



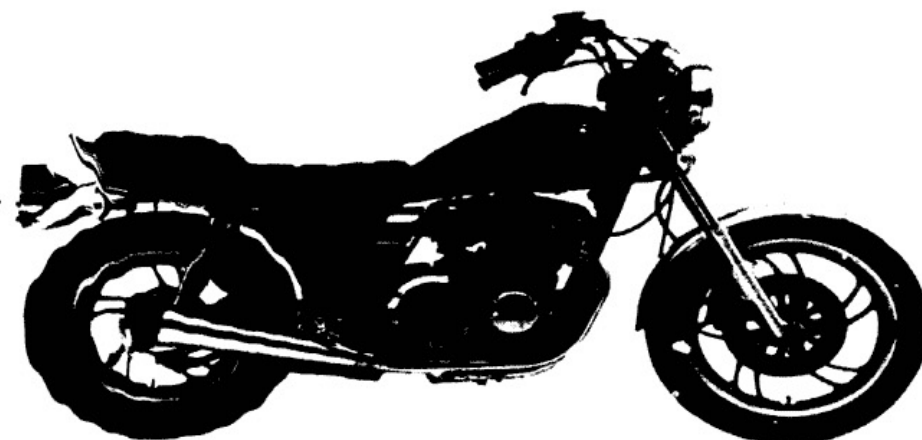
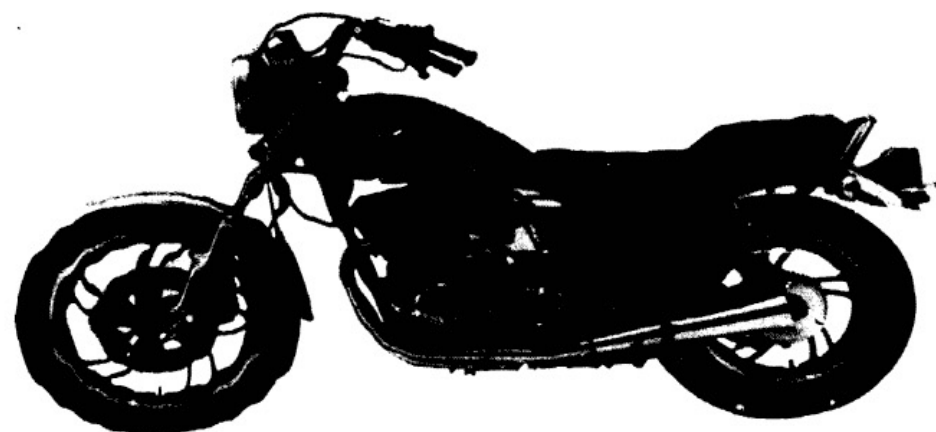
YAMAHA

PARTS CATALOGUE

MODEL YEAR 1980 XJ650G (4H7)

(FAMILY NAME 80J65)

(A) Frame Serial No.	4H7-000101 and following
(B) Engine Serial No.	4H7-000101 and following



MODEL - IBM I.D. NUMBER	XJ650G - B	XJ650G - R	4H7
Initial Engine Number / Frame Number	4H7-000101 / 4H7-000101		
Basic Color(s)	Black Gold (B) New Ruby Red (R)		
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.)		
Dry Vehicle Weight	203 kg (447 lbs.)		
ENGINE TYPE	4-Stroke, Air Cooled, Parallel Four		
Bore / Stroke / Number Cylinders / Displacement cc	63mm / 52.4mm / 4 / 653cc		
Compression Ratio/Compression Pressure Min ~ Max	9.2:1 / NA		

PUBLICATION	PART NUMBER	REMARKS
OWNER'S MANUAL	LIT 11626-01-94	
SERVICE MANUAL	LIT 11616-01-94	
ASSEMBLY MANUAL	LIT 11666-01-94	
CONSUMER INFORM.	LIT 11656-01-94	
LEAFLET	LIT	
DEALER ASS'Y & PRE-DELIVERY CHECKLIST	LIT 12588-00-78	

A1



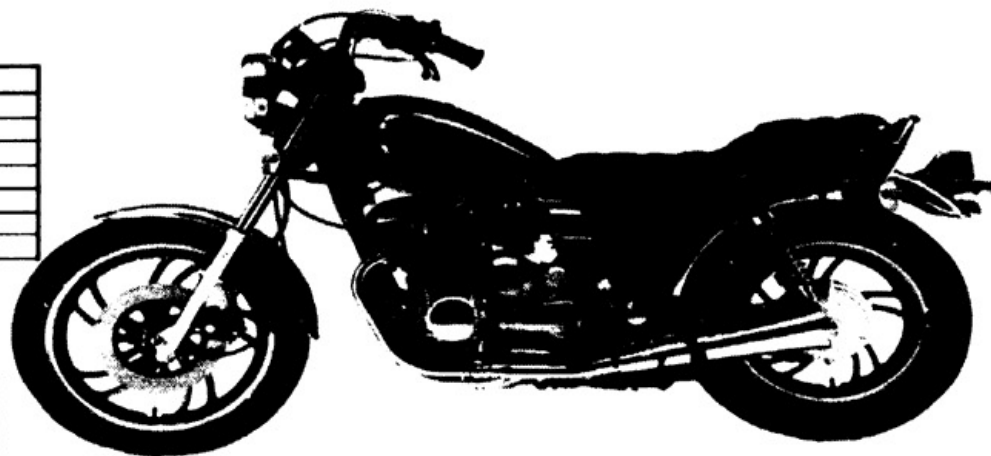
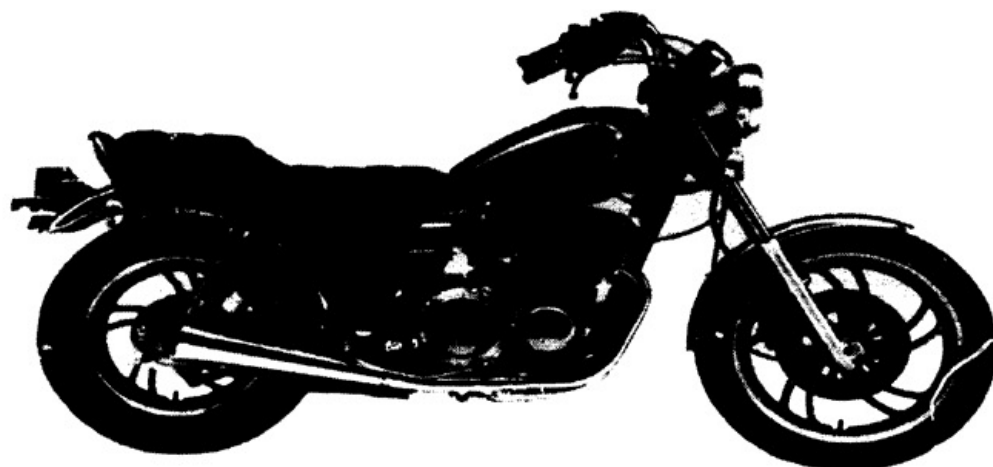
YAMAHA

PARTS CATALOGUE XJ650H (4H7) MODEL YEAR 1981

(A) Frame Serial No.	4H7-100101 and following
(B) Engine Serial No.	4H7-100101 and following

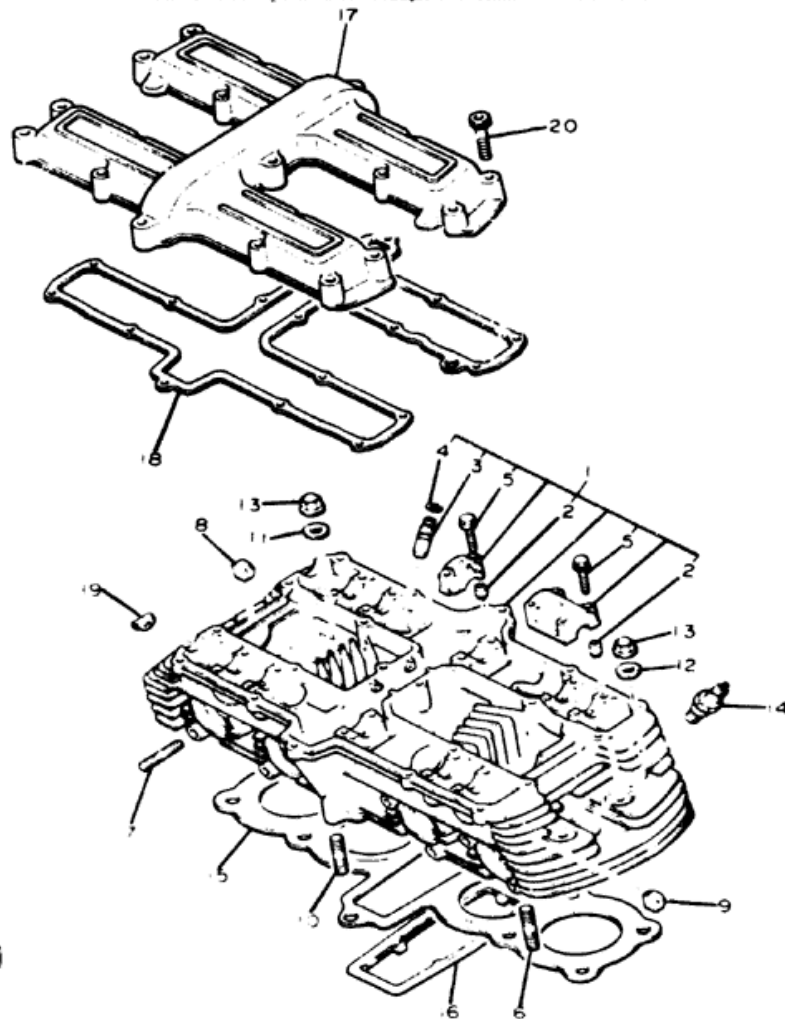
MODEL - IBM I.D. NUMBER	XJ650H-B	XJ650H-S	4H7
Initial Engine Number / Frame Number	4H7-100101 / 4H7-100101		
Basic Color(s)	Black Red (B)	Frost Silver (S)	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.)		
Dry Vehicle Weight	203 kg (447 lbs.)		
ENGINE TYPE	4-Stroke, Air-Cooled, Parallel Four		
Bore/Stroke/Number Cylinders/Displacement (cc)	63mm / 52.4mm / 4 / 653cc		
Compression Ratio/Compression Pressure Min~Max	9.2:1 / NA		

PUBLICATION	PART NUMBER	REMARKS
OWNER'S MANUAL	LIT-11626-02-32	
SERVICE MANUAL	LIT-11616-01-94	SAME AS XJ650G
ASSEMBLY MANUAL	LIT-11666-01-94	SAME AS XJ650G
CONSUMER MANUAL	LIT-11656-02-32	
LEAFLET	LIT-11119-02-16	



CYLINDER HEAD

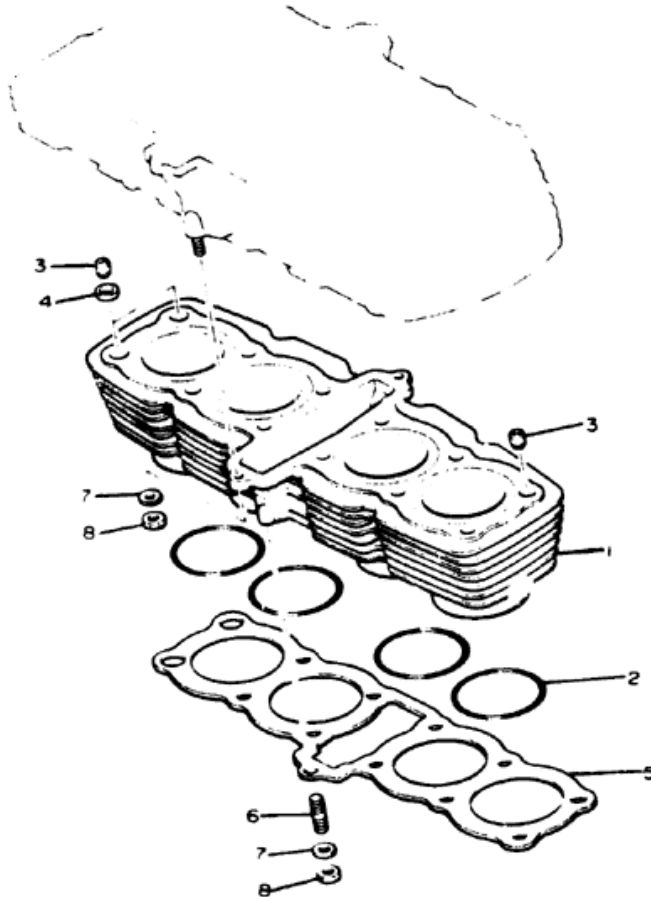
Spark Plug Type	NGK BP 7ES or Nippon Denso W22EP
Spark Plug Gap	0.7-0.8mm 2.8 mm
Torque	Cyl 1st 18 N·m 13 ft·lb
Cap 12	Cyl 2nd 18 N·m 13 ft·lb



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-11110-00-00	CYLINDER HEAD ASS'Y	1	
2	91810-18016-00	. PIN, 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	95621-08325-00	BOLT, stud	1	
7	95611-06630-00	BOLT, stud	8	
8	434-11161-00-00	ABSORBER 1	8	
9	4H7-11161-00-00	ABSORBER 1	14	
10	95621-08330-00	BOLT, stud	1	
4H7-W0001-00-XX TOP END GASKET KIT				See Grid G1 for kit Component Parts
11	90201-11597-00	WASHER, plate	10	
12	90201-10128-00	WASHER, plate	2	
13	90179-10277-00	NUT	12	
14	NGK-BP7ES-00-00	PLUG, spark (94701-00117)	U.R.	
15	4H7-11181-02-00	GASKET, cylinder head 1	1	
16	4H7-11355-00-00	SEAL, cylinder 1	1	
17	4H7-11191-00-00	COVER, cylinder head 1	1	
18	4H7-11193-00-00	GASKET, head cover 1	1	
19	1J7-11138-00-00	PLUG	2	
20	91311-06035-00	BOLT	20	

CYLINDER

Bore	Stroke	Number Cylinders	Displacement cc	65mm	52.4mm	4	863cc
Compression Ratio	Compression Pressure Min ~ Max			9.2:1	NA		



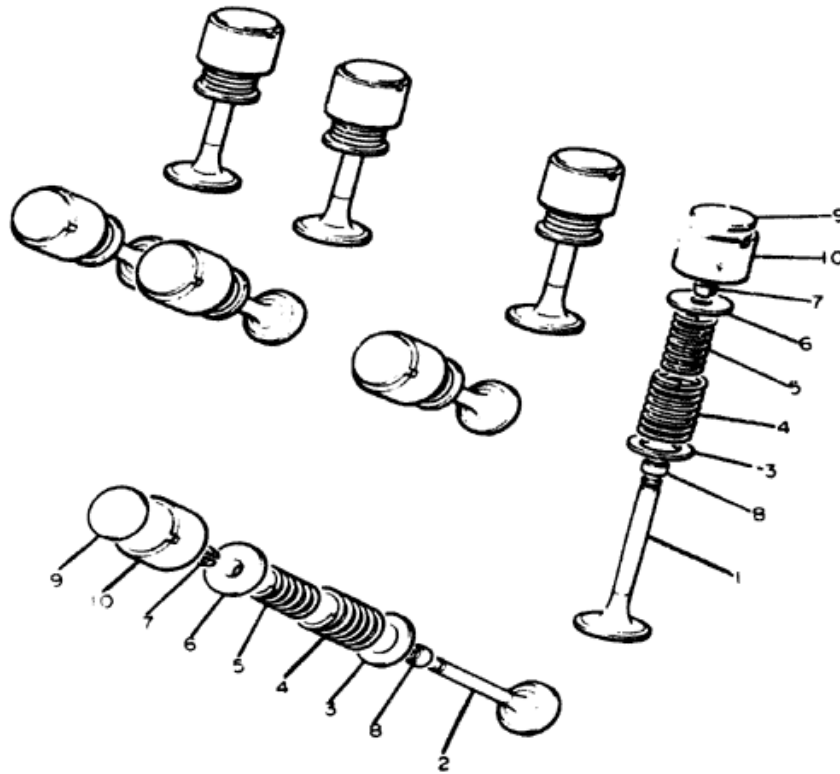
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-11310-00-00	CYLINDER	1	
2	93210-69434-00	O-RING	4	
3	91830-24016-00	PIN, dowel	4	
4	90430-14131-00	GASKET	2	
5	4H7-11351-00-00	GASKET, cylinder	1	
6	95621-08330-00	BOLT, stud	1	
7	90201-08382-00	WASHER, plate	3	
8	95311-08600-00	NUT	3	



Initial Engine Number	Frame Number	4H7-000101	4H7-000101
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VALVE

Valve Clearance (Cold) Intake	Exhaust	0.11 ~ 0.15mm	0.18 ~ 0.20mm
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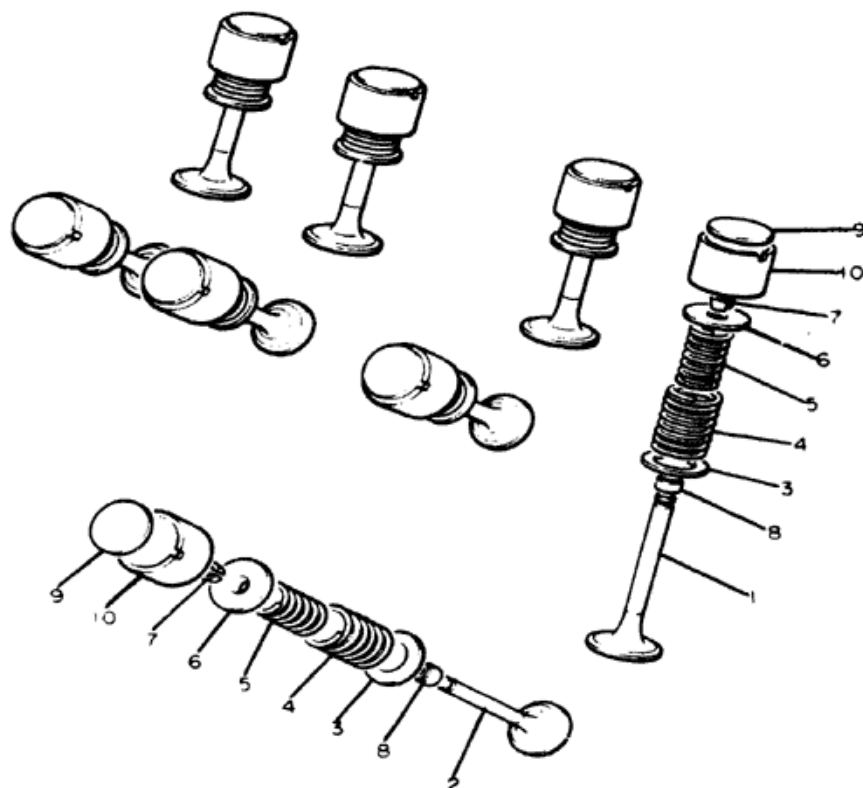
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-12111-00-00	VALVE, intake	4	
2	4H7-12121-00-00	VALVE, exhaust	4	
3	4H7-12116-00-00	SEAT, valve spring	8	
4	4H7-12114-00-00	SPRING, valve outer	8	
5	4H7-12113-00-00	SPRING, valve inner	8	
6	2F3-12117-00-00	RETAINER, valve spring	8	
7	1J7-12118-00-00	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.
	1J7-12169-91-00	PAD, adjusting (2.45)	8	U.R.
	1J7-12169-A1-00	PAD, adjusting (2.50)	8	U.R.

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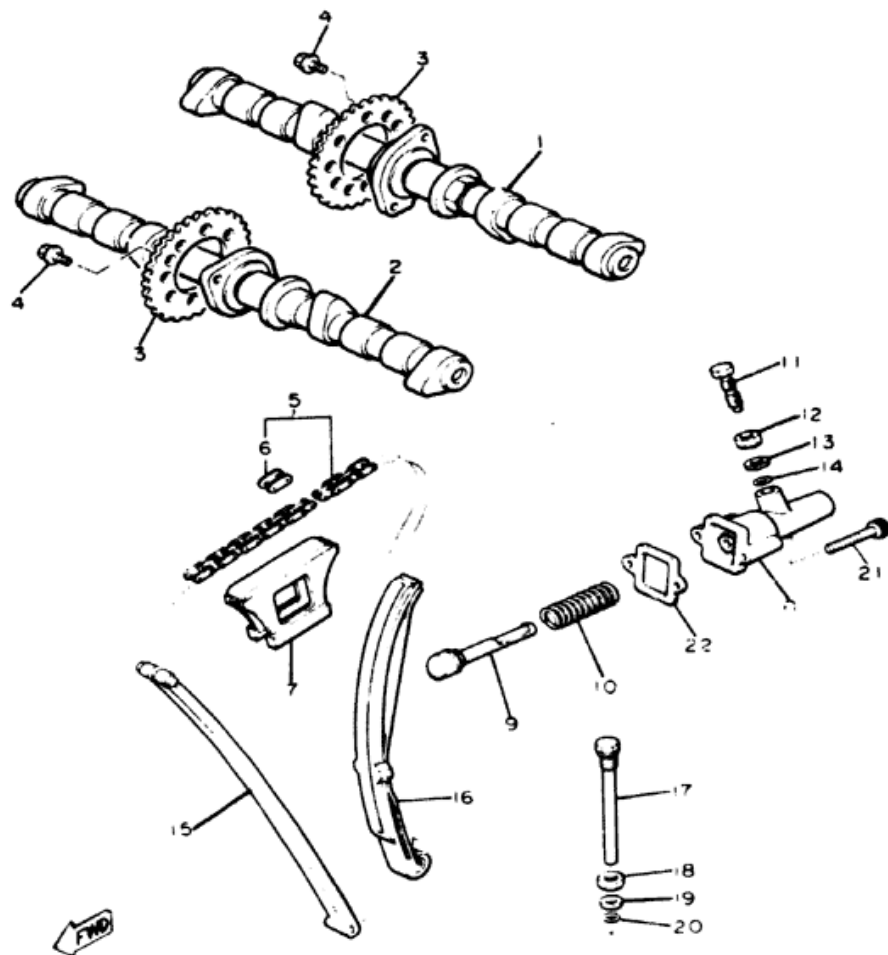
VALVE

Ref. No.	Part Number	Description	Qty.	Remarks
	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.
	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	0.11 ~ 0.15mm / 0.16 ~ 0.20mm
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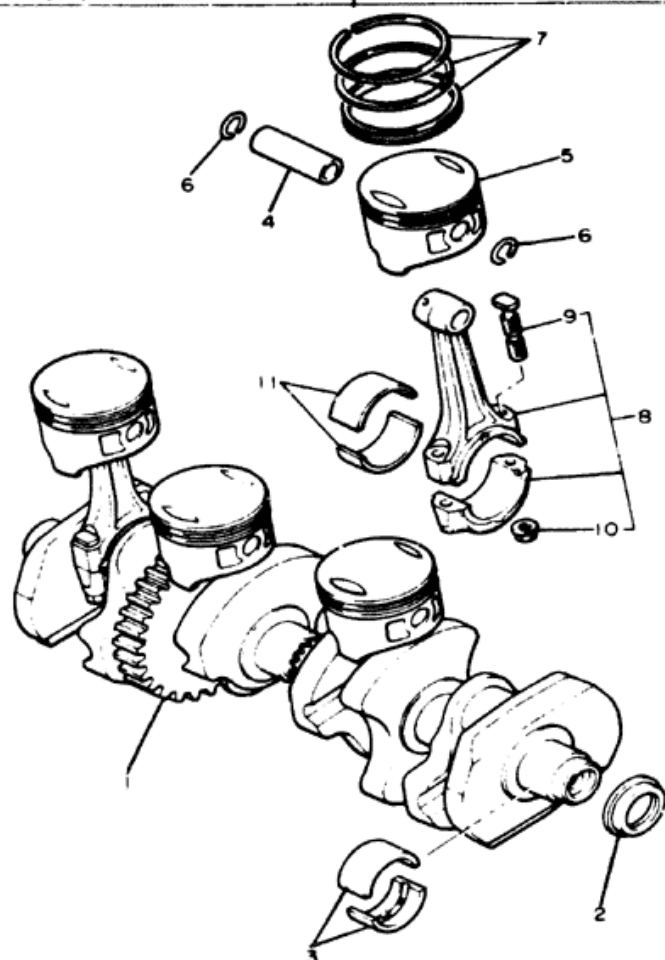
CAMSHAFT · CHAIN



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-12171-00-00	CAMSHAFT 1	1	
2	4H7-12181-00-00	CAMSHAFT 2	1	
3	4H7-12176-01-00	SPROCKET, cam chain (32T) ...	2	
4	90105-07087-00	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	4H7-12212-00-00	CASE, chain tensioner	1	
9	4H7-12217-01-00	ROD, 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	BOLT	2	
22	4H7-12213-00-00	GASKET, tensioner case	1	

CRANKSHAFT · PISTON

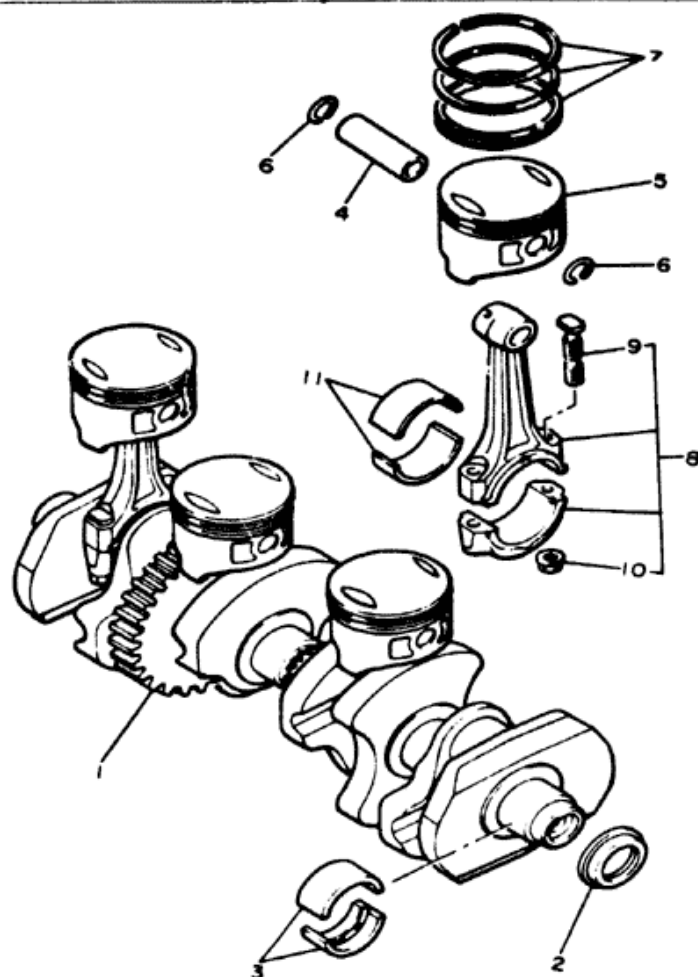
Piston Skirt Clearance New / Max	0.030 ~ 0.050mm / 0.1mm
Ring End Gap Top / 2nd / 3rd	0.15 ~ 0.35mm / 0.15 ~ 0.35mm / 0.3 ~ 0.5mm



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-11411-10-00	CRANKSHAFT (4H7-11411-01)	1	
2	93101-32088-00	OIL SEAL	1	
3	4H7-11416-01-00	PLANE BEARING, crankshaft 1	10	U.R.
	4H7-11416-11-00	PLANE BEARING, crankshaft 1	10	U.R.
	4H7-11416-21-00	PLANE BEARING, crankshaft 1...	10	U.R.
	4H7-11416-31-00	PLANE BEARING, crankshaft 1	10	U.R.
	4H7-11416-41-00	PLANE BEARING, crankshaft 1	10	U.R.
4	4H7-11633-00-00	PIN, piston	4	
5	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
6	93450-17044-00	CIRCLIP	8	
7	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
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 · PISTON

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 ~ 0.5mm



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

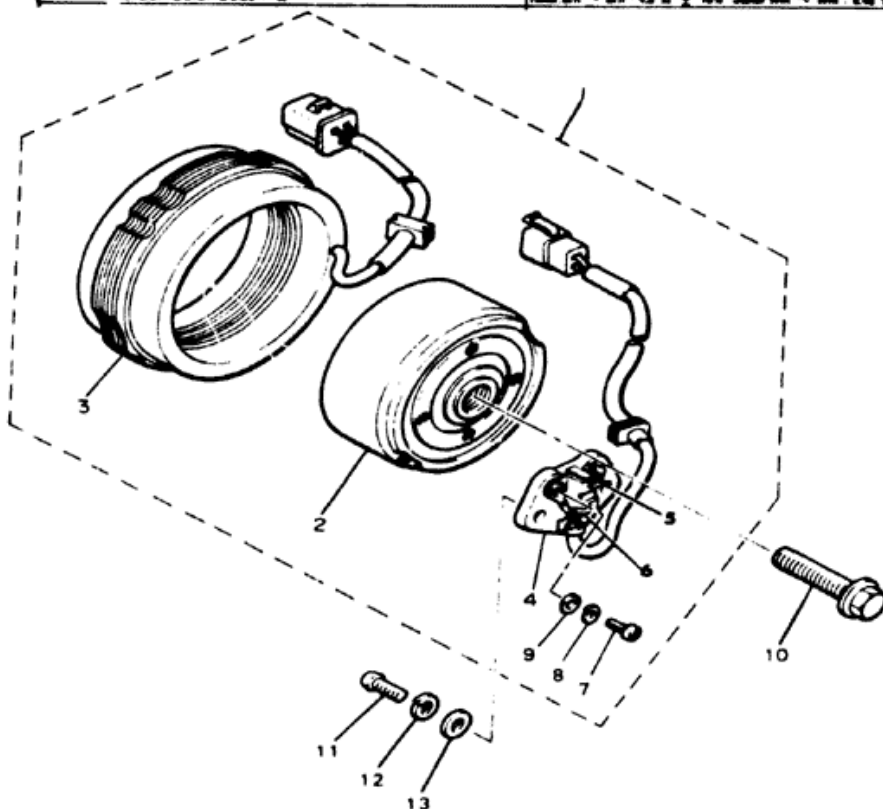
CONNECTING ROD BEARING SELECTION

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

A · C · GENERATOR

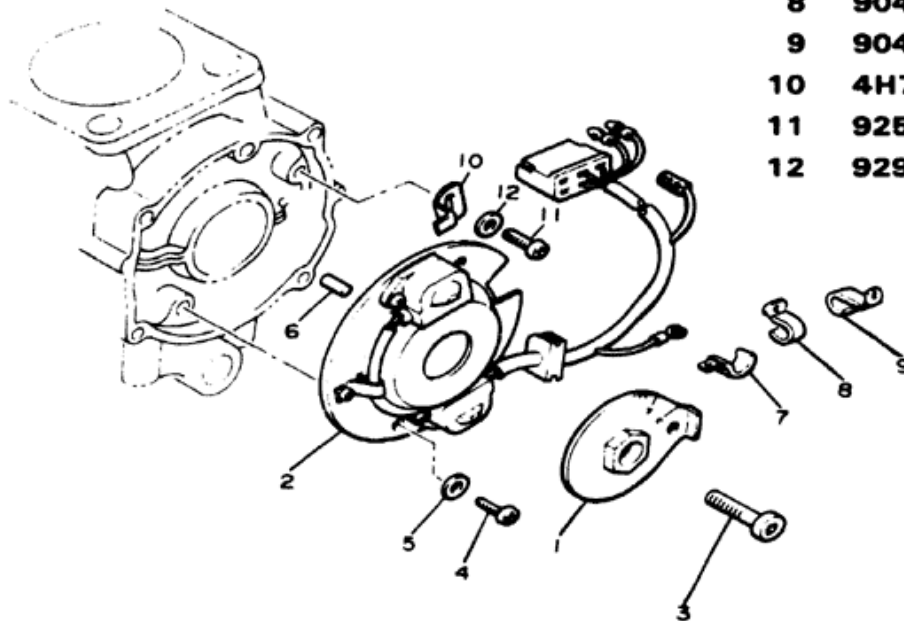
CHARGING SYSTEM	
Battery Model / Specific Gravity / Chg. Rate	AC Generator - 3 Phase - Full Wave
Maximum Output	Nissai 12N12A 4A 1 (12V/12AH) / 1.25 / 1.2A
TROUBLESHOOTING	14V19A @ 5000 rpm
Fr. 4 Coil Color Code - 9	Rotor Gr. ~ 2m - 4.8 Ω ± 10% Stator Wt. ~ 90m 8.6 Ω ± 10%



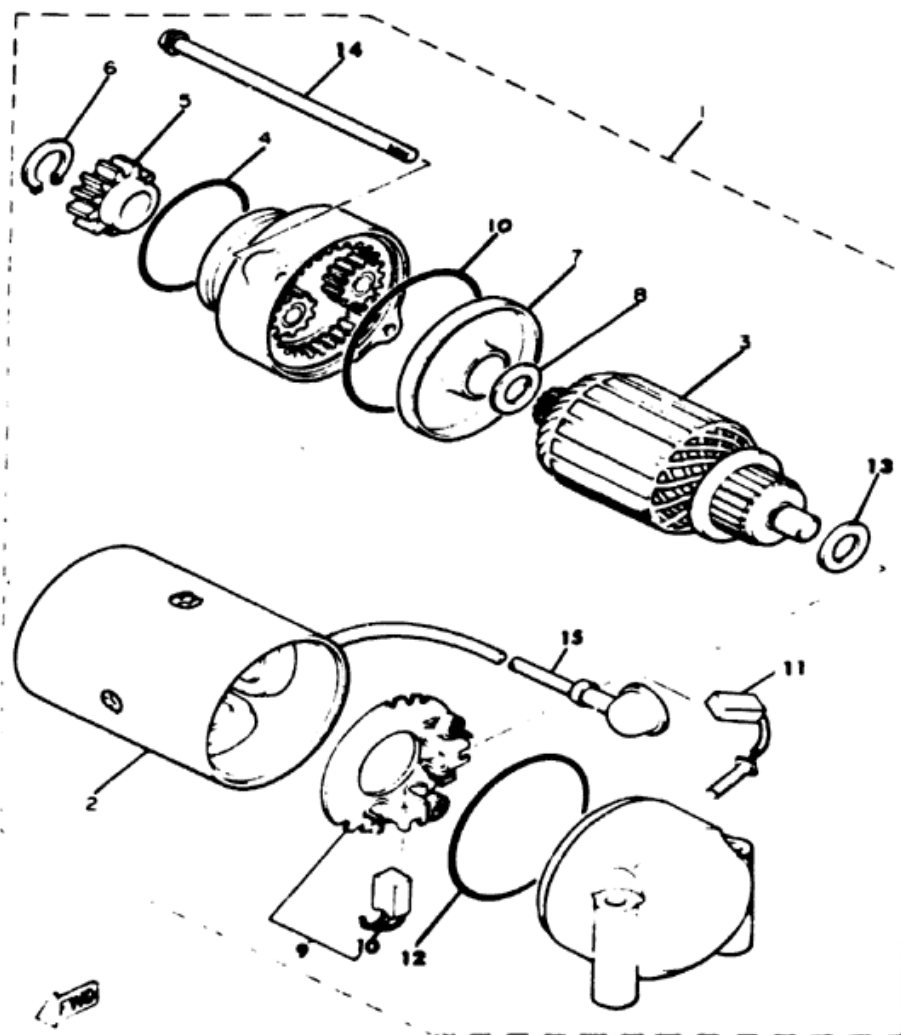
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81600-10-00	A.C. GENERATOR ASS'Y.....	1	
2	4H7-81650-10-00	. ROTOR ASS'Y	1	
3	4H7-81610-10-00	. STATOR ASS'Y.....	1	
4	4H7-81619-10-00	. BRUSH HOLDER ASS'Y.....	1	
5	4H7-81611-10-00	. BRUSH 1	1	
6	4H7-81612-10-00	. BRUSH 2	1	
7	98501-04012-00	. SCREW, 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	92503-06015-00	SCREW, pan head (92502-06016)	2	
12	92903-06100-00	WASHER, spring (92902-06100)	2	
13	92901-06600-00	WASHER (92902-06600)	2	

PICKUP COIL · GOVERNOR

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81673-10-00	ROTOR	1	
2	4H7-81671-10-00	BASE, pickup	1	
3	91316-08030-00	BOLT	1	
4	92503-06012-00	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	2	
8	90465-08156-00	CLAMP	1	
9	90465-12159-00	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	

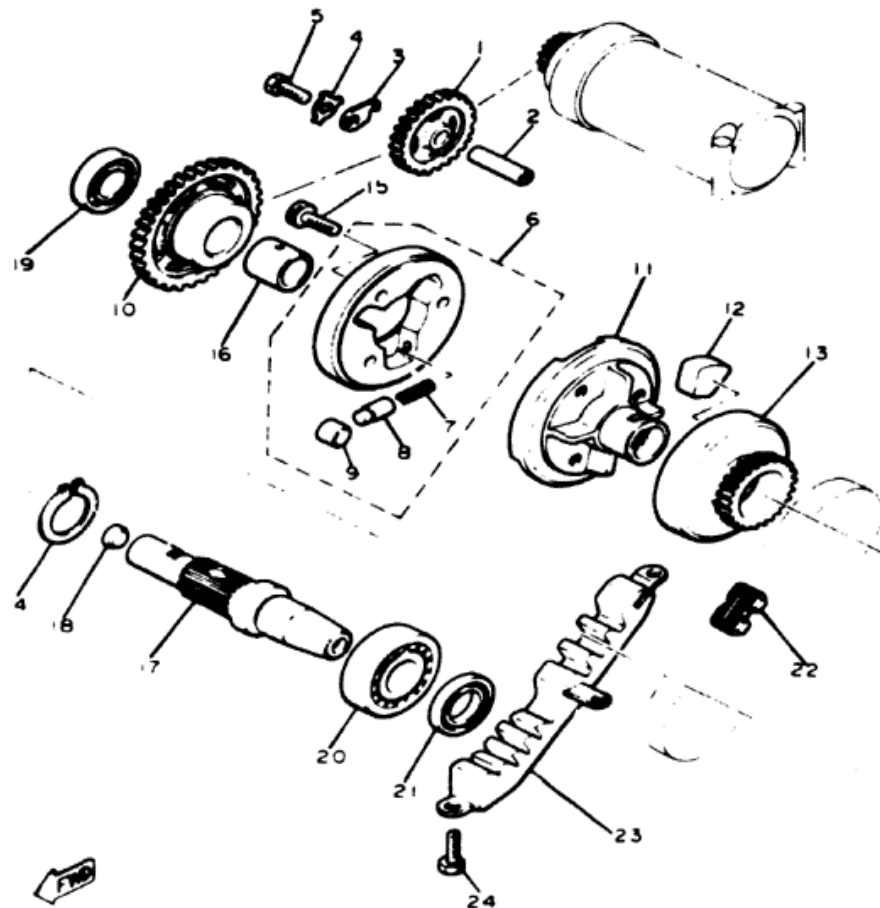


STARTING MOTOR



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81800-50-00	STARTING MOTOR ASS'Y	1	
2	4H7-81810-01-00	. STATOR ASS'Y (4H7-81810-00)	1	
3	4H7-81850-00-00	. ARMATURE ASS'Y	1	
4	4H7-81847-00-00	. 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	4H7-81840-00-00	. BRUSH HOLDER ASS'Y	1	
10	4H7-81811-00-00	. BRUSH 1	1	
11	4H7-81812-00-00	. BRUSH 2	1	
12	4H7-81844-00-00	. GASKET	2	
13	4H7-81824-00-00	. WASHER 2	1	
14	4H7-81826-01-00	. BOLT (4H7-81826-00)	2	
15	4H7-81815-00-00	. LEAD WIRE ASS'Y	1	

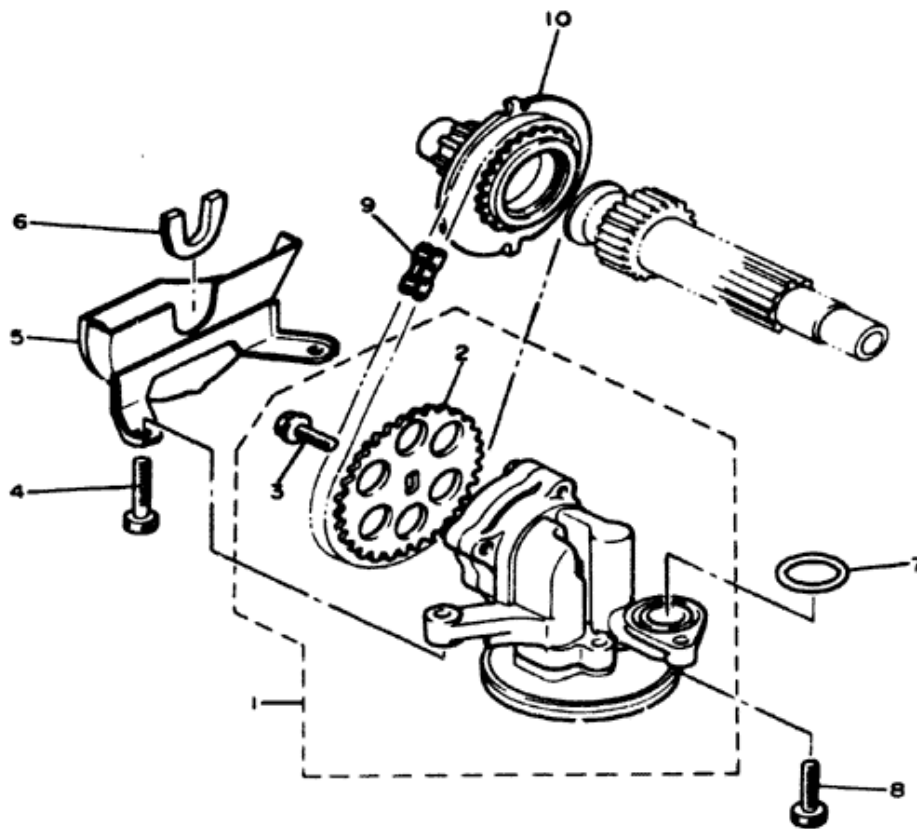
STARTER CLUTCH

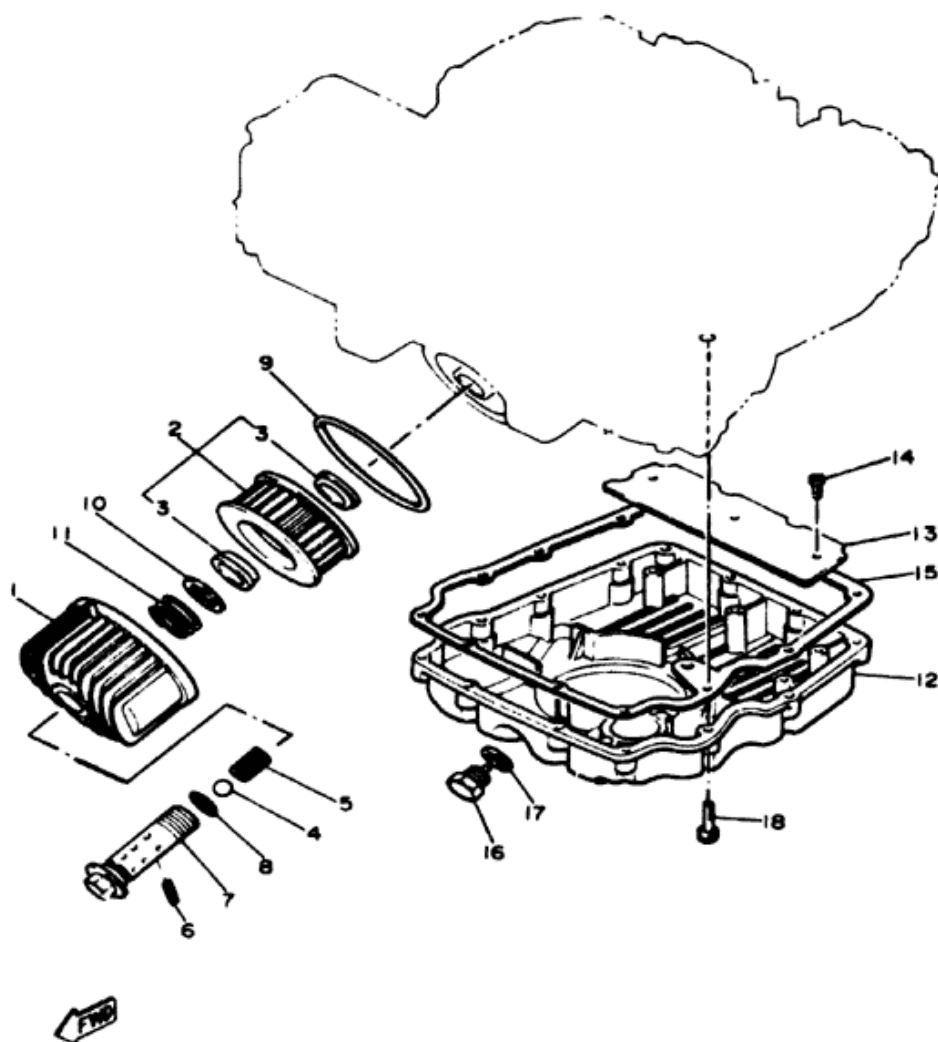


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-15512-00-00	GEAR, idler 1	1	
2	4H7-15521-00-00	SHAFT 1	1	
3	2H7-15531-00-00	PLATE, stopper	1	
4	90215-06040-00	WASHER, lock	1	
5	97301-06016-00	BOLT (97301-06015)	1	
6	4H7-15580-00-00	STARTER CLUTCH OUTER ASS'Y	1	
7	90501-04596-00	. SPRING, compression	2	
8	341-15583-05-00	. CAP, starter clutch spring (341-25583-04)	3	
9	93615-12088-00	. PIN, dowel	3	
10	4H7-15517-00-00	GEAR, idler 2	1	
11	4H7-15524-00-00	WHEEL, starter	1	
12	4H7-16155-00-00	ABSORBER 1	8	
13	4H7-15519-00-00	SPROCKET, starter 2	1	
14	93410-32052-00	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	

OIL PUMP

Ref. No.	Part Number	Description	Qty.
1	5G2-13300-00-00	OIL PUMP ASS'Y (4H7-13300-00)	1
2	4H7-13355-00-00	. SPROCKET, driven (38T).....	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	92210-18319-00	O-RING	1
8	91316-06025-00	BOLT	1
9	94580-25066-00	CHAIN	1
10	4H7-13364-00-00	SPROCKET, drive (25T)	1





OIL CLEANER

Ref. No.	Part Number	Description	Qty.
1	4H7-13447-00-00	COVER, oil element.	1
2	1L9-13440-91-00	ELEMENT, oil cleaner (1L9-13440-90)	1
3	90480-23193-00	. GROMMET	2
4	93501-02018-00	BALL	1
5	90501-12413-00	SPRING, compression	1
6	91609-20018-00	PIN, spring	1
7	1L9-13340-01-00	BOLT, union	1
8	93210-16325-00	O-RING	1
9	93210-88324-00	O-RING	1
10	90201-21608-00	WASHER, plate	1
11	90501-20422-00	SPRING, compression	1
12	4H7-13417-01-00	COVER, strainer.	1
13	4H7-13337-00-00	PLATE, baffle lower.	1
14	92503-06010-00	SCREW, pan head (92501-06010)	3
15	4H7-13414-00-00	GASKET, strainer cover	1
16	90340-14042-00	PLUG, straight screw	1
17	214-11198-01-00	GASKET	1
18	91316-06030-00	BOLT	13

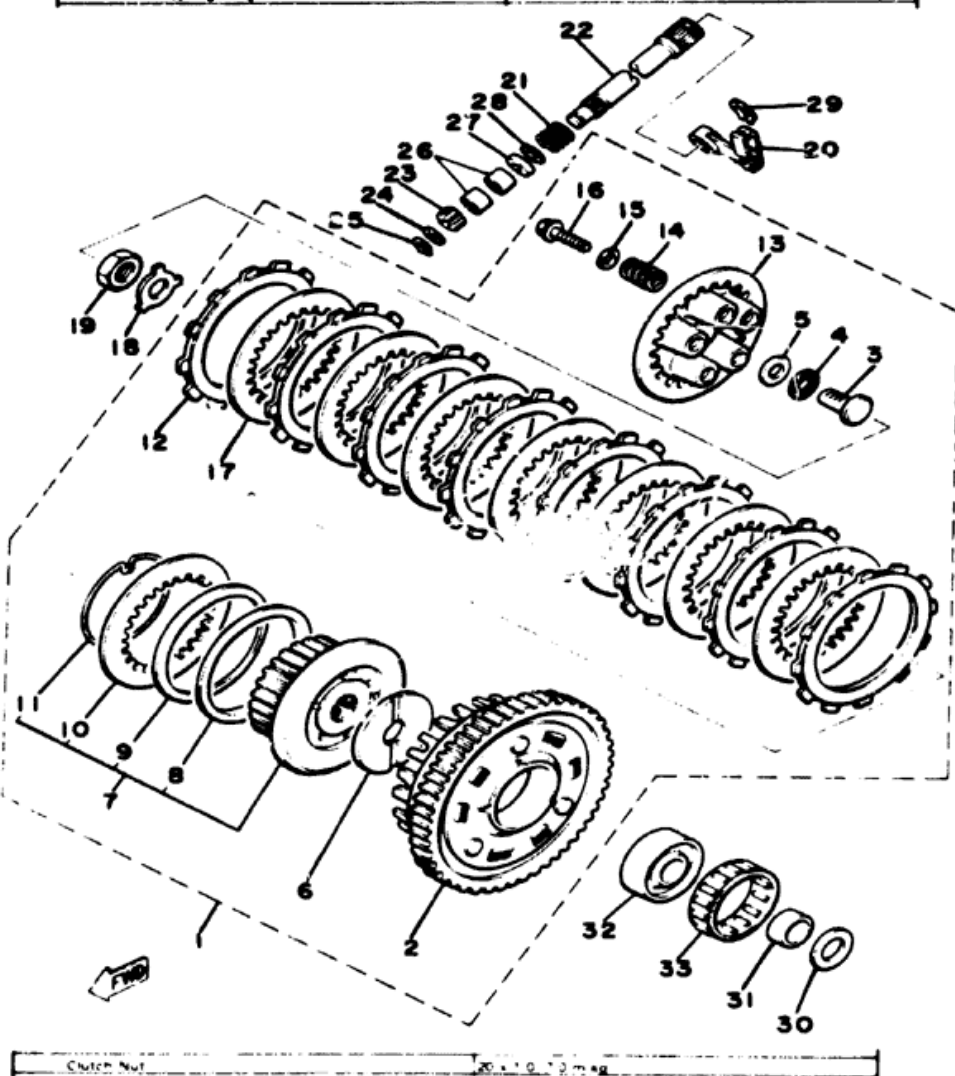
B-6

This exploded view diagram illustrates the assembly of a mechanical component, likely a gearbox or clutch. The parts are numbered 1 through 33. The main assembly consists of a series of gears (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33) mounted on shafts (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33). The diagram shows the relative positions and assembly sequence of the components, including the housing (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33) and the output shaft (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33).

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	
18	90215-20170-00	WASHER, lock.....	1	

CLUTCH

Clutch Friction Plate Thickness Std ~ Min	30 ~ 28mm
Clutch Spring Length Std ~ Min	401 ~ 381mm

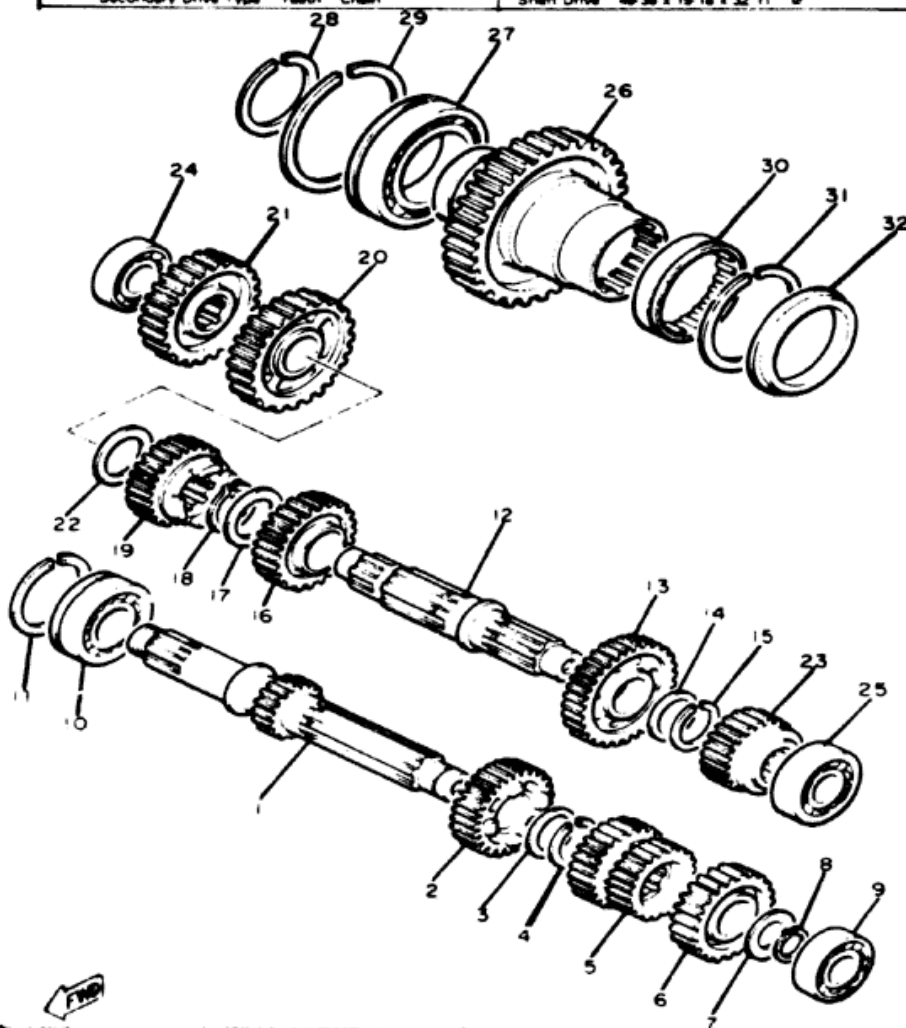


Ref. No.	Part Number	Description	Qty.	Remarks
19	90170-20257-00	NUT.....	1	
20	4H7-16340-00-00	PUSH LEVER ASS'Y.....	1	
21	90508-13459-00	SPRING, torsion.....	1	
22	4H7-16382-00-00	AXLE, push lever.....	1	
23	4H7-16398-00-00	PINION, release (16T).....	1	
24	92901-08600-00	WASHER, plate.....	1	
25	93430-07012-00	CIRCLIP.....	1	
26	93317-11020-00	BEARING, cylindrical.....	2	
27	93109-10023-00	OIL SEAL.....	1	
28	90201-10119-00	WASHER, plate.....	1	
29	93430-09035-00	CIRCLIP.....	1	
30	2K7-16154-00-00	PLATE, thrust 1.....	1	
31	90387-252A8-00	COLLAR.....	1	
32	4H7-16181-00-00	SPACER 1.....	1	
33	93310-365H3-00	BEARING, cylindrical.....	1	

TRANSMISSION

TRANSMISSION	Oil Type	Qty	Chg.	Qty	Reassemble
Primary Drive Type	Teeth	Ratio			
Secondary Drive Type	Teeth	Chain			

Spur Gears 97 58 1 672
Shaft Drive 49 38 x 19 18 x 32 11 e

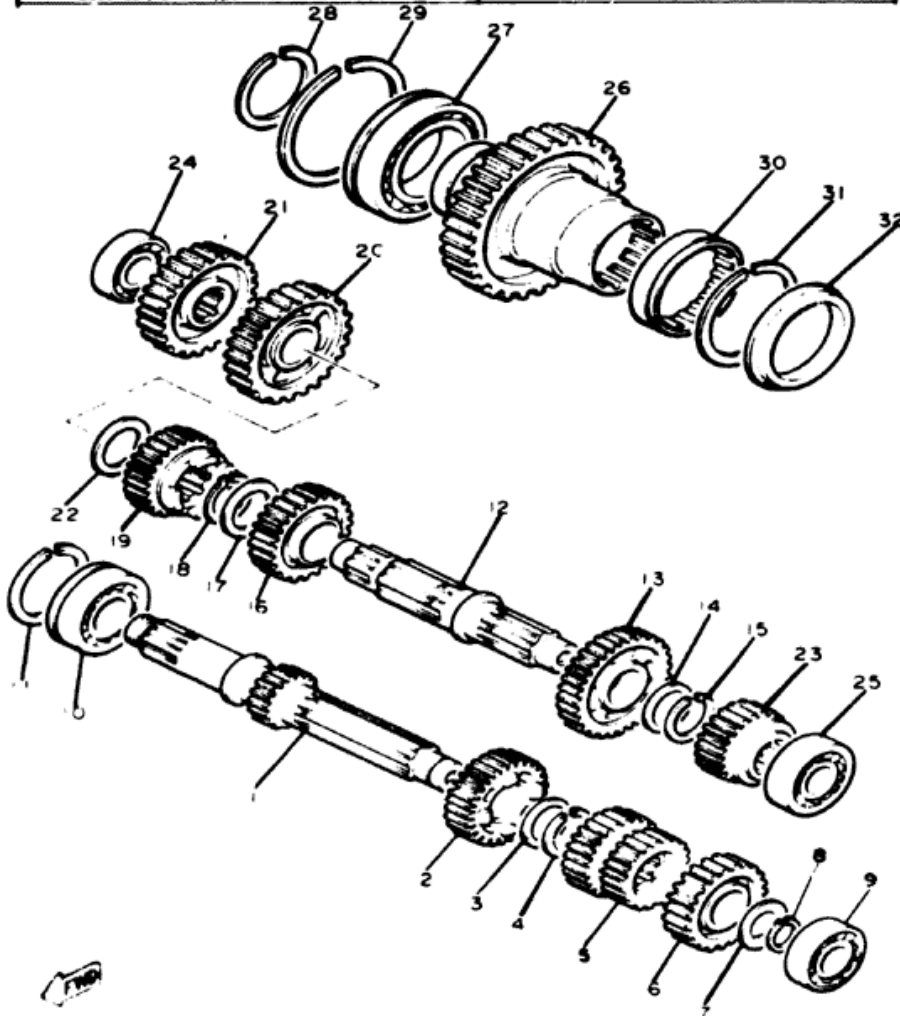


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-17401-00-00	MAIN AXLE ASS'Y	1	
2	4H7-17141-00-00	GEAR, 4th pinion (30T)	1	
3	90209-22191-00	WASHER	1	
4	93440-25019-00	CIRCLIP	1	
5	4H7-17121-00-00	GEAR, 2nd pinion (20T/26T)	1	
6	4H7-17151-00-00	GEAR, 5th pinion (32T)	1	
7	90201-20276-00	WASHER, plate	1	
8	93410-20009-00	CIRCLIP	1	
9	93306-20434-00	BEARING (B6204)	1	
10	93306-30528-00	BEARING (B6305Z)	1	
11	278-17424-00-00	CIRCLIP 1	1	
12	4H7-17402-00-00	DRIVE AXLE ASS'Y	1	
13	4H7-17221-00-00	GEAR, 2nd wheel (30T)	1	
14	90209-22191-00	WASHER	1	
15	93440-25019-00	CIRCLIP	1	
16	4H7-17231-00-00	GEAR, 3rd wheel (30T)	1	
17	90209-25196-00	WASHER	1	
18	93440-28062-00	CIRCLIP	1	

Oiling System	Wash Oil
Cap: 1/2 Dry	320A
Oil and Filter Change	2650cc
Oil Change	2350cc
Lubricant Temperature 5 C 40 F	Yamaha 4T SAE 10W 40 SE Motor Oil
Bearing Temperature 5 C 40 F	Yamaha 4T SAE 10W 30 SE Motor Oil

TRANSMISSION

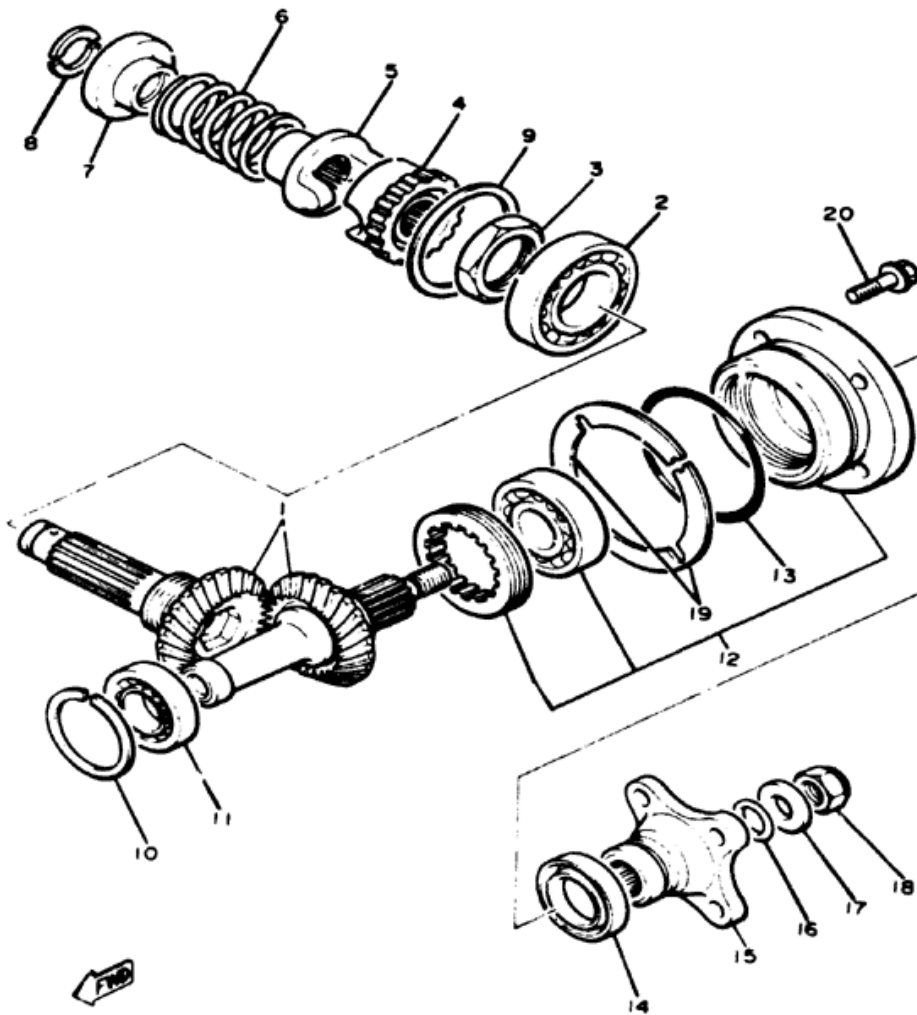
TRANSMISSION Oil Type / Qty Chg / Qty Reassemble	
Primary Drive Type / Teeth / Ratio	Spur Gears 97 58 1 672
Secondary Drive Type / Teeth / Chain	Shaft Drive 48 36 x 19 18 x 32 11 8



Ref. No.	Part Number	Description	Qty.	Remarks
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 (38T).....	1	
22	90201-243A2-00	WASHER, plate.....	1	
23	4H7-17251-00-00	GEAR, 5th wheel (26T).....	1	
24	93306-30301-00	BEARING (B6303).....	1	
25	93306-30422-00	BEARING (B6304).....	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	

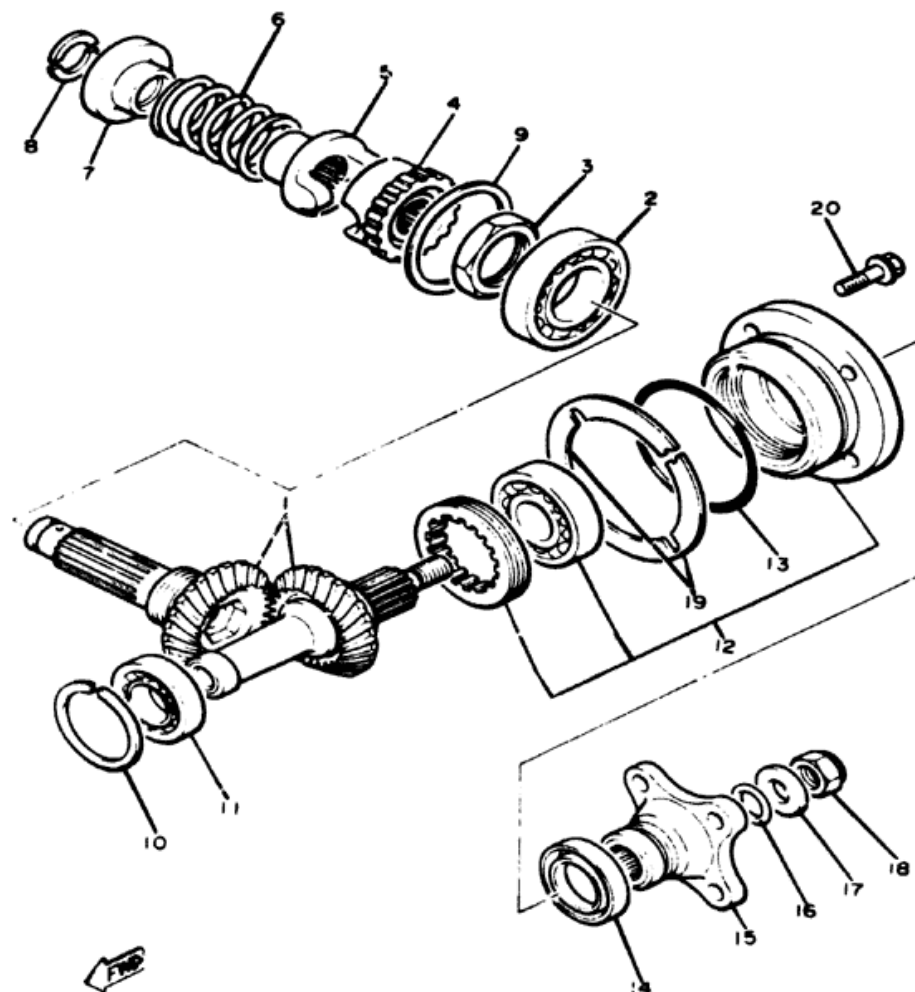
Oiling System	
Capacity: Dry	Wet Sump
Oil and Filter Change	3700cc
Oil Change	2850cc
	2350cc
Lubricant Temp: above 5 C (40 F)	Yamalube 4T or SAE 20W 40 SE Motor Oil
Below 15 C (60 F)	Yamalube 4T or SAE 10W 30 SE Motor Oil

MIDDLE DRIVE GEAR



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-W1751-00-00	MIDDLE GEAR COMP.	1	
2	93306-20709-00	BEARING (B6207).....	1	
3	90179-34304-00	NUT.....	1	
4	4H7-17526-01-00	CAM, drive (4H7-17526-00)	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 COMP.....	1	

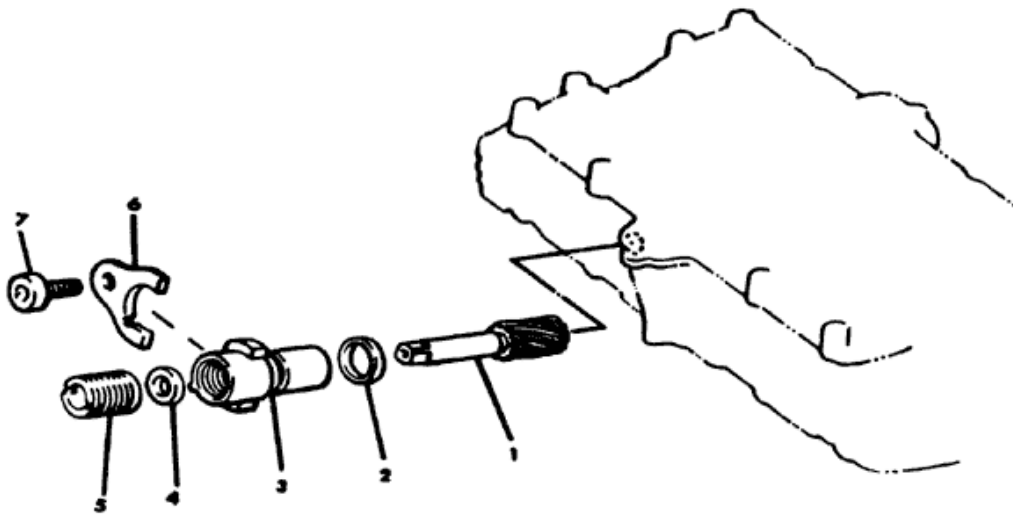
MIDDLE DRIVE GEAR



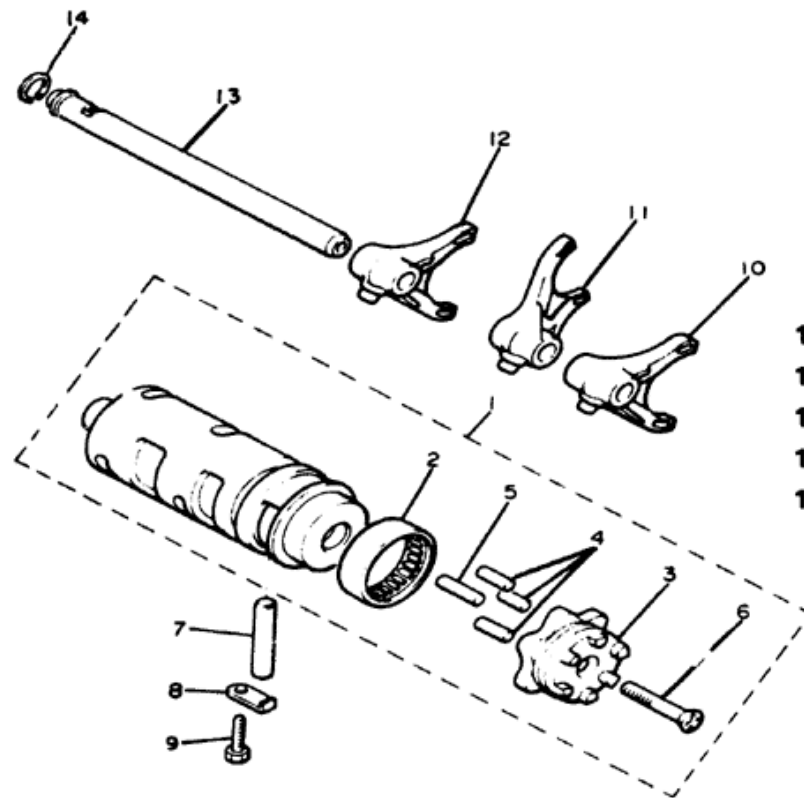
Ref. No.	Part Number	Description	Qty.	Remarks
13	93210-71360-00	O-RING	1	
14	93101-35097-00	CIL SEAL	1	
15	4H7-17555-00-00	FLANGE, middle gear	1	
16	93210-14359-00	O-RING	1	
17	90201-14633-00	WASHER, plate	1	
18	90179-14317-00	NUT	1	
19	4H7-17531-00-10	SHIM, pinion (0.10T)	2	U.R.
	4H7-17531-00-15	SHIM, 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	

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	91316-06012-00	BOLT	1	



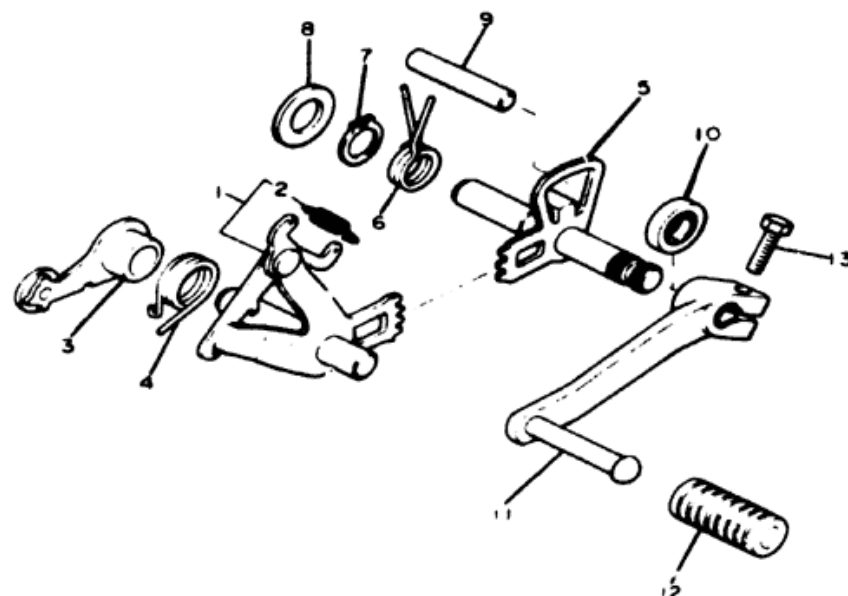
SHIFT CAM · FORK



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-18540-00-00	SHIFT CAM ASS'Y.....	1	
2	93315-23812-00	. 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	92701-05035-00	. 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	

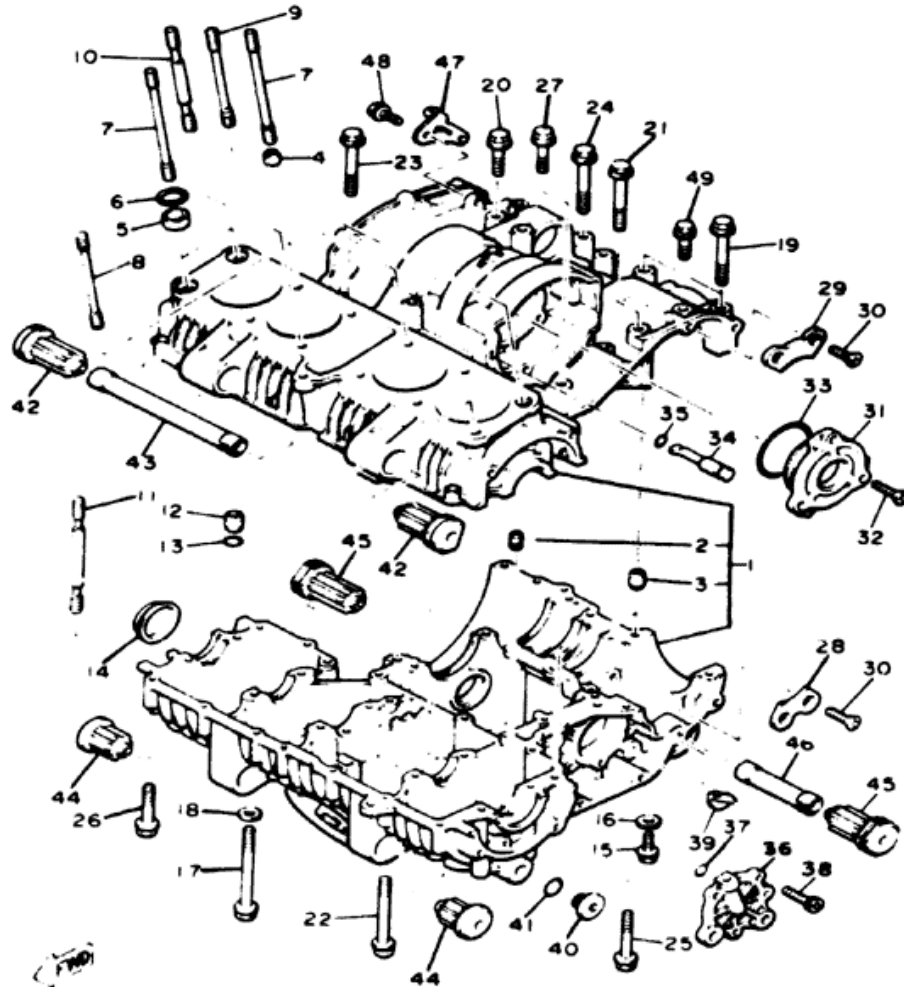
← FWD

SHIFT SHAFT · PEDAL



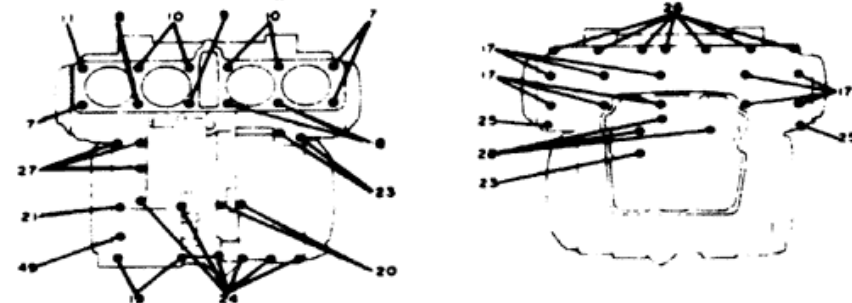
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-18101-00-00	SHIFT SHAFT ASS'Y	1	
2	90508-08227-00	. SPRING, tension	1	
3	4H7-18140-00-00	STOPPER LEVER ASS'Y	1	
4	90508-29530-00	SPRING, torsion (90508-29448)	1	
5	4H7-18120-00-00	SHIFT LEVER ASS'Y	1	
6	99999-01179-00	SPRING, torsion (90508-32449)	1	
	90508-32535-00	. SPRING, torsion	1	
	90387-124F4-00	. COLLAR	1	
7	93430-10018-00	CIRCLIP	1	
8	90201-12588-00	WASHER, plate	1	
9	93608-50158-00	PIN, dowel	1	
10	93102-12106-00	OIL SEAL	1	
11	4H7-18111-00-00	PEDAL, shift	1	
12	132-18113-01-00	COVER, shift pedal	1	
13	97321-06020-00	BOLT	1	

CRANKCASE

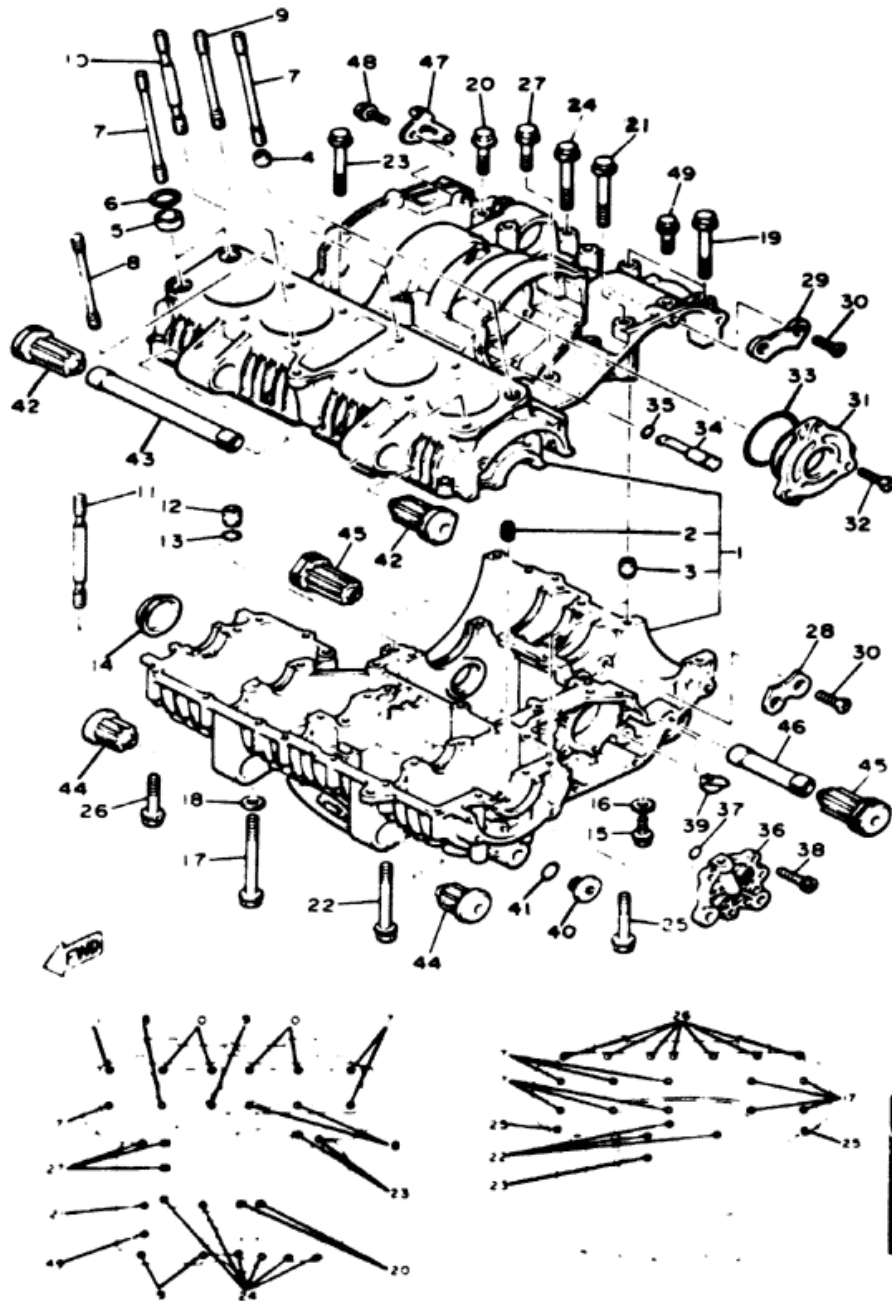


Timing System	Oil Sump
10000	10000
Oil and Filter Change	20000
Oil Change	20000
Oil and Filter Change	20000
Oil Change	20000
Oil and Filter Change	20000
Oil Change	20000

Ref. No.	Part Number	Description	Qty.	Remarks
1	99999-01239-00	CRANKCASE ASS'Y (4H7-15100-00)	1	
	4H7-15100-02-00	CRANKCASE ASS'Y	1	
	95811-08045-00	BOLT, flange	7	
2	4H7-15138-00-00	NOZZLE 1	3	
3	91830-22016-00	PIN, dowel	3	
4	91830-24016-00	PIN, dowel	1	
5	90387-16547-00	COLLAR	2	
6	93210-18322-00	O-RING	2	
7	90116-10330-00	BOLT, stud	3	
8	4H7-11363-00-00	BOLT, stud (90116-10329)	3	
9	90116-10328-00	BOLT, stud	1	
10	4H7-11363-00-00	BOLT, cylinder holding 3	4	
11	4H7-11364-00-00	BOLT, cylinder holding 4	1	
12	91830-22016-00	PIN, dowel	1	
13	93210-11124-00	O-RING	1	
14	90338-48105-00	PLUG	1	
15	90105-08003-00	BOLT, washer based	1	
16	90201-08087-00	WASHER, plate	1	
17	95811-08105-00	BOLT, flange	10	
18	90201-08366-00	WASHER, plate	8	
19	95811-08065-00	BOLT, flange	2	
20	95811-06135-00	BOLT, flange	2	
21	95811-06120-00	BOLT, flange	1	
22	95811-06080-00	BOLT, flange	3	
23	95811-06070-00	BOLT, flange	3	
24	95811-06060-00	BOLT, flange	6	
25	95811-06055-00	BOLT, flange	2	



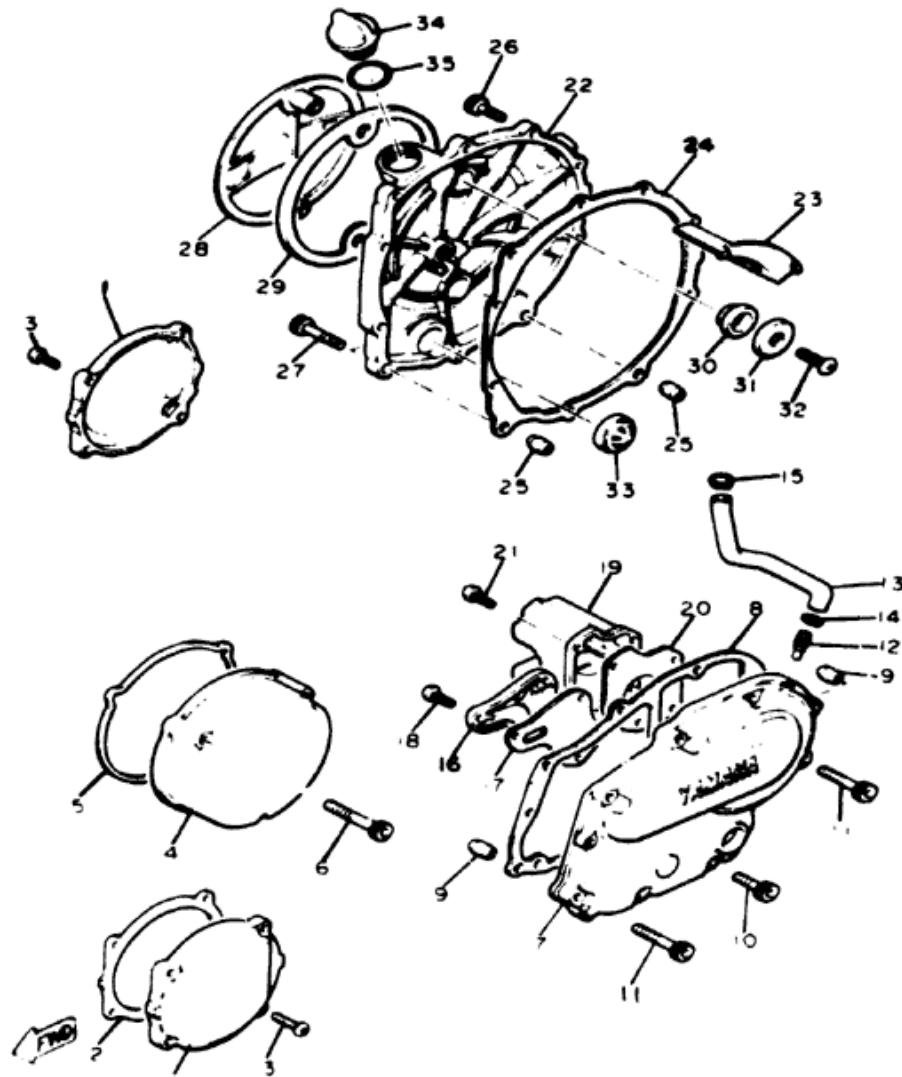
CRANKCASE



Ref. No.	Part Number	Description	Qty.	Remarks
26	95811-06045-00	BOLT, flange.	7	
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	90149-08152-00	SCREW.	4	
31	4H7-15163-01-00	HOUSING, bearing 1 (4H7-15163-00).	1	
32	92701-06015-00	SCREW, flat head.	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 (5H7-15164-00).	1	
37	93210-07438-00	O-RING.	1	
38	91311-06020-00	BOLT.	3	
39	4H7-15385-00-00	GROMMET.	1	
40	4H7-15189-00-00	PLUG.	2	
41	93210-21276-00	O-RING.	2	
42	4H7-15326-00-00	DAMPER, engine mount 2 (4H7-15326-01).	2	
43	4H7-15317-00-00	SPACER, engine mount.	1	
44	4H7-15316-00-00	DAMPER, engine mount 1.	2	
45	2H7-15326-01-00	DAMPER, engine mount 2.	2	
46	4H7-15327-00-00	SPACER, engine mount.	1	
47	4H7-15441-01-00	HOLDER, clutch cable.	1	
48	91311-06012-00	BOLT.	2	
49	95801-06060-00	BOLT, flange.	1	

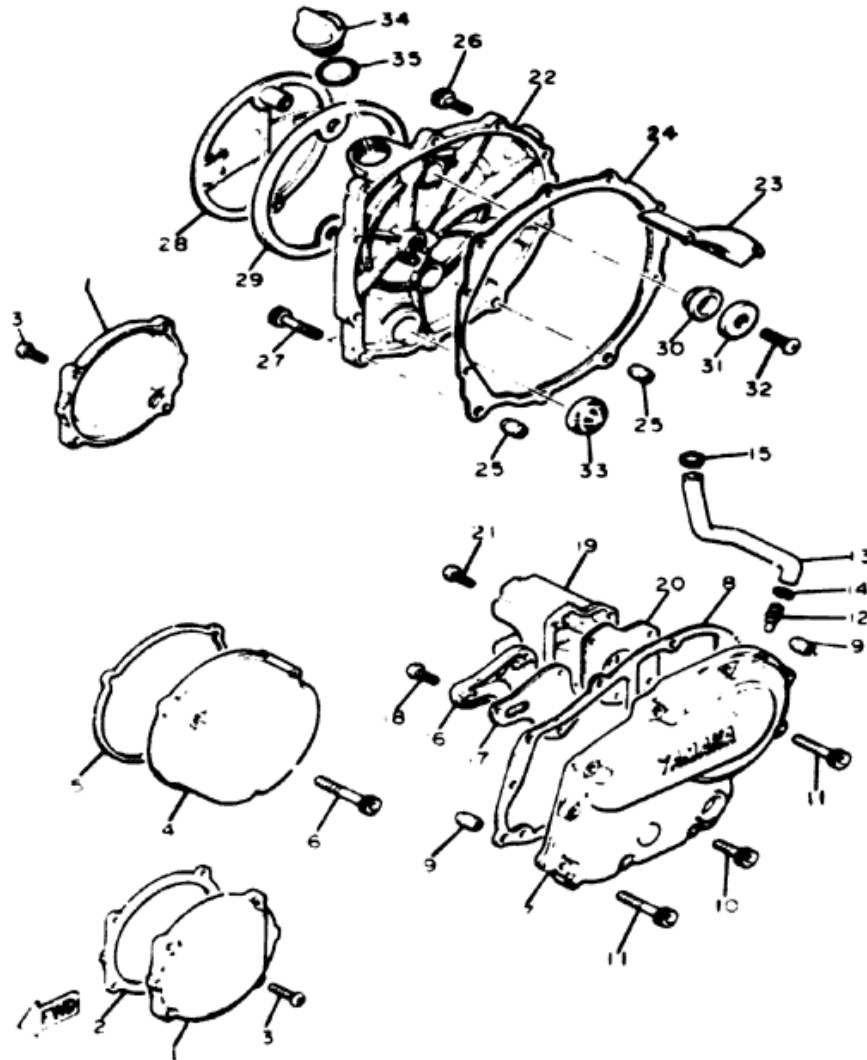
Oiling System	Wet Sump
Capacity Dry	3200cc
Oil and Filter Change	2650cc
Oil Change	2350cc
Lubricant Temp. above 5°C (40°F)	Yamalube 4* or SAE 20W 40 SE Motor Oil
Below 15°C (60°F)	Yamalube 4* or SAE 10W 30 SE Motor Oil

CRANKCASE COVER



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-15416-00-00	COVER, oil pump	2	
2	4H7-15456-00-00	GASKET, oil pump cover 1	1	
3	98901-06020-00	SCREW, bind	8	
4	4H7-15415-00-00	COVER, generator	1	
5	4H7-15455-00-00	GASKET, carburetor cover 1	1	
6	91311-06070-00	BOLT	3	
7	4H7-15411-00-00	COVER, crankcase 1	1	
8	4H7-15451-00-00	GASKET, crankcase cover	1	
9	91830-21014-00	PIN, dowel	2	
10	91311-06025-00	BOLT	8	
11	91311-06040-00	BOLT	2	
12	371-11167-01-00	COVER, breather 2	1	
13	4H7-11166-01-00	PIPE, breather 1	1	
14	90467-14015-00	CLIP	1	
15	90468-08104-00	CLIP	1	
16	4H7-15346-00-00	BREATHER 1	1	
17	4H7-15417-00-00	GASKET	1	
18	92503-06015-00	SCREW, pan head (92501-06015)	3	

CRANKCASE COVER

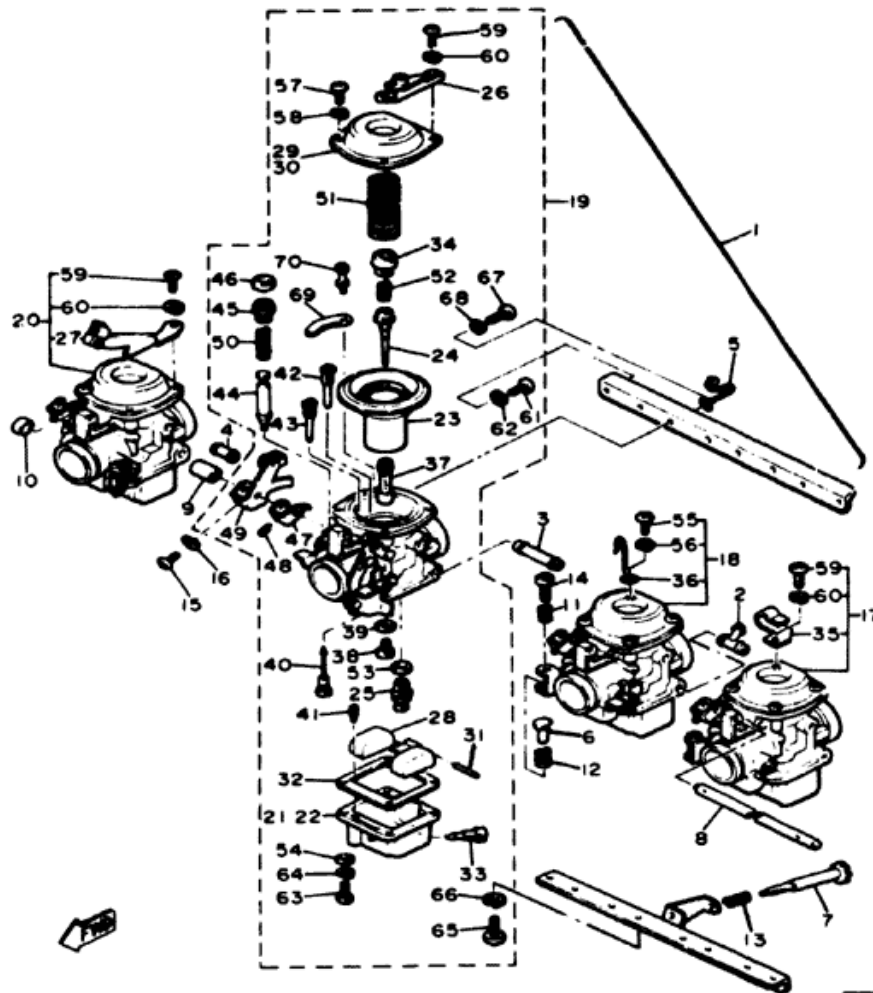


Ref. No.	Part Number	Description	Qty.	Remarks
19	4H7-15347-00-00	BREATHER 2	1	
20	4H7-15467-00-00	GASKET	1	
21	92503-06015-00	SCREW, pan head (92501-06015)	4	
22	4H7-15421-01-00	COVER, crankcase 2	1	
23	4H7-15412-01-00	COVER, oil pump	1	
24	4H7-15461-01-00	GASKET, crankcase cover 2	1	
25	91830-21014-00	PIN, dowel	2	
26	91311-06025-00	BOLT	8	
27	91311-06040-00	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	4H7-15361-00-00	GAUGE, level	1	
34	2H7-15363-00-00	PLUG, oil	1	
35	93210-27370-00	O-RING	1	

INTAKE

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-13586-02-00	JOINT, carburetor 1 (4H7-13586-01)	2	
2	4H7-13596-01-00	JOINT, carburetor 2 (4H7-13596-00)	2	
3	4H7-13556-01-00	GASKET, manifold (4H7-13556-00)	4	
4	1J7-13569-00-00	PLUG, blind	3	
5	90467-10039-00	CLIP	3	
6	91316-06020-00	BOLT	8	
7	90460-49160-00	CLAMP, hose	4	
8	90467-09006-00	CLIP	1	
9	4H7-14401-00-00	AIR CLEANER CASE ASS'Y	1	
10	4H7-14484-00-00	PLATE, cleaner case fitting	1	
11	90446-11021-00	HOSE	1	
12	90467-09006-00	CLIP	1	
13	4H7-14453-00-00	JOINT, air cleaner 1	4	
14	4H7-14437-00-00	DUCT	1	
15	4H7-14451-00-00	ELEMENT, air cleaner	1	
16	4H7-14412-00-00	CAP, cleaner case 1	1	
17	92503-06012-00	SCREW, pan head (92501-06012)	2	
18	90480-16278-00	GROMMET	1	
19	4H7-14419-00-00	PIPE	1	
20	4H7-1441A-00-00	COVER, cleaner case 1	1	
21	4H7-1441E-00-00	COVER, cleaner case 2	1	
22	97701-50110-00	SCREW, pan head tapping	4	
23	90480-56105-00	CLAMP, hose	4	
24	97301-06016-00	BOLT (97301-06015)	1	
25	92903-06100-00	WASHER, spring (92902-06100)	1	
26	90119-06029-00	BOLT, with washer	1	
27	90201-06067-00	WASHER, plate	1	

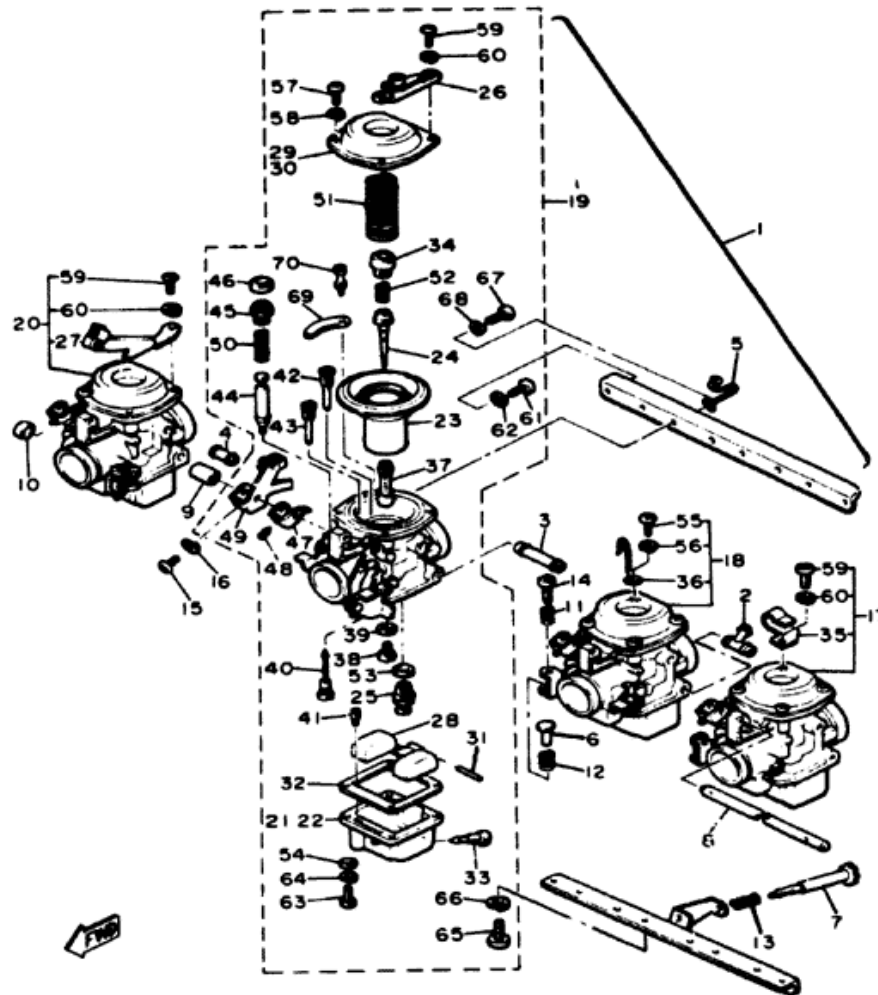
CARBURETOR



Ref. No.	Part Number	Description	Qty.	Remarks
1	(4H7-14900-00-00)	CARBURETOR ASS'Y.....	1	N/A
2	4H7-14988-00-00	PIPE, starter connecting	1	
3	4H7-14188-00-00	CONNECTOR	1	
4	4H7-14189-00-00	CONNECTOR	1	
5	4H7-14919-00-00	CLIP.....	1	
6	4H7-14992-00-00	ROD	3	
7	3J3-14122-00-00	SCREW, throttle.....	1	
8	4H7-14978-00-00	SHAFT, starter lever.....	1	
9	4H7-14998-00-00	BUSH.....	1	
10	4H7-14973-00-00	WASHER.....	1	
11	4H7-14133-00-00	SPRING, throttle stop	3	
12	4H7-14934-00-00	SPRING, throttle stop	3	
13	3J3-14934-00-00	SPRING, throttle stop	1	
14	4H7-14922-00-00	SCREW, throttle.....	3	
15	98502-03016-00	SCREW, pan head	1	
16	92901-03100-00	WASHER, spring	1	
17	4H7-14901-00-00	CARBURETOR ASS'Y 1	1	
18	4H7-14902-00-00	CARBURETOR ASS'Y 2	1	
19	4H7-14903-00-00	CARBURETOR ASS'Y 3	1	
20	4H7-14904-00-00	CARBURETOR ASS'Y 4	1	
21	4H7-14981-00-00	BODY, float chamber (1,2) ...	2	
22	4H7-14982-00-00	BODY, float chamber (3,4) ...	2	
23	4H7-14940-00-00	DIAPHRAGM ASS'Y.....	4	

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 or Throttle Valve	130
Float 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)

CARBURETOR



Ref. No.	Part Number	Description	Qty.
24	4H7-14917-10-00	JET, needle	4
25	4H7-14990-00-00	NEEDLE VALVE ASS'Y.	4
26	4H7-14926-00-00	BRACKET, throttle 1	1
27	4H7-14995-00-00	BRACKET	1
28	4H7-14985-00-00	FLOAT	4
29	4H7-14958-00-00	COVER, diaphragm (1,4)	2
30	4H8-14958-00-00	COVER, diaphragm (2,3)	2
31	4H7-14186-00-00	PIN, float	4
32	4H7-14984-00-00	GASKET, float chamber	4
33	4H7-14191-00-00	PLUG, drain	4
34	4H7-14936-00-00	SEAT, spring	4
35	4H7-14159-00-00	CLIP	1
36	4H7-14139-00-00	CLIP, pipe	1
37	4H7-14921-32-00	NOZZLE, main	4
38	4H7-14925-10-00	JET, main (#110)	4
39	4H7-14945-00-00	WASHER, jet main	4
40	4H7-14948-40-00	JET, pilot (#40)	4
41	4H7-14961-40-00	JET, starter (#40)	4
42	4H7-14928-10-00	JET, main air (#50)	4
43	4H7-14949-39-00	JET, pilot air (#195)	4
44	4H7-14171-00-00	PLUNGER, starter	4
45	4H7-14174-00-00	CAP, plunger	4
46	4H7-14173-00-00	COVER, plunger cap	4
47	4H7-14975-00-00	LEVER, starter	4
48	4H7-14991-00-00	SCREW	4
49	4H7-14976-00-00	LEVER, starter 2	1
50	4H7-14135-00-00	SPRING, plunger	4
51	4H7-14933-00-00	SPRING, diaphragm	4
52	4H7-14589-00-00	SPRING	4
53	4H7-14952-00-00	WASHER	4

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 or Throttle Valve	130
Float Level / Fuel Level	17.5 ± 0.5mm / 2 ~ 4mm
Idle rpm	1080 rpm
Max CO ^e / Max HC ^e / Set CO	5.0 % / 800 ppm / 3.0 % (All settings @ Idle)

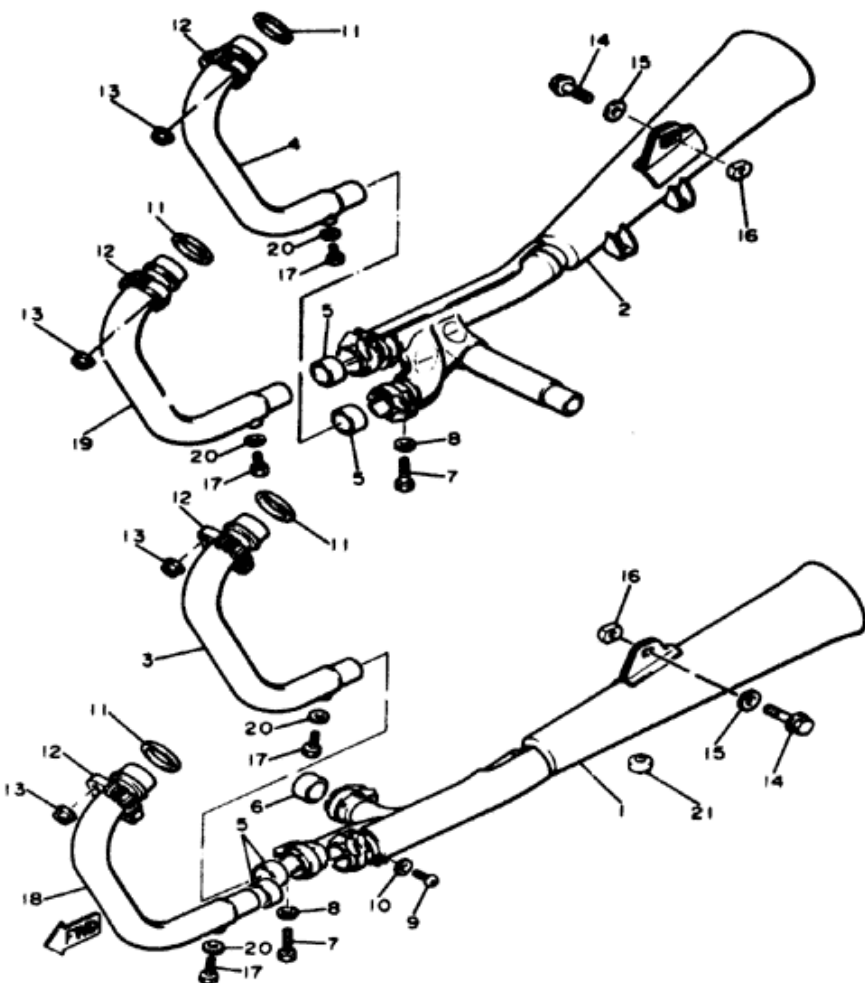
This diagram is an exploded view of a mechanical assembly, likely a pump or engine component. It shows the main housing (1) and various internal and external parts. Key components include:

- Top Section:** A large circular flange (26) with a central shaft (51) and a cap (59). A long arm (1) is attached to the side.
- Internal Components:** A central shaft assembly (23, 24, 34, 37) with various seals and bearings (e.g., 42, 43, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70).
- Bottom Section:** A base plate (32) with a central shaft (31) and a pump head (33). A long arm (8) is attached to the side.
- Fasteners:** Numerous screws (e.g., 10, 15, 16, 20, 21, 22, 25, 27, 28, 30, 35, 36, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70) and bolts (e.g., 1, 2, 3, 4, 5, 6, 7, 12, 13, 14, 17, 18, 19, 23, 24, 26, 28, 31, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70) are shown in their respective positions.

The diagram is labeled with numbers 1 through 70, indicating the specific parts and their assembly sequence.

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 or Throttle Valve	130
Floet Level / Fuel Level	17.5 ± 0.5mm / 2 ~ 4mm
Idle rpm	1050 rpm
Max CO^e / Max HC^e / Set CO	5.0 % / 800 ppm / 3.0 % (All settings @ Idle)

EXHAUST



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-14710-01-00	MUFFLER ASS'Y 1	1	
2	4H7-14720-01-00	MUFFLER ASS'Y 2	1	
3	4H7-14621-02-00	PIPE, exhaust 2	1	
4	4H7-14631-02-00	PIPE, exhaust 3	1	
5	4H7-14755-00-00	GASKET, silencer	4	
6	4H7-14714-00-00	GASKET, muffler	1	
7	97311-08025-00	BOLT	5	
8	92901-08600-00	WASHER, plate	5	
9	92501-06025-00	SCREW, pan head	2	
10	92901-06600-00	WASHER, plate	2	
11	4H7-14613-00-00	GASKET, exhaust pipe	4	
12	4H7-14612-00-00	NUT, ring	4	
13	90179-06306-00	NUT	8	
14	95801-10040-00	BOLT, flange	2	
15	90201-10669-00	WASHER, plate	2	
16	90179-10276-00	NUT	2	
17	97313-06012-00	BOLT	4	
18	4H7-14611-02-00	PIPE, exhaust 1	1	
19	4H7-14641-02-00	PIPE, exhaust 4	1	
20	92903-06600-00	WASHER, plate	4	
21	1A0-27114-00-00	STOPPER, main stand	1	

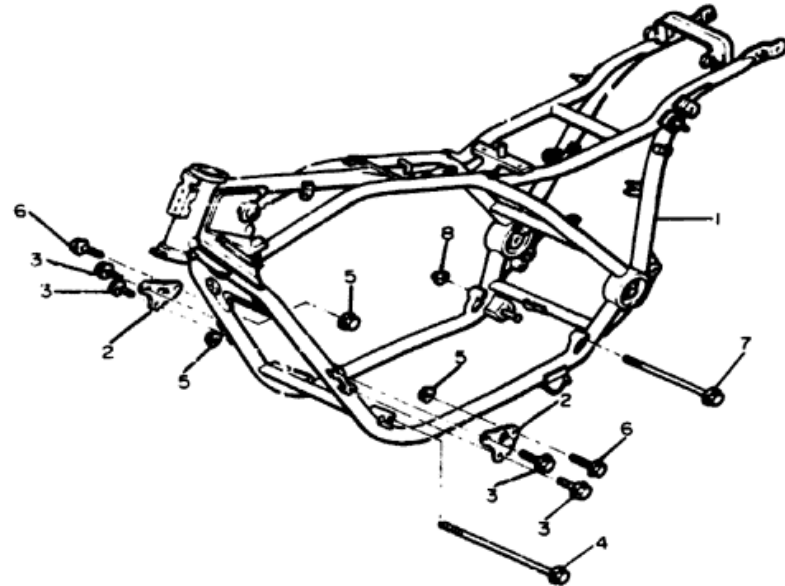
Max CO* / Max HC* / Set CO

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."

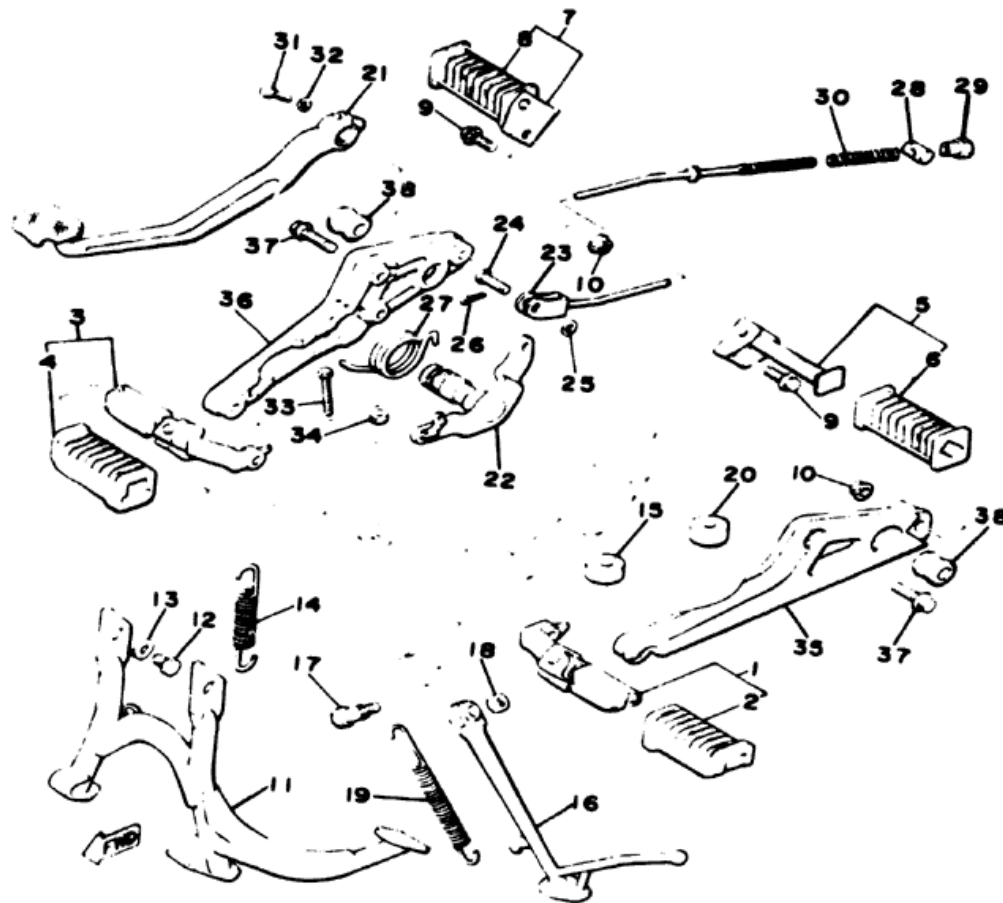
FRAME

MODEL - I.B.R. I.D. NUMBER	XJ650G - B	XJ650G - R	4H7
Initial Engine Number / Frame Number	4H7-000101	4H7-000101	
Basic Color(s)	Black Gold (B)	New Ruby Red (R)	



Ref. No.	Part Number	Description	Qty.	Remarks
1	99999-01225-00	FRAME COMP.	1	Yamaha Black
	4H7-21110-01-33	. FRAME COMP.	1	
	4H7-2134Y-00-00	. STAY, horn	1	
	97306-08016-00	. BOLT	2	
	92906-08100-00	. WASHER, spring	2	
2	4H7-21315-00-00	STAY, engine 2	2	
3	90105-08155-00	BOLT, washer based.....	4	
4	90105-10156-00	BOLT, washer based.....	1	
5	90179-10247-00	NUT.....	3	
6	90105-10038-00	BOLT, washer based.....	2	
7	90105-12157-00	BOLT, washer based.....	1	
8	90179-12248-00	NUT.....	1	

STAND · FOOTREST

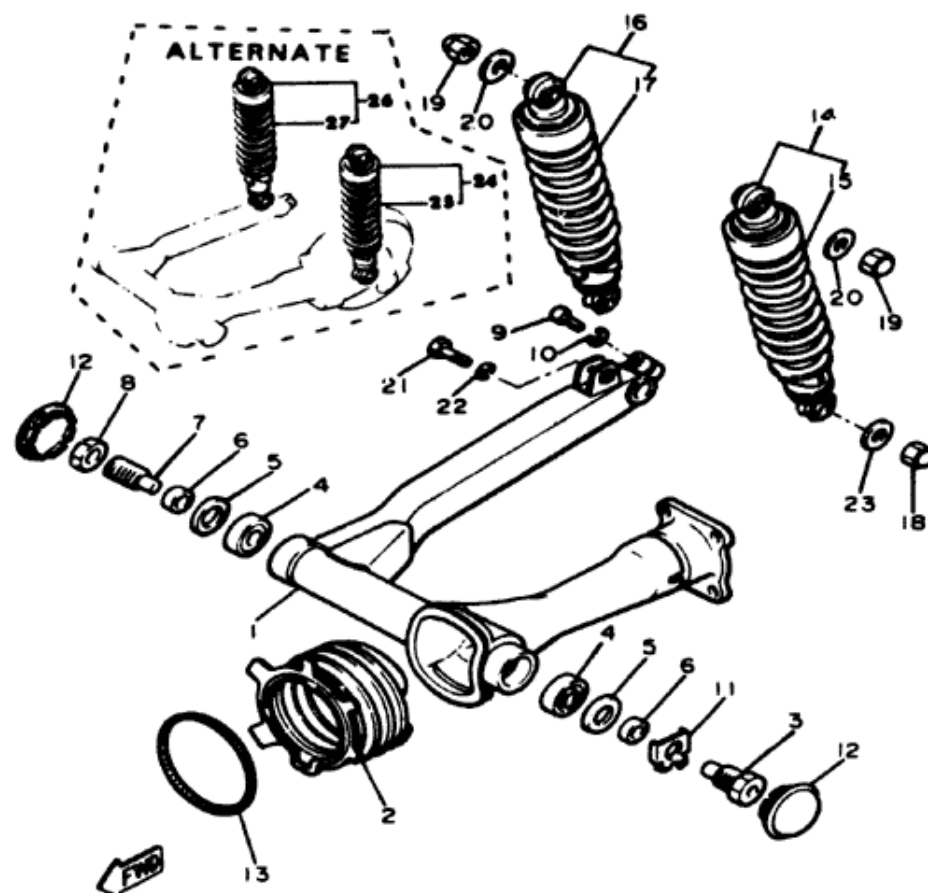


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-27410-00-00	FRONT FOOTREST ASS'Y (L.H)	1	
2	1J7-27413-01-00	. COVER, footrest.....	1	
3	4H7-27420-00-00	FRONT FOOTREST ASS'Y (R.H.)	1	
4	1J7-27413-01-00	. COVER, footrest.....	1	
5	4H7-27430-00-00	REAR FOOTREST ASS'Y 1	1	
6	1J7-27433-00-00	. COVER, rear footrest.....	1	
7	4H7-27440-00-00	REAR FOOTREST ASS'Y 2	1	
8	1J7-27444-00-00	. COVER, rear footrest.....	1	
9	95821-10035-00	BOLT, flange.....	2	
10	90179-10247-00	NUT.....	2	
11	4H7-27111-00-R4	STAND, main.....	1	Black
12	97302-10016-00	BOLT.....	2	
13	90201-10752-00	WASHER, plate.....	2	
14	90506-35149-00	SPRING, tension.....	1	
15	1A0-27114-00-00	STOPPER, main stand.....	1	
16	4H7-27311-01-R4	STAND, side.....	1	Black
17	90109-10473-00	BOLT.....	1	
18	95301-10700-00	NUT.....	1	
19	90506-28146-00	SPRING, tension.....	1	
20	1A0-27114-00-00	STOPPER, main stand.....	1	

STAND - FOOTREST

Ref. No.	Part Number	Description	Qty.	Remarks
21	4H7-27211-00-00	PEDAL, brake.....	1	
22	4H7-27212-00-00	SHAFT, brake pedal	1	
23	4H7-27231-00-00	ROD, brake.....	1	
24	90240-06040-00	PIN, clevis	1	
25	92903-06200-00	WASHER, plain (92901-06200)	1	
26	91401-20015-00	PIN, cotter (91401-20012).....	1	
27	90508-45448-00	SPRING, compression	1	
28	90249-12008-00	PIN	1	
29	90179-06176-00	NUT.....	1	
30	90501-10245-00	SPRING, torsion	1	
31	90109-06468-00	BOLT	1	
32	92903-06100-00	WASHER, spring (92901-06100)	1	
33	90153-06009-00	SCREW, hexagon	1	
34	90170-06184-00	NUT.....	1	
35	4H7-27442-00-00	BRACKET 2	1	
36	4H7-27443-00-00	BRACKET 3	1	
37	95821-10030-00	BOLT, flange.....	3	
38	3H3-27414-00-00	DAMPER, footrest.....	2	

REAR ARM - SUSPENSION



Ref. No.	Part Number	Description	Qty.
1	4H7-22110-00-98	REAR ARM COMP.....	1
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	97301-08035-00	BOLT.....	1
10	92903-08100-00	WASHER, spring (92901-08100)	1
11	90215-22171-00	WASHER, lock.....	1
12	2H7-2219X-00-00	COVER.....	2
13	90506-07136-00	SPRING, tension.....	1
14	4H7-22210-01-00	SHOCK ABSORBER ASS'Y, rear	1
15	4H7-22212-00-00	. SPRING.....	1
16	4H7-22210-11-00	SHOCK ABSORBER ASS'Y, rear	1
17	4H7-22212-00-00	. SPRING.....	1
18	90176-10013-00	NUT, crown.....	1
19	90176-10013-00	NUT, crown.....	2
20	90201-10142-00	WASHER, plate.....	1
21	90106-10030-00	BOLT.....	1
22	92903-10100-00	WASHER, spring.....	1
23	90201-10140-00	WASHER, plate.....	1

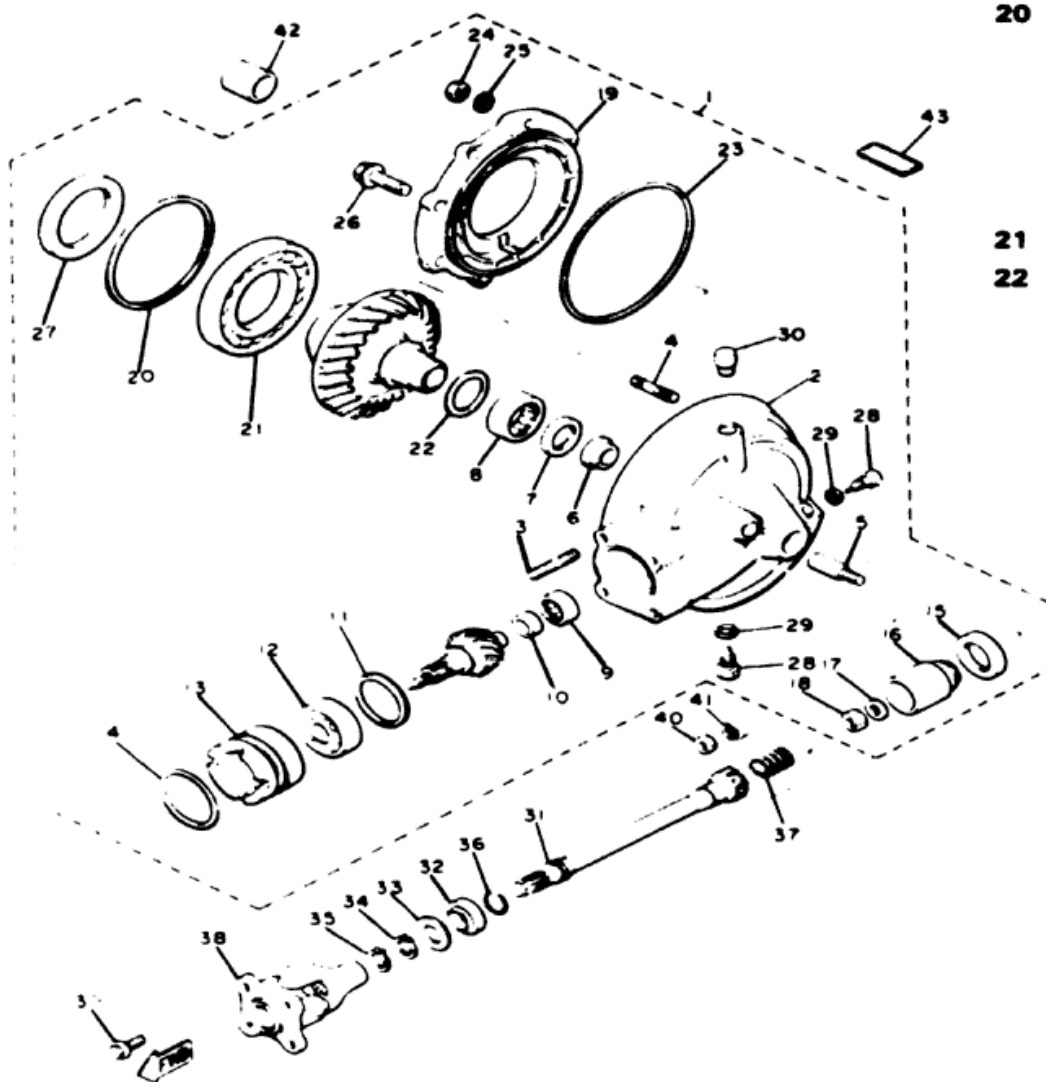
OPTIONAL PARTS

24	4H7-22210-A0-00	SHOCK ABSORBER ASS'Y, rear	1
25	4H7-22212-A0-00	. SPRING.....	1
26	4H7-22210-E0-00	SHOCK ABSORBER ASS'Y, rear	1
27	4H7-22212-A0-00	. SPRING.....	1

DRIVE SHAFT

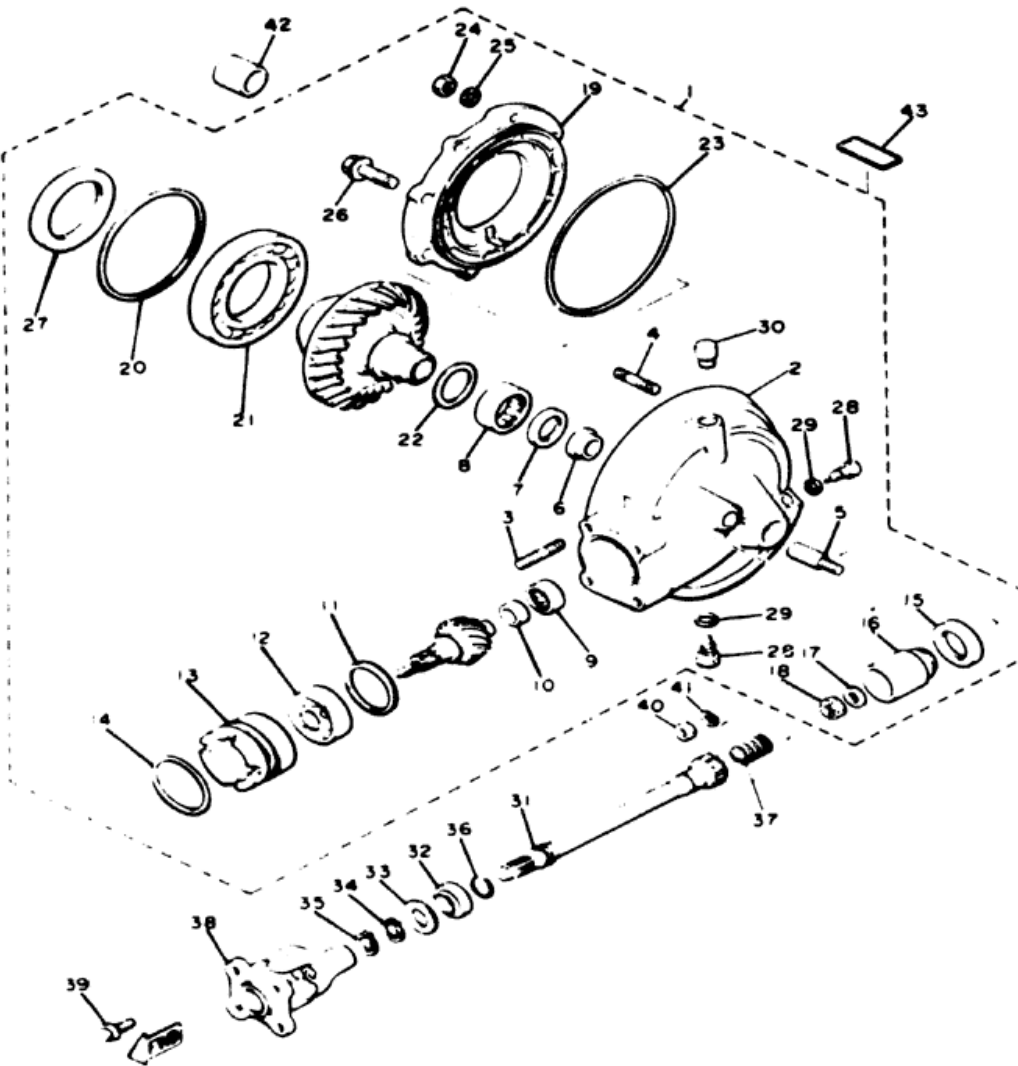
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-46101-00-00	REAR AXLE GEAR CASE ASS'Y	1	
2	4H7-46151-00-00	HOUSING, shaft drive	1	
3	90116-10327-00	BOLT, stud	4	
4	90116-06247-00	BOLT, stud	6	
5	90116-10249-00	BOLT, stud	1	
6	4H7-46153-00-00	COLLAR, guide	1	
7	93101-30084-00	OIL SEAL	1	
8	93311-43729-00	BEARING, cylindrical	1	
9	93317-41510-00	BEARING, cylindrical	1	
10	2H7-46122-00-00	RACE, inner	1	
11	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.
12	93306-30524-00	BEARING (B6305)	1	
13	4H7-46125-00-00	RETAINER, bearing	1	
14	93210-60426-00	O-RING	1	
15	93101-38098-00	OIL SEAL	1	
16	4H7-46123-00-00	COUPLING, gear	1	
17	90201-14632-00	WASHER, plate	1	
18	90185-14070-00	NUT, self-locking	1	
19	4H7-46152-00-00	HOUSING, bearing	1	

DRIVE SHAFT



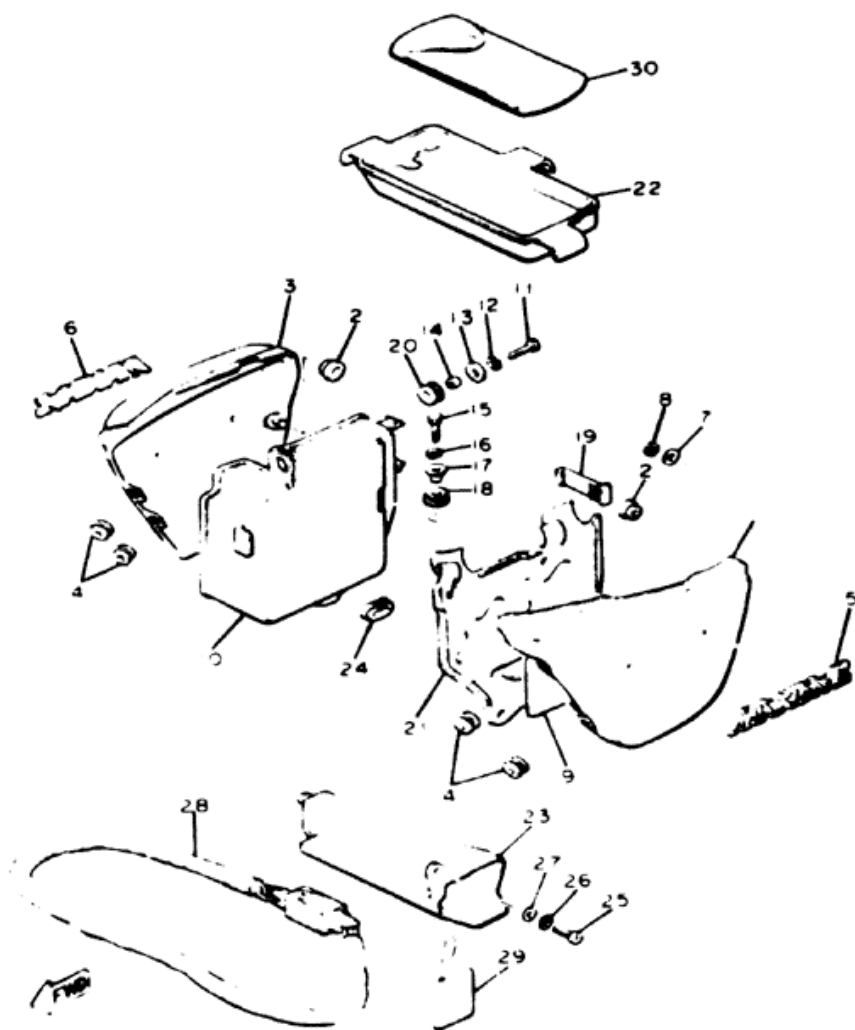
Ref. No.	Part Number	Description	Qty.	Remarks
20	1J7-46117-Y0-25	SHIM, ring gear (0.25T)	1	U.R.
	1J7-46117-Y0-30	SHIM, ring gear (0.30T)	1	U.R.
	1J7-46117-Y0-35	SHIM, ring gear (0.35T)	1	U.R.
	1J7-46117-Y0-40	SHIM, ring gear (0.40T)	1	U.R.
	1J7-46117-Y0-45	SHIM, ring gear (0.45T)	1	U.R.
	1J7-46117-Y0-50	SHIM, ring gear (0.50T)	1	U.R.
21	93316-01403-00	BEARING, cylindrical	1	
22	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.

DRIVE SHAFT



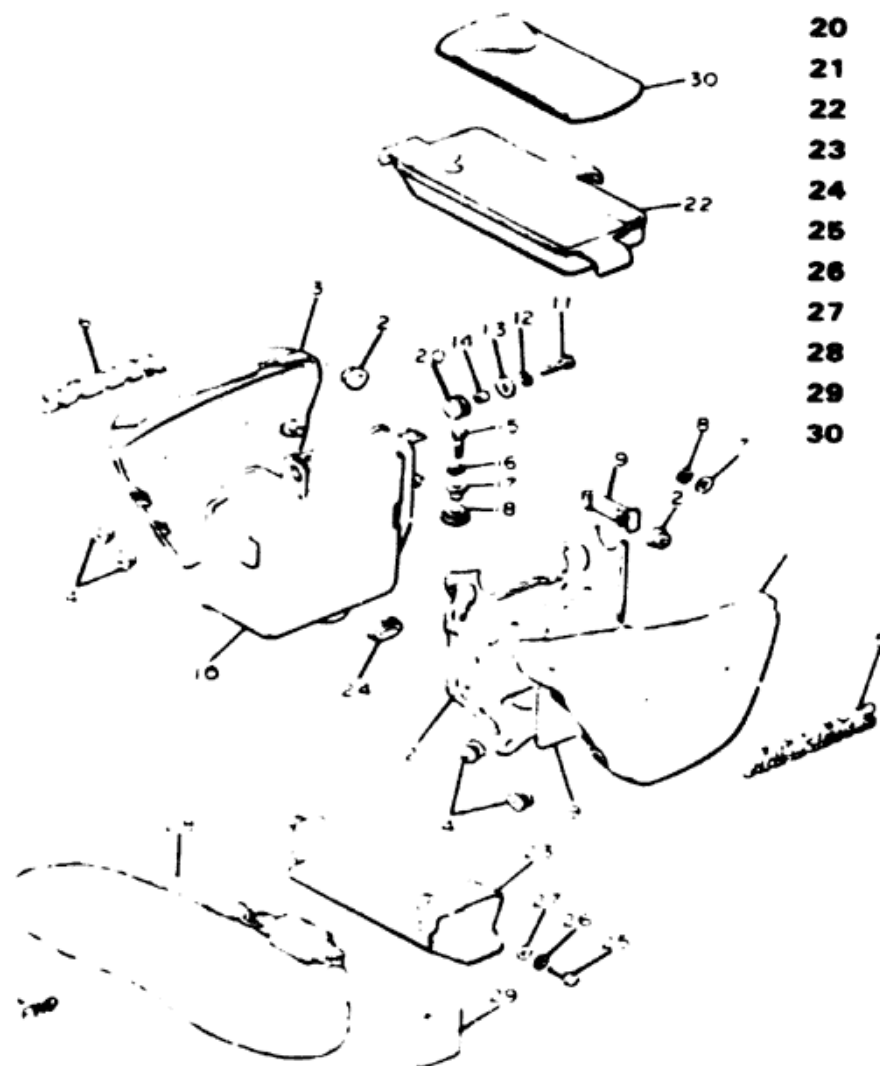
Ref. No.	Part Number	Description	Qty.	Remarks
23	93211-44348-00	O-RING	1	
24	95311-08600-00	NUT	6	
25	92901-08700-00	WASHER, wave	6	
26	95821-10025-00	BOLT, flange	2	
27	93102-70167-00	OIL SEAL	1	
28	90340-14009-00	PLUG, straight screw	2	
29	214-11198-01-00	GASKET	2	
30	2H7-17590-00-00	BREATHER COMP.	1	
31	4H7-46172-00-00	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	95311-10600-00	NUT	4	
41	92903-10100-00	WASHER, spring (92901-10100)	4	
42	90387-172A5-00	COLLAR	1	
43	4H7-46181-10-00	LABEL, oil caution	1	

SIDE COVER • TOOL

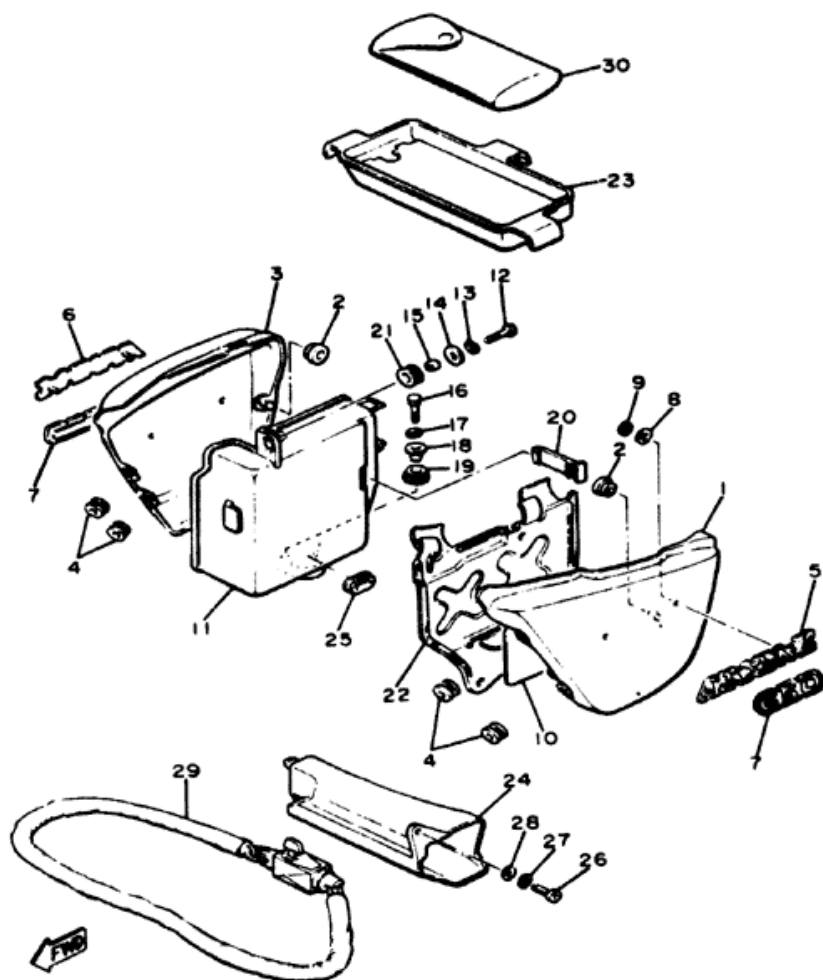


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-21711-00-6G	COVER, side (L.H.)	1	U.R. New Yamaha Blk
	4H7-21711-00-7J	COVER, side (L.H.)	1	U.R. New Ruby Red
2	90480-01141-00	GROMMET	2	
3	4H7-21721-01-6G	COVER, side (R.H.)	1	U.R. New Yamaha Blk
	4H7-21721-01-7J	COVER, side (R.H.)	1	U.R. New Ruby Red
4	90480-12053-00	GROMMET	4	
5	4H7-21781-00-00	EMBLEM 1	1	
6	4H7-21782-00-00	EMBLEM 2	1	
7	90202-04003-00	WASHER, plate	4	
8	90183-04005-00	NUT, spring	4	
9	4H7-21683-00-00	PLATE, specification	1	
10	4H7-21240-01-00	BOX COMP.	1	
11	97321-08025-00	BOLT	1	
12	92903-06100-00	WASHER, spring (92902-06100)	1	
13	90201-06407-00	WASHER, plate	1	
14	90387-07674-00	COLLAR	1	
15	97321-08025-00	BOLT (97322-08025)	1	
16	92903-08100-00	WASHER, spring (92902-08100)	1	
17	90387-09617-00	COLLAR	1	

SIDE COVER - TOOL



Ref. No.	Part Number	Description	Qty.	Remarks
18	4H7-21746-00-00	DAMPER.....	1	
19	4H7-2175R-00-00	HOOK, bank.....	1	
20	90480-16233-00	GROMMET.....	1	
21	4H7-21243-01-00	PLATE, bridge.....	1	
22	4H7-21170-00-00	BOX COMP.....	1	
23	4H7-21258-00-00	BOX.....	1	
24	90480-22084-00	GROMMET.....	1	
25	92503-06020-00	SCREW, pan head (92501-06020)	1	
26	92903-06100-00	WASHER, spring (92902-06100)	1	
27	90201-06557-00	WASHER, plate.....	1	
28	4H7-W2171-01-00	WHEEL LOCK ASS'Y.....	1	
29	4H7-23496-00-00	TAG, caution.....	1	
30	4H7-28100-10-00	TOOL KIT.....	1	

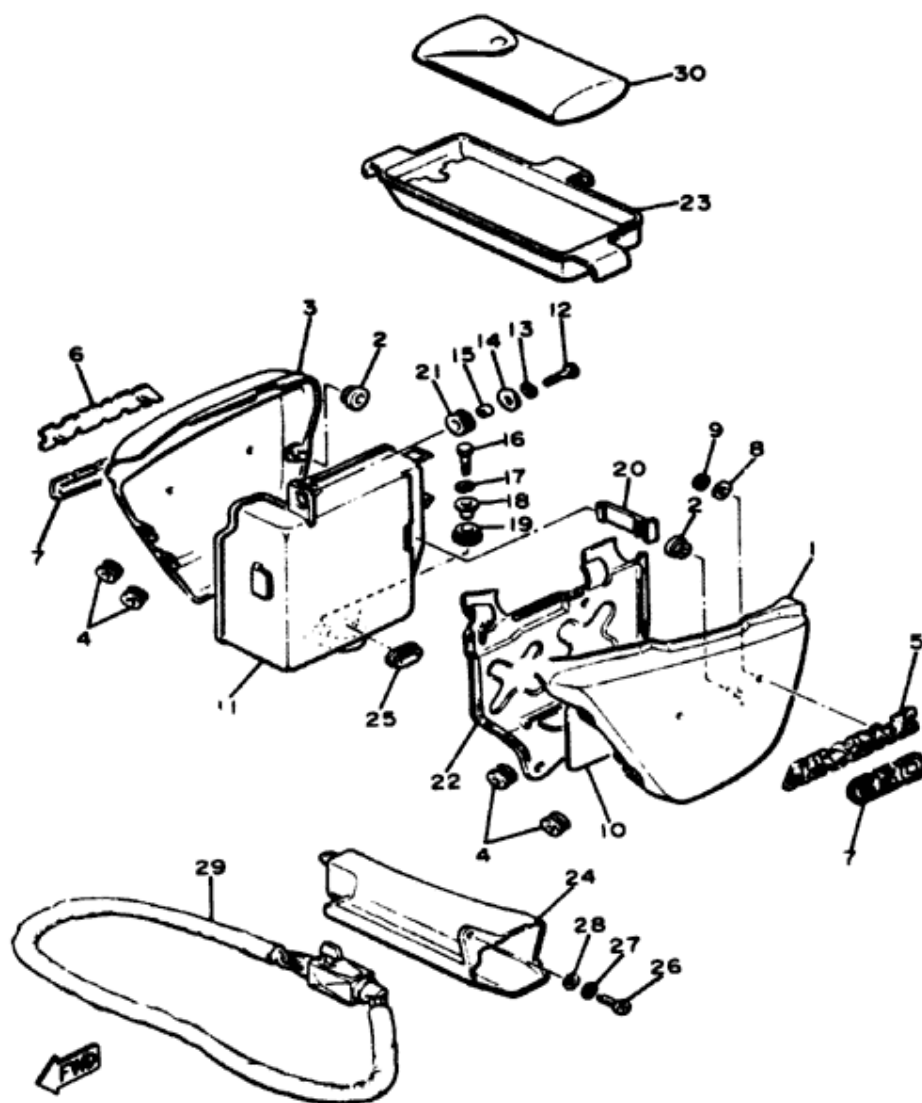


SIDE COVER - TOOL

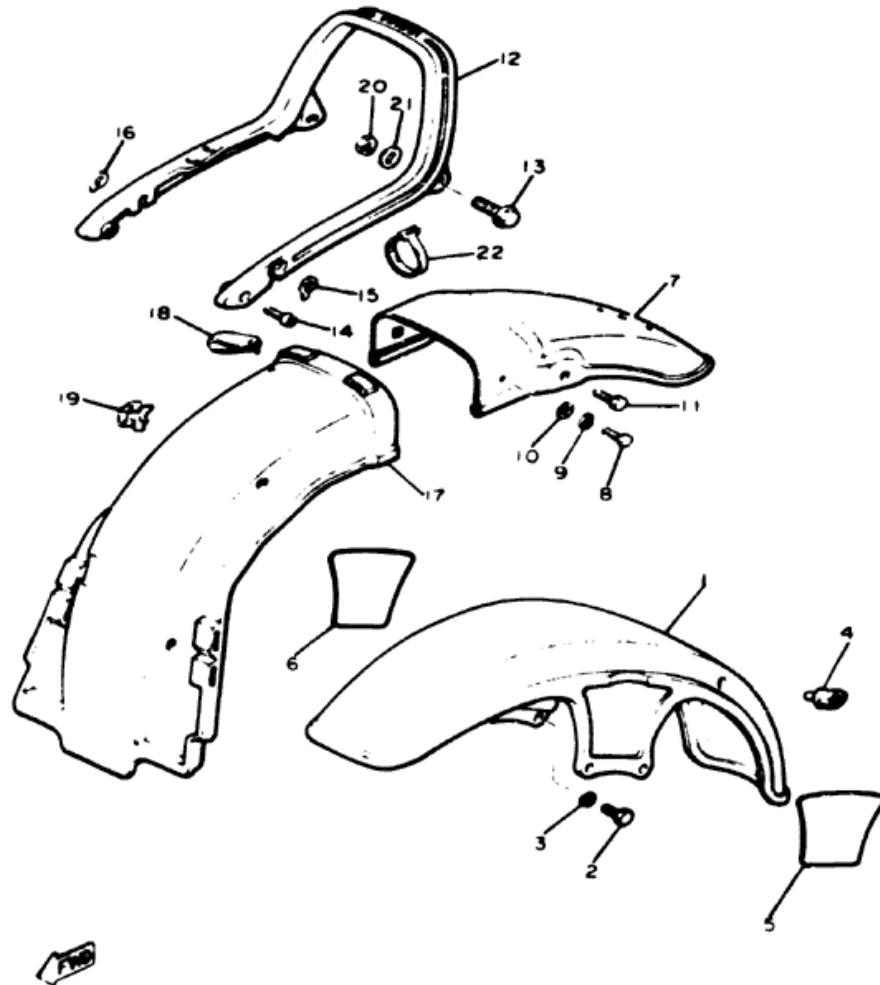
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-21711-00-2J	COVER, side (L.H.)	1	U.R. Black Red
	4H7-21711-00-9G	COVER, side (L.H.)	1	U.R. Frost Silver
2	90480-01141-00	GROMMET	2	
3	4H7-21721-01-2J	COVER, side (R.H.)	1	U.R. Black Red
	4H7-21721-01-9G	COVER, side (R.H.)	1	U.R. Frost Silver
4	90480-12053-00	GROMMET	4	
5	4H7-21781-10-00	EMBLEM 1	1	
6	4H7-21782-10-00	EMBLEM 2	1	
7	4H7-21783-00-00	EMBLEM 3	2	
8	90202-04003-00	WASHER, plate	4	
9	90183-04005-00	NUT, spring	4	
10	4H7-21683-10-00	PLATE, specification	1	
11	4H7-21240-01-00	BOX COMP.	1	
12	97321-08025-00	BOLT	1	
13	92903-06100-00	WASHER, spring (92902-06100)	1	
14	90201-06407-00	WASHER, plate	1	
15	90387-060A7-00	COLLAR	1	
16	97321-08025-00	BOLT (97322-08025)	1	

SIDE COVER - TOOL

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



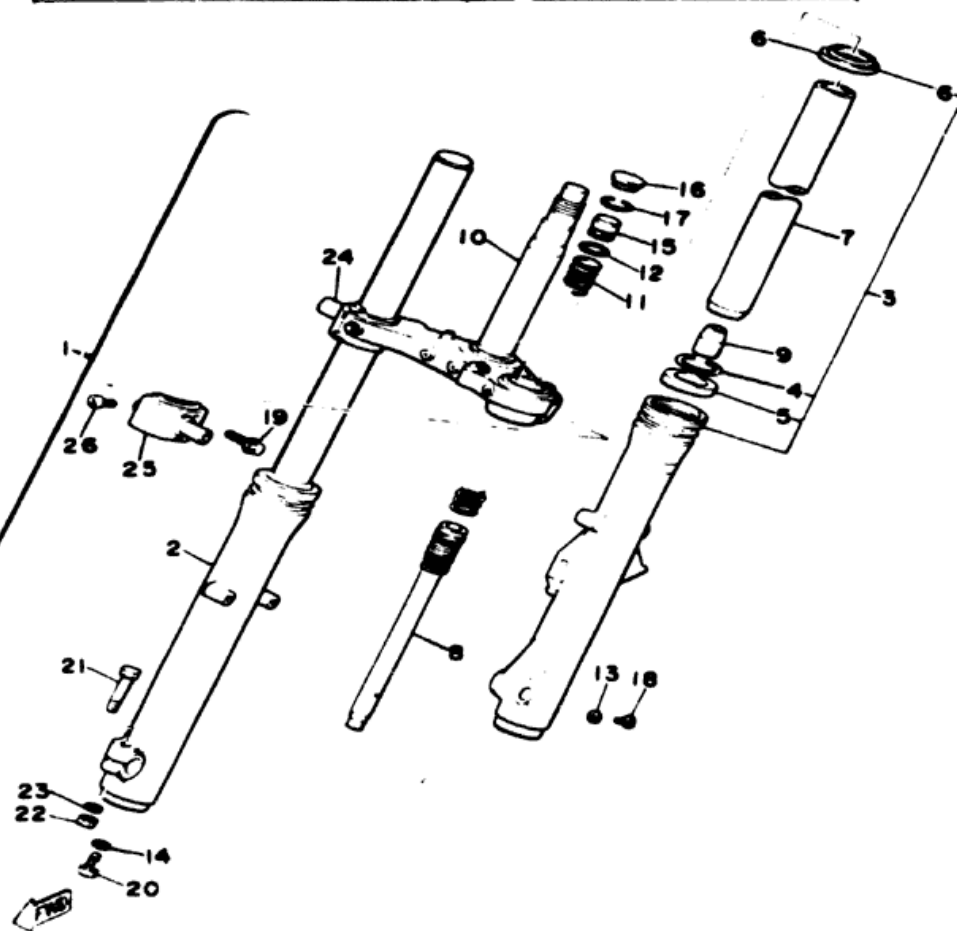
FRONT FENDER • REAR FENDER



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-21510-01-93	FENDER, front.....	1	Chrome Plated
2	97301-08020-00	BOLT.....	4	
3	92903-08100-00	WASHER, spring (92901-08100)	4	
4	1A0-21518-00-00	HOLDER, cable.....	1	
5	4H7-21575-00-00	SEAL 1.....	1	
6	4H7-21576-00-00	SEAL 2.....	1	
7	4H7-21610-00-93	REAR FENDER COMP.....	1	Chrome Plated
8	97321-08012-00	BOLT.....	2	
9	92903-06100-00	WASHER, spring (92901-06100)	2	
10	92901-06600-00	WASHER, plate.....	2	
11	97321-10035-00	BOLT.....	2	
12	4H7-21645-00-00	STAY, rear.....	1	
13	95821-10025-00	BOLT, flange.....	2	
14	91311-08030-00	BOLT.....	2	
15	4H7-22243-00-00	WASHER 1.....	1	
16	4H7-22244-00-00	WASHER 2.....	1	
17	4H7-21629-00-00	GUARD, mud.....	1	
18	90464-12027-00	CLAMP.....	1	
19	90464-16021-00	CLAMP.....	1	
20	95311-10600-00	NUT.....	2	
21	92903-10200-00	WASHER, plain (92901-10200)	2	
22	3L8-83936-00-00	BAND, switch cord.....	1	

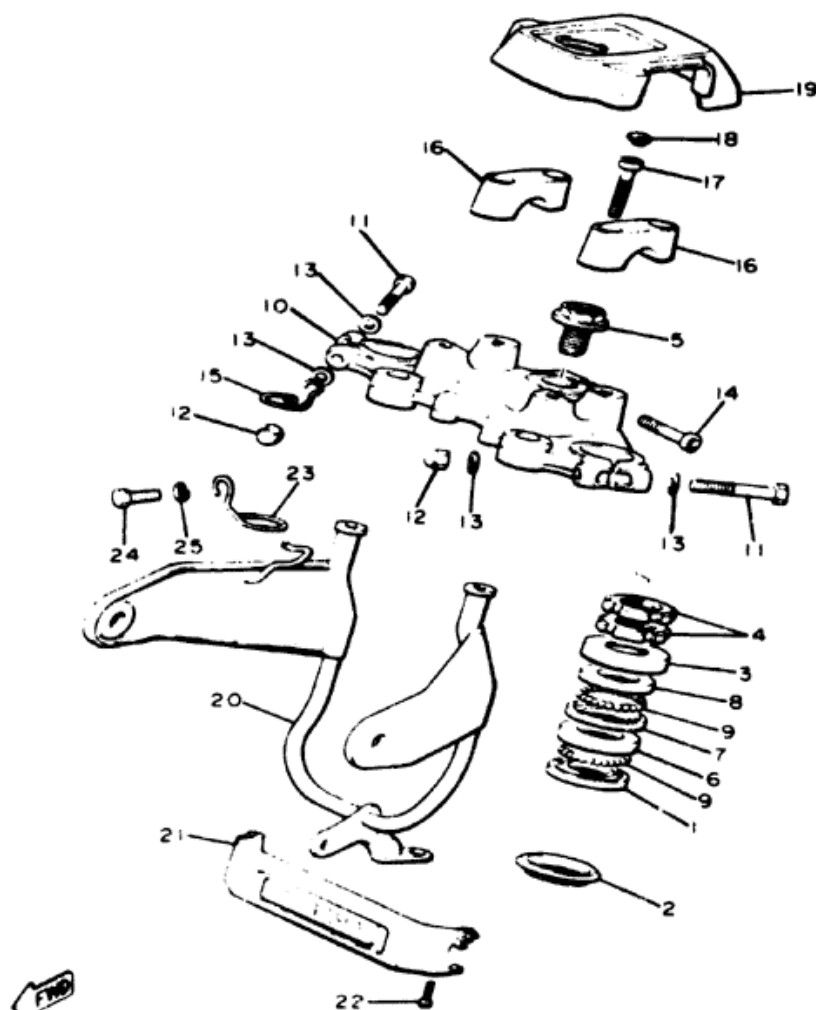
FRONT FORK

SUSPENSION			
Front Forks	Oil Type	Level	Qty.
	Gas Pressure		
	Spring Length Std		



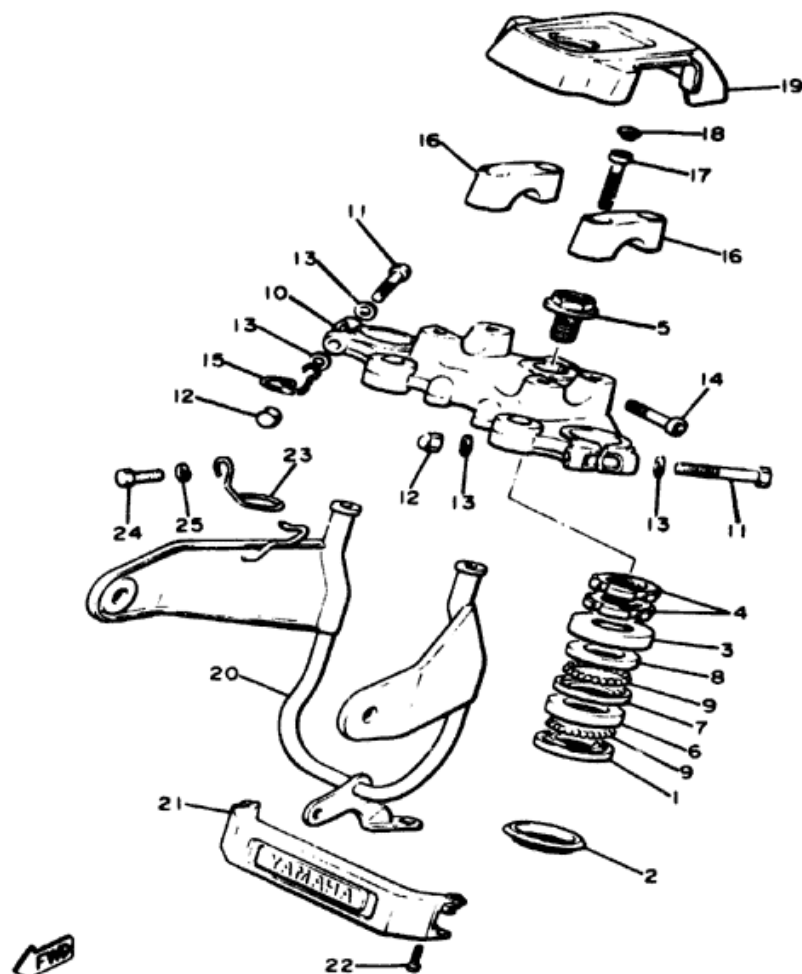
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-23101-00-00	FRONT FORK ASS'Y	1	
2	4H7-23136-00-00	TUBE, outer 2	1	
3	4H7-23126-00-00	TUBE, outer 1	1	
4	4A1-23156-00-00	CLIP, oil seal	2	
5	3J2-23145-00-00	OIL SEAL	2	
6	4H7-23144-00-00	SEAL, dust	2	
7	4H7-23110-00-00	INNER TUBE COMP. 1	2	
8	4H7-23170-00-00	CYLINDER COMP., front fork	2	
9	1W1-23173-L0-00	SPINDLE, taper	2	
10	4H7-23340-00-00	UNDERBRACKET COMP.	1	
11	4H7-23141-00-00	SPRING, front fork	2	
	4H7-23141-A0-00	SPRING, front fork	2	Heavy Duty
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	4H7-23119-00-00	PLUG, drain	2	
19	90119-08012-00	BOLT, with washer	4	
20	278-23181-50-00	BOLT, hexagon socket head	2	
21	97321-08045-00	BOLT	1	
22	95311-08600-00	NUT	1	
23	92903-08100-00	WASHER, spring (92901-08100)	1	
24	4H7-23132-00-00	COVER, outer 2	1	
25	4H7-23122-00-00	COVER, outer 1	1	
26	4H7-23181-00-00	BOLT, hexagon socket head	2	

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	136-23415-00-00	COVER, ball race 1.....	1	
4	90179-25033-00	NUT.....	2	
5	90105-14137-00	BOLT, washer based.....	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	4H7-23435-00-98	CROWN, handle.....	1	Low Gloss Blk
11	97313-08055-00	BOLT.....	2	
12	95303-08800-00	NUT, crown.....	2	
13	92901-08600-00	WASHER, plate.....	4	
14	91316-08040-00	BOLT.....	1	
15	4H7-23317-00-00	HOLDER, cable.....	1	
16	4H7-23441-00-98	HOLDER, handle upper.....	2	
17	91316-08030-00	BOLT.....	4	
18	341-23469-00-00	CAP, bolt.....	4	
19	4H7-26213-00-00	COVER, upper.....	1	
20	4H7-23174-00-00	STAY, headlight.....	1	
21	4H7-23395-00-00	EMBLEM.....	1	
22	98603-05012-00	SCREW, oval head.....	2	
23	2G2-23318-00-00	HOLDER, cable 1.....	1	
24	97301-06012-00	BOLT.....	1	
25	92903-06100-00	WASHER, spring (92901-06100)	1	

STEERING

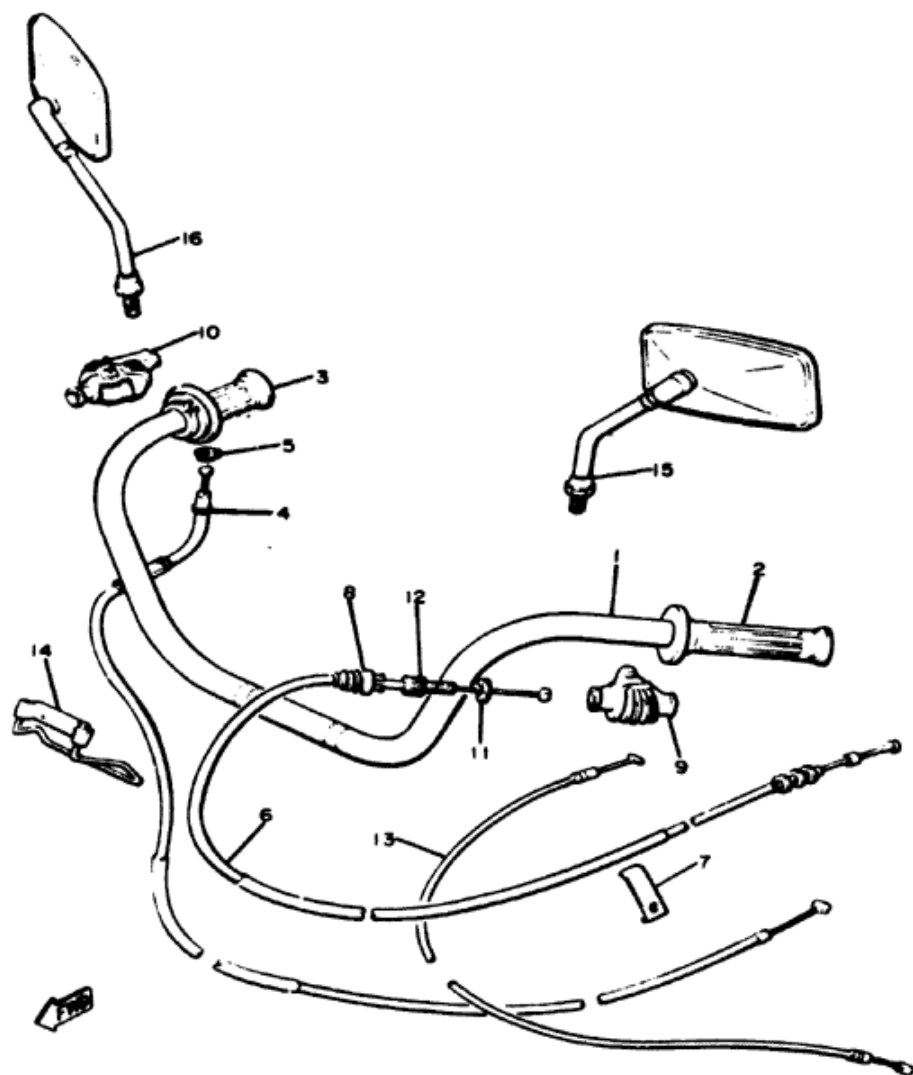


Ref. No.	Part Number	Description	Qty.	Remarks
1	256-23411-00-00	RACE, ball 1.....	1	
2	164-23462-00-00	SEAL, steering.....	1	
3	4K0-23415-00-00	COVER, ball race 1.....	1	
4	4H3-23454-00-00	NUT, fitting 2.....	2	
5	90105-14137-00	BOLT, washer based.....	1	
6	256-23412-00-00	RACE, ball 2.....	1	
7	256-23413-00-00	RACE, ball 3.....	1	
8	256-23414-00-00	RACE, ball 4.....	1	
9	93501-04011-00	BALL.....	38	
10	4H7-23435-00-98	CROWN, handle.....	1	Low Gloss Blk
11	97326-08055-00	BOLT.....	2	
12	95306-08800-00	NUT.....	2	
13	92906-08600-00	WASHER, plate.....	4	
14	91316-08040-00	BOLT.....	1	
15	4H7-23317-00-00	HOLDER, cable.....	1	
16	4H7-23441-00-98	HOLDER, handle upper.....	2	
17	91316-08030-00	BOLT.....	4	
18	341-23469-00-00	CAP, bolt.....	4	
19	4H7-26213-00-00	COVER, upper.....	1	
20	4H7-23174-00-00	STAY, headlight.....	1	
21	4H7-23395-00-00	EMBLEM.....	1	
22	98603-05012-00	SCREW, oval head.....	2	
23	2G2-23318-00-00	HOLDER, cable 1.....	1	
24	97301-06012-00	BOLT.....	1	
25	92903-06100-00	WASHER, spring (92901-06100)	1	

E-1



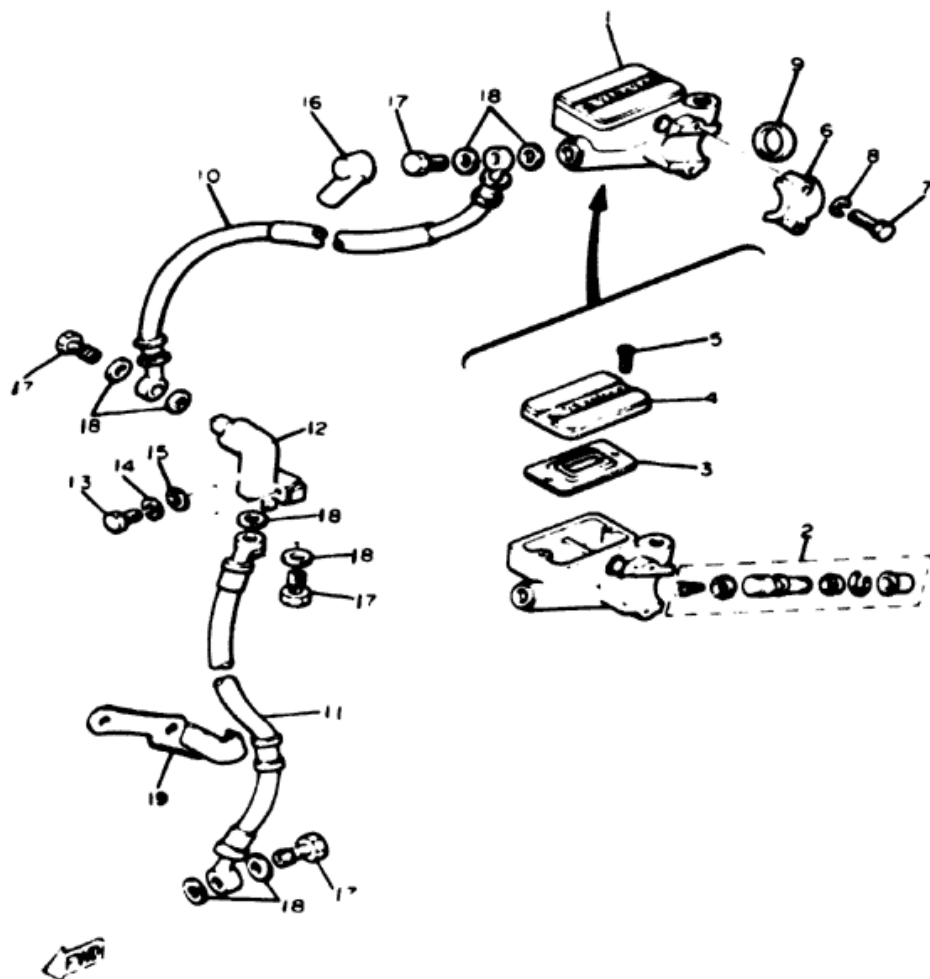
E-1



HANDLEBAR - CABLE

Ref. No.	Part Number	Description	Qty.
1	4H7-26111-10-00	HANDLEBAR	1
2	2H7-26241-00-00	GRIP (L.H.)	1
3	2H7-26240-00-00	GRIP ASS'Y	1
4	4W5-26311-00-00	CABLE, throttle 1	1
5	584-26393-02-00	HOLDER	1
6	4H7-26335-00-00	CABLE, clutch	1
7	4H7-26393-00-00	HOLDER	1
8	1E6-26342-00-00	BOOT, cable	1
9	1E6-26372-00-00	COVER, handle lever	1
10	1T5-26372-00-00	COVER, handle lever	1
11	90179-08148-00	NUT	1
12	90123-08046-00	BOLT	1
13	4H7-26331-00-00	CABLE, starter 1	1
14	1J7-26399-00-00	GUIDE, cable	1
15	4H7-26290-10-00	MIRROR ASS'Y	1
16	4H7-26290-00-00	MIRROR ASS'Y	1

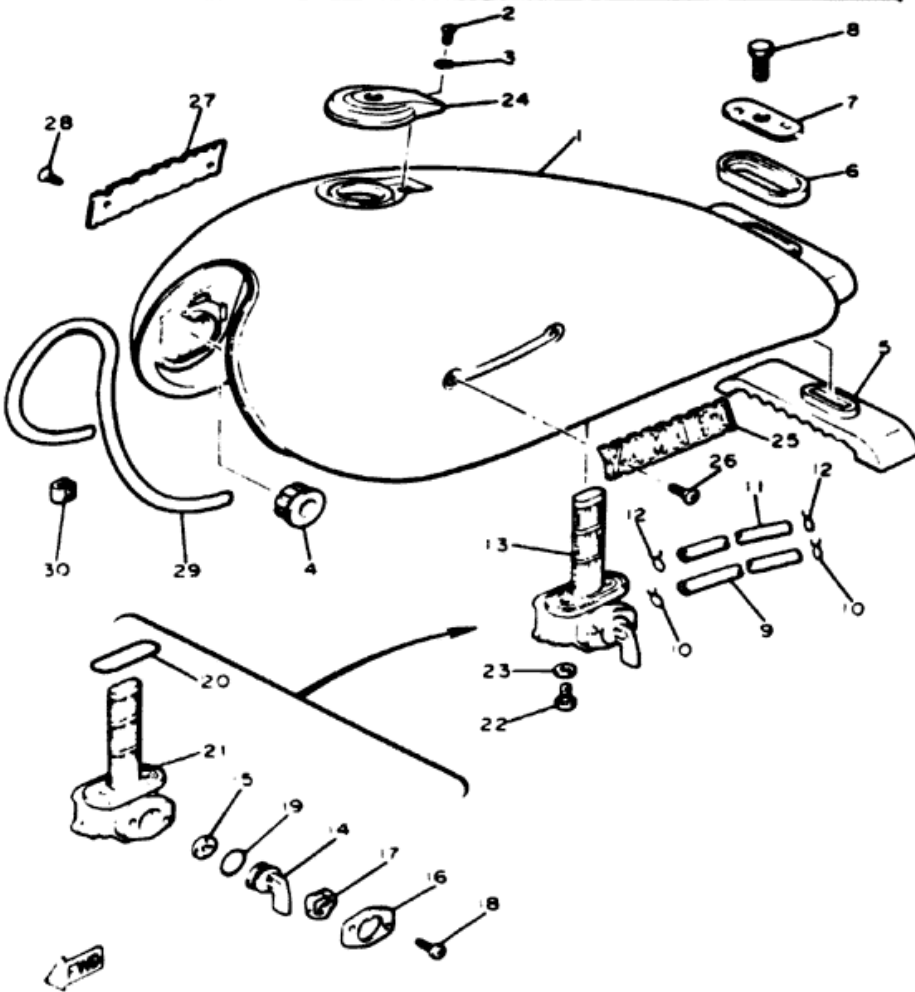
FRONT MASTER CYLINDER



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-25850-01-00	MASTER CYLINDER ASS'Y	1	
2	4H7-W0041-00-00	. CYLINDER KIT, master.	1	
3	4L0-25854-00-00	. DIAPHRAGM, reservoir.	1	
4	4L0-25852-00-00	. 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	90387-22660-00	COLLAR	1	
10	2G2-25872-01-00	HOSE, brake 1.	1	
11	4H7-25873-00-00	HOSE, brake 2.	1	
12	1J7-25885-01-00	JOINT	1	
13	97301-06025-00	BOLT	1	
14	92903-06100-00	WASHER, spring (92901-06100) . .	1	
15	92901-06600-00	WASHER, plate	1	
16	306-25862-00-00	BOOT, master cylinder	1	
17	90401-10034-00	BOLT, union	4	
18	90201-10118-00	WASHER, plate	8	
19	1J3-25876-02-00	HOLDER, brake hose 2	1	

FUEL TANK

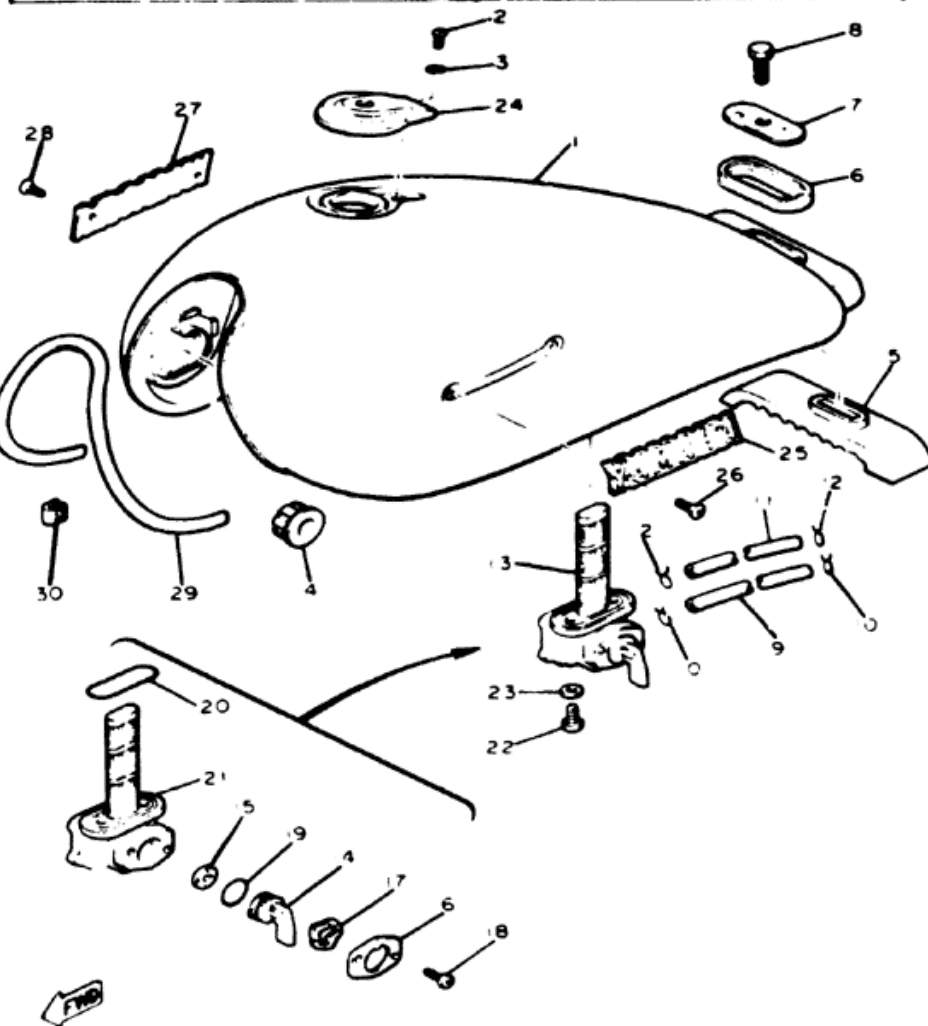
Basic Color(s)	Black Gold (B)	New Ruby Red (R)
Fuel Type · Fuel Tank Capacity · Reserve Capacity	Regular 13 Lit 13.4 Gal 1 · 3.4 Lit 10.9 Gal 1	



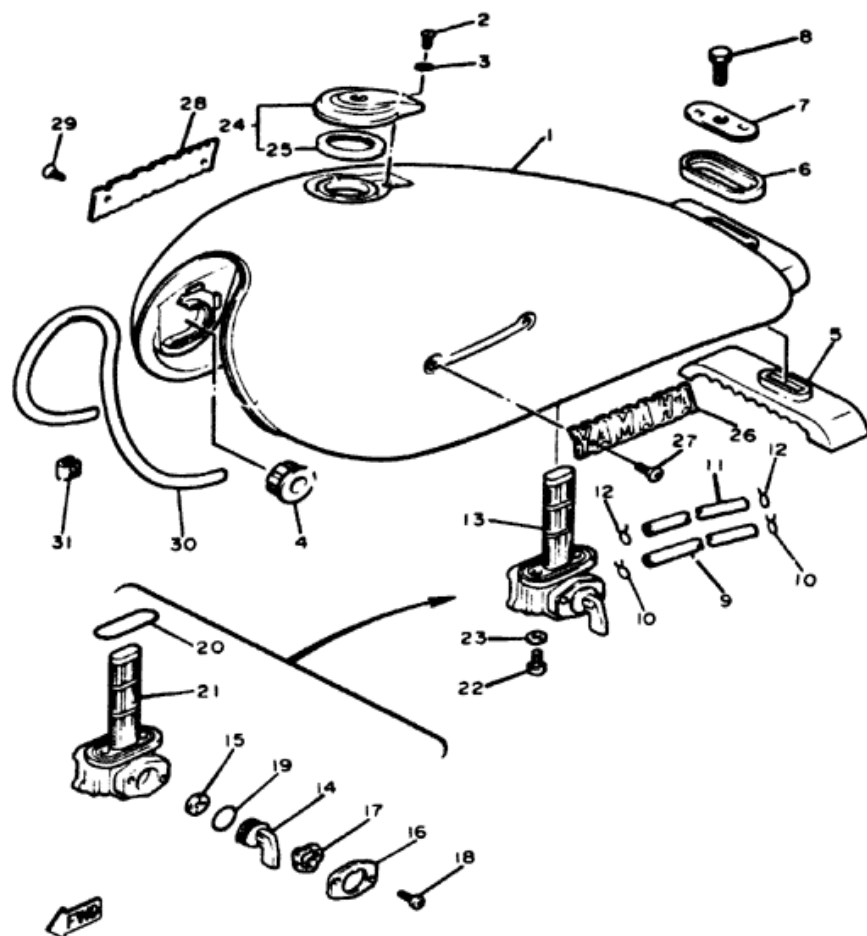
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-24110-00-6G	FUEL TANK COMP.	1	U.R. New Yamaha BR
	4H7-24110-00-7J	FUEL TANK COMP.	1	U.R. New Ruby Red
2	98501-05010-00	SCREW, pan head (98503-05008)	1	
3	92903-05100-00	WASHER, spring (92901-05100)	1	
4	4H7-24181-00-00	DAMPER, locating 1.....	2	
5	4H7-24182-01-00	DAMPER, locating 2.....	1	
6	4H7-24183-00-00	DAMPER, locating 3.....	1	
7	4H7-24186-00-00	WASHER, special	1	
8	97302-08016-00	BOLT	1	
9	90445-11501-00	HOSE.....	1	
10	90467-10008-00	CLIP.....	2	
11	90445-09500-00	HOSE.....	1	
12	90467-08003-00	CLIP.....	2	
13	4H7-24500-00-00	FUEL COCK ASS'Y 1	1	
14	4H7-24524-00-00	. LEVER, cock	1	
15	3H3-24523-00-00	. VALVE	1	

FUEL TANK

Basic Colors			Black Gold (B)		New Ruby Red (R)	
Fuel Type	Fuel Tank Capacity	Reserve Capacity	Regular	13 Lt. 3.4 Gal.	3.4 Lt. 10.9 Gal.	



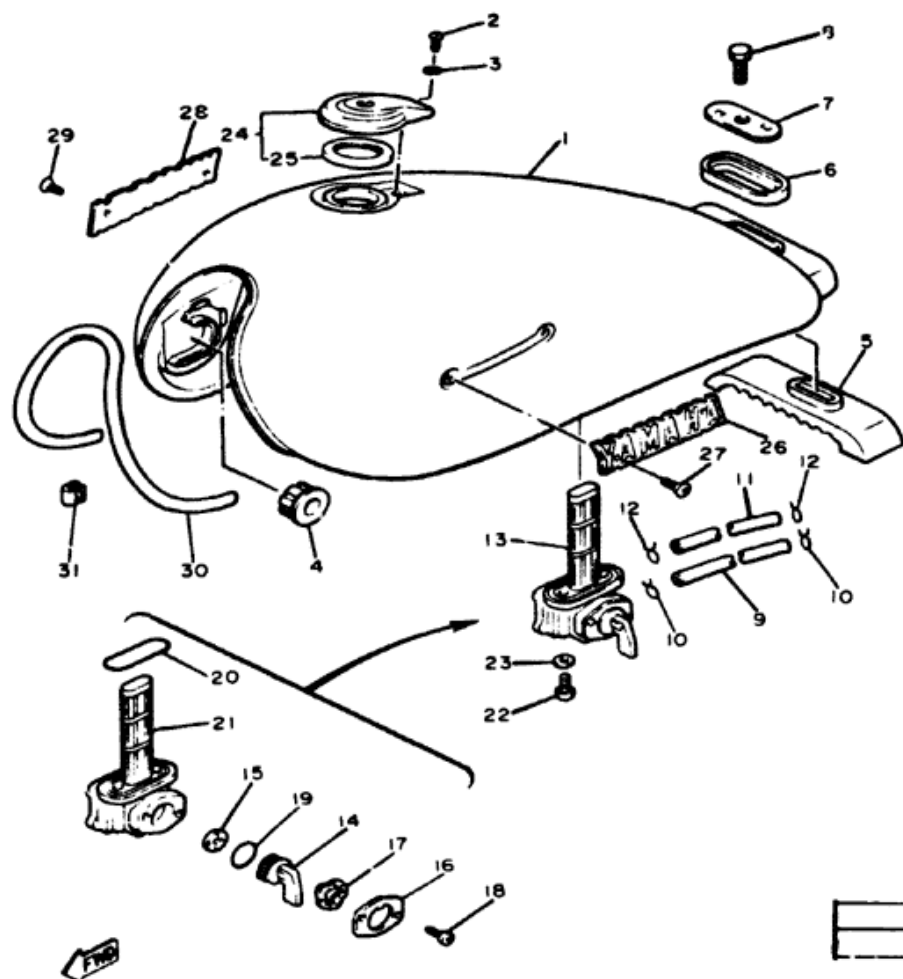
Ref. No.	Part Number	Description	Qty.	Remarks
16	4H7-24525-00-00	PLATE, lever fitting	1	
17	3H3-24518-00-00	WASHER, wave	1	
18	98501-03008-00	SCREW, pan head	2	
19	3H3-24534-00-00	O-RING	1	
20	2W6-24512-00-00	O-RING	1	
21	3H3-24514-00-00	FILTER, fuel cock	1	
22	90149-06011-00	SCREW	2	
23	90202-06010-00	WASHER, plate	2	
24	4X7-24602-00-00	CAP ASS'Y (4H7-24602-00)	1	
25	4H7-24161-00-00	EMBLEM 1	1	
26	90152-04006-00	SCREW, countersunk	2	
27	4H7-24162-00-00	EMBLEM 2	1	
28	90152-04006-00	SCREW, countersunk	2	
29	4H7-24189-00-00	PLATE, mold	1	
30	90468-03063-00	CLIP	5	



FUEL TANK

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-24110-00-2J	FUEL TANK COMP.	1	U.R. Black Red
	4H7-24110-00-9G	FUEL TANK COMP.	1	U.R. Frost Silver
2	98501-05010-00	SCREW, pan head (98503-05008)	1	
3	92903-05100-00	WASHER, spring (92901-05100)	1	
4	4H7-24181-00-00	DAMPER, locating 1	2	
5	4H7-24182-01-00	DAMPER, locating 2	1	
6	4H7-24183-00-00	DAMPER, locating 3	1	
7	4H7-24186-00-00	WASHER, special	1	
8	97301-08012-00	BOLT	1	
9	90445-11501-00	HOSE	1	
10	90467-10008-00	CLIP	2	
11	90445-09500-00	HOSE	1	
12	90467-08003-00	CLIP	2	

Basic Color(s)	Black Red (B)	Frost Silver (S)
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.)	

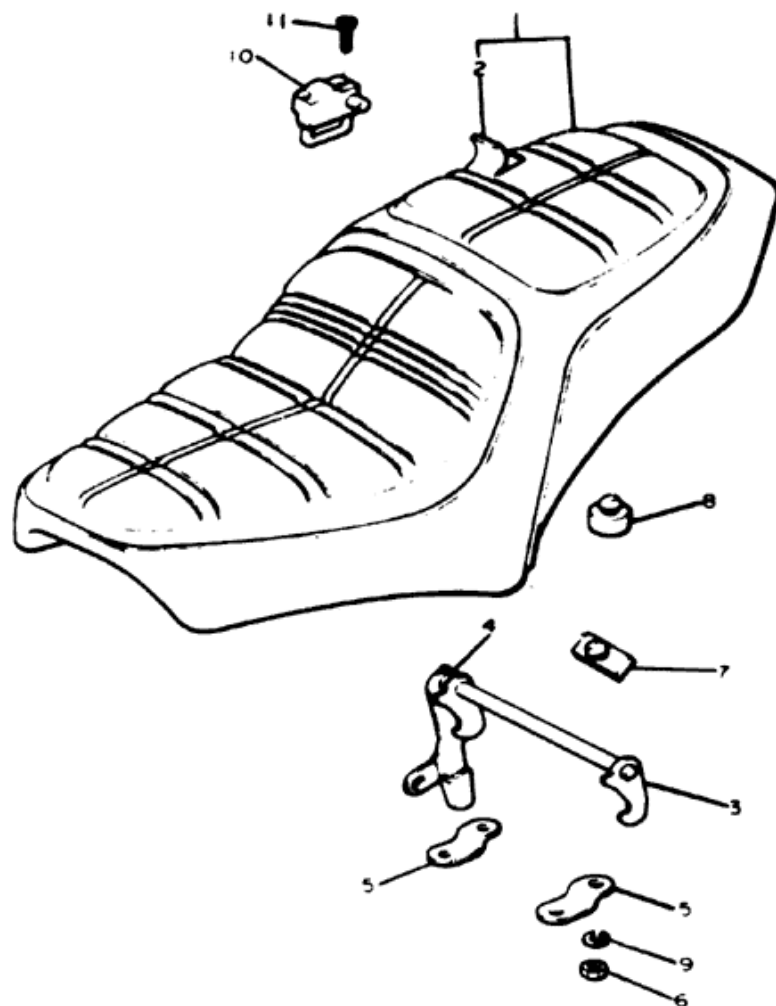


FUEL TANK

Ref. No.	Part Number	Description	Qty.	Remark
13	4H7-24500-00-00	FUEL COCK ASS'Y 1	1	
14	4H7-24524-00-00	. LEVER, cock	1	
15	3H3-24523-00-00	. VALVE	1	
16	4H7-24525-00-00	. PLATE, lever fitting	1	
17	3H3-24511-00-00	. WASHER, wave	1	
18	98501-02J08-00	. SCREW, pan head	2	
19	3H3-24534-00-00	. O-RING	1	
20	2W6-24512-00-00	. O-RING	1	
21	3Y1-24514-20-00	. NET, filter 1.....	1	
22	90149-06011-00	SCREW.....	2	
23	90202-06010-00	WASHER, plate	2	
24	4X7-24602-00-00	CAP ASS'Y (4H7-24602-00)	1	
25	4H7-24612-00-00	. GASKET, cap	1	
26	4H7-24161-00-00	EMBLEM 1.....	1	
27	90152-04006-00	SCREW, countersunk	2	
28	4H7-24162-00-00	EMBLEM 2.....	1	
29	90152-04006-00	SCREW, countersunk	2	
30	4H7-24189-00-00	PLATE, mold.....	1	
31	90468-03063-00	CLIP	5	

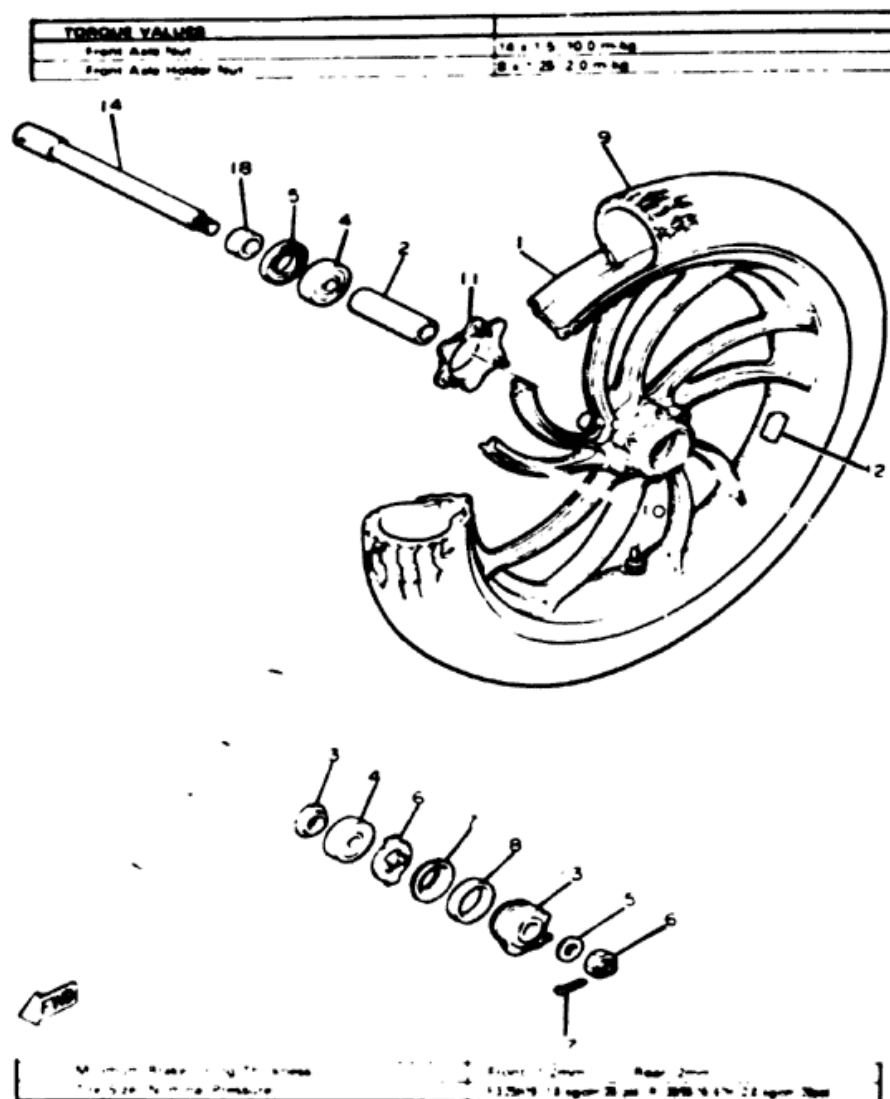
Basic Color(s)	Black Red (B)	Frost Silver (S)
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.)	

SEAT



Rev. No.	Part Number	Description	Qty.	Remarks
1	4H7-W2472-10-00	DOUBLE SEAT ASS'Y (4H7-W2472-00)	1	
2	4H7-24731-00-00	. COVER, double seat	1	
3	4H7-24776-00-00	LEVER, seat	1	
4	90508-20412-00	SPRING, torsion	1	
5	4H7-24775-00-00	BRACKET, seat lever	2	
6	95302-06600-00	NUT	4	
7	4H7-24723-00-00	DAMPER, seat	2	
8	278-27114-00-00	DAMPER, seat	2	
9	92903-06100-00	WASHER, spring (92902-06100)	4	
10	4H7-24705-00-00	SEAT LOCK ASS'Y	1	
11	98701-05016-00	SCREW, flat head	2	

FRONT WHEEL



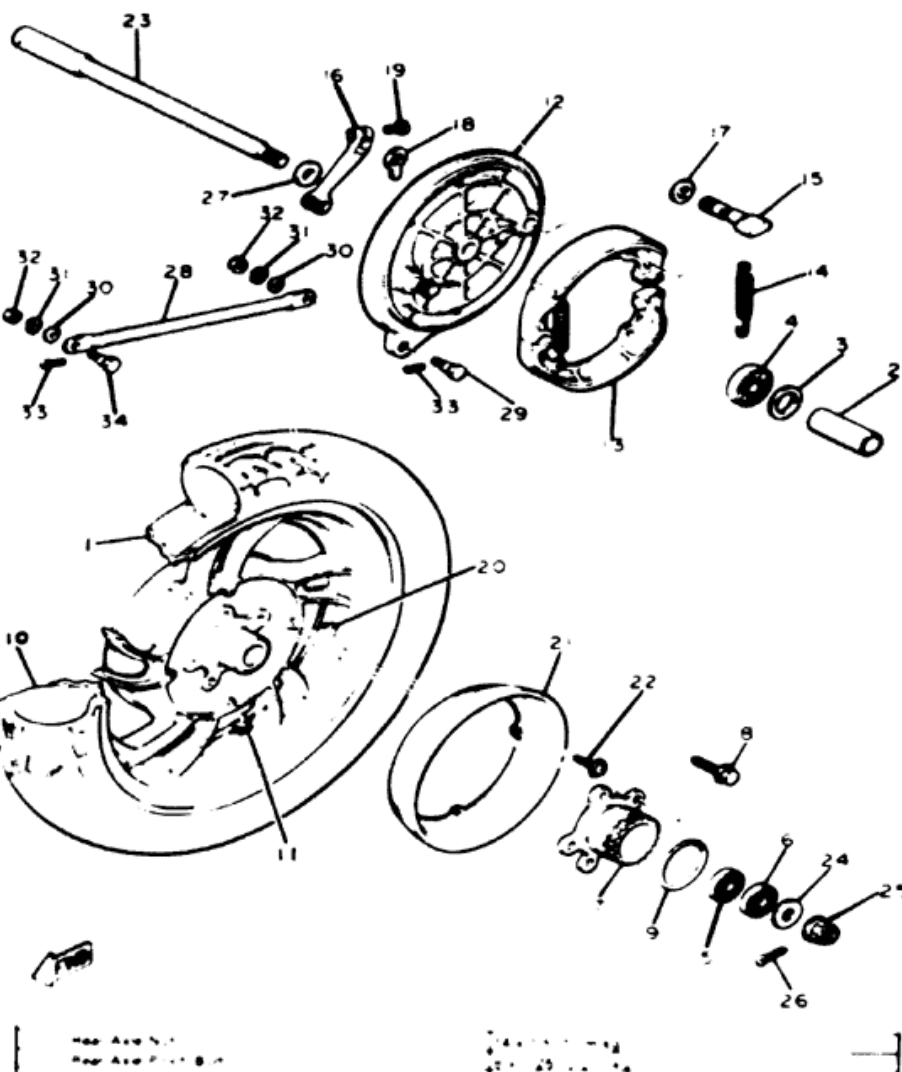
Ref No.	Part Number	Description	Qty.	Remarks
1	4H7-25168-20-98	CAST WHEEL, front (1.85-19) . . .	1	Low Gloss Blk
2	90580-15116-00	SPACER	1	
3	146-25115-00-00	FLANGE, spacer 1	1	
4	93306-30203-00	BEARING (B6302Z)	2	
5	93102-22014-00	OIL SEAL	1	
6	341-25149-00-00	CLUTCH, meter	1	
7	341-25846-00-00	RETAINER, clutch	1	
8	93106-45017-00	OIL SEAL	1	
9	94132-193M3-00	TIRE (3.25-19)	1	
	94132-19469-00	TIRE (3.25-19) (94132-19467)	1	
10	93900-00001-00	VALVE, rim (18024 101)	1	
11	1U4-25847-00-00	COVER, housing	1	
12	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.
13	4H7-25190-00-00	GEAR UNIT ASS'Y	1	
14	4H7-25181-01-00	AXLE, wheel (4H7-25181-00) . . .	1	
15	92901-14200-00	WASHER, plain	1	
16	90171-14020-00	NUT, castle	1	
17	91401-30030-00	PIN, cotter	1	
18	90387-15734-00	COLLAR	1	

FRONT BRAKE CALIPER

Ref. No.	Part Number	Description	Qty.	Remarks
1	1J3-25831-00-00	DISC, brake	1	
2	1J3-25834-01-00	WASHER, lock.	3	
3	90101-08312-00	BOLT	6	
4	4H7-25810-11-00	CALIPER ASS'Y (Left) (4H7-25810-10)	1	
5	2G2-W0047-00-00	CALIPER SEAT KIT	1	
6	4H7-W0045-10-00	BRAKE PAD KIT, front	1	
7	902J1-08689-00	WASHER, plate	1	
8	2G2-W0044-00-00	O-RING KIT, caliper	1	
9	2G2-25838-00-00	SLEEVE, caliper	1	
10	90201-09690-00	WASHER, plate	1	
11	2G2-25821-00-00	BOLT 1	1	
12	1J3-W0048-00-00	BREED SCREW KIT	1	
13	2G2-25919-00-00	PAD SPRING, caliper	1	
14	2G2-25849-01-00	RETAINER, caliper	1	
15	2G2-25916-00-00	CAP, pivot bolt	1	
16	95331-08600-00	NUT	1	
17	92903-08100-00	WASHER, spring (92901-08100)	1	

REAR WHEEL

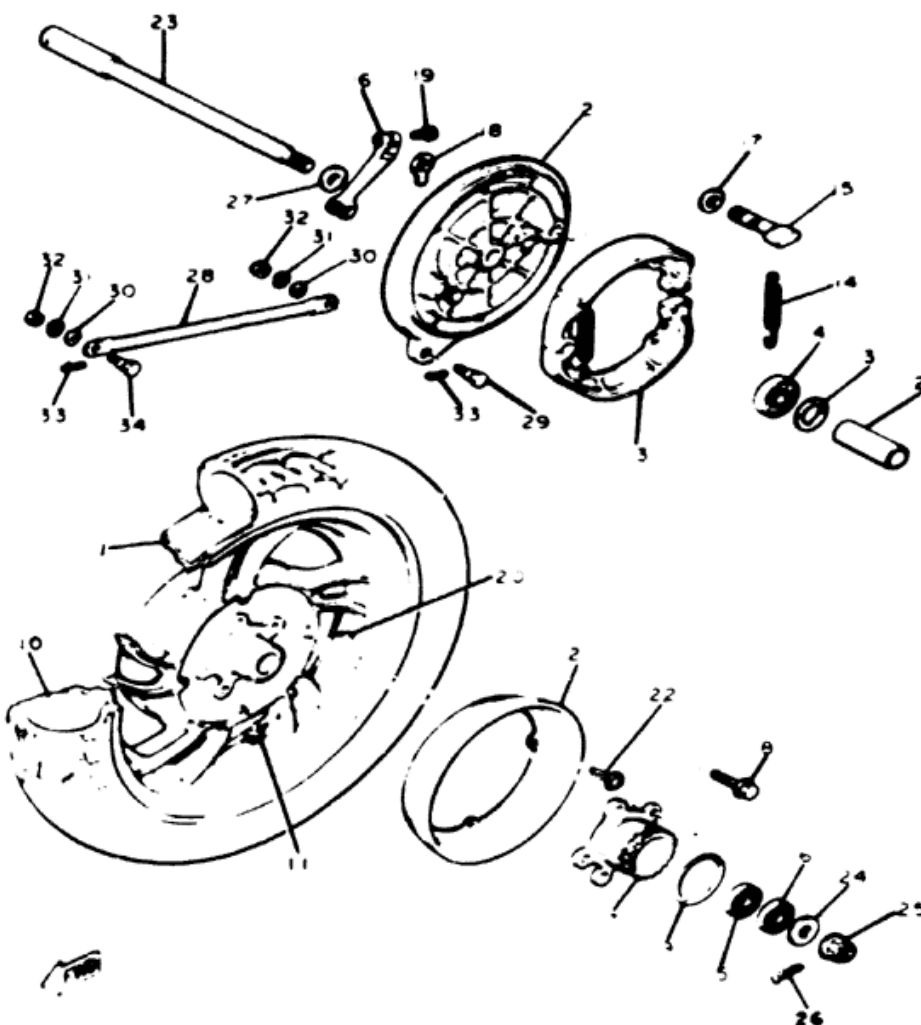
Minimum Brake Lining Thickness	Front 1.2mm	Rear 2mm
Tire Size Nominal Pressure	130/90 16 spm/28 psi	130/90 16 spm/28 psi



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-25338-20-98	CAST WHEEL, rear (3.00-16) ...	1	Low Gloss Blk
2	90580-17125-00	SPACER	1	
3	148-25315-00-00	FLANGE, spacer	1	
4	93306-30306-00	BEARING (B6303).....	1	
5	93306-20316-00	BEARING (B6203) (93306-20309)	1	
6	93306-20310-00	BEARING (B6203RS)	1	
7	4H7-25366-01-00	CLUTCH, hub.....	1	
8	95812-10025-00	BOLT, flange.....	5	
9	93210-57428-00	O-RING	1	
10	94113-16436-00	TIRE (130/90-16 67H)	1	
11	93900-00001-00	VALVE, rim (16024 101)	1	
12	4H7-25321-00-00	PLATE, brake shoe	1	
13	4H7-25330-01-00	BRAKE SHOE COMP. (4H7-25330-00).....	2	
14	90507-20002-00	SPRING, tension	2	
15	4H7-25351-00-00	CAMSHAFT	1	
16	371-25355-02-00	LEVER, camshaft.....	1	
17	90201-14677-00	WASHER, plate	1	
18	4H7-2533A-02-00	PLATE, indicator	1	
19	90101-06291-00	BOLT	1	

REAR WHEEL

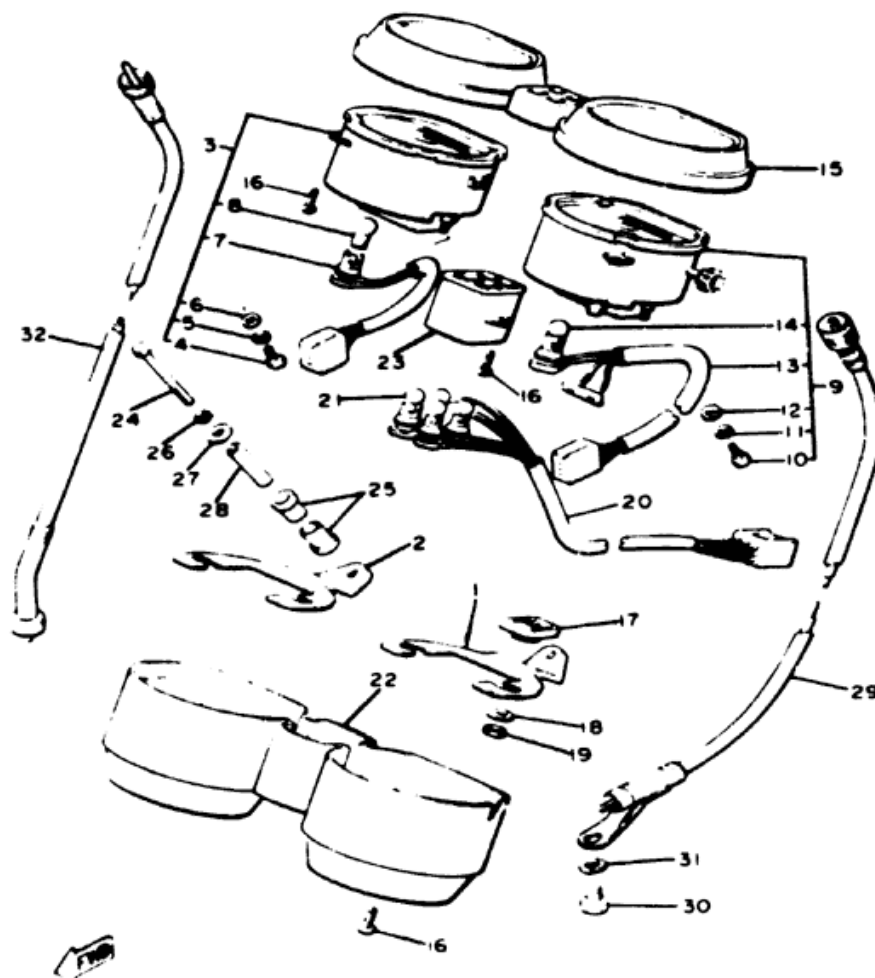
Minimum Brake Lining Thickness	Page 2 of 2	Rev 2/00
For See Technical Publication	11/20/98	11/20/98



Ref. No.	Part Number	Description	Qty.	Remarks
20	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.
21	4H7-25327-00-00	COVER, plate.....	1	
22	90159-06018-00	SCREW, with washer.....	4	
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	91401-20012-00	PIN, cotter.....	2	
34	90109-08368-00	BOLT.....	1	

SPEEDOMETER · TACHOMETER

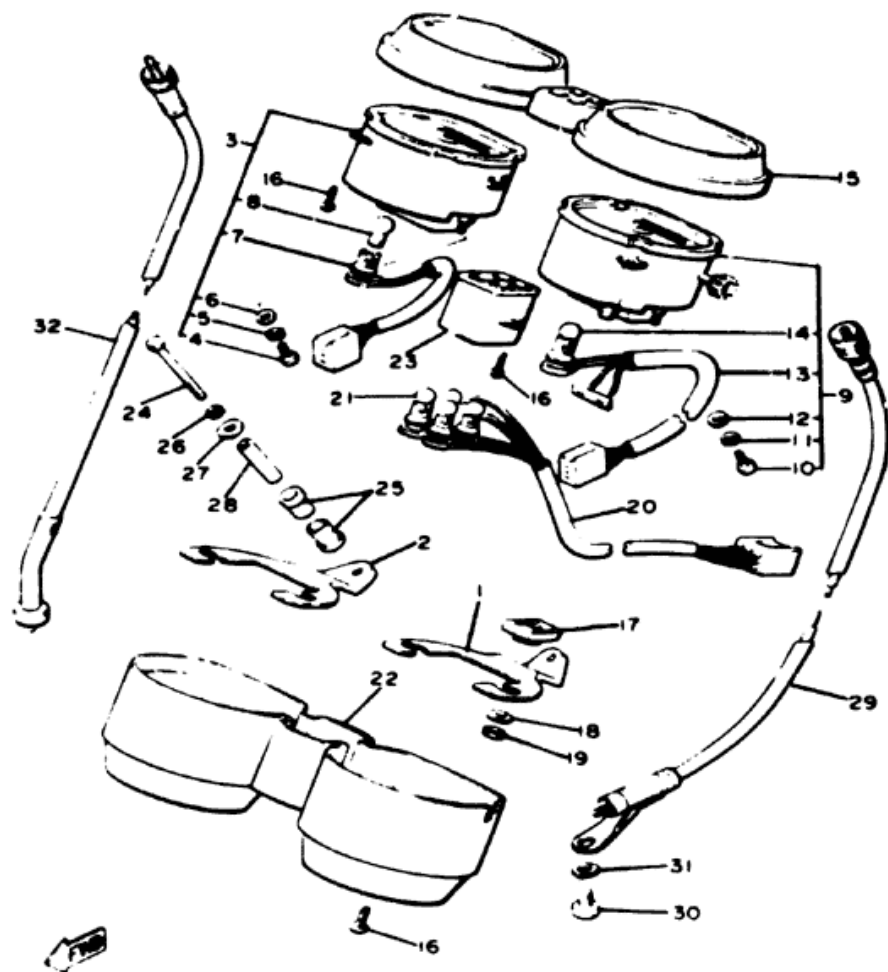
LIGHTING SYSTEM			
Headlight	Tailight	Signal	Rating
			12V50-40W 12V27 6W 12V27W



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-83519-00-00	BRACKET, meter	1	
2	4H7-83545-00-00	BRACKET, tachometer	1	
3	4H7-83540-00-00	TACHOMETER ASS'Y	1	
4	98501-04008-00	SCREW, pan head	2	
5	92901-04100-00	WASHER, spring	2	
6	92901-04600-00	WASHER, plate	2	
7	4H7-83520-00-00	SOCKET ASS'Y	1	
8	123-83516-21-00	BULB (12V-3.4W)	1	
9	4H7-83570-A0-00	SPEEDOMETER ASS'Y	1	
10	98501-04008-00	SCREW, pan head	2	
11	92901-04100-00	WASHER, spring	2	
12	92901-04600-00	WASHER, plate	2	
13	4H7-83536-00-00	SOCKET, meter	1	
14	123-83516-21-00	BULB (12V-3.4W)	1	
15	4H7-83559-A0-00	COVER, meter	1	
16	4H7-83616-00-00	SCREW, tapping	10	

SPEEDOMETER · TACHOMETER

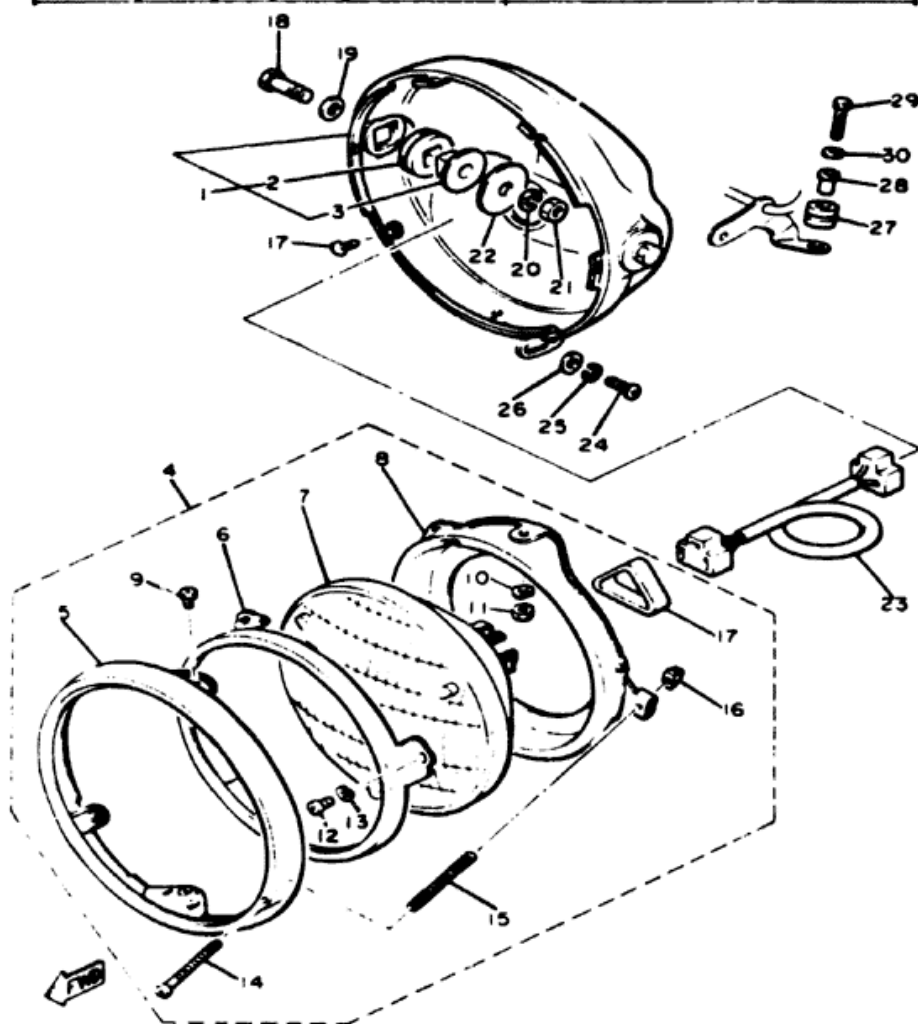
LIGHTING SYSTEM			
Headlight	Tailight	Signal	Rating
			12V/30-40W 12V/21-30W 12V/27W



Ref. No.	Part Number	Description	Qty.	Remarks
17	4H7-83523-00-00	DAMPER.	4	
18	1E6-83524-60-00	WASHER, special	4	
19	95301-05600-00	NUT.	4	
20	4H7-83509-00-00	SOCKET CORD ASS'Y.	1	
21	123-83516-21-00	BULB (12V-3.4W)	4	
22	4H7-83579-00-00	COVER, meter 2	1	
23	4H7-83587-00-00	BODY, pilot light	1	
24	97306-06045-00	BOLT	2	
25	584-83541-00-00	DAMPER.	4	
26	92906-06100-00	WASHER, spring	2	
27	90201-06067-00	WASHER, plate	2	
28	90387-06249-00	COLLAR	2	
29	2G2-83550-00-00	SPEEDOMETER CABLE ASS'Y	1	
30	90153-06004-00	SCREW, hexagon	1	
31	92903-06100-00	WASHER, spring (92901-06100)	1	
32	4H7-83560-00-00	TACHOMETER CABLE ASS'Y.	1	

HEADLIGHT

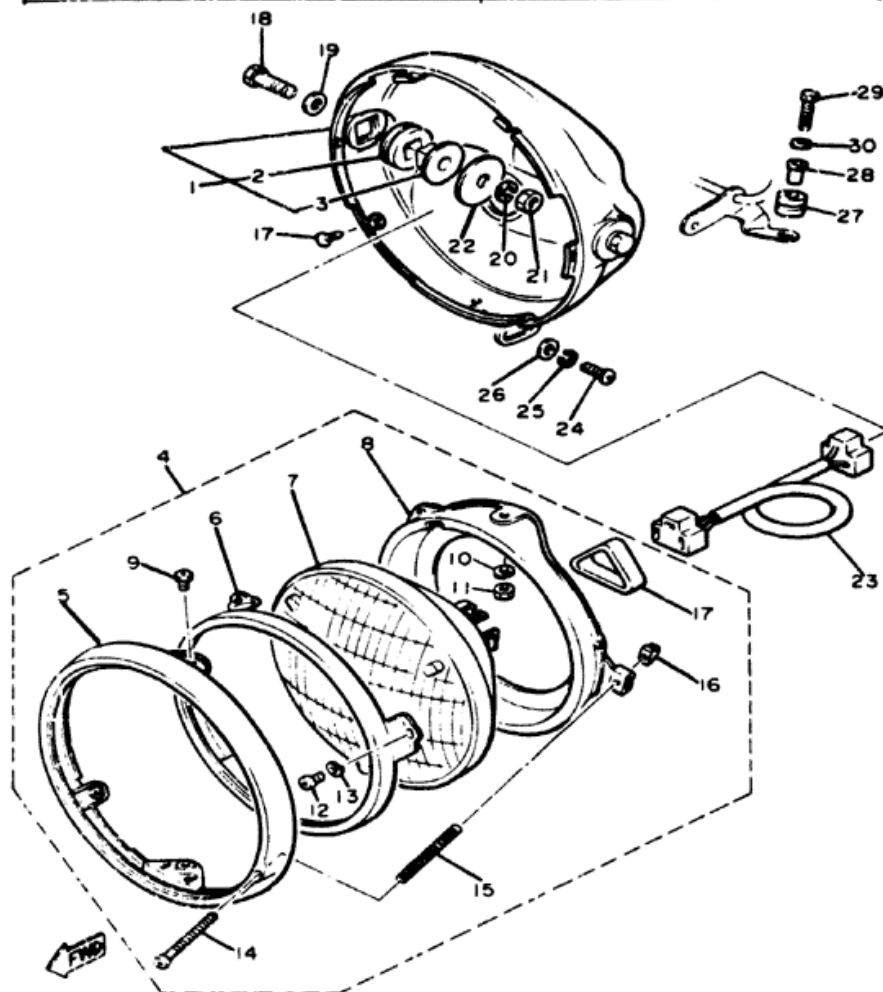
LIGHTING SYSTEM			
Headlight	Tailight	Signal Ring	12V50-40W / 12V27-8W / 12V27W



Ref. No.	Part Number	Description	Qty.	Remarks
1	3J6-84330-00-93	BODY ASS'Y	1	
2	584-84345-60-00	. DAMPER, headlight.	2	
3	584-84338-60-00	. COLLAR, body fitting.	2	
4	2J2-84310-60-00	HEADLIGHT UNIT ASS'Y	1	
5	341-84315-40-00	. RIM, headlight	1	
6	2F9-84395-00-00	. RING, retaining.	1	
7	341-84320-60-00	. LENS ASS'Y (12V-50/40W) ...	1	
8	2F9-84394-00-00	. RING, mounting	1	
9	98501-05010-00	. SCREW, pan head	2	
10	92903-05100-00	. WASHER, spring (92901-05100)	2	
11	95301-05600-00	. NUT	2	
12	98501-04008-00	. SCREW, pan head	3	
13	92901-04100-00	. WASHER, spring	3	
14	2F9-84331-00-00	. SCREW, rim adjusting.	1	
15	341-84332-60-00	. SPRING, screw	1	

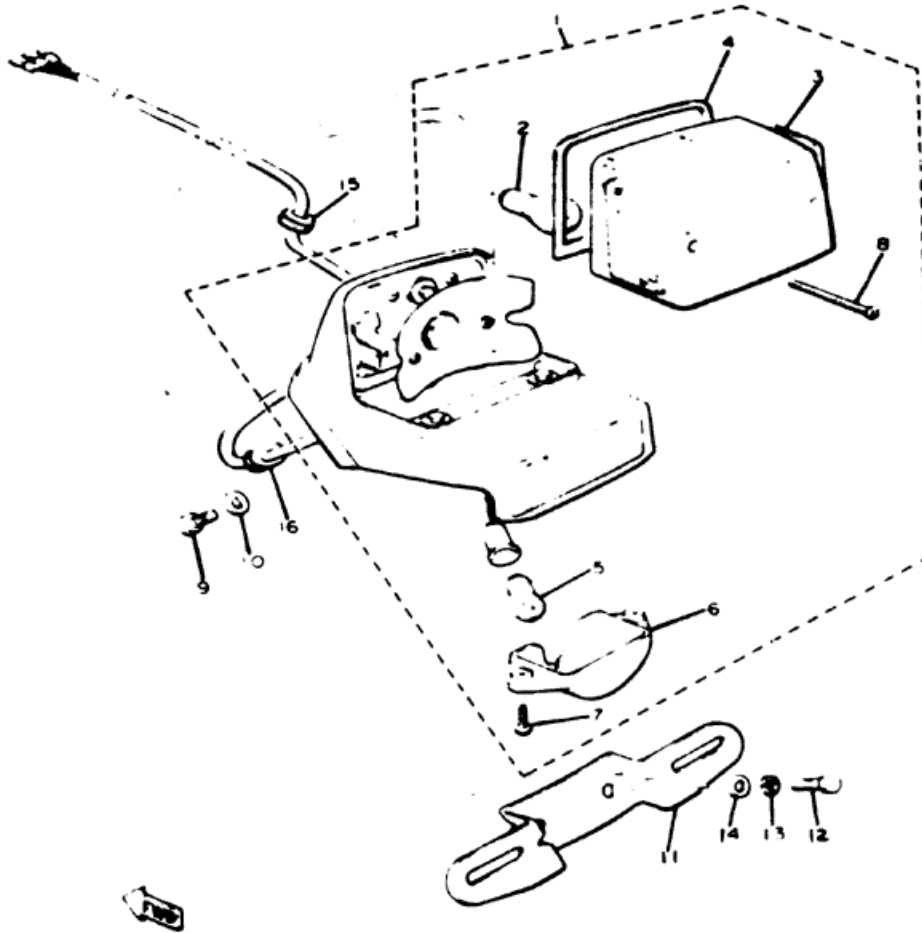
HEADLIGHT

LIGHTING SYSTEM		
Headlight / Taillight	Signal Rating	12V/50-60W / 12V/27-30W / 12V/27W

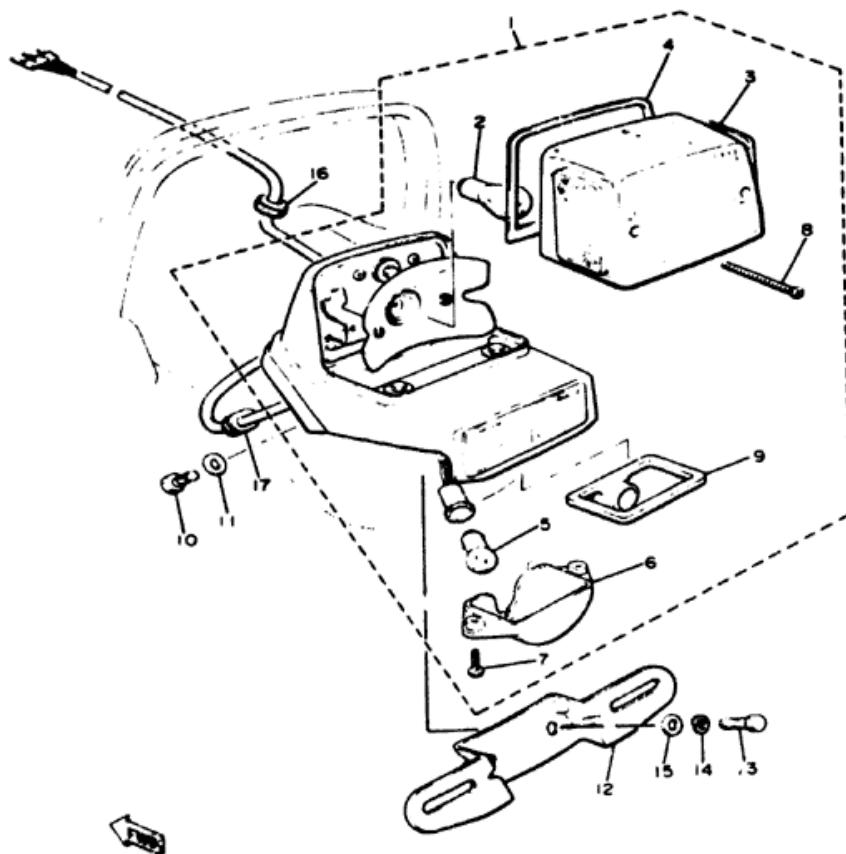


Ref. No.	Part Number	Description	Qty.	Remarks
16	198-84334-60-00	. NUT, adjusting	1	
17	341-84397-61-00	. COVER, socket.....	1	
18	97301-08030-00	BOLT	2	
19	92903-08200-00	WASHER, plain	2	
20	92903-08100-00	WASHER, spring (92901-08100)	2	
21	95301-08600-00	NUT.....	2	
22	90209-08098-00	WASHER	2	
23	2H7-84359-00-00	CORD, headlight	1	
24	92503-06015-00	SCREW, pan head (92501-06015)	1	
25	92903-06100-00	WASHER, spring (92901-06100)	1	
26	90201-06067-00	WASHER, plate	1	
27	90480-14101-00	GROMMET.....	1	
28	90387-06388-00	COLLAR	1	
29	97301-06025-00	BOLT	1	
30	92901-06600-00	WASHER, plate	1	

LIGHTING SYSTEM			
Headlight	Tailight	Signal Ring	12V/50-60W 12V/75W 12V/75W



F-2



TAILLIGHT

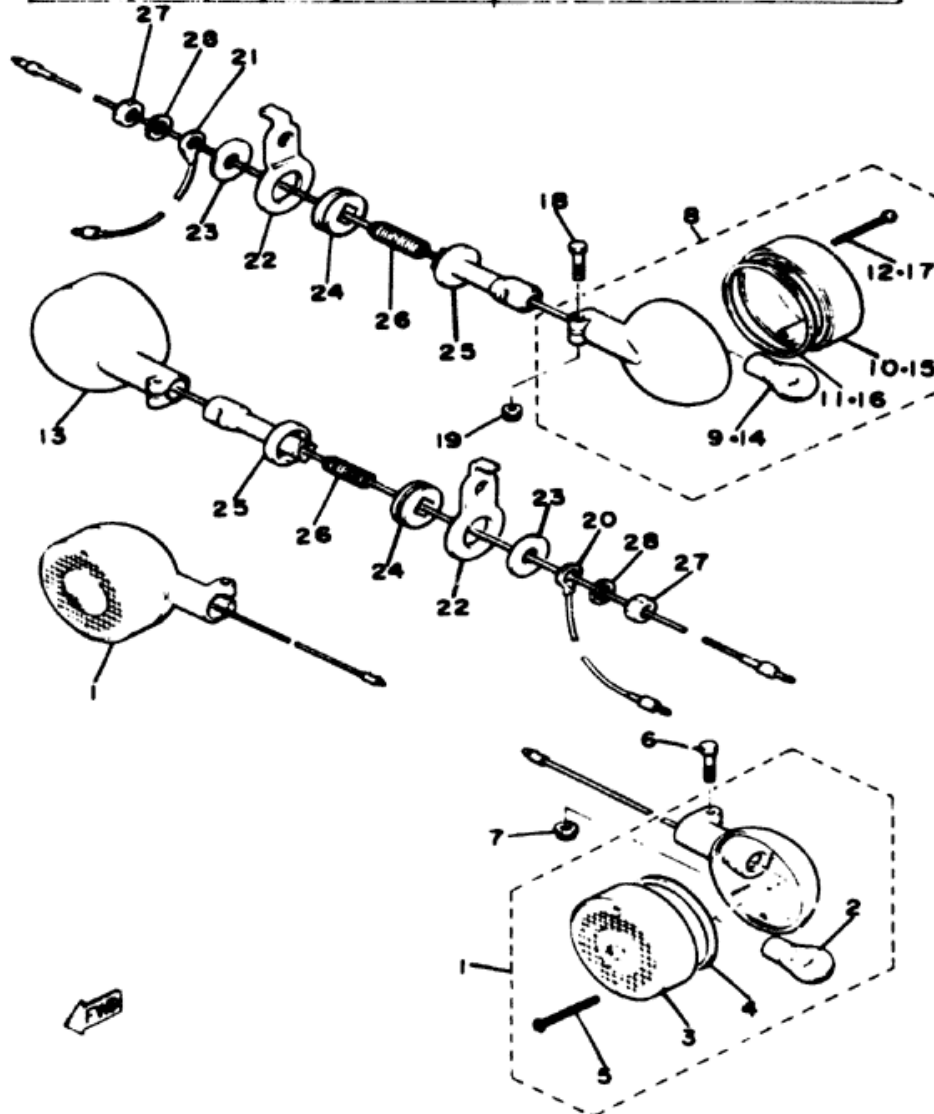
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-84700-80-93	TAILLIGHT ASS'Y	1	Chrome Plated
2	256-84714-61-00	. BULB (12V-27/8W)	1	
3	4H7-84721-60-00	. LENS, taillight.....	1	
4	4H7-84723-00-00	. GASKET, tail lens.....	1	
5	4H7-84744-00-00	. BULB (12V-38W)	1	
6	4H7-84743-00-00	. LENS, license light.....	1	
7	98503-04014-00	. SCREW, pan head (98503-04015)	2	
8	802-84131-00-00	. SCREW, rim adjuster.....	2	
9	4H7-84753-60-00	. DAMPER.....	1	
10	97301-06016-00	BOLT.....	3	
11	92901-06600-00	WASHER, plate	3	
12	4H7-84751-01-93	BRACKET, license.....	1	Chrome Plated
13	97301-06016-00	BOLT.....	2	
14	92903-06100-00	WASHER, spring (92901-06100)	2	
15	92901-06600-00	WASHER, plate	2	
16	90480-16112-00	GROMMET.....	1	
17	90480-15061-00	GROMMET.....	1	

Headlight / Taillight / Signal Rating

12V50-40W / 12V27-8W / 12V27W

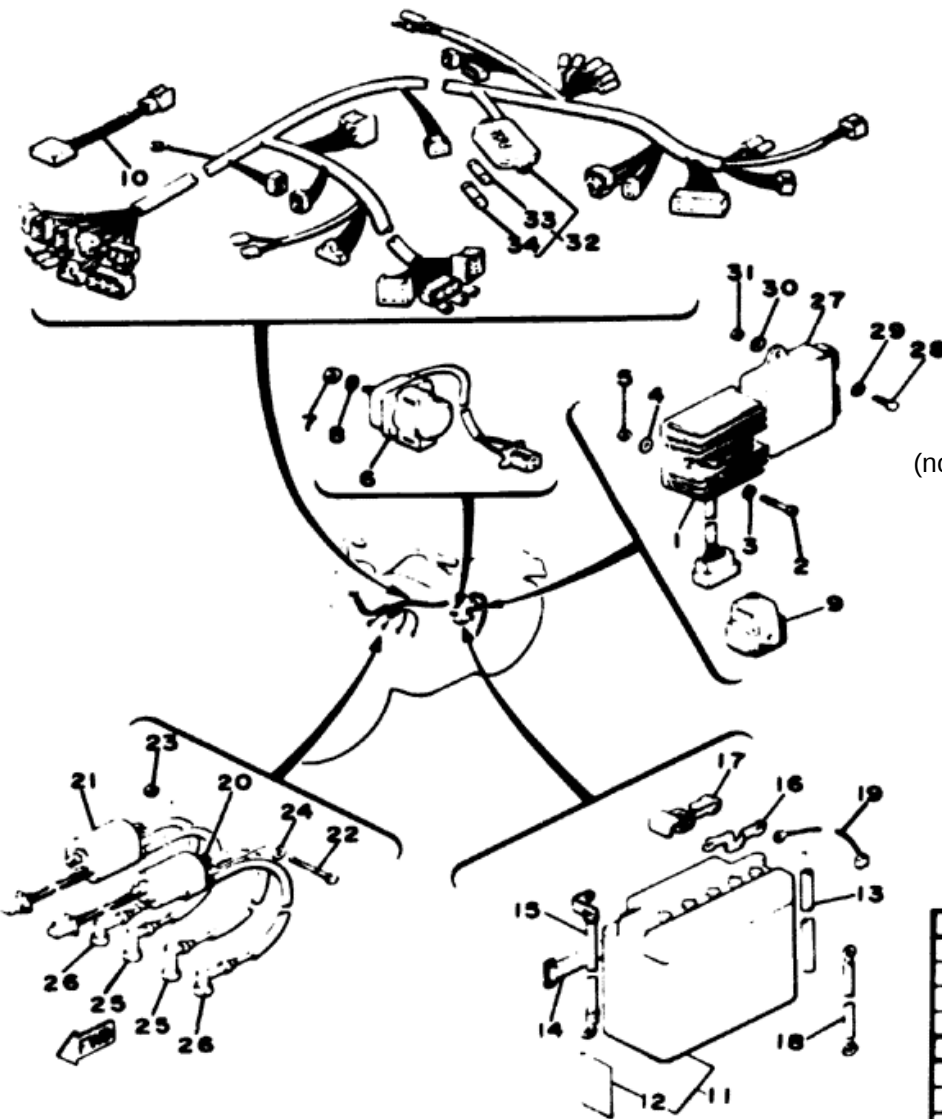
FLASHER LIGHT

LIGHTING SYSTEM			
Headlight	Tailight	Signal	Alarm
	12V/30-40W	12V/27-8W	12V/27W



Ref. No.	Part Number	Description	Qty.	Remarks
1	4J1-83310-K0-00	FRONT FLASHER LIGHT ASS'Y 1 (4H7-83310-K0).....	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	97303-06030-00	BOLT	2	
7	95701-06100-00	NUT, flange	2	
8	4H7-83330-K0-00	REAR FLASHER LIGHT ASS'Y 1	1	
9	256-83311-70-00	. BULB (12V-27W)	1	
10	4H7-83312-00-00	. LENS, flasher	1	
11	4H7-83313-00-00	. GASKET, flasher lens	1	
12	98501-03030-00	. SCREW, pan head	2	
13	4H7-83340-K0-00	REAR FLASHER LIGHT ASS'Y...	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	98501-03030-00	. SCREW, pan head	2	
18	97303-06030-00	BOLT	2	
19	95701-06100-00	NUT, flange	2	
20	4H7-83364-00-00	WIRE, earth lead 2	1	
21	4H7-83354-00-00	WIRE, earth lead 1	1	
22	4H7-83318-01-00	STAY, flasher 1	2	
23	90201-10146-00	WASHER, plate	2	
24	341-83321-01-00	DAMPER, flasher 1	2	
25	2H7-83318-00-00	STAY, flasher 1	2	
26	2H7-83325-00-00	BOLT, flasher stay fitting	2	
27	95301-10600-00	NUT	2	
28	92903-10100-00	WASHER, spring (92901-10100)	2	

ELECTRICAL 1

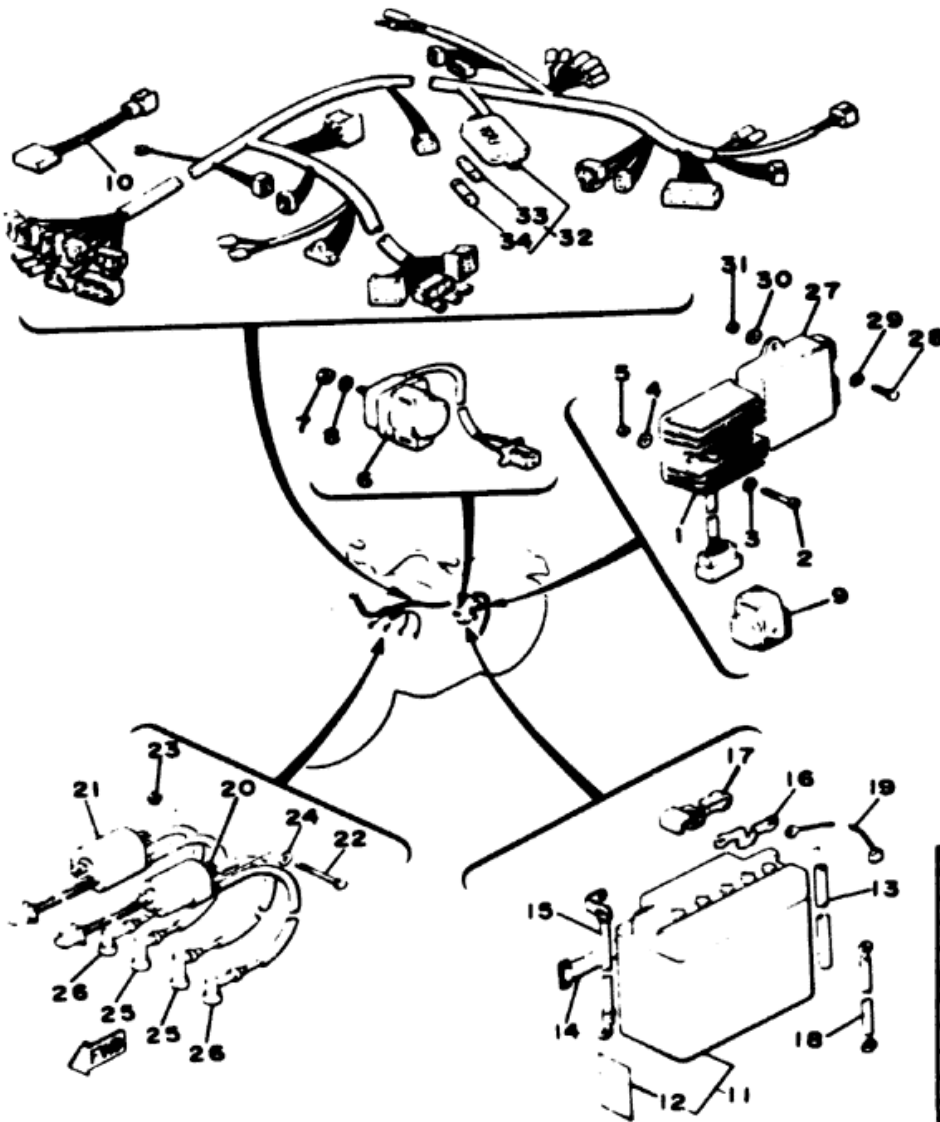


(not shown) 12R-81950-00-00 Ignition cut-off relay (replaces 4H7-81950-01-00)

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81980-50-00	RECTIFIER & REGULATOR ASS'Y	1	
2	92501-06030-00	SCREW, pan head.....	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	RELAY ASS'Y.(Headlight relay)	1	U.R.
	(not shown) 12R-81950-00-00	Ignition cut-off relay (replaces 4H7-81950-01-00)		
10	4H7-81980-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	

CHARGING SYSTEM				AC Generator 3 Phase Full Wave	
Battery Model	Specific Gravity	Chg Rate		Yuasa 12N12A 4A 1 (12V12AH)	1.28 1.2A
Maximum Output				14V19A @ 5000 rpm	
TROUBLESHOOTING					
Field Coil Color Code	Ω			Resistor ~ Brn 4.8 Ω ± 10% Sensor Wht ~ Wht 8.4 Ω ± 10%	
IGNITION SYSTEM				Transistor Controlled Ignition	
Ignition Timing				10° Mark	
				Std 10° @ 1050 rpm Adv 37.5 ± 2° @ 4100 rpm	
Spark Plug Type				NGK BP 7ES or Nippon Denso W22EP	
Spark Plug Gap Torque Cap Ω				0.7~0.8mm 2.8 meg Cyl 164 5K Ω ± 5% Cyl 263 1K Ω ± 5%	
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%	
LIGHTING SYSTEM					
Headlight	Tailight	Signal Rating		12V50-40W / 12V27 8W 12V27W	

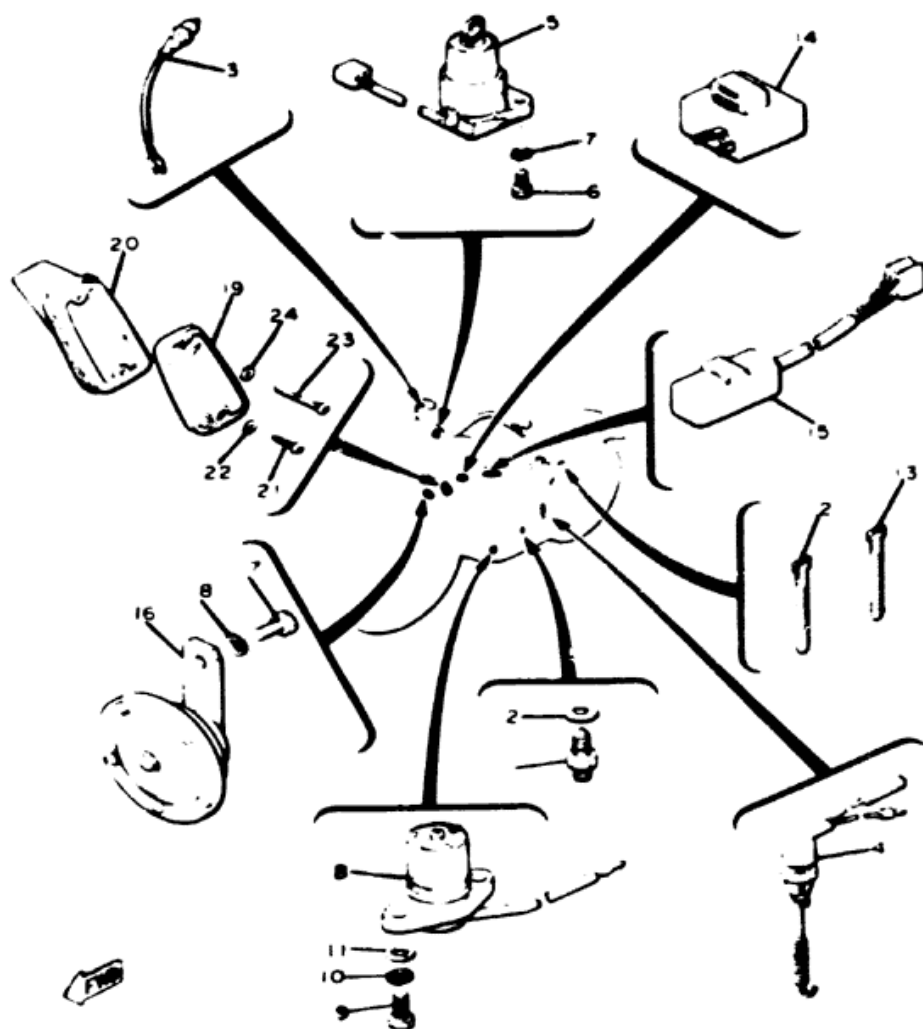
ELECTRICAL 1



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	97301-06080-00	BOLT.....	2	
23	95302-06600-00	NUT.....	2	
24	92903-06200-00	WASHER, plain (92901-06200)	4	
25	1J7-82370-00-00	PLUG CAP ASS'Y.....	2	
26	256-82370-00-00	PLUG CAP ASS'Y.....	2	
27	4H7-82305-10-00	IGNITOR UNIT ASS'Y.....	1	
28	92503-06015-00	SCREW, pan head (92502-06016)	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	4H7-82590-50-00	WIRE HARNESS ASS'Y.....	1	
33	1A0-82151-00-00	FUSE (12V-10A).....	1	
34	1A0-82161-00-00	FUSE (12V-20A).....	1	

CHARGING SYSTEM				AC Generator : 3 Phase / Full Wave
Battery Model	Specific Gravity	Chg Rate	Yucca 12N12A 4A-1 (12V12AH) 1.27 / 1.2A	
Maximum Output				14V19A @ 5000 rpm
TROUBLESHOOTING				
Field Coil Color Code / Ω				Resistor ~ Brn 4.8 Ω + 10% Starter Wht ~ Wht 8.8 Ω + 10%
IGNITION SYSTEM				Transistor Controlled Ignition
Ignition Timing				10° Mark
				Std 10° @ 1060 rpm Adv 37.5 ± 2° @ 4100 rpm
Spark Plug Type				NGK BP 7ES or Nippon Denso W22EP
Spark Plug Gap / Torque / Cap Ω				0.7~0.8mm 2.8 m-tg Cyl 164 Ω ± 1% Cyl 263 Ω ± 1%
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%
LIGHTING SYSTEM				
Headlight	Taillight	Signal Rating	12V50-40W 12V27-8W 12V27W	

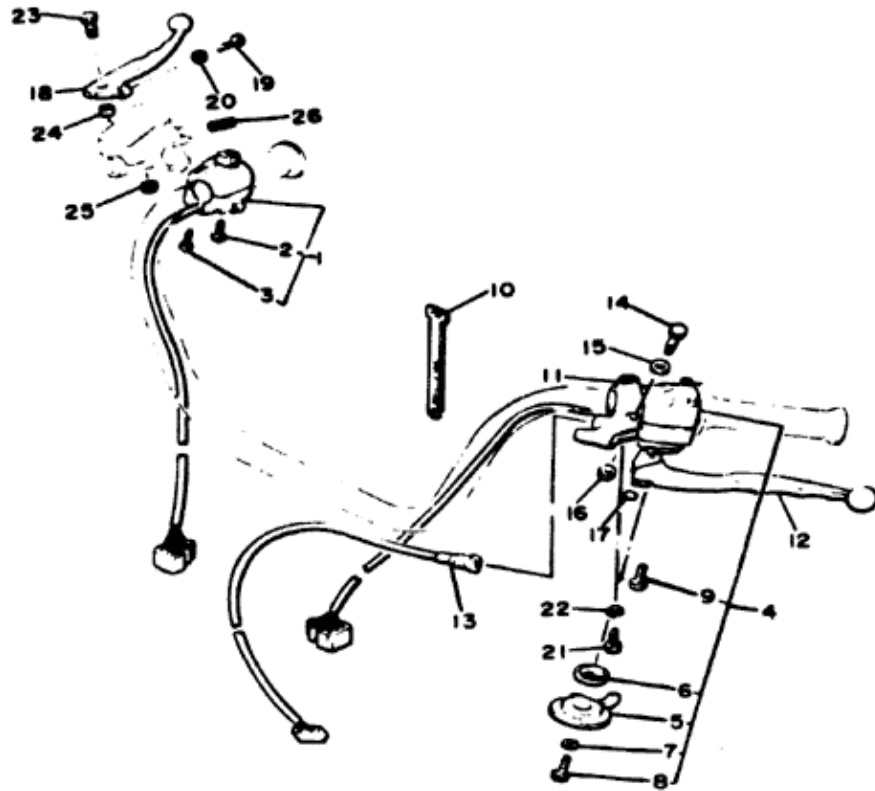
ELECTRICAL 2



Ref. No.	Part Number	Description	Qty.	Remarks
1	2H7-82540-00-00	NEUTRAL SWITCH ASS'Y	1	
2	90430-10148-00	GASKET	1	
3	1A0-83980-30-00	FRONT STOP SWITCH ASS'Y	1	
4	1E9-82530-00-00	STOP SWITCH ASS'Y	1	
5	4H7-82608-50-00	MAIN SWITCH ASS'Y	1	
6	97321-06016-00	BOLT (97322-06016)	2	
7	92901-06600-00	WASHER (92902-06600)	2	
8	4H7-85720-00-00	OIL LEVEL GAUGE ASS'Y	1	
9	97321-06020-00	BOLT	2	
10	92903-06100-00	WASHER, spring (92903-06100)	2	
11	92901-06600-00	WASHER, plate	2	
12	437-83936-10-00	BAND, switch cord	2	
13	447-82591-00-00	BAND	2	
14	4H7-83350-70-00	FLASHER RELAY ASS'Y	1	
15	1A0-83395-03-00	FLASHER CANCELLING UNIT	1	
16	1J7-83371-22-00	HORN	1	
17	97301-06014-00	BOLT	1	
18	92903-06100-00	WASHER, spring (92901-06100)	1	
19	3G1-85110-00-00	FRONT REFLECTOR ASS'Y	2	
20	4H7-85127-00-00	BASE, reflector	2	
21	98501-04018-00	SCREW, pan head	2	
22	92901-04600-00	WASHER, plate	2	
23	849-84724-00-00	SCREW, lens fitting	2	
24	92901-04600-00	WASHER, plate	2	

CHARGING SYSTEM				AC Generator 3 Phase Full Wave			
Battery Model	Specific Gravity	Chg. Rate		1-200	12V 2A 4A	12V 12A 11	12V 2A
Maximum Output				14V 15A	@ 5000 rpm		
TROUBLESHOOTING				Transistor Controlled Ignition			
Point Gap	Condenser Capacitance			0.01			
Charge Coil Color Code				Orange	10 1.0 1.0 1.0 1.0 1.0 1.0 1.0		
Charge Coil Color Code							
IGNITION SYSTEM				Ignition Timing			
Ignition Timing				10°			
Spark Plug Type				Std 10° @ 1080 rpm Adv. 37.5 ± 2° @ 4750 rpm			
Spark Plug Gap	Torque	Cap		0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01			
Point Gap	Condenser Capacitance			0.01			
TROUBLESHOOTING				Ignition Coil Test Gap			
Ignition Coil Test Gap	Primary	Secondary		0.01	2.5 1.0 ± 10%	1.0 1.0 ± 20%	
Point Gap	Condenser Capacitance			0.01			
Source Coil Color Code							
LIGHTING SYSTEM				Headlight			
Headlight	Wattage	Signal Rating		12V 50-60W	12V 21 5W	12V 27W	

HANDLE SWITCH - LEVER



Ref. No.	Part Number	Description	Qty.
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	92903-06200-00	. WASHER, plain (92901-06200)	1
8	97323-06008-00	. BOLT	1
9	98506-05030-00	. SCREW, pan head	2
10	437-83936-00-00	BAND, switch cord	4
11	4H7-82911-00-00	HOLDER, lever 1	1
12	2H0-83912-00-00	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	2H7-83922-00-00	LEVER 2	1
19	90149-06131-00	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	90386-08094-00	BUSH	1
25	95601-0610000	NUT, U	1
26	90501-10510-00	SPRING, compression	1

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.

SERVICE DATA

FILE 650 SECTION

DATE 3/14/80

BUL M80-009

XJ650G 1980 SERVICE DATA

MODEL - IBM I.D. NUMBER	XJ650G - B	XJ650G - R	4H7
Initial Engine Number / Frame Number	4H7-000101 / 4H7-000101		
Basic Color(s)	Black Gold (B) New Ruby Red (R)		
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.)		
Dry Vehicle Weight	203 kg (447 lbs.)		
ENGINE TYPE	4-Stroke, Air Cooled, Parallel Four		
Bore / Stroke / Number Cylinders / Displacement cc	63mm / 52.4mm / 4 / 653cc		
Compression Ratio/Compression Pressure Min ~ Max	9.2:1 / NA		
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 / 0.16 ~ 0.20mm		
Oil Pressure Hot / rpm	NA		
Oiling System	Wet Sump		
Capacity: Dry	3200cc		
Oil and Filter Change	2650cc		
Oil Change	2350cc		
Lubricant: Temp. above 5°C (40°F)	Yamalube 4* or SAE 20W-40 SE Motor Oil		
Below 15°C (60°F)	Yamalube 4* or SAE 10W-30 SE Motor Oil		
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 or Throttle Valve	130		
Float Level / Fuel Level	17.5 ± 0.5 / 2 ~ 4mm		
Idle rpm	1050 rpm		
CO % @ Idle (Diagnostic Use Only)	NA		
SUSPENSION			
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / Ø / 262cc		
Gas Pressure	Ø		
Spring Length Std.	606mm		
Monoshock: Oil Type / Qty	Ø		
Gas Pressure	Ø		
Minimum Brake Lining Thickness	Front: 1.2mm Rear: 2mm		
Tire Size (Nominal Pressure)	F:3.25H19 (1.8 kg/cm ² /28 psi) R:130/90-15 67R (2.0 kg/cm ² /28psi)		
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		
All Weather Conditions	SAE 80 API Hypoid Gear Oil GL-4		

FILE 650 SECTION

DATE 3/14/80

BUL M80-009

CHARGING SYSTEM	AC Generator / 3 Phase / Full Wave
Battery: Model / Specific Gravity / Chg. Rate	Yuasa 12N12A-4A-1 (12V12AH) / 1.28 / 1.2A
Maximum Output	14V19A @ 5000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	Rotor:Brn ~ Brn / 4.0 Ω ± 10% Stator:Wht ~ Wht / 0.46 Ω ± 10%
Charge Coil Color Code / Ω	Ø
IGNITION SYSTEM	Transistor Controlled Ignition
Ignition Timing	10° Mark
	Std: 10° @ 1050 rpm Adv: 37.5 ± 2° @ 4100 rpm
Spark Plug Type	NGK BP-7ES or Nippon Denso W22EP
Spark Plug Gap / Torque / Cap Ω	0.7~0.8mm / 2.0 m·kg / Cyl. 164 5K Ω ± 10% / Cyl. 263 10K Ω ± 10%
Point Gap / Condenser Capacitance	Ø / Ø
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	Ø
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V50-40W / 12V27-8W / 12V27W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Ø
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 10.0 m·kg
Front Axle Holder Nut	8 x 1.25: 2.0 m·kg
Rear Axle Nut	14 x 1.5: 10 m·kg
Rear Axle Pinch Bolt	8 x 1.25: 0.6 m·kg
Clutch Nut	20 x 1.0: 7.0 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: 4.0 m·kg
Front Lower	10 x 1.25: 4.0 m·kg
Rear	12 x 1.25: 7.0 m·kg

Ø Does Not Apply To This Model
N/A Information Not Available

* Available From Yamaha Parts Distributors, Inc.

XJ650H

1981 SERVICE DATA

MODEL - IBM I.D. NUMBER	XJ650H-B	XJ650H-S	4H7
Initial Engine Number / Frame Number	4H7-100101 / 4H7-100101		
Basic Color(s)	Black Red (B) Frost Silver (S)		
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.)		
Dry Vehicle Weight	203 kg (447 lbs.)		
ENGINE TYPE	4-Stroke, Air-Cooled, Parallel Four		
Bore/Stroke/Number Cylinders/Displacement (cc)	63mm / 52.4mm / 4 / 653cc		
Compression Ratio/Compression Pressure Min~Max	9.2:1 / NA		
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	0.11mm / 0.15mm / 0.16mm ~ 0.20mm		
Oil Pressure Hot / rpm	NA		
Oiling System	Wet Sump		
Capacity: Dry	3500cc		
Oil and Filter Change	2950cc		
Oil Change	2350cc		
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		
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 or Throttle Valve	130		
Float 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)		
SUSPENSION			
Front Forks: Oil Type / Level / Qty	10 Wt. Fork Oil* / Ø / 262cc		
Gas Pressure	Ø		
Spring Length Std	606mm		
Monoshock: Oil Type / Qty	Ø		
Gas Pressure	Ø		
Minimum Brake Lining Thickness	Front: 1.2mm Rear: 2mm		
Tire Size (Nominal Pressure)	F:3.25H19 (1.8 kg/cm ² /26 psi) R:130/90-16 67H (2.0 kg/cm ² /29 psi)		
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		
All Weather Conditions	SAE 80 API Hypoid Gear Oil GL-4		

SERVICE DATA

CHARGING SYSTEM	AC Generator / 3-Phase / Full Wave
Battery: Model / Specific Gravity / Charge Rate	Yuasa 12N12A-4A-1 (12V 12AH) / 1.28 / 1.2A
Maximum Output	14V 19A @ 5000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	Rotor: Gr~Brn / 4.0 Ω ± 10% Stator: Wht~Wht / 0.48 Ω ± 10%
Charge Coil Color Code / Ω	Ø
IGNITION SYSTEM	Transistor-Controlled Ignition
Ignition Timing	10° Mark
	Std: 10° @ 1050 rpm Adv: 37.5 ± 2° @ 4100 rpm
Spark Plug Type	NGK BP7ES or Nippon Denso W22EP
Spark Plug Gap / Torque / Cap Ω	0.7~0.8mm / 2.0 m·kg / Cyl 1&4 5K Ω ±15% / Cyl 2&3 10K Ω ±15%
Point Gap / Condenser Capacitance	Ø / Ø
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 / 650 Ω ± 20%
Source Coil Color Code / Ω	Ø
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V50-40W / 12V27-8W / 12V27W
TROUBLESHOOTING	
Lighting Coil Color Code / Ω	Ø
TORQUE VALUES	
Front Axle Nut	14 x 1.5: 10.0 m·kg
Front Axle Holder Nut	8 x 1.25: 2.0 m·kg
Rear Axle Nut	14 x 1.5: 10 m·kg
Rear Axle Pinch Bolt	8 x 1.25: 0.6 m·kg
Clutch Nut	20 x 1.0: 7.0 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: 4.0 m·kg
Front, Lower	10 x 1.25: 4.0 m·kg
Rear	12 x 1.25: 7.0 m·kg

Ø = Does Not Apply To This Model

NA = Information Not Available

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*For Diagnostic Use Only