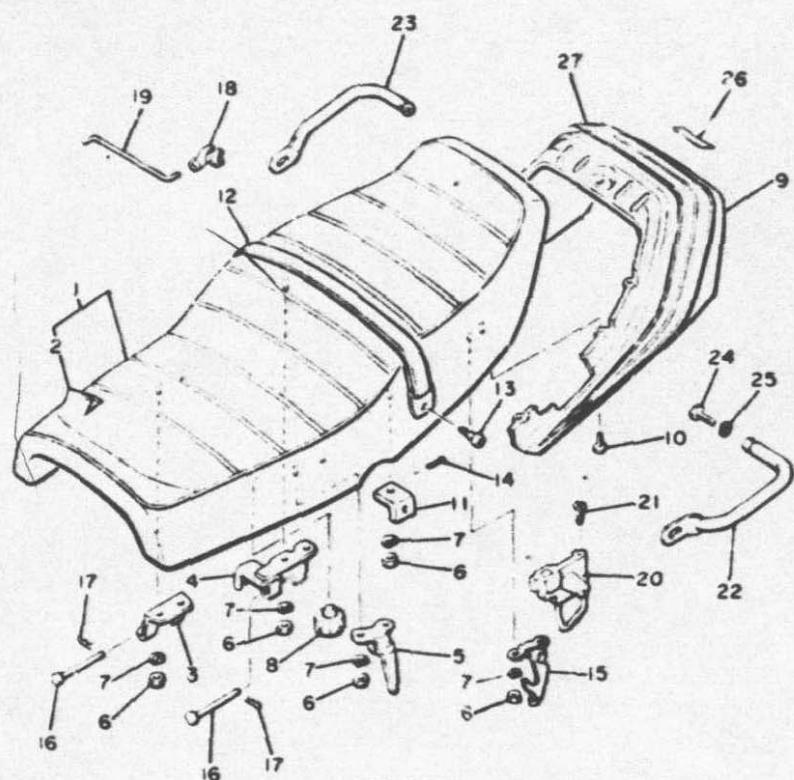
5V2110 2310

Ref. No.	Part Number	Description	Qty.	Remarks
• 1	4K0-24110-01-06	FUEL TANK COMP.....	1	Quartz Silver
• 2	4K0-24240-00-00	GRAPHIC SET	1	
3	4H7-24181-00-00	DAMPER, locating 1.....	2	
• 4	4K0-24182-00-00	DAMPER, locating 2.....	1	
5	4K0-24183-00-00	DAMPER, locating 3.....	1	
6	4K0-24186-00-00	WASHER, special	1	
7	90109-08579-00	BOLT	1	
8	90445-11501-00	HOSE.....	1	
9	90467-10008-00	CLIP.....	2	
10	90445-09500-00	HOSE.....	1	
11	90467-08003-00	CLIP.....	2	
12	4K0-24500-01-00	FUEL COCK ASS'Y 1.....	1	
13	4H7-24524-00-00	LEVER, cock.....	1	
14	3H3-24523-00-00	VALVE	1	
15	4H7-24525-00-00	PLATE; lever fitting	1	
16	3H3-24518-00-00	WASHER, wave	1	
17	98501-03008-00	SCREW, pan head	2	
18	3H3-24534-00-00	O-RING	1	
19	2W6-24512-00-00	O-RING	1	
20	3Y1-24514-20-00	NET, filter 1	1	
21	90149-06011-00	SCREW.....	2	
22	90202-06010-00	WASHER, plate.....	2	
23	4X7-24602-00-00	CAP ASS'Y.....	1	
24	4X7-24612-00-00	GASKET, cap	1	
25	98501-05010-00	SCREW, pan head.....	1	
26	3X0-24161-20-00	EMBLEM 1.....	2	
27	4K0-2411M-00-00	CLIP.....	1	

*Indicates new part numbers activated from January, 1981.

Basic Color(s)	Quartz Silver
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 19.5 LIT / 3.8 LIT

SEAT

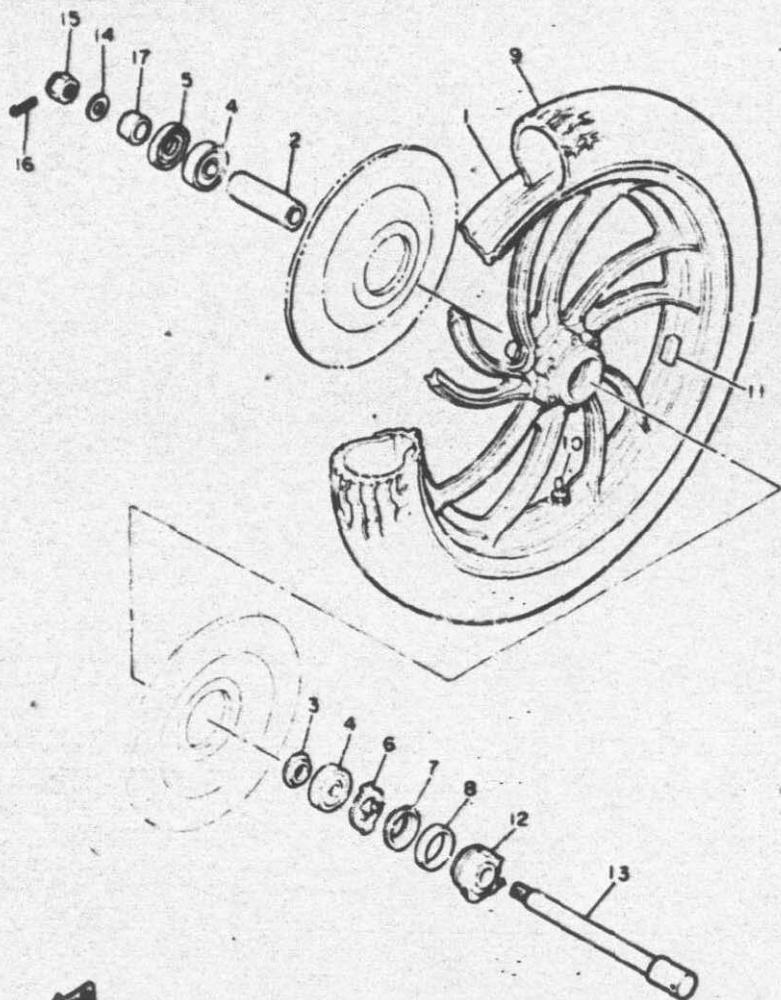


4K0323-1320

Ref. No.	Part Number	Description	Qty.	Remarks
* 1	4K0-W2472-00-00	DOUBLE SEAT ASS'Y	1	
* 2	4K0-24731-00-00	COVER, double seat	1	
3	307-24726-00-33	HINGE, seat.....	1	Yamaha Black
* 4	4K0-24726-01-00	HINGE, seat.....	1	
5	4K0-24728-00-00	BRACKET, seat.....	1	
6	95302-06600-00	NUT.....	9	
7	92903-06100-00	WASHER, spring (92902-06100)	9	
8	371-27114-00-00	STOPPER, main stand	1	
9	4K0-24756-01-1U	COVER, tail	1	Quartz Silver
10	97701-50516-00	SCREW, pan head tapping	7	
*11	4K0-24748-00-00	BRACKET, seat	1	
*12	4K0-24734-00-00	BAND, seat.....	1	
13	2M1-24717-00-00	BOLT, seat fitting	2	
14	91401-20015-00	PIN, cotter	2	
15	4K0-W2474-00-00	BRACKET	1	
16	91701-05055-00	PIN, clevis	2	
17	90468-10050-00	CLIP.....	2	
18	4K0-24768-01-00	STOPPER	1	
19	1J7-24718-00-00	HOLDER, rod 1	1	
*20	4K0-24705-00-00	SEAT LOCK ASS'Y	1	
21	98906-06009-00	SCREW, bind.....	2	
*22	4K0-21165-00-00	HANDLE, standing	1	
*23	4K0-21275-00-00	STAY, rear	1	
24	97301-06016-00	BOLT (97301-06015)	2	
25	92903-06100-00	WASHER, spring (92902-06100)	2	
*26	353-24786-02-00	EMBLEM	1	
*27	4K0-24757-0C 00	GRAPHIC, tail cover.....	1	

*Indicates new part numbers activated from January, 1981.

FRONT WHEEL



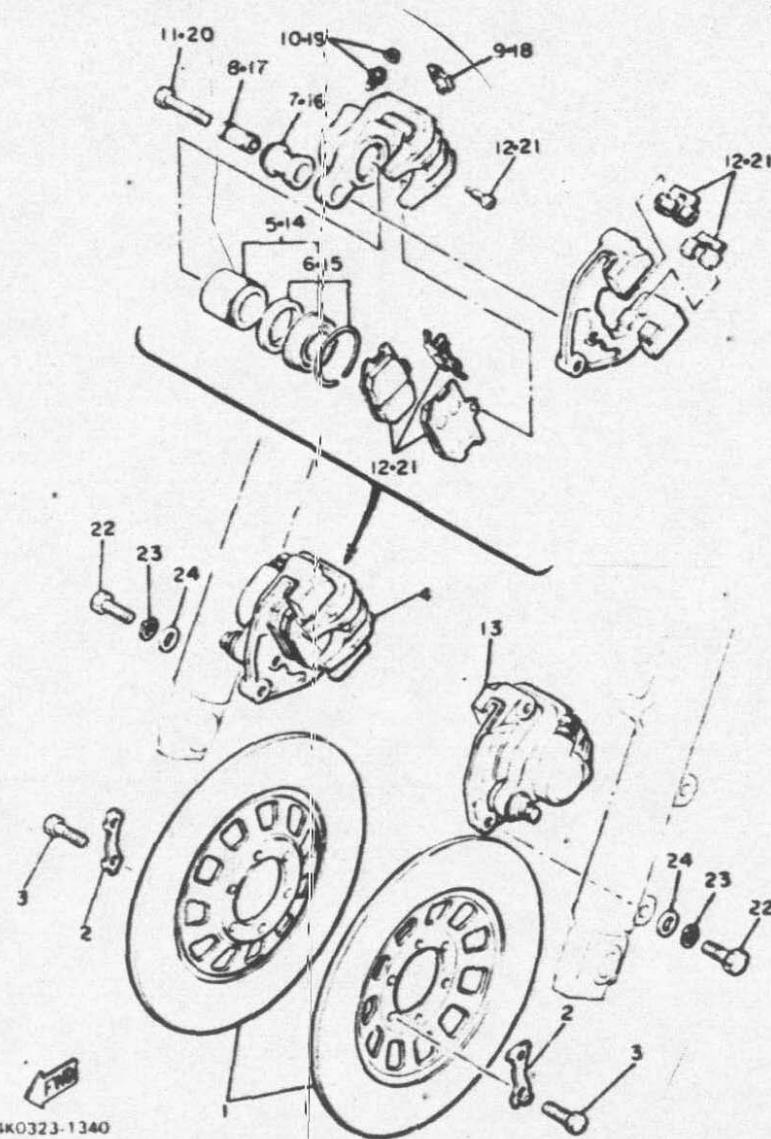
Ref. No.	Part Number	Description	Cty.	Remarks
1	4H7-25168-20-98	CAST WHEEL, front	1	
2	90560-15116-00	SPACER	1	
3	146-25115-00-00	FLANGE, spacer 1.....	1	
4	93306-30203-00	BEARING (B6302Z).....	2	
5	93102-22014-00	OIL SEAL	1	
6	341-25149-00-00	CLUTCH, meter.....	1	
7	341-25846-00-00	RETAINER, clutch.....	1	
8	93105-45017-00	OIL SEAL	1	
9	94132-19469-00	TIRE (3.25-19).....	1	Bridgestone
10	93900-00001-00	VALVE, rim (16024 101)	1	Bridgestone
11	1A1-25398-01-00	BALANCER, wheel (20G).....	1	U.N.
	1A1-25399-00-00	BALANCER, wheel (10G).....	1	U.N.
	2M0-25399-00-00	BALANCER, wheel (30G).....	1	U.N.
12	4K0-25190-00-00	GEAR UNIT ASS'Y	1	
13	4H7-25181-00-00	AXLE, wheel.....	1	
14	92901-14200-00	WASHER, plain.....	1	
15	90171-14020-00	NUT, castle	1	
16	91401-30030-00	PIN, cotter	1	
17	90387-15550-00	COLLAR	1	

*Indicates new part numbers activated from January, 1981.

SV2110-2330

Minimum Brake Link g Thickness	Front: 1.2mm	Rear: 2.0mm
Tire Size (Nominal Pressure)	F-3 25H19 (1.8 kg/cm ²)	R-120/90-18 65H (2.0 kg/cm ²)
Front Axle Nut	14 x 1.5: 10.7 m-kg	
Front Axle Holder Nut	8 x 1.25: 2.0 m-kg	

FRONT BRAKE CALIPER



Ref. No.	Part Number	Description	Qty.	Remarks
1	1L9-25831-00-00	DISC, brake	2	
2	1J3-25834-01-00	WASHER, lock.....	6	
3	90101-08312-00	BOLT	12	
4	4K0-25810-01-00	CALIPER ASS'Y (Right)	1	
5	1J3-W0057-00-00	PISTON ASS'Y, caliper	1	
6	1J3-W0047-00-00	. CALIPER SEAL KIT	1	
7	1J3-25917-00-00	. BOOT, caliper	1	
8	1J3-25838-00-00	. SLEEVE, caliper	1	
9	1J3-25845-01-00	. CAP, indicator.....	1	
10	1J3-W0048-00-00	. BREED SCREW KIT	1	
11	90105-08145-00	. BOLT, washer based	1	
12	4K0-W0045-00-00	. BRAKE PAD KIT, front	1	
13	4K0-25810-11-00	CALIPER ASS'Y (Left)	1	
14	1J3-W0057-00-00	PISTON ASS'Y, caliper	1	
15	1J3-W0047-00-00	. CALPER SEAL KIT	1	
16	1J3-25917-00-00	. BOOT, caliper	1	
17	1J3-25838-00-00	. SLEEVE, caliper	1	
18	1J3-25845-01-00	. CAP, indicator.....	1	
19	1J3-W0048-00-00	. BREED SCREW KIT	1	
20	90105-08145-00	. BOLT, washer based	1	
21	4K0-W0045-C0-00	. BRAKE PAD KIT, front	1	
22	90101-10308-00	BOLT	4	
23	92903-10100-00	WASHER, spring (92901-10100)	4	
24	92903-10200-00	WASHER, plain (92901-10200)	4	

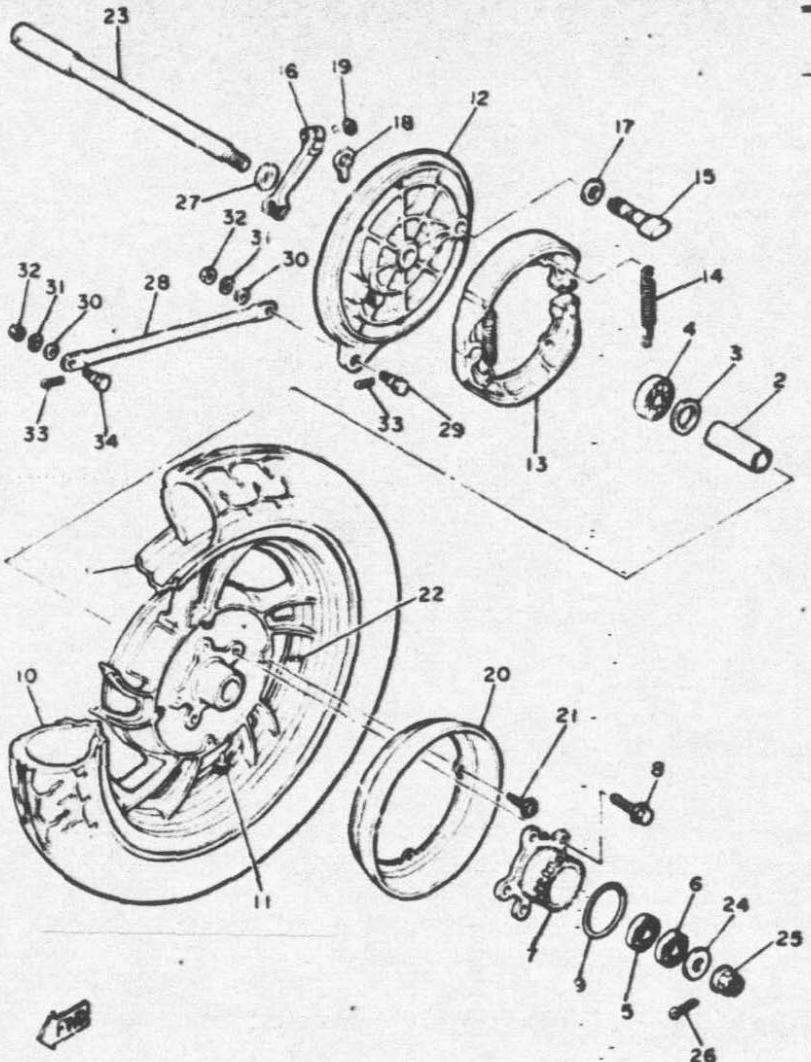
Minimum Brake Lining Thickness

Tire Size (Nominal Pressure)

Front: 1.2mm Rear: 2.0mm

F 3.25H19 (1.8 kg/cm²) R 120/90-18 65H (2.0 kg/cm²)

REAR WHEEL



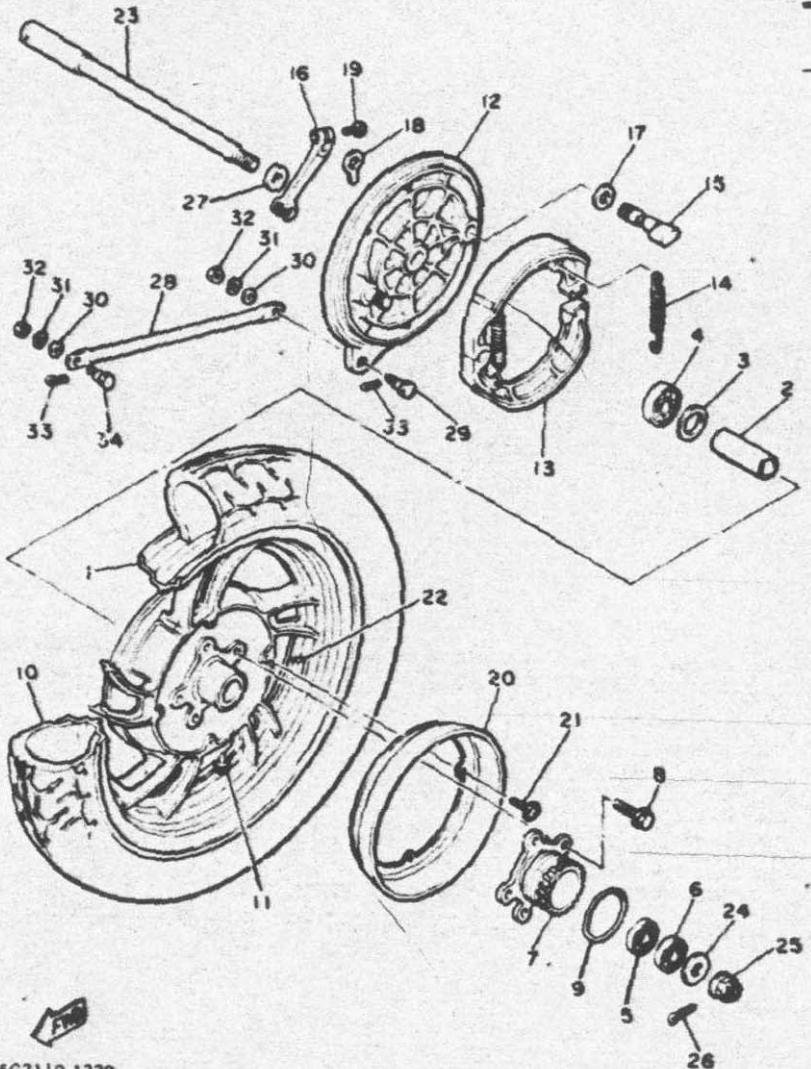
Ref. No.	Part Number	Description	Qty.	Remarks
1	5G2-25338-20-98	CAST WHEEL, rear.....	1	Low Gloss Black
2	90560-17125-00	SPACER	1	
3	148-25315-00-00	FLANGE, spacer	1	
4	93306-30306-00	BEARING (B6303).....	1	
5	93306-20316-00	BEARING (B6203).....	1	
6	93306-20310-00	BEARING (B6203RS).....	1	
7	4H7-25366-01-00	CLUTCH, hub.....	1	
*8	90105-10200-00	BCLT, washer based.....	5	
9	93210-57428-00	O-RING	1	
*10	94112-18470-00	TIRE.....	1	Bridgestone
11	93900-00001-00	VALVE, rim (16024 101)	1	Bridgestone
12	4K0-25321-00-00	PLATE, brake shoe	1	
13	5A8-25330-00-00	BRAKE SHOE COMP.....	2	
14	90507-20002-00	SPRING, tension.....	2	
15	4H7-25351-00-00	CAMSHAFT	1	
16	1L9-25355-00-00	LEVER, camshaft.....	1	
17	90201-14577-00	WASHER, plate.....	1	
18	4H7-2533A-02-00	PLATE, indicator	1	

*Indicates new part numbers activated from January, 1981.

5G2110-1330

Rear Axle Nut	14 x 1.5: 10.7 m-kg
Rear Axle Pinch Bolt	8 x 1.25: 0.6 m-kg
Minimum Brake Lining Thickness	Front: 1.2mm Rear: 2.0mm
Tire Size (Nominal Pressure)	F: 3.2H19 (1.8 kg/cm ²) R: 120/90-18 65H (2.0 kg/cm ²)

REAR WHEEL

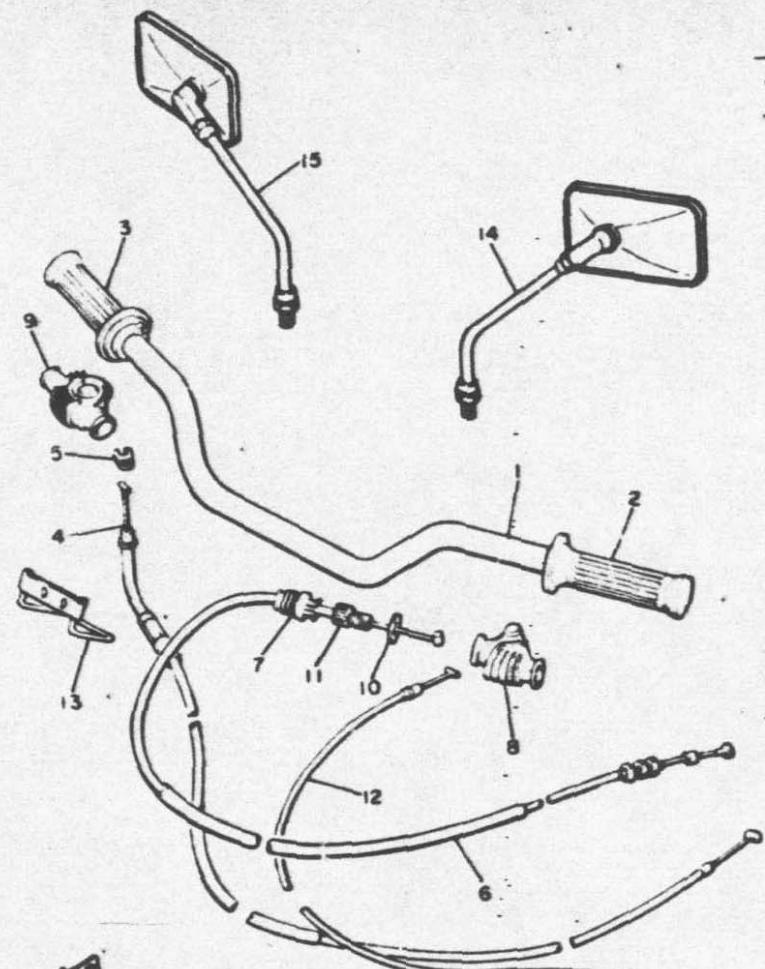


5G2110-1330

Ref. No.	Part Number	Description	Qty.	Remarks
19	90101-08201-00	BOLT.....	1	
20	4H7-25327-00-00	COVER, plate.....	1	
21	90159-05018-00	SCREW, with washer.....	4	
22	1A1-25398-01-00	BALANCER, wheel (20G).....	1	U.N.
	1A1-25399-00-00	BALANCER, wheel (10G).....	1	U.N.
	2M0-25399-00-00	BALANCER, wheel (30G).....	1	U.N.
23	4H7-25381-00-00	AXLE, wheel.....	1	
24	90201-141A3-00	WASHER, plate.....	1	
25	90179-14217-00	NUT.....	1	
26	91401-30030-00	PIN, cotter	1	
27	4H7-25377-00-00	COLLAR, wheel.....	1	
28	3H0-25371-00-00	BAR, tension	1	
29	90109-08406-00	BOLT.....	1	
30	92901-08600-00	WASHER, plate.....	2	
31	92903-08100-00	WASHER, spring (92901-08100).....	2	
32	95301-08700-00	NUT.....	2	
33	91401-20015-00	PIN, cotter	2	
34	90109-08368-00	BOLT.....	1	

Minimum Brake Lining Thickness	Front: 1.2mm	Rear: 2.0mm
Tire Size (Nominal Pressure)	F:3.25H19 (1.8 kg/cm ²)	R:120/90-18 65H (2.0 kg/cm ²)
Rear Axle Nut	14 x 1.5 10.7 m-kg	
Rear Axle Pinch Bolt	8 x 125 0.6 m-kg	

HANDLEBAR • CABLE

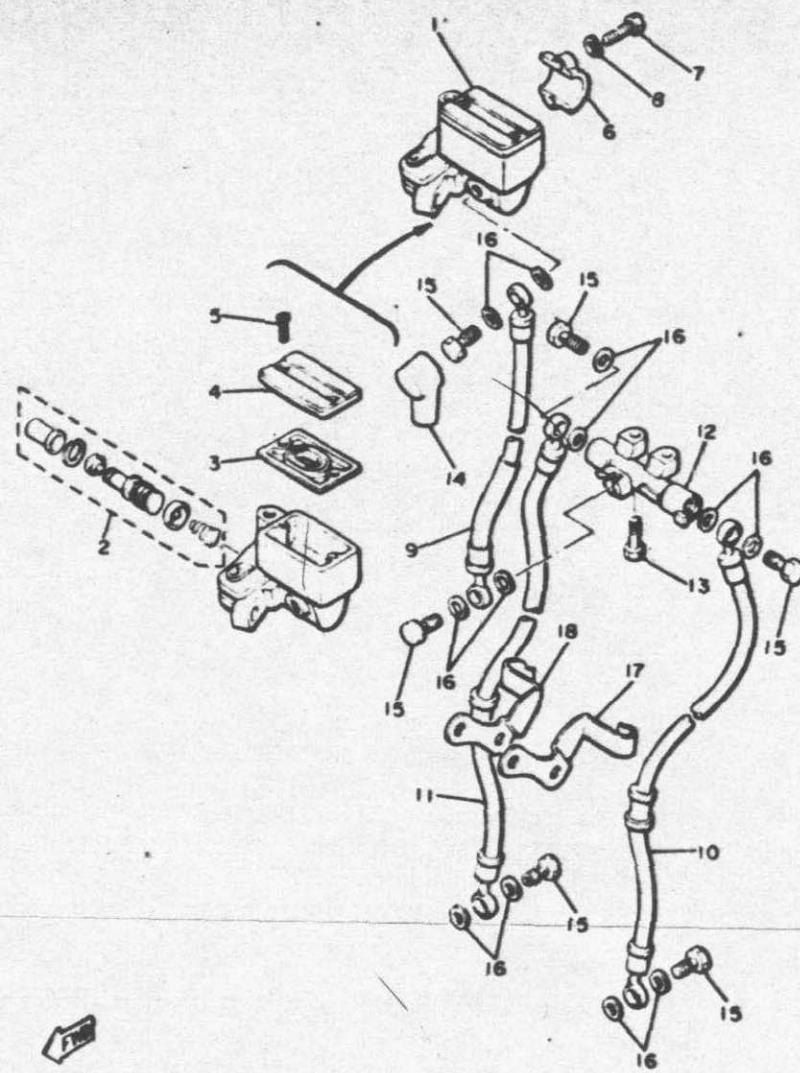


EV2110-2360

Ref. No.	Part Number	Description	Qty.	Remarks
1	1T5-26111-00-00	HANDLEBAR	1	
2	2H7-26241-00-00	GRIP (L.H.).....	1	
3	2H7-26240-00-00	GRIP ASS'Y.....	1	
4	4K0-26311-00-00	CABLE, throttle 1	1	
5	584-26393-02-00	HOLDER	1	
6	4K0-26335-00-00	CABLE, clutch	1	
7	1E6-26342-00-00	BOOT, cable	1	
8	1E6-26372-00-00	COVER, handle lever 1.....	1	
9	1T5-26372-00-00	COVER, handle lever 1.....	1	
10	90179-08148-00	NUT.....	1	
11	90123-08046-00	BOLT.....	1	
12	4K0-26331-00-00	CABLE, starter 1	1	
13	4K0-26399-01-00	GUIDE, cable	1	
14	5A8-26290-10-00	BACK MIRROR ASS'Y.....	1	
15	5A8-26290-00-00	BACK MIRROR ASS'Y.....	1	

*Indicates new part numbers activated from January, 1981.

FRONT MASTER CYLINDER



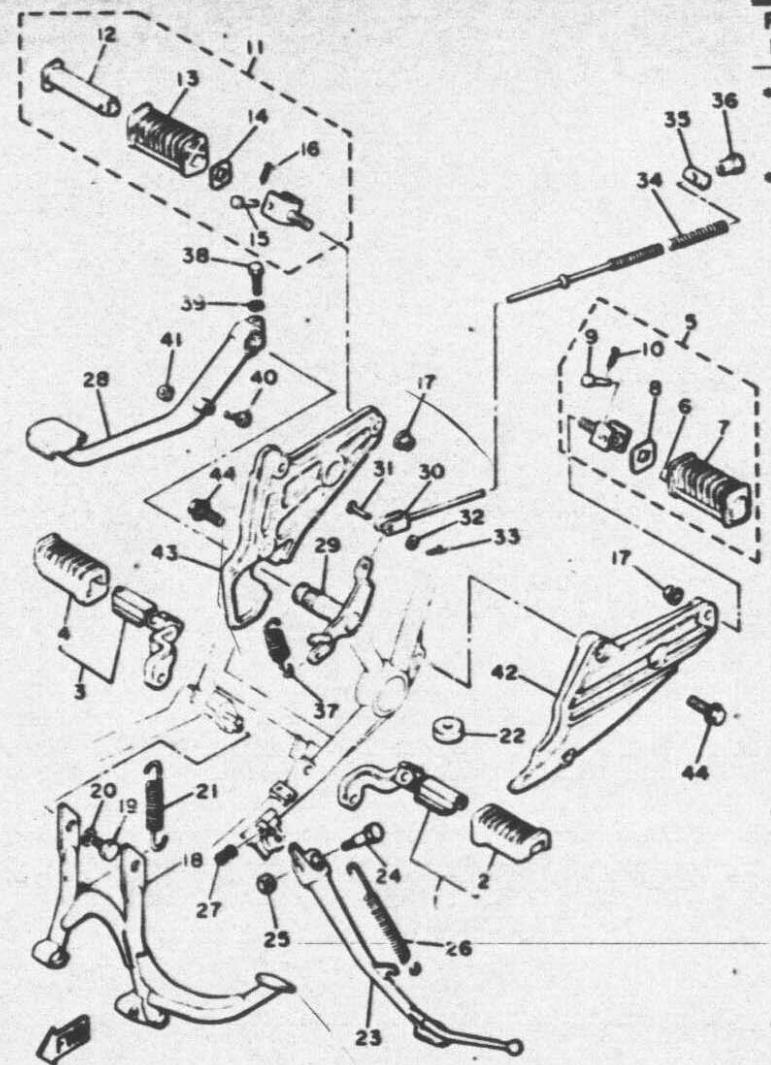
Ref. No.	Part Number	Description	Qty.	Remarks
1	4K0-25850-00-00	MASTER CYLINDER ASS'Y	1	
2	4K0-W0041-00-00	CYLINDER KIT, master.	1	
3	4K0-25854-00-00	DIAPHRAGM, reservoir.	1	
4	4K0-25852-00-00	CAP, reservoir.	1	
5	98706-C4010-00	SCREW, flat head	2	
	4L0-25867-00-00	BRACKET, master cylinder	1	
7	97326-06025-00	BOLT	2	
8	92906-06100-00	WASHER, spring	2	
* 9	4K0-25872-00-00	HOSE, brake 1	1	
* 10	4K0-25873-00-00	HOSE, brake 2	1	
* 11	4K0-25874-00-00	HOSE, brake.	1	
12	4K0-25885-00-00	JOINT	1	
13	91316-06020-00	BOLT	2	
14	4L0-25862-00-00	BOOT, master cylinder	1	
15	90401-10034-00	BOLT, union	6	
16	90201-10118-00	WASHER, plate	12	
17	4E2-25875-00-00	HOLDER, brake hose 1	1	
18	4E2-25876-00-00	HOLDER, brake hose 2	1	

*Indicates new part numbers activated from January, 1981.



440323-1370

STAND • FOOTREST

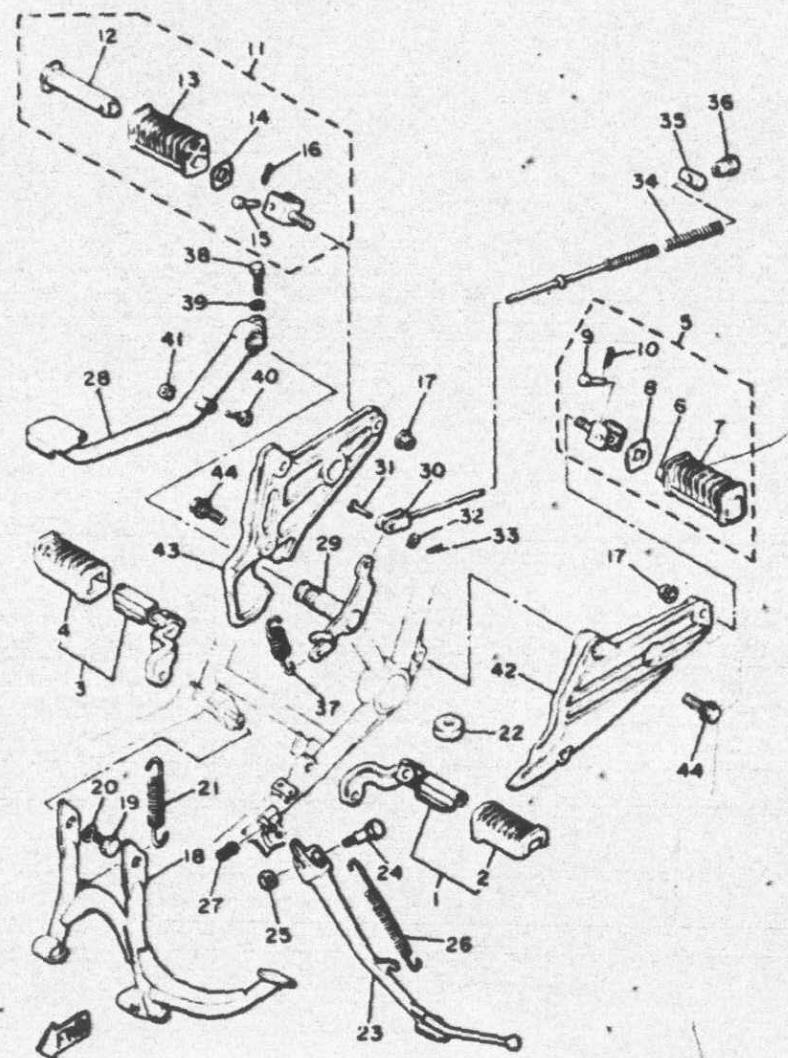


5V2110-2380

Ref. No.	Part Number	Description	Qty.	Remarks
* 1	4K0-27410-00-R4	FRONT FOOTREST ASS'Y (L.H.)	1	Black
2	1J7-27413-01-00	. COVER, footrest.....	1	
* 3	4K0-27420-00-R4	FRONT FOOTREST ASS'Y (R.H.)	1	Black
4	1J7-27413-01-00	. COVER, footrest.....	1	
5	2H7-27430-00-00	REAR FOOTREST ASS'Y 1	1	
6	447-27431-00-00	. FOOTREST, rear 1	1	
7	1J7-27433-00-00	. COVER, rear footrest.....	1	
8	90209-18070-00	. WASHER.....	1	
9	91701-06035-00	. PIN, clevis.....	1	
10	91401-16015-00	. PIN, cotter (91401-16012)....	1	
11	2H7-27440-00-00	REAR FOOTREST ASS'Y 2	1	
12	447-27441-00-00	. FOOTREST, rear 2	1	
13	1J7-27444-00-00	. COVER, rear footrest.....	1	
14	90209-18070-00	. WASHER.....	1	
15	91701-06035-00	. PIN, clevis.....	1	
16	91401-16015-00	. PIN, cotter (91401-16012)....	1	
17	95701-10100-00	NUT, flange	2	
*18	4K0-27111-00-R4	STAND, main.....	1	Black
19	97302-10016-00	BOLT	2	
20	90201-10752-00	WASHER, plate.....	2	
*21	90506-40233-00	SPRING, tension	1	
22	1A0-27114-00-00	STOPPER, main stand	1	

*Indicates new part number activated from January, 1981.

STAND • FOOTREST

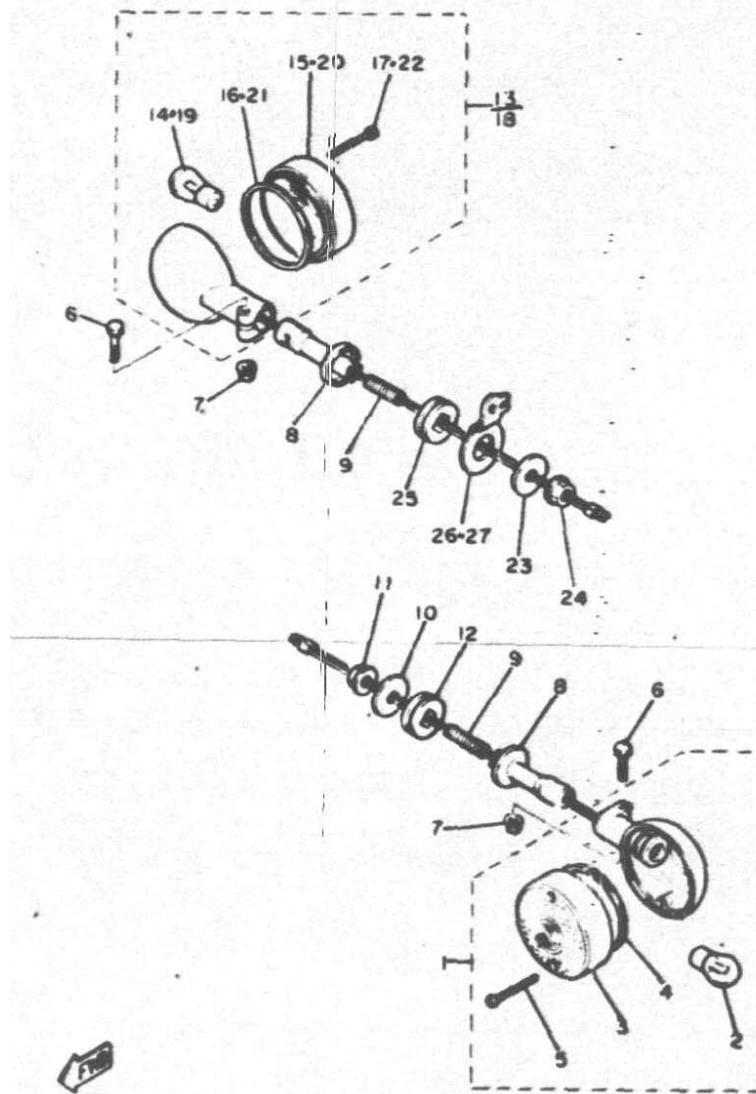


Ref. No.	Part Number	Description	Qty.	Remarks
*23	5V2-27311-00-R4	STAND, side.....	1	Black
24	90109-10590-00	BOLT.....	1	
25	95301-10700-00	NUT.....	1	
26	90507-29033-00	SPRING, tension.....	1	
27	5G2-27351-00-00	GUIDE, side stand.....	1	
*28	4K0-27211-00-93	PEDAL, brake.....	1	Chrome Plated
*29	4K0-27212-02-00	SHAFT, brake pedal	1	
*30	4K0-27231-01-00	ROD, brake.....	1	
31	90240-08067-00	PIN, clevis	1	
32	90201-08083-00	WASHER, plate.....	1	
33	91401-20015-00	PIN, cotter	1	
34	90501-10246-00	SPRING, compression	1	
35	90249-12008-00	PIN	1	
36	90179-06176-00	NUT.....	1	
37	90506-23046-00	SPRING, tension	1	
38	90109-06468-00	BOLT.....	1	
39	92903-06100-00	WASHER, spring (92901-06100)	1	
40	90153-06008-00	SCREW, hexagon	1	
41	90170-06184-00	NUT.....	1	
*42	4K0-27442-00-00	BRACKET 2	1	
*43	4K0-27443-00-00	BRACKET 3	1	
44	95821-10030-00	BOLT, flange.....	4	

*Indicates new part numbers activated from January, 1981.

5V2110-2380

FLASHER LIGHT

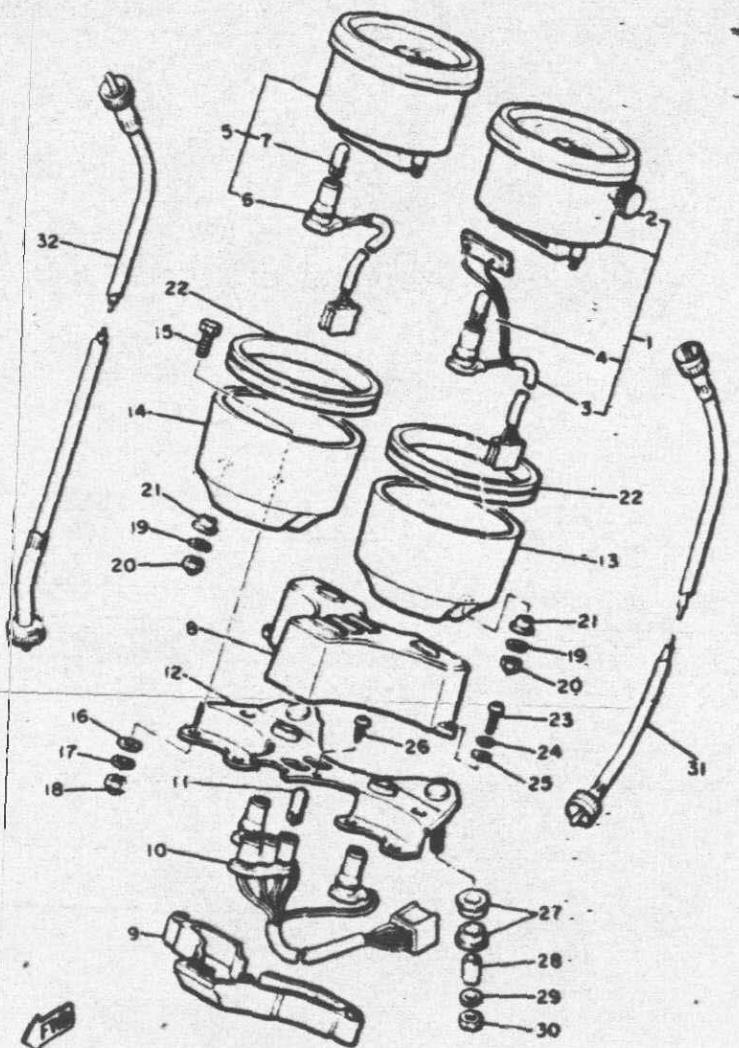


SV2110-2390

Ref. No.	Part Number	Description	Qty.	Remarks
* 1	5H1-83330-K0-00	REAR FLASHER LIGHT ASS'Y 1	2	
2	256-83311-70-00	. BULB (12V-27W)	1	
3	4H7-83312-00-00	. LENS, flasher	1	
4	4H7-83313-00-00	. GASKET, flasher lens	1	
5	98501-03030-00	. SCREW, pan head	2	
6	97301-06030-00	BOLT (97303-06030)	4	
7	95701-06100-00	NUT, flange	4	
8	4X7-83328-00-00	STAY, flasher 2	4	
9	4X7-83325-00-00	BOLT, flasher stay fitting	4	
10	90201-127A1-00	WASHER, plate	2	
11	95706-12100-00	NUT, flange	2	
12	341-83321-01-00	DAMPER, flasher 1	2	
13	5K5-83330-K0-00	REAR FLASHER LIGHT ASS'Y 1	1	
14	256-83311-70-00	. BULB (12V-27W)	1	
15	4H7-83312-00-00	. LENS, flasher	1	
16	4H7-83313-00-00	. GASKET, flasher lens	1	
17	98502-03030-00	. SCREW, pan head	2	
18	5K5-83340-K0-00	REAR FLASHER LIGHT ASS'Y ...	1	
19	256-83311-70-00	. BULB (12V-27W)	1	
20	4H7-83312-00-00	. LENS, flasher	1	
21	4H7-83313-00-00	. GASKET, flasher lens	1	
22	98502-03030-00	. SCREW, pan head	2	
23	90201-127A1-00	WASHER, plate	2	
24	95706-12100-00	NUT, flange	2	
25	341-83321-01-00	DAMPER, flasher 1	2	
*26	5G9-83368-00-00	STAY, flasher	1	
*27	5G9-83369-00-00	STAY, flasher	1	

*Indicates new part numbers activated from January, 1981.

SPEEDOMETER • TACHOMETER

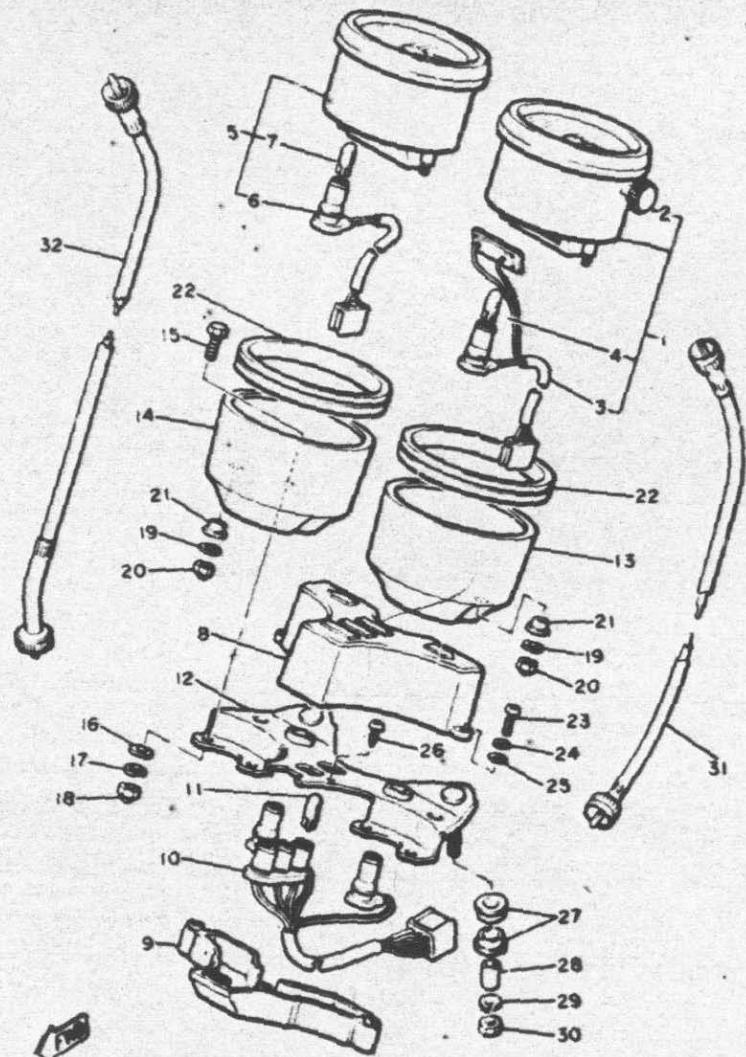


5V2110.2400

Ref. No.	Part Number	Description	Qty.	Remarks
* 1	5H1-83570-A0-00	SPEEDOMETER ASS'Y	1	
2	4K0-83578-00-00	. KNOB, trip meter	1	
3	3G1-83536-01-00	. SOCKET, meter	1	
* 4	4G1-84744-00-00	. BULB (12V-3.4W).....	1	
* 5	5V2-83540-A0-00	TACHOMETER ASS'Y	1	
* 6	5K5-83520-00-00	. SOCKET CORD ASS'Y	1	
* 7	4G1-84744-00-00	. BULB (12V-3.4W).....	1	
* 8	4K0-83568-00-00	PILOT BOX, upper.....	1	
* 9	4K0-83569-00-00	PILOT BOX, lower.....	1	
*10	5A8-83509-00-00	SOCKET CORD ASS'Y	1	
*11	4G1-84744-00-00	BULB (12V-3.4W)	5	
*12	4K0-83519-00-00	BRACKET, meter.....	1	
13	2J2-83507-00-00	COVER, speedometer.....	1	
14	2J2-83508-00-00	COVER, tachometer	1	
15	584-83546-00-00	BOLT	4	
16	92903-06200-00	WASHER, plain (92901-06200)	4	

*Indicates new part numbers activated from January, 1981.

SPEEDOMETER • TACHOMETER

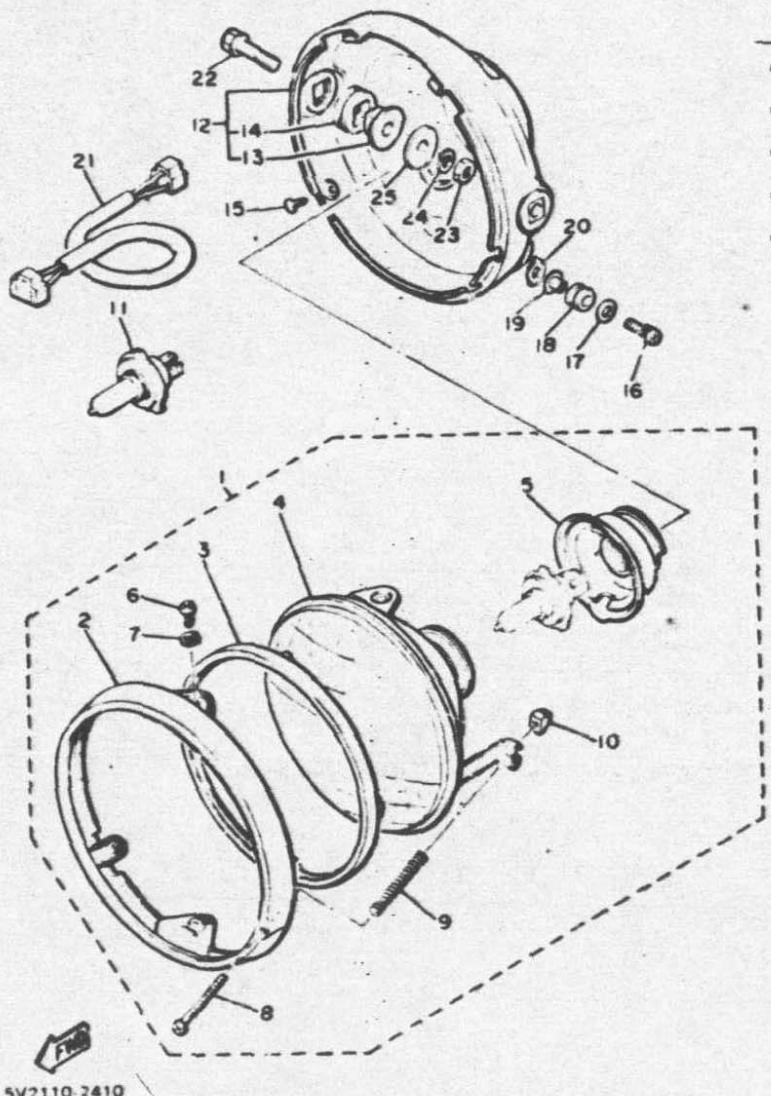


SV2110-2400

Ref. No.	Part Number	Description	Qty.	Remarks
17	92903-06100-00	WASHER, spring (92901-06100)	4	
18	95301-06800-00	NUT, crown	4	
19	90201-05031-00	WASHER, plate.....	4	
20	95301-05800-00	NUT, crown	4	
21	584-83523-00-00	DAMPER.....	4	
22	3H3-83513-00-00	DAMPER.....	2	
23	98506-04012-00	SCREW, pan head.....	2	
24	92906-04100-00	WASHER, spring.....	2	
25	92906-04600-00	WASHER, plate.....	2	
26	97701-40512-00	SCREW, pan head tapping	2	
27	584-83541-00-00	DAMPER.....	4	
28	90387-06249-00	COLLAR	2	
29	92903-06100-00	WASHER, spring (92901-06100)	2	
30	95301-06600-00	NUT.....	2	
31	3R8-83550-00-00	SPEEDOMETER CABLE ASS'Y	1	
*32	4K0-83560-00-00	TACHOMETER CABLE ASS'Y...	1	

*Indicates new part numbers activated from January, 1981.

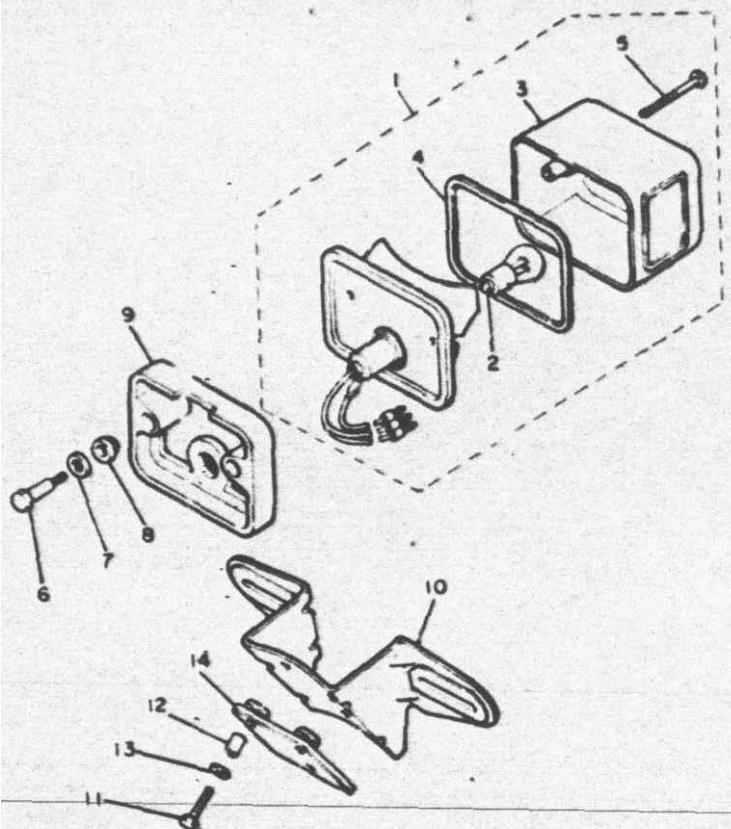
HEADLIGHT



Ref. No.	Part Number	Description	Qty.	Remarks
• 1	5V2-84303-A0-00	HEADLIGHT UNIT ASSY	1	
• 2	5A8-84315-00-00	RIM, headlight	1	
• 3	4E2-84395-00-00	RING, retaining	1	
• 4	4H1-84321-A1-00	LENS, headlight	1	
• 5	4E2-84397-00-00	COVER, socket	1	
6	98501-05010-00	SCREW, pan head	2	
7	92903-05100-00	WASHER, spring (92901-05100)	2	
8	447-84331-61-00	SCREW, rim adjusting	1	
9	447-84332-60-00	SPRING, screw	1	
10	198-84334-60-00	NUT, adjusting	1	
*11	5V2-84314-00-XX	BULB, headlight	1	
*12	5G9-84330-00-33	BODY ASS'Y	1	Yamaha Black
13	584-84338-60-00	COLLAR, body fitting	2	
14	584-84345-60-00	DAMPER, headlight	3	
15	90152-05005-00	SCREW, countersunk	2	
16	92506-06025-00	SCREW, pan head	1	
17	90201-06059-00	WASHER, plate	1	
18	90480-14102-00	GROMMT	1	
19	90387-06388-00	COLLAR	1	
20	4K0-84327-00-00	WASHER, special	1	
21	2H7-84359-00-00	CORD, headlight	1	
22	90109-08448-00	BOLT	2	
23	95301-08600-00	NUT	2	
24	92903-08100-00	WASHER, spring (92901-08100)	2	
25	90209-08098-00	WASHER	2	

*Indicates new part numbers activated from January, 1981.

TAILLIGHT



Ref. No.	Part Number	Description	Qty.	Remarks
* 1	5G9-84710-00-00	TAILLIGHT UNIT ASS'Y.....	1	
2	256-84714-61-00	BULB (12V-27/8W)	1	
3	1M1-84521-60-00	LENS, taillight.....	1	
4	1M1-84523-60-00	GASKET, lens	1	
5	1M1-84524-60-00	SCREW, lens fitting.....	2	
* 6	90109-06256-00	BOLT	2	
7	2H7-84754-00-00	WASHER, special	2	
8	1M1-84527-60-00	DAMPER.....	2	
* 9	5V2-84512-00-00	SEAT, base.....	1	
*10	5V2-84751-00-33	BRACKET, license.....	1	Yamaha Black
11	97302-06025-00	BOLT	3	
*12	90560-07007-00	SPACER	3	
13	90201-06074-00	WASHER, plate	3	
*14	4K0-84736-00-00	DAMPER, tail.....	1	

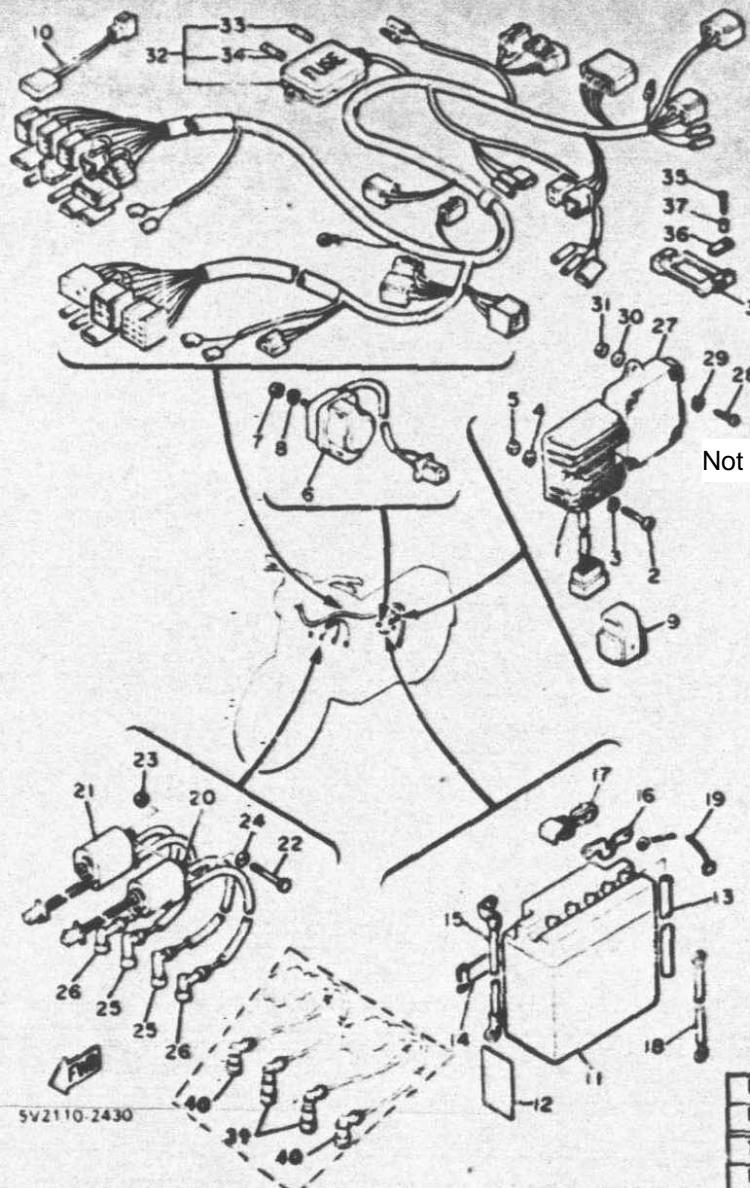
*Indicates new part numbers activated from January, 1981.

SV2110-2420

Headlight / Tailight / Signal Rating

12V60-55W / 12V27-8W / 12V27W

ELECTRICAL 1



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81960-50-00	RECTIFIER & REGULATOR ASS'Y	1	
2	92501-06030-00	SCREW, pan head (92502-06030)	2	
3	92903-06100-00	WASHER, spring (92902-06100)	2	
4	92901-06600-00	WASHER (92902-06600).....	2	
5	95301-06700-00	NUT (95302-06700)	2	
6	3H5-81940-00-00	STARTER SWITCH ASS'Y.....	1	
7	95301-06700-00	NUT.....	2	
8	92903-06100-00	WASHER, spring (92901-06100)	2	
9	3H5-81950-00-00	Headlight Relay	1	

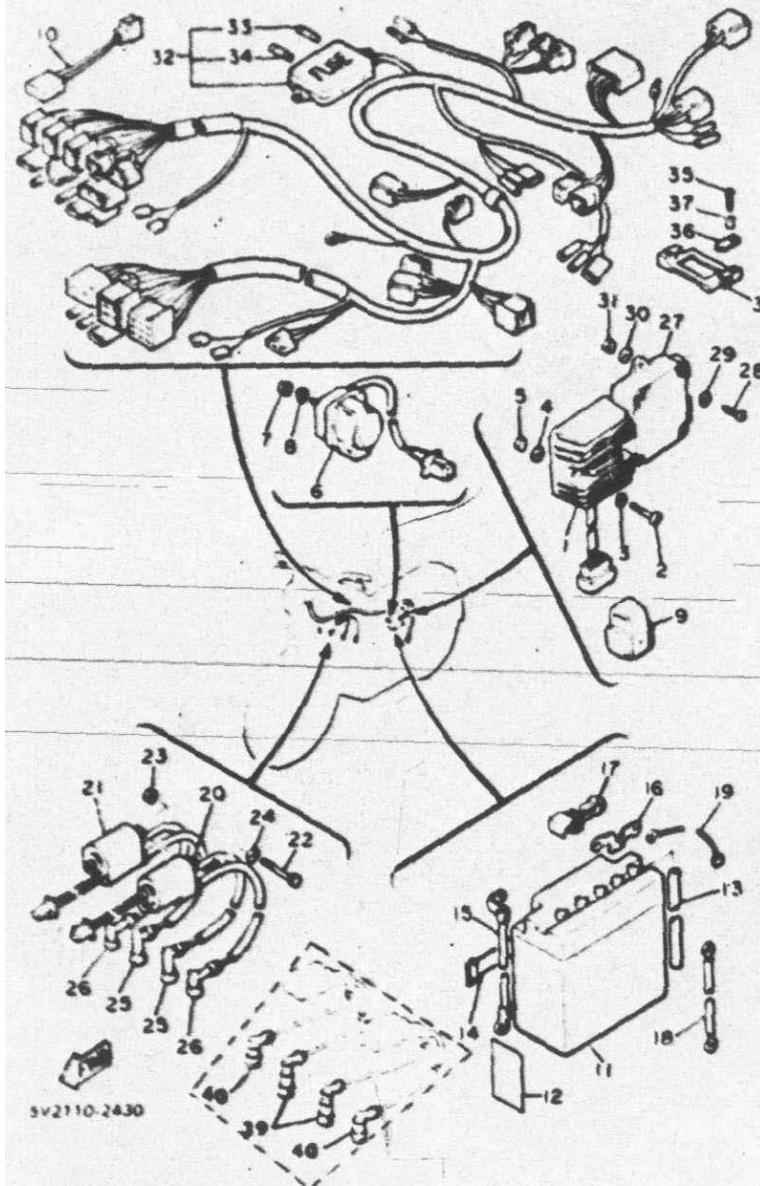
Not Shown: 12R-81950-00-00 Ignition cut-off relay (replaces 4H7-81950-01-00)

10	4U8-81980-M0-00	DIODE.....	1
11	366-82110-79-00	BATTERY ASS'Y(12N12A-4A)...	1
*12	LIT-82141-09-00	LABEL, battery (118-82141-09)	1
13	90445-08336-00	HOSE.....	1
14	137-82131-01-00	BAND, battery.....	1
15	4H7-82115-00-00	WIRE, plus lead.....	1
16	4H7-82103-00-00	TERMINAL 1.....	1
17	4H7-82119-00-00	COVER, lead wire.....	1
18	4H7-82519-00-00	WIRE, earth lead.....	1
19	4H7-82116-00-00	WIRE, minus lead.....	1

*Indicates new part numbers activated from January, 1981.

Battery: Model / Specific Gravity / Charge Rate	Yuasa 12N12A (12V 12AH) / 1.28 / 12A
Maximum Output	14V 19A @ 5000 rpm
TROUBLESHOOTING	
Ignition Coil Test Gaps / Primary Ω / Secondary Ω	6mm / 2.5 Ω ± 10% / 11K Ω ± 20%
Pulser Coil or Pickup Coil Color Code / Ω	Org ~ 8Ωk, Gry ~ 8m / 700 Ω ± 20%
Source Coil Color Code / Ω	9
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V6.55W / 12V27-BW / 12V27W
TROUBLESHOOTING	

ELECTRICAL 1

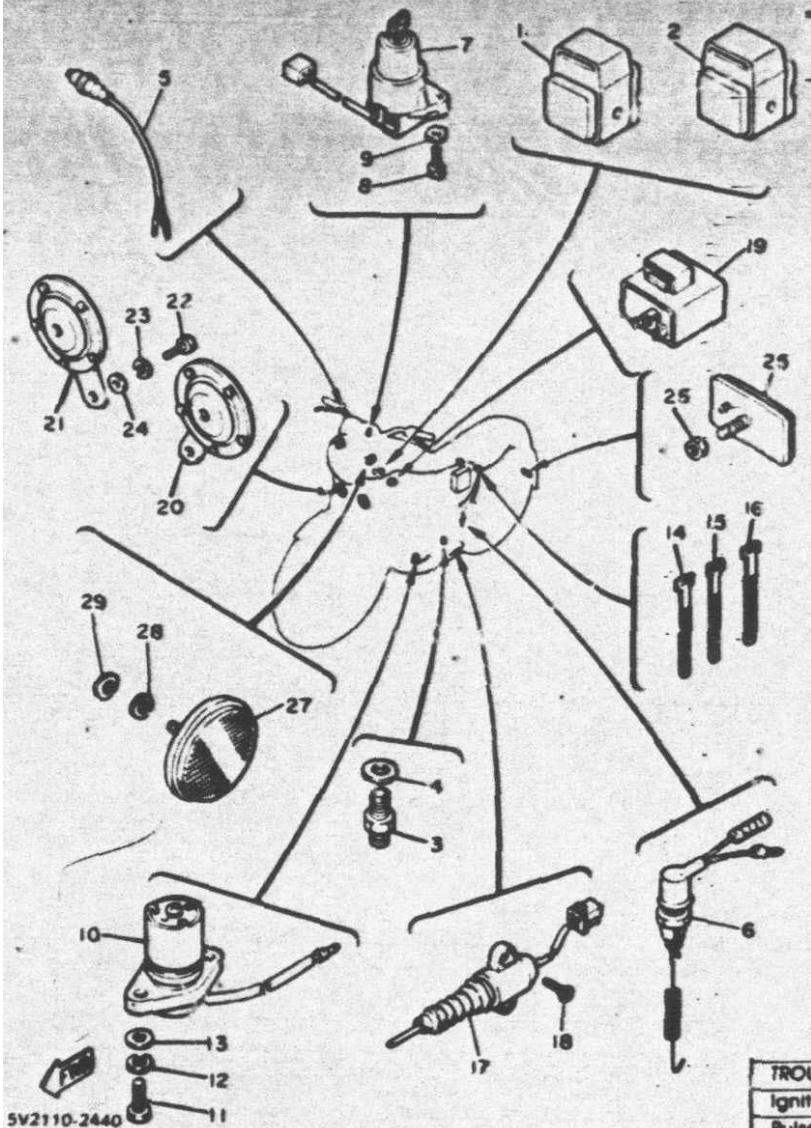


Ref. No.	Part Number	Description	Qty.	Remarks
20	4H7-82310-60-00	IGNITION COIL ASS'Y.....	1	
21	4H7-82320-60-00	IGNITION COIL ASS'Y.....	1	
22	97302-06080-C0	BOLT	2	
23	95302-06600-00	NUT.....	2	
24	92903-06200-00	WASHER, plain (92901-06200)	2	
25	1J7-82370-00-00	PLUG CAP ASS'Y.....	2	
26	256-82370-00-00	PLUG CAP ASS'Y.....	2	
*27	5V2-82305-10-00	IGNITOR UNIT ASS'Y.....	1	
28	92503-06016-00	SCREW, pan head (92502-06106)	2	
29	92903-06100-00	WASHER, spring (92902-06100)	2	
30	92901-06600-00	WASHER (92902-06600).....	2	
31	95301-06700-00	NUT (95302-06700).....	2	
*32	5V2-82590-00-00	WIRE HARNESS ASS'Y.....	1	
33	1A0-82151-00-00	FUSE (12V-10A).....	3	
34	1A0-82161-00-00	FUSE (12V-20A).....	1	
35	97702-50125-00	SCREW, tapping	2	
36	4K0-82558-00-00	WASHER	2	
*37	90387-056E6-00	COLLAR	1	
38	4K0-82157-00-00	DAMPER.....	1	
39	1J7-82370-10-00	PLUG CAP ASS'Y.....	2	w/noise suppressor
40	2H8-82370-10-00	PLUG CAP ASS'Y.....	2	w/noise suppressor

*Indicates new part numbers activated from January, 1981.

Battery Model / Specific Gravity / Charge Rate	Yuasa 12N12A (12V 12AH) / 1.28 / 1.2A
Maximum Output	14V ±9A @ 5000 rpm
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 2.5 Ω ± 10% / 11K Ω ± 20%
Pulser Coil or Pickup Coil Color Code : Ω	Org ~ Blk, Gry ~ Brn / 700 Ω ± 20%
Source Coil Color Code : Ω	Brn
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-6W / 12V27W

ELECTRICAL 2



SV2110-2440

Ref. No.	Part Number	Description	Qty.	Remarks
1	3H5-81950-00-00	HEADLIGHT RELAY ASS'Y.....	1	
2	4U8-81950-00-00	SIDE STAND RELAY ASS'Y.....	1	
3	2H7-82540-00-00	NEUTRAL SWITCH ASS'Y.....	1	
4	90430-10148-00	GASKET.....	1	
5	1A0-83980-20-00	FRONT STOP SWITCH ASS'Y...	1	
6	1E9-82530-00-00	STOP S'WITCH ASS'Y.....	1	
7	4H7-82508-50-00	MAIN SWITCH ASS'Y.....	1	
8	97321-06016-00	BOLT (97322-06016).....	2	
9	92901-06600-00	WASHER (92902-06600).....	2	
10	4H7-85720-00-00	OIL LEVEL GAUGE ASS'Y.....	1	
11	97321-06020-00	BOLT.....	2	
12	92903-06100-00	WASHER, spring (92901-06100)	2	
13	92901-06600-00	WASHER, plate.....	2	
14	437-83936-10-00	BAND, switch cord.....	2	
15	447-82591-00-00	BAND	1	

TROUBLESHOOTING

Ignition Coil Test Gap / Primary Ω / Secondary Ω 6mm / $2.5 \Omega \pm 10\%$ / $11K \Omega \pm 20\%$

Pulser Coil or Pickup Coil Color Code / Ω Org ~ Blk, Gry ~ Brn / $700 \Omega \pm 20\%$

Source Coil Color Code / Ω

LIGHTING SYSTEM

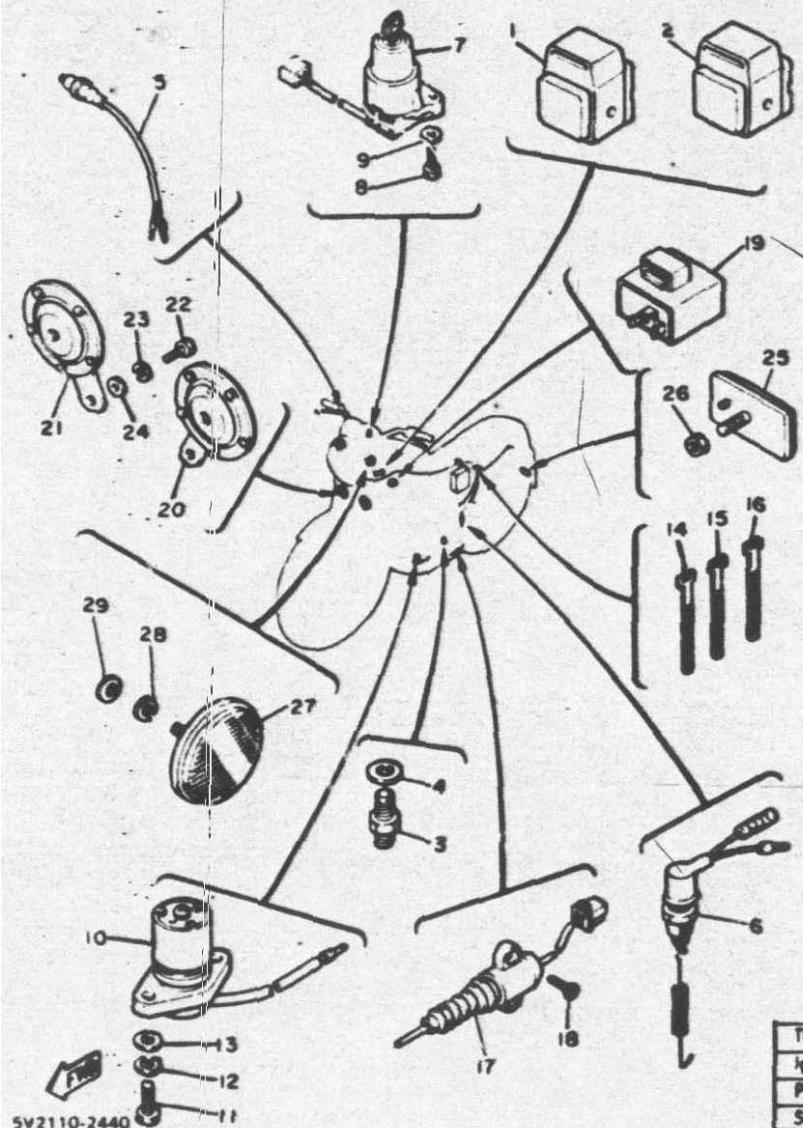
Headlight / Taillight / Signal Rating

12V60-55W / 12V27-5W / 12V27W

Org ~ Blk, Gry ~ Brn / $700 \Omega \pm 20\%$

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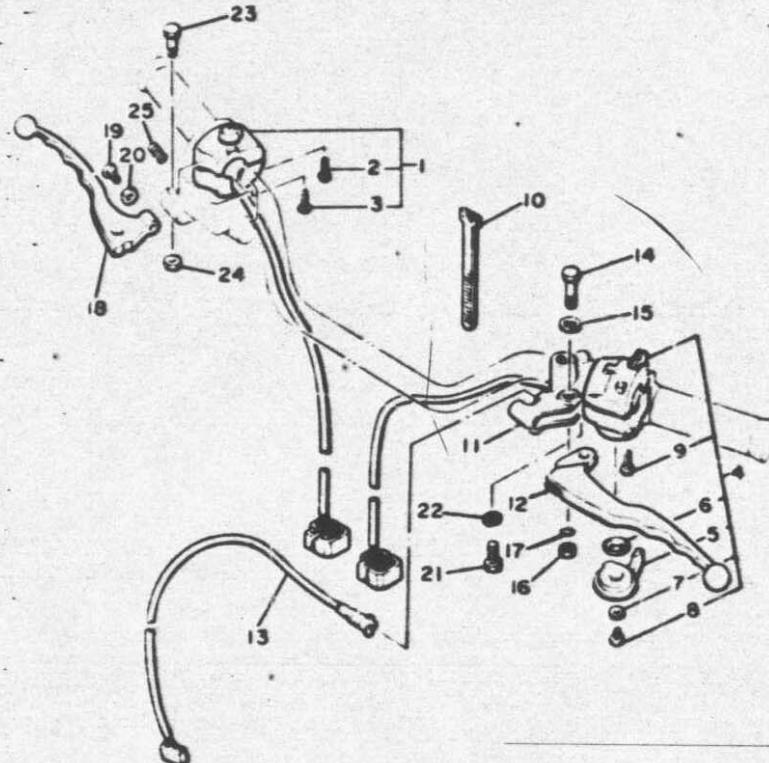
ELECTRICAL 2



Ref. No.	Part Number	Description	Qty.	Remarks
16	341-26397-01-00	BAND	1	
*17	5G2-82566-01-00	SWITCH, side stand	1	
18	98706-05016-00	SCREW, flat head	2	
19	4H7-83350-70-00	FLASHER RELAY ASS'Y	1	
*20	2H9-83371-20-00	HORN	1	High Tone
*21	2H9-83371-30-00	HORN	1	Low Tone
22	97306-08014-00	BOLT	2	
23	92906-08100-00	WASHER, spring	2	
24	92906-08600-00	WASHER, plate	2	
25	3Y6-85130-00-00	REAR REFLECTOR ASS'Y	1	
26	95301-05700-00	NUT	1	
27	2N8-85111-00-00	REFLECTOR (355-85111-00) ...	2	
28	92903-05100-00	WASHER, spring (92902-05100)	2	
29	92901-05200-00	WASHER, plate (92902-05200)	2	

TROUBLESHOOTING	
Ignition Coil Lead Gap / Primary Ω / Secondary Ω	6mm / $2.5 \Omega \pm 10\%$ / $11K \Omega \pm 20\%$
Pulse Coil or Pickup Coil Color Code / Ω	Org ~ Blk, Gry ~ Blk / $700 \Omega \pm 20\%$
Source Coil Color Code / Ω	Blk
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-BW / 12V27W

HANDLE SWITCH - LEVER



SV2110-2450

Ref. No.	Part Number	Description	Qty.	Remarks
1	2H7-83975-00-98	SWITCH, handle 2	1	
2	98506-05030-00	. SCREW, pan head	1	
3	98506-05040-00	. SCREW, pan head	1	
4	4H7-83973-00-00	SWITCH, handle 3	1	
5	4H7-83941-00-00	. LEVER, starter	1	
6	90209-10131-00	. WASHER	1	
7	92903-06200-00	. WASHER, plain (92901-06200) 1	1	
8	97323-06008-00	. BOLT	1	
9	98506-05030-00	. SCREW, pan head	2	
10	437-83936-00-00	BAND, switch cord	2	
11	4K0-82911-00-00	HOLDER, lever 1	1	
12	2H7-83912-00-00	LEVER 1	1	
13	3Y6-83917-00-00	SWITCH	1	
14	2H7-83945-00-00	BOLT, lever	1	
15	90201-08083-00	WASHER, plate	1	
16	95601-06100-00	NUT, U	1	
17	93210-11368-00	O-RING	1	
18	2J2-83922-00-00	LEVER 2	1	
19	90149-06131-00	. SCREW	1	
20	90170-06010-00	NUT	1	
21	9730C-06022-00	BOLT	1	
22	92906-06100-00	WASHER, spring	1	
23	90109-06465-00	BOLT	1	
24	95601-06100-00	NUT, U	1	
25	90501-10510-00	SPRING, compression	1	

XJ650RJ

1982 SERVICE DATA

This bulletin replaces M81-035.

Please remove and destroy bulletin M81-035. ▲ Denotes a change from the original bulletin.

MODEL - IBM I.D. NUMBER	XJ650RJ 5V2	
Initial Engine Number / Frame Number	5V2-000101 / 5V2-000101	
Basic Color(s)	Quartz Silver	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 19.5 Lit. / 3.8 Lit.	
Dry Vehicle Weight	227 kg	
ENGINE TYPE	4-Stroke, Air-Cooled, DOHC, Parallel Four	
Bore/Stroke/Number Cylinders/Displacement	63mm / 52.4mm / 4 / 653cc	
Compression Ratio/Compression Pressure Min~Max	9.2:1 / 9.5 ~ 11 kg/cm ²	
Piston Skirt Clearance New / Max	0.030 ~ 0.050mm / 0.1mm	
Ring End Gap Top / 2nd / 3rd	0.15 ~ 0.35mm / 0.15 ~ 0.35mm / 0.3 ~ 0.9mm	
Valve Clearance (Cold) Intake / Exhaust	▲ 0.11 ~ 0.15mm / 0.16mm ~ 0.20mm	
Oil Pressure Hot / rpm	NA	
Oiling System	Wet Sump	
Capacity: Dry	3500cc	
Oil and Filter Change	2960cc	
Oil Change Only	2650cc	
Lubricant: Temp. Above 5°C (40°F)	Yamatube 4° or SAE 20W40 SE	
Temp. Below 15°C (60°F)	Yamatube 4° or SAE 10W30 SE	
Cooling System / Capacity	Air / Ø	
Coolant Type / Mixing Ratio	Ø	
AUTOLUBE - Min Stroke / Color Code	Ø	
Minimum Output @ 200 Cycles	Ø	
Maximum Output @ 200 Cycles	Ø	
CARBURETOR - Mfr. / Type / I.D. Number	Hitachi / HSC32 / 4H7-00	
Main Jet / Pilot Jet	110 / 40	
Needle Jet / Jet Needle-Clip Position	3.2 / Y-10 Fixed	
Slide Cutaway	130	
Float Level / Fuel Level	17.5 ± 0.5mm / 2 ~ 4mm	
Idle rpm	1050 rpm	
Max CO* / Max HC* / Set CO	▲ 5.0% / 500 ppm / 3.0% (All Settings @ Idle)	
SUSPENSION		
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / Ø / 236cc	
Gas Pressure	Ø	
Spring Length Std.	540.5mm	
Monoshock: Oil Type / Qty	Ø	
Gas Pressure	Ø	
Minimum Brake Lining Thickness	Front: 1.2mm Rear: 2.0mm	
Tire Size (Nominal Pressure)	F:3.25H19 (1.8kg/cm ²) R:120/90-18 65H (2.0kg/cm ²)	
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	See ENGINE Above	
Primary Drive Type / Teeth / Ratio	Spur Gears / 97-58 / 1.672	
Secondary Drive Type / Teeth / Chain	Shaft Drive / 49-36 x 19-18 x 32-11 / Ø	
Clutch Friction Plate Thickness Std ~ Min	3.0 ~ 2.8mm	
Clutch Spring Length Std ~ Min	40.1 ~ 39.1mm	
Middle Gear Case Capacity	Ø	
Final Gear Case Capacity	200cc	
Gear Case Lubricant: Temp. Above 5°C (40°F)	SAE 80 API Hypoid Gear Oil GL-4	
Temp. Below 15°C (60°F)	SAE 80 API Hypoid Gear Oil GL-4	

SERVICE DATA

FILE MOTORCYCLE - 650 SECTION	DATE 10/9/81	BUL M81-035
CHARGING SYSTEM	AC Generator / 3-Phase / Full Wave	
Battery: Model / Specific Gravity / Charge Rate	Yuasa 12N12A (12V 12AH) / 1.28 / 1.2A	
Maximum Output	14V 19A @ 5000 rpm	
TROUBLESHOOTING		
Field Coil Color Code / Ø	Rotor: Grn~Blk/4.0Ω ± 10% Stator: Whtr~Whl/0.46Ω ± 10%	
Charge Coil Color Code / Ø	Ø	
IGNITION SYSTEM	Transistor Controlled Ignition	
Ignition Timing	10° Mark	
Std: 10° @ 1050 rpm Adv: 37.5 ± 2° @ 5000 rpm		
Spark Plug Type	NGK BP7ES or Nippon Denso W22EP	
Spark Plug Gap / Torque / Cap Ø	0.7 ~ 0.8mm / 2.0 m-kg / 10K Ø	
Point Gap / Condenser Capacitance	Ø / Ø	
TROUBLESHOOTING		
Ignition Coil Test Gap / Primary Ø / Secondary Ø	6mm / 2.5 Ø ± 10% / 11K Ø ± 20%	
Pulser Coil or Pickup Coil Color Code / Ø	Org ~ Blk, Gry ~ Brn / 700 Ø ± 20%	
Source Coil Color Code / Ø	Ø	
LIGHTING SYSTEM		
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-8W / 12V27W	
TROUBLESHOOTING		
Lighting Coil Color Code / Ø	Ø	
TORQUE VALUES		
Front Axle Nut	14 x 1.5: 10.7 m-kg	
Front Axle Holder Nut	8 x 1.25: 2.0 m-kg	
Rear Axle Nut	14 x 1.5: 10.7 m-kg	
Rear Axle Pinch Bolt	8 x 1.25: 0.6 m-kg	
Clutch Nut	20 x 1.0: 7.2 m-kg	
Drain Plug	14 x 1.5: 4.3 m-kg	
Cylinder Head Cover	6 x 1.0: 1.0 m-kg	
Cylinder Head:	10 x 1.25: 3.2 m-kg	
Engine Mounting Bolts: Front, Upper	10 x 1.25: 4.2 m-kg	
Front, Lower	10 x 1.25: 4.2 m-kg	
Rear	12 x 1.25: 7.0 m-kg	

Ø = Does Not Apply To This Model

NA = Information Not Available

* Available From Yamaha Parts Distributors Inc.

* For Diagnostic Use Only

SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's Manual	LIT-11626-02-86	
Service Manual	LIT-11626-02-86	
Assembly Manual	LIT-11666-02-86	Supp to XJ650G, H, LH, (01-94)
Consumer Information	LIT-11656-02-86	