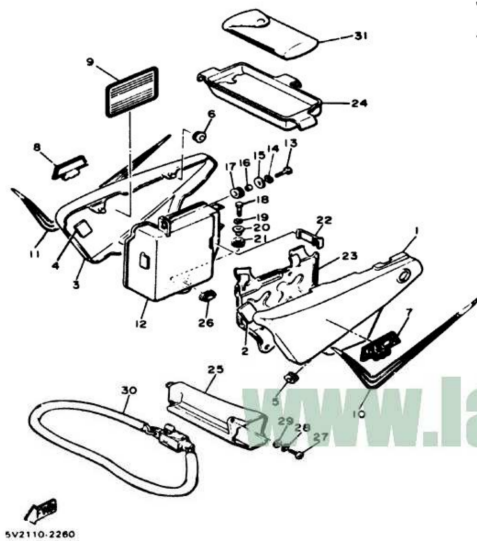


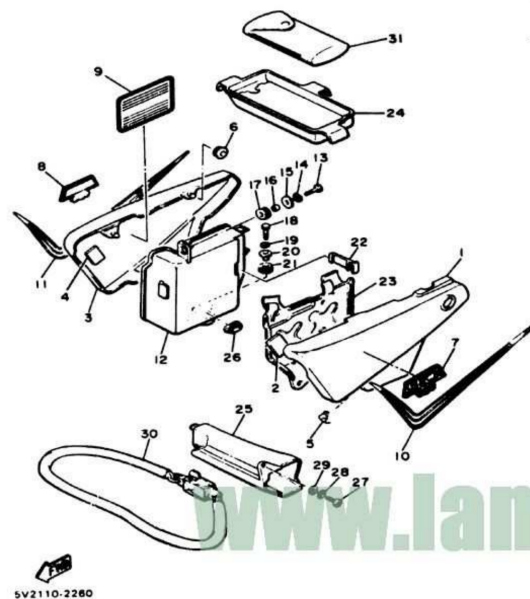
SIDE COVER • TOOL



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	4H7-21240-01-00	BOX COMP.	1	
13	97321-08025-00	BOLT	1	
14	92903-06100-00	WASHER, spring (92902-06100)	1	
15	90201-06407-00	WASHER, plate	1	
16	90387-060A7-00	COLLAR	1	

D3

SIDE COVER • TOOL

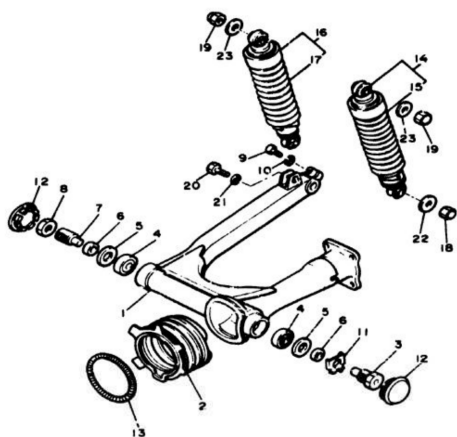


Ref. No.	Part Number	Description	Qty.
17	90480-16233-00	GROMMET	1
18	97321-08025-00	BOLT (97322-08025)	1
19	92903-08100-00	WASHER, spring (92902-08100)	1
20	90387-09617-00	COLLAR	1
21	4H7-21746-00-00	DAMPER	1
22	4H7-2175R-00-00	HOOK, bank	1
23	4H7-21243-01-00	PLATE, bridge	1
24	4H7-21170-00-00	BOX COMP.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

*Indicates new part numbers activated from March, 1983.

D-4

REAR ARM - SUSPENSION

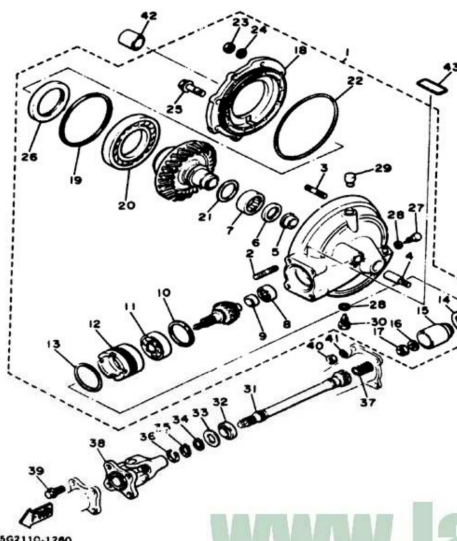


4K0332-0270

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	
14	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	
15	4H7-22212-A0-00	SPRING.	1	Heavy Duty
16	4K0-22210-10-00	SHOCK ABSORBER ASS'Y, rear	1	
16	4H7-22210-E0-00	SHOCK ABSORBER ASS'Y, rear	1	Heavy Duty
17	4K0-22212-00-00	SPRING.	1	
17	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	

D5

DRIVE SHAFT



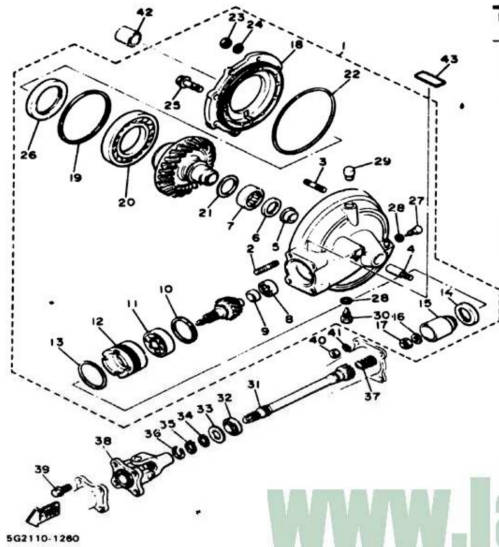
5G2110-1260

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.
10	1J7-17537-Y0-30	SHIM, thrust (0.30T) .	1	U.R.
10	1J7-17537-Y0-40	SHIM, thrust (0.40T) .	1	U.R.
10	1J7-17537-Y0-50	SHIM, thrust (0.50T) .	1	U.R.
10	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	

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

D6

DRIVE SHAFT



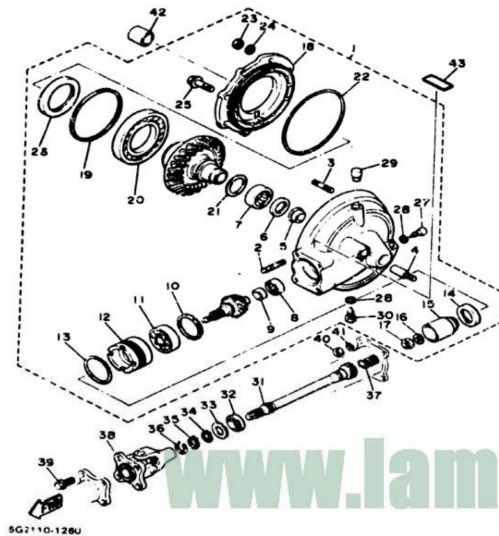
SG2110-1260

Ref. No.	Part Number	Description	Qty.	Remarks
17	90185-14070-00	NUT, self-locking	1	
18	4H7-46152-00-00	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	5	

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

D7

DRIVE SHAFT



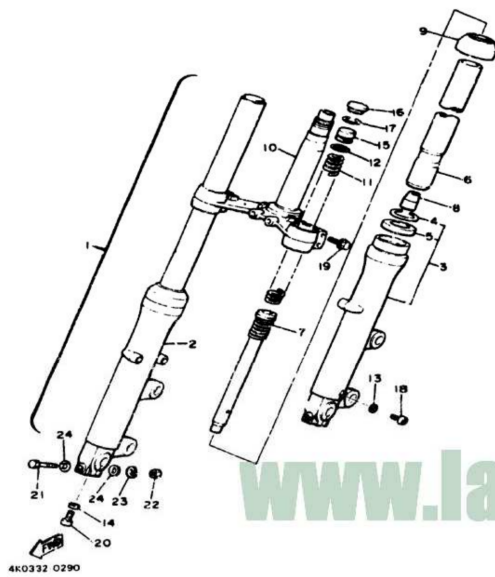
SG2110-1260

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	

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

D8

FRONT FORK

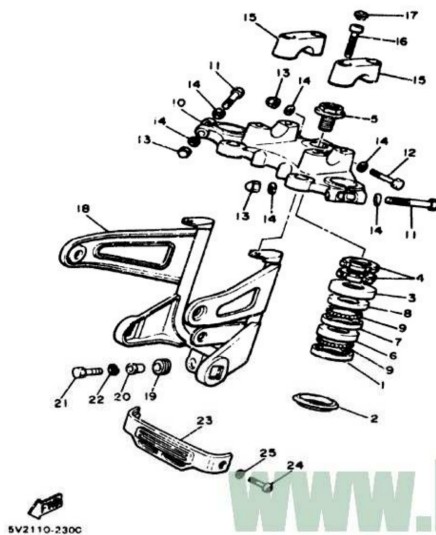


Ref. No.	Part Number	Description	Qty.	Remarks
1	4K0-23101-20-00	FRONT FORK ASS'Y	1	
2	4K0-23136-00-00	TUBE, outer 2	1	
3	4K0-23126-00-00	TUBE, outer 1	1	
4	4A1-23156-00-00	CLIP, oil seal	2	
5	3J2-23145-00-00	OIL SEAL	2	
6	4K0-23110-00-00	INNER TUBE COMP. 1	2	
7	4K0-23170-00-00	CYLINDER COMP., front fork	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	4G0-23356-00-00	BOLT 2	2	
22	95311-06600-00	NUT	2	
23	92903-08100-00	WASHER, spring (92901-08100)	2	
24	90201-08544-00	WASHER, plate	4	

Front Forks Oil Type	Level	Qty	13 Wt Fork Oil* at 230cc
Gas Pressure			8
Spring Length Std			540 mm

D9

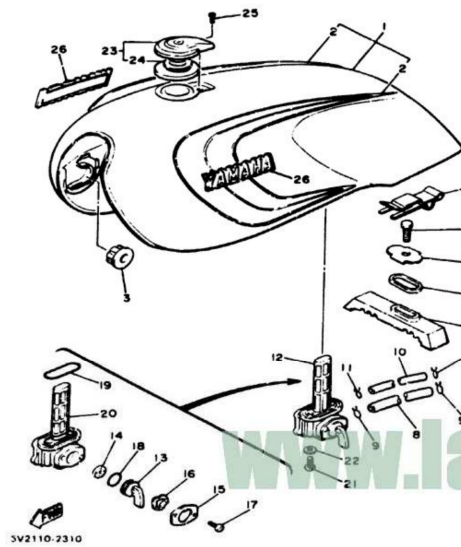
STEERING



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	92906-08800-00	WASHER, plate	6	
15	4H7-23441-00-98	HOLDER, handle upper	2	Low Gloss Blk
16	91316-08030-00	BOLT	4	
17	341-23489-00-00	CAP, bolt	4	
18	4K0-23174-00-00	STAY, headlight	1	
19	90480-14101-00	GROMMET	2	
20	90387-07391-00	COLLAR	2	
21	97301-06025-00	BOLT (97302-06025)	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	

D10

FUEL TANK

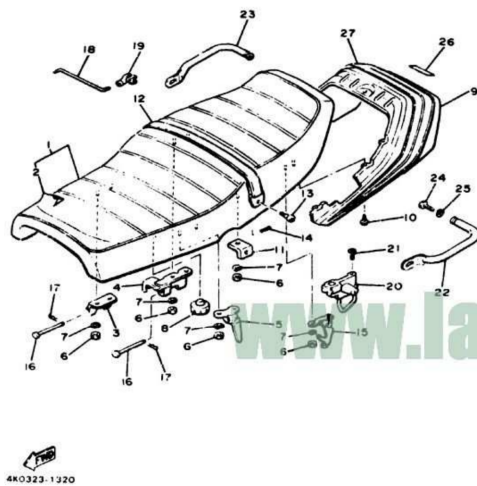


Ref. No.	Part Number	Description	Qty.	Remarks
1	4K0-24110-01-06	FUEL TANK COMP.	1	Quartz Silver
2	4K0-24240-00-00	GRAPHIC SET	1	
3	4H7-24181-00-00	DAMPER, locating 1.....	2	
4	4K0-24182-00-00	DAMPER, locating 2.....	1	
5	4K0-24183-00-00	DAMPER, locating 3.....	1	
6	4K0-24186-00-00	WASHER, special	1	
7	90109-08579-00	BOLT	1	
8	90445-11501-00	HOSE	1	
9	90487-10008-00	CLIP	2	
10	90445-09500-00	HOSE	1	
11	90487-08003-00	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	99501-03008-00	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	

Basic Color(s)	Quartz Silver
Fuel type / Fuel Tank Capacity / Reserve Capacity	Regular / 19.5 Ltr. / 3.8 Ltr.

D11

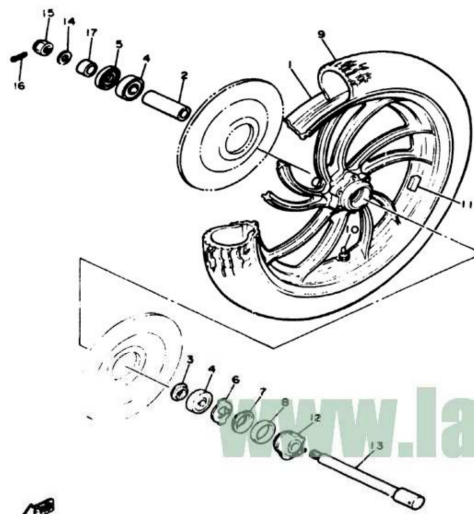
SEAT



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	90488-10050-00	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	98906-06008-00	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	4K0-24757-00-00	GRAPHIC, tail cover	1	

D12

FRONT WHEEL



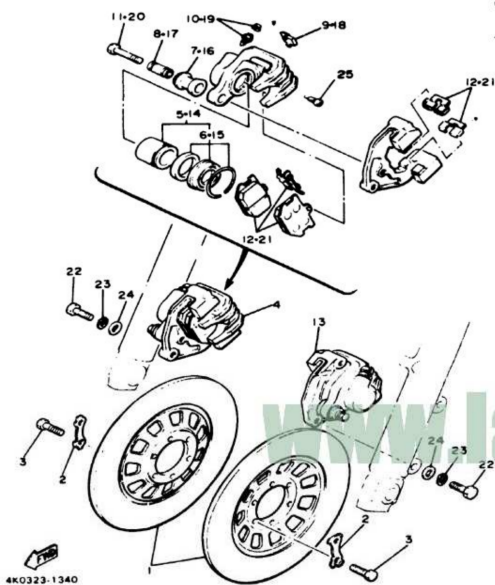
5V2110-2330

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-25168-20-98	CAST WHEEL, front	1	
2	90560-15118-00	SPACER	1	
3	146-25115-00-00	FLANGE, spacer 1	1	
4	93306-30203-00	BEARING (86302Z)	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	94132-193M3-00	TIRE (3.25-19) (94132-19489)	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	4H7-25181-01-00	AXLE, wheel (4H7-25181-00)	1	
14	92901-14200-00	WASHER, plain	1	
15	90171-14020-00	NUT, castle	1	
16	91401-30030-00	PIN, cotter	1	
17	90367-15550-00	COLLAR	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)
Front Axle Nut	14 x 1.5 10.7 m-kg	
Front Axle Holder Nut	8 x 1.25 2.0 m-kg	

E1

FRONT BRAKE CALIPER



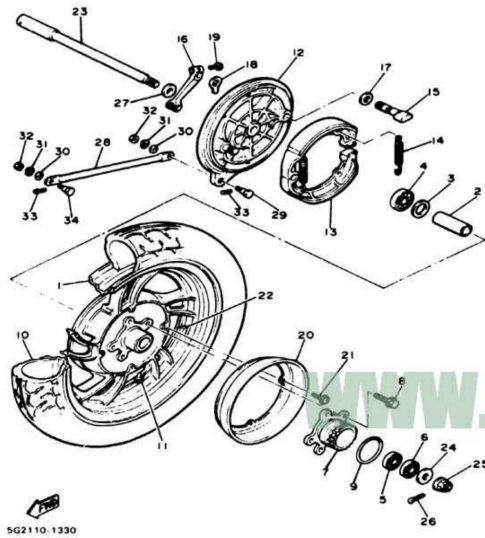
4K0323-1340

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	CALIPER 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-W0045-00-00	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	
25	1L9-25913-00-00	BOLT, retaining	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)

E2

REAR WHEEL

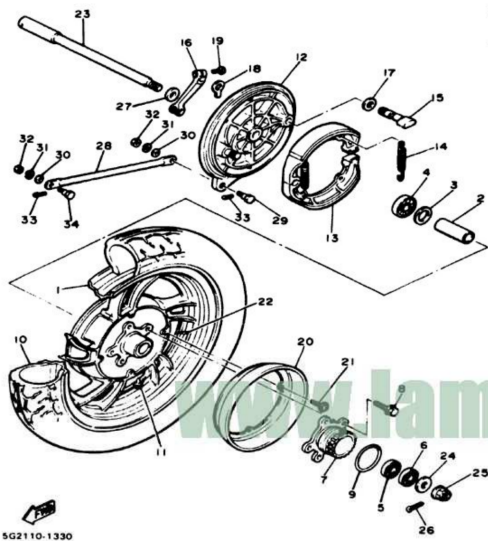


Ref. No.	Part Number	Description	Qty.	Remarks
1	5G2-25338-20-98	CAST WHEEL, rear	1	Low Gloss Black
2	90560-17125-00	SPACER	1	
3	148-25315-00-00	FLANGE, spacer	1	
4	93306-30306-00	BEARING (B6303)	1	
5	93306-20316-00	BEARING (B6203)	1	
6	93306-20310-00	BEARING (B6203RS)	1	
7	4H7-25386-01-00	CLUTCH, hub	1	
8	90105-10200-00	BOLT, 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	

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: 3.25H19 (1.8 kg/cm ²) R: 120/90-18 65H (2.0 kg/cm ²)

E3

REAR WHEEL

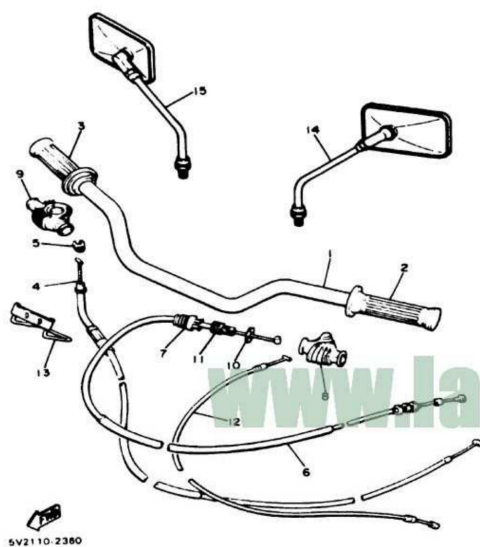


Ref. No.	Part Number	Description	Qty.	Remarks
19	90101-06291-00	BOLT	1	
20	4H7-25327-00-00	COVER, plate	1	
21	90159-05018-00	SCREW, with washer	4	
22	1A1-25398-01-00	BALANCER, wheel (20G)	1	U.N.
	1A1-25399-00-00	BALANCER, wheel (10G)	1	U.N.
	2M0-25399-00-00	BALANCER, wheel (30G)	1	U.N.
23	4H7-25381-00-00	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	90109-08358-00	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 1.25, 0.6 m.kg

E4

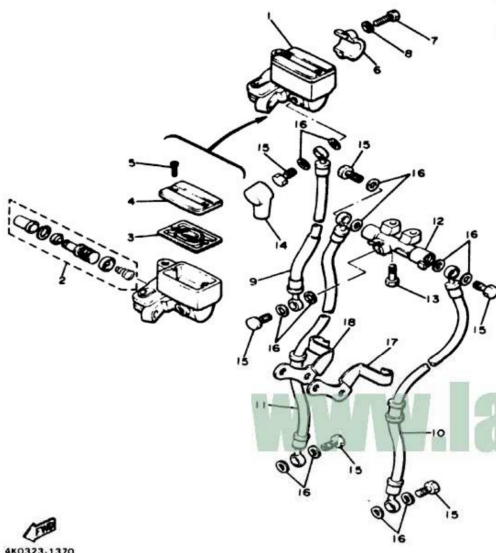
HANDLEBAR • CABLE



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	

E5

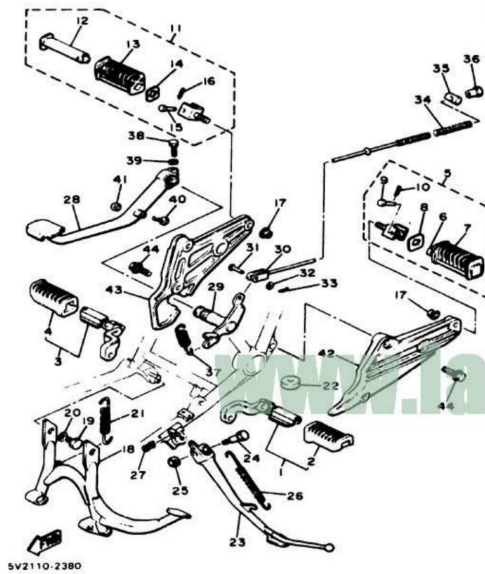
FRONT MASTER CYLINDER



Ref. No.	Part Number	Description	Qty.	Remarks
1	4K0-25850-01-00	MASTER CYLINDER ASS'Y (4K0-25850-00)	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	98706-04010-00	SCREW, flat head	2	
6	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	

E6

STAND • FOOTREST

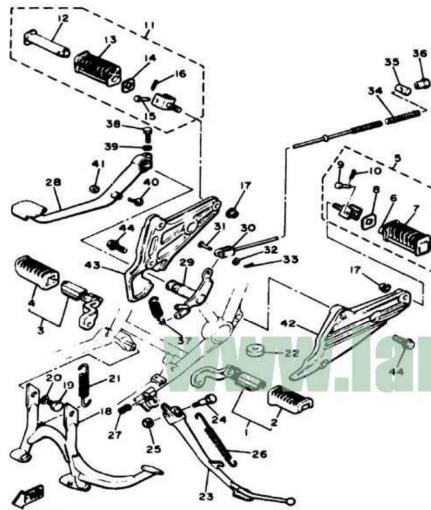


5V2110-2380

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	91701-08035-00	PIN, clevis	1	
10	91401-18015-00	PIN, cotter (91401-18012)	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	91701-08035-00	PIN, clevis	1	
16	91401-18015-00	PIN, cotter (91401-18012)	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	

E7

STAND • FOOTREST

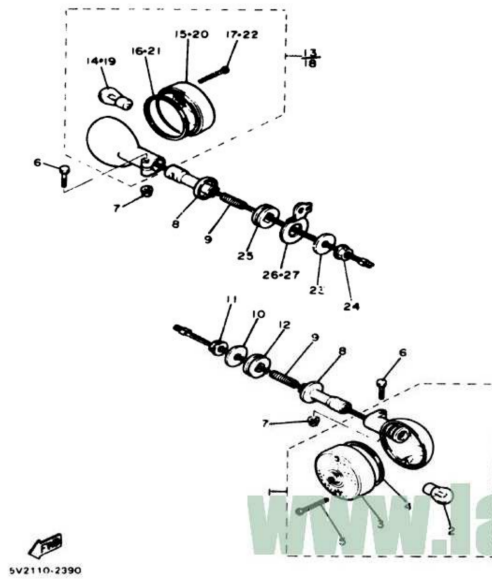


5V2110-2380

Ref. No.	Part Number	Description	Qty.	Remarks
23	5V2-27311-00-R4	STAND, side	1	Black
24	90109-10890-00	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	90501-10245-00	SPRING, compression	1	
35	90249-12008-00	PIN	1	
36	90179-08178-00	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	

E8

FLASHER LIGHT

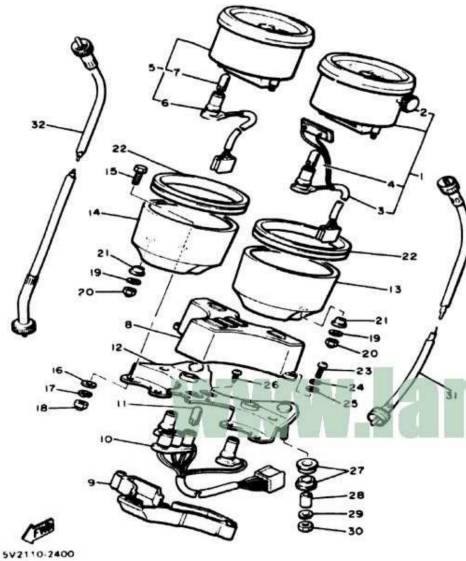


Ref. No.	Part Number	Description	Qty.	Remarks
1	5H1-83330-K0-00	REAR FLASHER LIGHT ASS'Y 1	2	
2	256-83311-70-00	BULB (12V-27W)	1	
3	4H7-83312-00-00	LENS, flasher	1	
4	4H7-83313-00-00	GASKET, flasher lens	1	
5	98501-03030-00	SCREW, pan head	2	
6	97301-06030-00	BOLT (97303-06030)	4	
7	95701-06100-00	NUT, 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	

Headlight Taillight Signal Rating 12V60-55W / 12V27-8W / 12V27W

E9

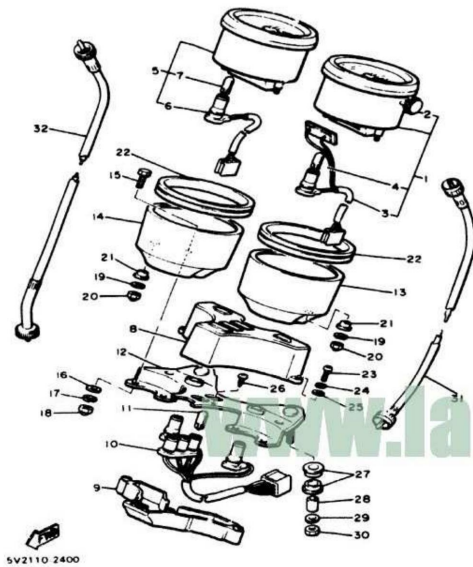
SPEEDOMETER - TACHOMETER



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	

E10

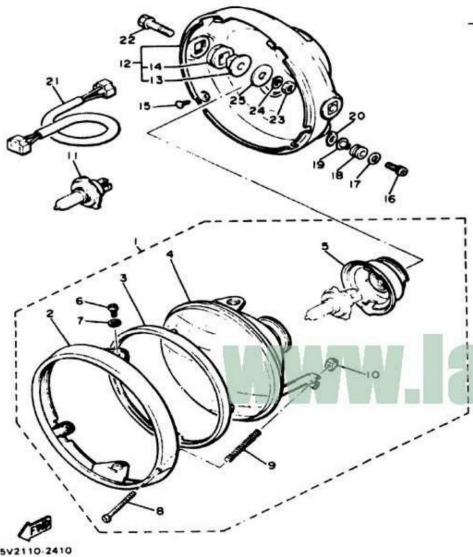
SPEEDOMETER • TACHOMETER



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	18506-04012-00	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	

E11

HEADLIGHT

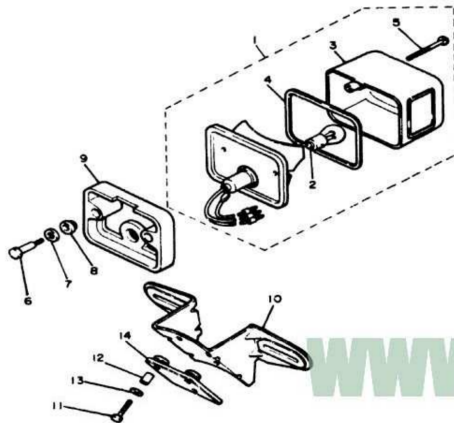


Ref. No.	Part Number	Description	Qty.	Remarks
1	5V2-84303-A0-00	HEADLIGHT UNIT ASS'Y	1	
2	5A8-84315-00-00	RIM, headlight	1	
3	4E2-84395-00-00	RING, retaining	1	
4	5H1-84321-A1-00	LENS, headlight	1	
5	4E2-84397-00-00	COVER, socket	1	
6	98501-05010-00	SCREW, pan head	2	
7	92903-05100-00	WASHER, spring (92901-05100)	2	
8	447-84331-61-00	SCREW, rim adjusting	1	
9	447-84332-60-00	SPR'NG, 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	GROMMET	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	

Headlight	Tailight	Signal Rating	12V60-55W / 12V27-8W / 12V27W
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E12

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	97301-06025-00	BOLT (97302-06025)	3	
12	90560-07007-00	SPACER	3	
13	90201-06074-00	WASHER, plate	3	
14	4K0-84736-00-00	DAMPER, tail	1	

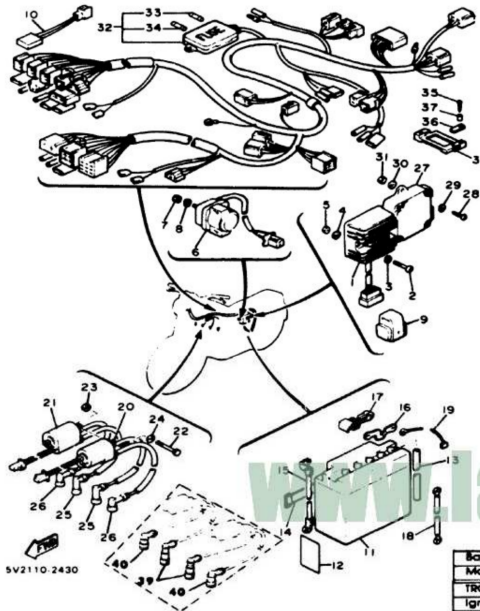


5V2110-2420

Headlight / Taillight / Signal Rating	12V60-55W / 12V27-8W / 12V27W
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F1

ELECTRICAL 1



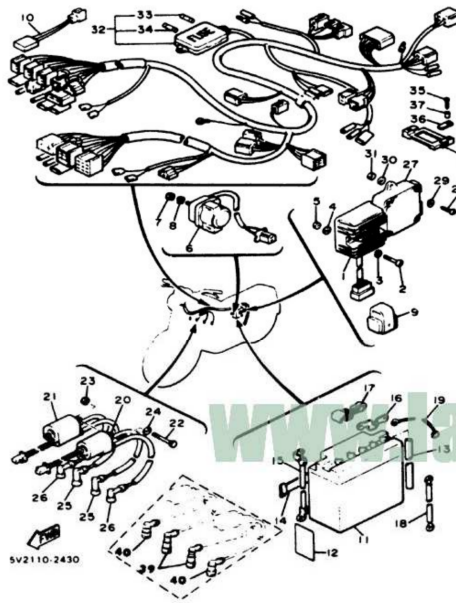
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81980-50-00	RECTIFIER & REGULATOR ASS'Y	1	
2	92501-06030-00	SCREW, pan head (92502-06030)	2	
3	92903-06100-00	WASHER, spring (92902-06100)	2	
4	92901-06600-00	WASHER (92902-06600)	2	
5	95301-06700-00	NUT (95302-06700)	2	
6	22U-81940-00-00	STARTER SWITCH ASS'Y (3H5-81940-00)	1	
7	95301-06700-00	NUT	2	
8	92903-06100-00	WASHER, spring (92901-06100)	2	
9	12R-81950-00-00	STARTER CIRCUIT CUT-OFF RELAY (4H7-81950-01)	1	
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	4H7-82116-00-00	WIRE, minus 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	4H7-82115-00-00	WIRE, plus lead	1	

5V2110-2430

Battery: Model / Specific Gravity / Charge Rate	Yuasa 12N12A (12V 12Ah) / 1.26 / 1.2A
Maximum Output	14V 15A @ 3000 rpm
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 2.5 Ω $\pm$ 10% / 11K Ω $\pm$ 20%
Pulser Coil or Pickup Coil Color Code / Ω	Org ~ Blk, Gry ~ Brn / 700 Ω $\pm$ 20%
Source Coil Color Code / Ω	$\emptyset$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-8W / 12V27W
TROUBLESHOOTING	

F2

ELECTRICAL 1

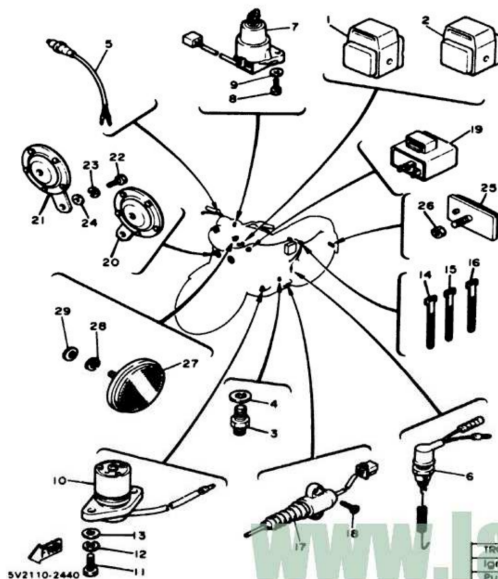


Ref. No.	Part Number	Description	Qty.	Remarks
20	4H7-82310-00-00	IGNITION COIL ASS'Y.....	1	
21	4H7-82320-00-00	IGNITION COIL ASS'Y.....	1	
22	97301-06080-00	BOLT (97302-06080)	2	
23	95302-06600-00	NUT.....	2	
24	92903-06200-00	WASHER, plain (92901-06200).....	2	
25	1J7-82370-00-00	PLUG CAP ASS'Y	2	
26	256-82370-00-00	PLUG CAP ASS'Y	2	
27	5V2-82305-10-00	IGNITOR UNIT ASS'Y	1	
28	92503-06015-00	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	4K0-82555-00-00	WASHER	2	
37	90387-05656-00	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

Battery: Model / Specific Gravity / Charge Rate	Yuasa 12N12A (12V 12AH) / 1.28 / 1.2A
Maximum Output	14V 19A @ 5000 rpm
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ω / Secondary Ω	6mm / 2.5 Ω $\pm$ 10% / 11K Ω $\pm$ 20%
Pulser Coil or Pickup Coil Color Code / Ω	Org ~ Blk, Gry ~ Brn / 700 Ω $\pm$ 20%
Source Coil Color Code / Ω	$\emptyset$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-8W / 12V27W

F3

ELECTRICAL 2

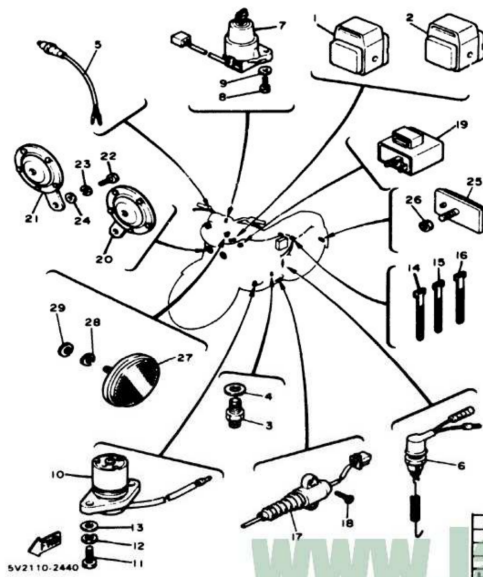


Ref. No.	Part Number	Description	Qty.	Remarks
1	3H5-81950-00-00	HEADLIGHT RELAY ASS'Y	1	
2	4U8-81950-00-00	SIDE STAND RELAY ASS'Y	1	
3	2H7-82540-00-00	NEUTRAL SWITCH ASS'Y	1	
4	90430-10148-00	GASKET	1	
5	1A0-83980-30-00	FRONT STOP SWITCH ASS'Y	1	
6	1E9-82530-00-00	STOP SWITCH ASS'Y	1	
7	4H7-82508-50-00	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 Ω $\pm$ 10% / 11K Ω $\pm$ 20%
Pulser Coil or Pickup Coil Color Code / Ω	Org ~ Blk, Gry ~ Brn / 700 Ω $\pm$ 20%
Source Coil Color Code / Ω	$\emptyset$
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-8W / 12V27W

F4

ELECTRICAL 2

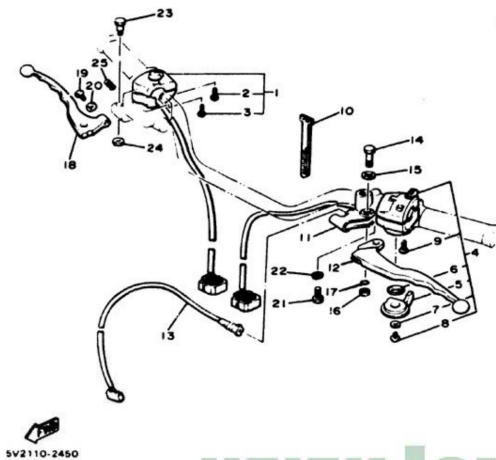


Ref. No.	Part Number	Description	Qty.	Remarks
16	341-26397-01-00	BAND	1	
17	5G2-82566-01-00	SWITCH, side stand	1	
18	98706-05016-00	SCREW, flat head	2	
19	4H7-83350-70-00	FLASHER RELAY ASS'Y	1	
20	2H9-83371-20-00	HORN	1	High Tone
21	2H9-83371-30-00	HORN	1	Low Tone
22	97306-08014-00	BOLT	2	
23	92906-08100-00	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 Test Gap / Primary Q / Secondary Q	6mm / 2.5 Q ± 10% / 11K Q ± 20%	
Pulser Coil or Pickup Coil Color Code / Q	Org ~ 8kQ, Grn ~ 8m / 700 Q ± 20%	
Source Coil Color Code / Q	#	
Lighting System		
Headlight / Taillight / Signal Rating	12V/40-55W / 12V/27-40W / 12V/27W	

F5

HANDLE SWITCH - LEVER



Ref. No.	Part Number	Description	Qty.	Remarks
1	2H7-83975-01-00	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	92903-08200-00	WASHER, plain (92901-08200)	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	2H0-83912-20-00	LEVER 1	1	
13	3Y6-82917-00-00	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	90149-08131-00	SCREW	1	
20	90170-06010-00	NUT	1	
21	97306-06022-00	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	

F6

TOP END GASKET KIT

Ref. No.	Part Number	Description	Qty.	Remarks
*	4H7-W0001-00-XX	TOP END GASKET KIT		
	4H7-11181-02-00	CYLINDER HEAD GASKET	1	
	4H7-11355-00-00	CYLINDER HEAD SEAL	1	
	4H7-11193-00-00	HEAD COVER GASKET	1	
	1J7-11138-00-00	SEMI-CIRCULAR PLUG	2	
	93210-69434-00	CYLINDER BASE O-RING	4	
	90430-14131-00	DOWEL PIN GASKET	2	
	4H7-11351-00-00	CYLINDER BASE GASKET	1	
	93210-06001-00	TENSIONER CASE O-RING	1	
	93210-08006-00	TENSIONER O-RING	1	
	4H7-12213-00-00	TENSIONER CASE GASKET	1	
	1J7-12119-01-00	VALVE STEM SEAL	8	
	4H7-13556-01-00	INTAKE GASKET	4	
	4H7-14613-00-00	EXHAUST GASKET	4	

NOTE: This set does not include two cylinder stud o-rings, P/N 93210-18322-00, which should be replaced when performing top end repairs.

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XJ650RJ 1982 SERVICE DATA

Please remove and destroy bulletin M81-035. A denotes a change from the original bulletin.

MODEL - RM LB. NUMBER	XJ650RJ	SV2
Initial Engine Number / Frame Number	SV2-000101 / SV2-000101	
Basic Color(s)	Quartz Silver	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 19.5 Ltr. / 3.8 Ltr.	
Dry Vehicle Weight	227 kg	
ENGINE TYPE	4-Stroke, Air-Cooled, DOHC, Parallel Four	
Bore/Stroke/Number Cylinders/Displacement	65mm / 52.4mm / 4 / 563cc	
Compression Ratio/Compression Pressure Min-Max	9.2:1 / 9.5 ~ 11 kg/cm ²	
Piston Skirt Clearance New / Max	0.030 ~ 0.065mm / 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 / 0.15mm ~ 0.20mm	
Oil Pressure Ref / rpm	NA	
Oiling System	Wet Sump	
Capacity: Dry	3500cc	
Oil and Filter Change	2050cc	
Oil Change Only	1650cc	
Lubricant: Temp. Above 5°C (40°F)	Yamalube 4" or SAE 20W40 SE	
Temp. Below 5°C (40°F)	Yamalube 4" or SAE 10W30 SE	
Cooling System / Capacity	Air / 8	
Coolant Type / Mixing Ratio	8 / 1	
AUTOLUBE - Min Stroke / Color Code	8 / 1	
Minimum Output @ 200 Cycles	8	
Maximum Output @ 200 Cycles	8	
CARBURETOR - Jet / Type / I.D. Number	Hiroshi / 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 ² / Max HC / Set CO	5.0% / 500 ppm / 3.0% (All Settings @ Idle)	
SUSPENSION	10 yri. Fork Oil / 8 / 23cc	
Front Fork: Oil Type / Level / Qty	Gas Pressure	
Spring Length Std	540.5mm	
Monoshock: Oil Type / Qty	Gas Pressure	
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/Chn/Qty Reassemble	See ENGINE Above	
Primary Drive Type / Teeth / Ratio	Sprocket Gears: 17/58 / 1.672	
Secondary Drive Type / Teeth / Chain	Shaft Drive: 49-36 x 19-18 x 32-11 / 8	
Clutch Friction Plate Thickness Std. ~ Min	3.0 ~ 2.8mm	
Clutch Spring Length Std. ~ Min	40.1 ~ 39.1mm	
Middle Gear Case Capacity	200cc	
Final Gear Case Capacity	200cc	
Gear Case Lubricant: Temp. Above 5°C (40°F)	SAE 80 API Hypoid Gear Oil GL-4	
Temp. Below 5°C (40°F)	SAE 80 API Hypoid Gear Oil GL-4	
All Weather Conditions	SAE 80 API Hypoid Gear Oil GL-4	

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J-1

SERVICE DATA

CHARGING SYSTEM	AC Generator / 3-Phase / Full Wave
Battery Model / Specific Gravity / Charge Rate	YUASA 12N12A (12V 12Ah) / 1.38 T.T.A.
Maximum Output	14V 19A @ 5000 rpm
IGNITION SYSTEM	Ignition Coil Color Code / 8
Field Coil Color Code / 1	Rotor Arm-Bk/4.0G ± 10% Rotor-Wht-Wht/0.45G ± 10%
Charge Coil Color Code / 8	8
IGNITION SYSTEM	Transistor Controlled Ignition
Ignition Timing	10° Mark
Spark Plug Type	Std: 10° @ 1050 rpm Adv: 37.5 ± 2° @ 5000 rpm
Spark Plug Gap / Torque / Cap 8	NKK 18PRJ or Nippon Denso W22EP
Point Gap / Condenser Capacitance	0.7 ~ 0.8mm / 2.0 m-kg / 10K 8
IGNITION SYSTEM	8
Ignition Coil Test Gap / Primary 8 / Secondary 8	8mm / 2.5 8 ± 10% / 11K 8 ± 20%
Pulse Coil or Pickup Coil Color Code / 8	Org ~ Bk, Grn ~ Bk / 700 8 ± 20%
Source Coil Color Code / 8	8
LIGHTING SYSTEM	Headlight / Taillight / Signal Rating
Headlight / Taillight / Signal Rating	12V60-55W / 12V27-5W / 12V27W
TRUBLESHOOTING	Lighting Coil Color Code / 8
Lighting Coil Color Code / 8	8
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

8 = Does Not Apply to This Model * Available From Yamaha Parts Distributors Inc.
NA = Information Not Available * For Diagnostic Use Only

SERVICE LITERATURE

PUBLICATION	PART NUMBER	REMARKS
Owner's Manual	LIT-11656-02-86	
Service Manual	LIT-11656-02-86	Supp to XJ650J, H, LK (01-94)
Assembly Manual	LIT-11656-02-86	
Consumer Information	LIT-11656-02-86	

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DET April 23, 1983

1980 ~ 1983 4-STROKE MODELS PILOT SCREW COMPONENTS AND BLIND PLUGS

Part numbers for pilot screw components and blind plugs are listed ... for the 1980 through 1983 model years. These parts may be ordered

from Yamaha Parts Distributors Inc. Dealer cost is shown.

XJ750H, RH, J, BJ, K, BK; XJ650J, BJ, K

DESCRIPTION	PART NUMBER	DEALER COST
Pilot Screw Kit	5H2-W1494-00-00	
O-ring	NA	
Washer	NA	
Spring	NA	
Blind Plug	4L6-14118-10-00	

TECHNICAL BULLETIN

DET August 6, 1982

1982 4-STROKE MODELS MEASURING OIL TEMPERATURE

Because oil temperature is a critical factor when using the exhaust gas analyzer, Yamaha developed a thermometer that measures oil temperature while the engine is running. The probe from this thermometer couples with the probe hole on the new-style drain plug so you can accurately monitor engine oil temperature during EGA use.

The thermometer has a high and low scale for a wide variety of uses. It can accurately measure temperatures from 0-180°C, has a virtually immediate response time, and the critical oil-temperature range is highlighted on the meter face for easy reading during EGA use.



An optional probe is also available for measuring oil temperature at the oil filler hole. The thermometer and optional probe are available from Kent-Moore.

Probe-hole drain plugs are available from your Yamaha Parts Distributors Inc. warehouse. These drain plugs are standard on some later-production 1982 models and can be retrofitted onto any Yamaha motorcycle with 14 x 1.5mm drain plugs. The plug uses a probe-hole screw to keep dirt and road grime out of the probe hole. Two types of drain plugs are available: magnetic and non-magnetic. Use the magnetic drain plug in those models with an oil-level switch. The magnet will attract any metal in the oil and prevent that metal from interfering with the operation of the oil-level switch.



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K-1

TECHNICAL BULLETIN

Date: August 6, 1993

To use the thermometer, remove the probe-hole screw from the drain plug, screw in the thermometer probe, start the engine, and follow standard EGA procedure. If the unit does not have a probe-hole plug, use the optional probe and measure the oil temperature at the oil filter line. Be sure to turn off the engine when measuring engine-oil temperature at the filter hole.

Testing has revealed that the critical oil-temperature range for accurate EGA measurement varies dependent upon where the temperature is measured. If you measure oil temperature at the oil

filter hole, the oil temperature must be 55~75°C in order to yield accurate EGA readings. If you measure the oil temperature at the drain plug, the critical temperature range is 50~70°C, except for the Vision. When measuring the oil temperature at the drain plug on an XZ550, the critical temperature range is 45 ~ 68°C.

Be sure the oil temperature is always within the appropriate range whenever you use the EGA. Readings will be inaccurate if the oil temperature is not within specification.

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS	DEALER COST
4X7-13455-00-00 90340-14087-00 99901-06008-00	Probe-hole Drain Plug Assembly • Probe-hole Drain Plug • Probe-hole Screw	Magnetic Magnetic	
11H-13455-00-00	Probe-hole Drain Plug Assembly	Non-magnetic	
214-11198-01-00	Drain-plug Gasket		
YU-33264 YU-33265	Thermometer Optional Probe	From Kent-Moore From Kent-Moore	

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K-2

MOTORCYCLE

Date: 6/24/83

Rev. M83-007A

1982 TWIN- AND FOUR-CYLINDER MODELS PREDELIVERY STALE-FUEL RESIDUE REMOVAL

This replacement bulletin contains new procedures which will significantly improve cleaning results.

Some affected models that have been warehoused for a prolonged period may have a buildup of stale-fuel residue in the carburetors. This residue buildup may cause improper operation of the machine. Follow the procedures below to remove stale-fuel residue from the carburetors during predelivery setup.

The first procedure listed must be performed before the carburetors are disassembled and cleaned; otherwise, warranty will not cover disassembly and cleaning.

AFFECTED MODELS

All X5400J X5400RJ X5400SJ	X5600SJ XV750J XV920J XV920RJ
All XJ550J XJ550RJ XJ550SJ	XJ750J XJ750RJ XJ1100J

SPECIAL TOOLS

The following special tools and materials are required for these procedures:

Exhaust Gas Analyzer
Yamaha Carburetor Cleaner (ACC-11001-43-00)
Fuel Level Gauge (YM-01312)
Fuel Level Gauge Adapter (YM-01329)
Slide Hammer Adapter (YM-33217-17)

PROCEDURES

WARNING
These procedures require extensive handling of flammable liquids. To avoid serious injury, do not allow open flames, sparks, cigarettes, or any other sources of ignition near the area in which you are working.

CLEANING CARBURETORS ON THE MACHINE

1. As directed by the predelivery checklist portion of the Motorcycle Purchase Registration form, drain the stale fuel from the float bowls and fuel lines.

NOTE: The drain screws may be stuck in place by the residue buildup. If so, insert the tip of a flat screwdriver into the screw and tap it lightly with a hammer. If the screw still won't loosen, use an impact driver.

2. Mix one part Yamaha carburetor cleaner (ACC-11001-43-00) with three parts water.

NOTE: A mixture containing more than one part carburetor cleaner to three parts water is only marginally more effective than the recommended 1:3 ratio.

3. Connect a short piece of fuel hose to the float bowl drain, and pour about 70cc of mixture into each carburetor. In addition, pour some mixture into the fuel line. Work on the top side of the needle valve assembly. Do not pour any mixture into the fuel tank; this cleaner is for carburetors only.

NOTE: On carburetors equipped with overflow hoses, block the overflow to facilitate overfilling; this allows effective cleaning of the float arms and pilot passages.



FUEL LEVEL GAUGE ADAPTER

4. To circulate the mixture throughout the carburetors, fully open the choke lever and briefly push the starter button to draw mixture into jets and passages.

PAGE 1 OF 3

TECHNICAL BULLETIN

MOTORCYCLE

Date: 6/24/83

Rev. M83-007A

5. Allow the machine to sit at least an hour — and preferably overnight — for optimum cleaning.

6. Drain the mixture from the carbs and lines, reinstall the drain screws, and reattach all hoses with their clips.

7. Allow fresh gasoline into the float bowls, and then drain the float bowls once again to flush all of the mixture out.

8. Refill the float bowls with gasoline, start the engine, and check for proper operation. Resume normal predelivery procedures.

CARBURETOR DISASSEMBLY AND CLEANING

NOTE: Warranty will not cover the following procedure unless the above was properly performed first. If the machine still does not function properly, carefully follow the instructions below to ensure that complete cleaning is accomplished.

1. Remove the carburetors. Pay attention to the routing of cables and hoses; a simple sketch will assist you in reinstalling the carbs.

2. Using a 1/8-inch drill bit, drill the brass mixture-screw blind plugs, and remove them with the slide hammer and adapter. Take care not to damage the mixture screws while drilling the plugs.

3. For reference upon reassembly, gently turn the mixture screws in until lightly seated and mark the number of turns. Then remove the screws along with their springs and shims.

4. Number each float bowl and carb body for proper matching upon reassembly, and remove the float bowls.

5. Remove the main jet and pilot jet from each carburetor.

CAUTION:
On some models, the jets are not interchangeable among all the carburetors. Make sure that all carb components are reinstalled in the carburetor from which they were removed.

6. Remove the float pin, and remove the float and needle as an assembly from each carb.

7. Remove the valve seat from each carburetor, taking care not to damage the attached screen.

8. Remove the carb tops, springs, and slide/diaphragm assemblies. Make sure the diaphragms have no cracks or holes.

9. Remove the main nozzles.

10. Remove the enricher assemblies.



11. Place the carb bodies right side up in a clean pan.

12. Pour a mixture of one part Yamaha Carburetor Cleaner and three parts water into the pan until the level of the mixture is just below the butterfly shafts; the seals in the shafts may be damaged by the mixture.

13. Immerse the float bowls, jets, nozzles, needle valve assemblies, and mixture screws in the cleaner. Place each side in its carb body to allow the jet needles to soak. In addition, squirt some cleaner into the mixture screw bores to help dissolve residue in the passages.

14. Allow the carburetor parts to soak for one hour.

15. Use a fine wire to clear the choke passage in the float bowl. Verify that the passage is clear by squirting contact cleaner into the top of the passage and watching it appear from the bottom hole.

NOTE: Compressed air will not remove all residue; a fine wire must be run through all jets and passages to ensure cleaning, and verify with contact cleaner.

PAGE 2 OF 3

MOTORCYCLE

Date: 6/24/83

Rev. M83-007A



16. Run the wire through the main jets, pilot jets, and main nozzles.

17. Run the wire through the passage between the enricher plunger hole and the float bowl chamber.

18. Finally, blow through each jet and passage with compressed air to remove any material remaining.

19. Reassemble the carburetors, making sure all correct components go into each carb.

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS	DEALER COST
ACC-11001-43-00	Yamaha Carburetor Cleaner	1 qt.	

A WARRANTY

CLEANING CARBURETORS ON THE MACHINE

The warranty labor allowance for cleaning the carbs on the machine is 0.3 hours for twins and 0.3 hours for four-cylinder machines. The problem code is 90EK. To receive credit, follow standard service-per-bulletin procedures.

CARBURETOR DISASSEMBLY AND CLEANING

Before disassembling and cleaning the carburetors, an attempt must be made to clean the carbs on the machine; otherwise, war-

ranty will not cover disassembly and cleaning.

20. Before reinstalling the carbs, install the fuel level gauge on each carb and fill the float bowls with gasoline through the fuel line, adjust the float arms as required to achieve the proper fuel level. Make sure all drain screws on the float bowls face outward.

21. Reinstall the carburetors on the motorcycle. Make sure the air cleaner joints are properly seated on the carbs and the air filter box, and the hoses and cables are properly routed.

22. Synchronize the carburetors, set the idle speed, and set the mixture screws with the Exhaust Gas Analyzer. Install new blind plugs.

23. Test ride the machine and check for proper operation.

NOTE: If the procedure for cleaning the carbs on the machine proves ineffective, then disassemble and clean the carburetors. File a separate warranty request for the disassembly and cleaning. The problem code for this procedure is 14; the job codes are 3100 for carb removal and 3104 for cleaning. Consult your flat rate manual for the appropriate labor times. In the remedy section, write "Cleaned carbs as per bulletin M83-007A."

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TECHNICAL BULLETIN

TWIN- AND FOUR-CYLINDER MODELS PREDELIVERY CARBURETOR/FUEL TANK INSPECTION & CLEANING

Some models that have been warehouse'd for a prolonged period may be affected by rust and/or stale fuel residue in the fuel tank or carburetors. This condition may cause improper operation of the motorcycle.

Affected units must be inspected and appropriate steps must be taken during predelivery of the motorcycle. Registered units require prior authorization by your Regional Technical Advisor (RTA).

SUMMARY OF CHANGES

- The new procedures in this Bulletin must be performed on all affected models prior to delivery.
- As of the date of this Bulletin, previous procedures may no longer be used.
- A new problem code, noted in the Warranty section of this Bulletin, must be used for these new procedures to cover requests already in process for the previous procedures. The computer cutoff date for the 708K code will be Dec. 5, 1983. Requests bearing the 708K problem code will be refused after that date.
- The list of affected models has been expanded.
- Pilot jets on all affected models (except XV920K, MK) must be replaced to ensure customer satisfaction. The replaced jets must be tagged and held for 90 days for warranty verification.
- Fuel tanks must be inspected on all affected models during predelivery, prior to filling the tank, turning on the petcocks, or starting the engine. This could prevent contaminants from entering the carburetor unnecessarily.

AFFECTED MODELS

1981 Models:

All XJ550H XJ550RH XJ550H XJ550LH
XJ750RH XJ1100H XJ1100H XJ1100SH

1982 Models:

All XJ540J XJ540R J XJ540S J XJ550J
XJ550R J XJ550S J XJ550L J XJ550LH
XJ560R J XJ560S J XJ750C XJ750R J
XJ750J XJ920J XJ920R J XJ1100J

SERVICE DEPT.	REG. ADV.	TECH.	LYTH.	SALES	SHOPS
OFFICE COPY	OFF. COPY	SALES	SALES	SALES	PAGE 1 OF 5

1983 Models:

XJ540K 128-100101 ~ 108324
XJ540RK 164-000101 ~ 051670
XJ540L 565-100101 ~ 102137
XJ550RK 408-100101 ~ 101155
XJ550RK All
XJ560K 546-080101 ~ 051302
XJ560L 162-100101 ~ 101155
XJ560S 514-100101 ~ 102148
XJ750K 228-000101 ~ 005285
XJ750MK 334-100101 ~ 103100
XJ750R 562-150101 ~ 103209
XJ750F 417-300101 ~ 304246
XJ750MK 20X-000101 ~ 003605
XJ920K 244-000101 ~ 004101
XJ920MK 271-000101 ~ 003105

SPECIAL TOOLS

The following special tools and materials are required for these procedures:

Exhaust Gas Analyzer
VCS Shut-off Tool (TM-08025)
Yamaha Carburetor Cleaner
(ACC-11001-43-00)
Fuel Level Gauge (TM-01312)
Fuel Level Gauge Adapter (TM-01327)
Slide Hammer Adapter (TM-33217-17)

PROCEDURES

Fuel Tank Inspection and Cleaning

NOTE: This procedure must be done before the engine is started to prevent any existing contaminants from entering the petcock and carburetors.

- Open the fuel tank cap and inspect the inside of the tank for rust. If no rust is apparent, resume normal predelivery. If rust is present, continue with this procedure.
- Remove the fuel tank and drain the fuel.

- Remove the petcock(s).
- Rinse the tank with parts cleaning solvent to remove loose rust.
- NOTE: To remove heavier rust deposits, place a handful of 8mm nuts in the tank with the cleaning solvent; gently shake the tank back and forth until the nuts dislodge the rust deposits. Remove the nuts and rinse.
- Clean the petcock filter(s).
- Reinstall the petcock(s), and reinstall the fuel tank.
- Drain the stale fuel from the carburetor float bowls.
- Initial fresh fuel in the tank, start the engine, and check the machine on the EGA.
- Test ride the machine to check for proper operation of various throttle openings and at idle.
- If carburetor problems are diagnosed, follow the procedures in the next section.

Carburetor Disassembly and Cleaning

- Remove the carburetors. Pay attention to the routing of cables and hoses; a simple sketch will assist you in reassembling the carbs.
- Using a 1/8-inch drill bit, drill the brass mixture-screw blind plugs and remove them with the slide hammer and adapter. Take care not to damage the mixture screws while drilling the plugs.
- For reference upon reassembly, gently turn the mixture screws in until lightly seated and record the number of turns. Then remove the screws along with their springs, washers, and O-rings.
- Number each float bowl and carb body for proper matching upon reassembly, and remove the float bowls.
- Remove the main jet and pilot jet from each carburetor.

CAUTION:

The pilot jets on XV920K and XV920MK models cannot be removed; they must be thoroughly cleaned on the carburetors.

CAUTION:

On some models, the jets are not interchangeable among all the carburetors. Make sure that all carb components are reinstalled in the carburetor from which they were removed. Refer to the chart at the end of this Bulletin.

- Remove the float pin, and remove the float and needle c/s on assembly from each carb.
- Remove the valve seat from each carburetor, taking care not to damage the attached screen.
- Remove the carb tops, springs, and slide/diaphragm assemblies. Make sure the diaphragms have no cracks or holes.
- Remove the main nozzles.
- Remove the enricher assemblies.

- Place the carb bodies right side up in a clean pan.
- Pour a mixture of one part Yamaha Carburetor Cleaner and three parts water into the pan until the level of the mixture is about 1/4-inch below the butterfly shafts; otherwise, the seals in the shafts may be damaged by the mixture.

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- Immerse the float bowls, jets, nozzles, needle valve assemblies, and mixture screws in the cleaner. Place each slide in its carb body to allow the jet needles to soak. In addition, squirt some cleaner into the mixture screw bores to help dissolve residue in the passages. Again, make sure the mixture doesn't reach the butterfly shafts.
- Allow the carburetor parts to soak for one hour.
- Use a fine wire to clear the choke passage in the float bowl. Verify that the passage is clear by squirting contact cleaner into the top of the passage and watching it appear from the bottom hole.
- NOTE: Compressed air will not remove all residue; a fine wire must be run through all jets and passages to ensure cleaning, and verify with contact cleaner.
- Run the wire through the main jet and main nozzles (and the pilot jets on XV920K and XV920MK models).
- Run the wire through the passage between the enricher plunger hole and the float bowl chamber.
- Finally, blow through each jet and passage with compressed air to remove any material remaining.
- Reassemble the carburetors using new pilot jets. Make sure all correct components go into each carburetor. Refer to the chart at the end of this Bulletin. Check all jet, nozzle, and needle sizes with the appropriate service data sheet. Tag and retain the pilot jets for 90 days.
- NOTE: The pilot jets in XV920K and XV920MK models are not removable; they must be thoroughly cleaned on the carburetor with a wire, and cleaning must be verified with contact cleaner and compressed air.
- Before reinstalling the carbs, install the fuel level gauge on each carb and fill the float bowls with gasoline through the fuel line, adjust the float arms as required to achieve the proper fuel level. Make sure all 4 pin screws on the float bowls face outward.
- Reinstall the carburetors on the motorcycle. Make sure the air cleaner joints are properly seated on the carbs and the air filter box, and the hoses and cables are properly routed.
- Synchronize the carburetors, set the idle speed, and set the mixture screws with the Exhaust Gas Analyzer. A chart containing the HC and CO specifications has been provided at the end of this Bulletin.
- Install new blind plugs.
- Test ride the machine and check for proper operation.

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS	DEALER CODE
ACC-11001-43-00	Yamaha Carburetor Cleaner	1 quart	
286-14142-43-A0	Pilot Jet #22.5	All XJ540K, XJ540H, RH, SJ	
400-14142-35-00	Pilot Jet #28	XJ550L, LH, LK	
400-14142-38-A0	Pilot Jet #28	All XJ550	
400-14142-43-00	Pilot Jet #22.5	All XJ9100; XJ540L, RH, K, RK	
400-14142-47-00	Pilot Jet #27.5	XJ1100J	
400-14142-40-A0	Pilot Jet #40	All XJ550	
417-14948-40-00	Pilot Jet #40	XJ560H, LH, J, RH, K; All XJ750 XV920H, SJ, J; All XV750	
417-14948-41-00	Pilot Jet #41	All XJ550	
28V-14991-40-00	Blind Plug	All XJ540C, XJ540, XJ540L, XJ540LH, XJ540LH, XJ540LH, XJ540LH	
3P9-14118-00-00	Blind Plug	All XJ540C, XJ540, XJ540L, XJ540LH, XJ540LH, XJ540LH, XJ540LH	
3J2-14118-00-00	Blind Plug	All XJ750, XV920	
3J2-14118-10-00	Blind Plug	All XJ750, XJ560H, LH, J, RH, K	

WARRANTY

Fuel Tank and Petcock Cleaning

The Problem Code for cleaning the fuel tank and petcock filters is 49; the job code is 3001. The warranty labor allowance for this procedure are 0.5 hours for twin- and four-cylinder models, and 0.5 for turbo models. To receive credit, follow standard warranty request procedures. Do not replace a fuel tank without prior Warranty Department authorization.

Carburetor Disassembly and Cleaning

The Problem Code for carburetor disassembly and cleaning is also 49; the job code is 3050. The warranty labor allowance for this procedure are 1.0 hour for in-line twin-cylinder models, 2.0 hours for V-twin, 3.0 hours for four-cylinder models, and 4.0 hours for turbo models. To receive credit, follow standard warranty request procedures.

Do not use any other codes for these procedures. Be sure to enter the part numbers on the request for the pilot jets used. Prior authorization by your RTA is required for registered units; otherwise the request will be refused.

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HC AND CO SPECIFICATIONS		

MODEL	MAX. CO (%)	MAX. HC (PPM)	BT CO (%)	IDLE RPM ± 50
XJ400L BJ, K, R*	3.0	500	3.0	1200
XJ400H, SH, SJ	5.0	500	2.0	1200
XJ550 (all)*	7.0	400	4.0	1200
XJ550 (all)	6.0	500	2.0	1300
XJ600H, LH, J, LJ*	8.0	500	3.0	1050
XJ600J	6.0	500	3.0	1050
XJ650K, LK*	8.0	500	3.0	1050
XJ650 (all)	6.0	500	3.0	1050
XJ750RH, J, RJ*	6.0	500	3.0	1050
XJ750K, MK, BK*	6.0	500	3.0	1050
XV750H, J, R, MK	7.0	500	3.0	1000
XV920RH, J, RJ, K	6.0	500	2.0	1000
XJ1100 (all)	3.0	500	2.0	1100
XJ1100J*	6.0	500	3.0	1100

*On these models, the TICS Shut-off Inlet (YM-08025) must be used to achieve the correct readings.

MODELS WITH DIFFERING CARBURETOR COMPONENTS

Pay special attention to the following carburetor during reassembly; they have main jets

Main Jets

XV920RH, RJ	Front: 124	Rear: 126
XV920LJ, K, MK	Front: 128	Rear: 126
XJ650LJ, LK	Cyls 1 & 4: 127.5	Cyls 3 & 5: 127.5
XJ650RJ	Front: 122.5	Rear: 127.5
XJ400LJ, K	Right: 115	Left: 125
XJ400RJ, RK	Right: 117.5	Left: 127.5

and/or jet needles which vary in size from one cylinder to another.

Jet Needles

XV920K	Front: Y-30	Rear: Y-31
XV920J	Front: Y-34	Rear: Y-25
XV750LJ, K, MK	Front: Y-22	Rear: Y-23

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TWIN- AND FOUR-CYLINDER MODELS FUEL TANK RUST REMOVAL

The rust removal procedure presented in Technical Bulletin M83-007B is no longer to be used. If an affected unit has severe fuel tank rust, follow the procedure detailed here. This new procedure is easy to perform, removes rust extremely well, and does not require sealing the tank or other use. It does not harm paint, rubber, or plastic parts. In addition, the warranty labor allowance for rust removal has been increased from 0.3 to 0.7 hours.

This procedure must be done before an unused affected unit is started to prevent any contaminants from entering the petcocks and carburetors.

SPECIAL MATERIALS REQUIRED

Yamaha Fuel Tank Conditioner Kit (ACC-11001-44-00, contains Rust Remover and Neutralizer).

PROCEDURE

1. Remove the fuel tank and drain the fuel.
2. Fill the tank about half full with water. Very carefully pour 16 oz. of Yamaha Fuel Tank Rust Remover into the water in the tank. Then add enough water to fill the tank completely. Replace the gas cap and agitate tank to mix the solution, and then remove the gas cap.

CAUTION

Leaving the gas cap on for more than one minute could cause a dangerous pressure buildup in the fuel tank.

3. Set the tank down so that its filler hole is at the highest point.
4. Allow the tank to sit containing this solution for one to four hours, depending on the severity of the rust.
5. Drain the Yamaha Fuel Tank Rust Remover from the tank, and dispose of it properly. Although most of the solution can be drained through the filler hole, the petcocks should be removed to drain completely.
6. Rinse the tank twice with clean water. If available, a pressure washer works extremely well for this.
7. Pour 16 oz. of Yamaha Rust Remover Neutralizer into the tank. Rotate the tank in order to coat the entire inside surface. Drain the tank and allow the inside to dry completely. Yamaha Rust Remover Neutralizer will coat the inside and absorb any remaining moisture.

8. Install the petcocks and put about one gallon of gasoline into the tank.

NOTE: Rust will return only if the tank is not coated properly with Yamaha Rust Remover Neutralizer, allowing moisture to remain in the

AFFECTED UNITS

1981 MODELS

All XJ650H	XJ650H	XJ1100H
XJ650RH	XJ650LH	XJ1100LH
	XJ750RH	XJ1100SH

1982 MODELS

All XJ600J	XJ600J	XJ650J
XJ600RJ	XJ650RJ	XJ650LJ
XJ600SJ	XJ600SJ	XJ650SJ
	XJ750J	XV920J
	XJ750RJ	XV920RJ
	XV750J	XJ1100J

1983 MODELS

XJ400K	12R-100101 ~ 105321
XJ400RK	16M-100101 ~ 061670
XV900K	All
XJ550K	14S-100101 ~ 102137
XJ550RK	14S-100101 ~ 101156
XJ550RH	All
XJ600K	04S-000101 ~ 051302
XJ650LJ	16G-100101 ~ 101106
XJ650RK	0V4-100101 ~ 107618
XJ750K	22R-000101 ~ 005085
XJ750RK	33N-100101 ~ 103100
XJ750RJ	5G2-100101 ~ 152209
XV750K	4X7-300101 ~ 304344
XV750V	27X-000101 ~ 003606
XV920K	34M-000101 ~ 001701
XV920RJ	27Y-000101 ~ 003106

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SERVICE CODE	REP. CODE	MECH.	MECH.	MECH.	MECH.
OFFICE CODE	QTY. CODE	SALES	PARTS	BOOKS	PAGE 1 OF 2

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tank. Gasoline in a properly treated tank will eliminate this possibility.

NOTE: Some fuel tanks have a small amount of fuel residue accumulated in the very bottom of

the tank. This is a black, solid substance caused by evaporated fuel and is not removed by this cleaning procedure. There is no rust under this substance and it is not dissolved by gasoline, so it will cause no problems.

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS	DEALER COST
ACC-11001-44-00	Yamaha Fuel Tank Conditioner Kit	Kits must be ordered in multiples of six; each kit consists of one 16-oz. bottle of Yamaha Fuel Tank Rust Remover and one 16-oz. bottle of Yamaha Rust Remover Neutralizer.	

WARRANTY

The warranty labor allowance for this procedure is 0.7 hours; enter the time under "Extra Labor." The problem code is 49. To receive credit, file a standard warranty request. This request may

be combined with one for the carburetor disassembly and cleaning procedure described in Technical Bulletin M83-007A.

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Enter the number of hours
described in the figure.

0.7
HOURS

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