



YAMAHA

PARTS CATALOGUE

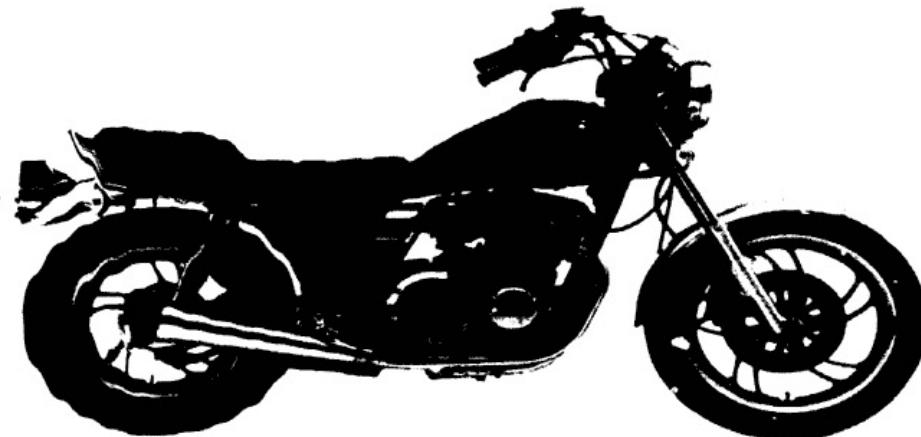
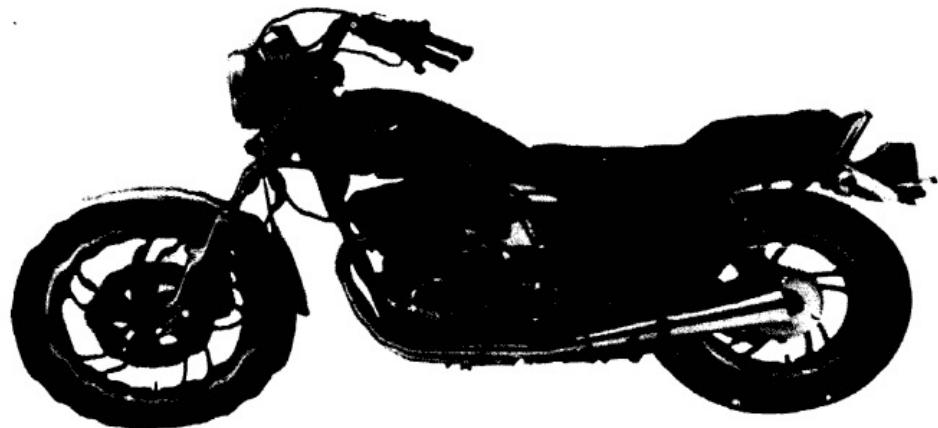
MODEL YEAR 1980 XJ650G (4H7)

(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	



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PARTS CATALOGUE

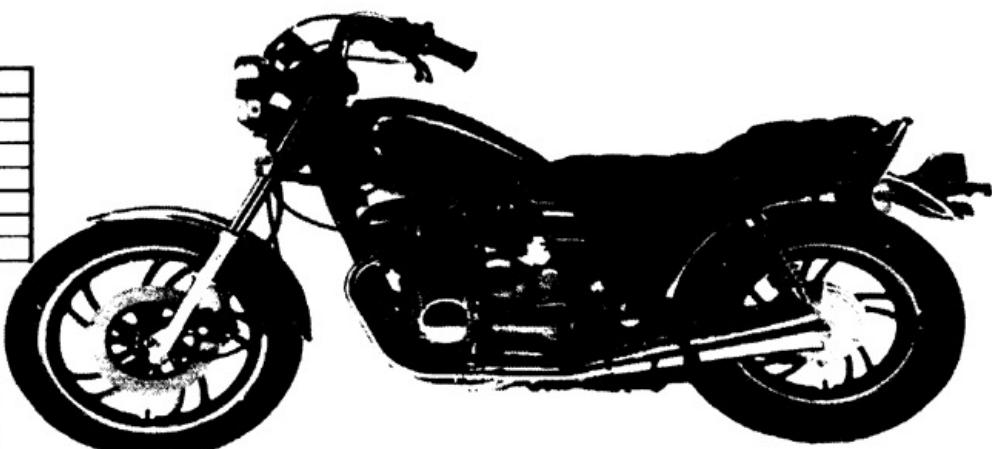
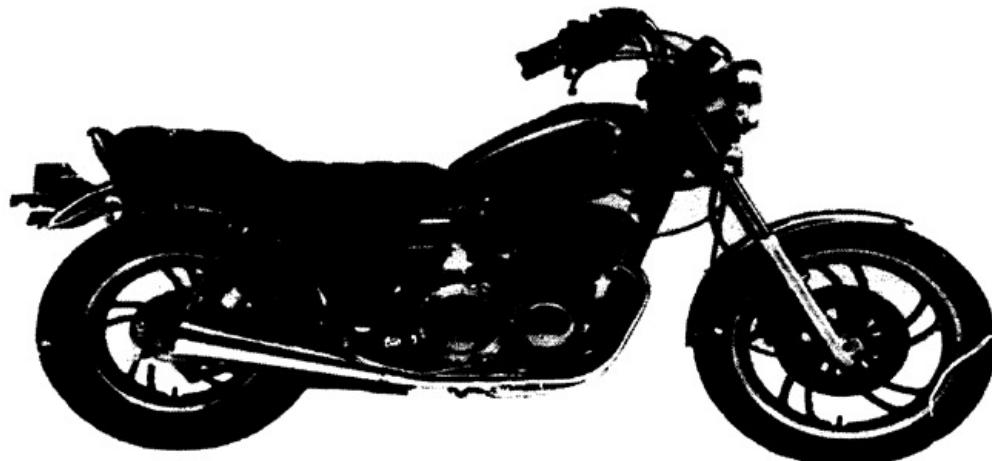
XJ650H (4H7)

MODEL YEAR 1981

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

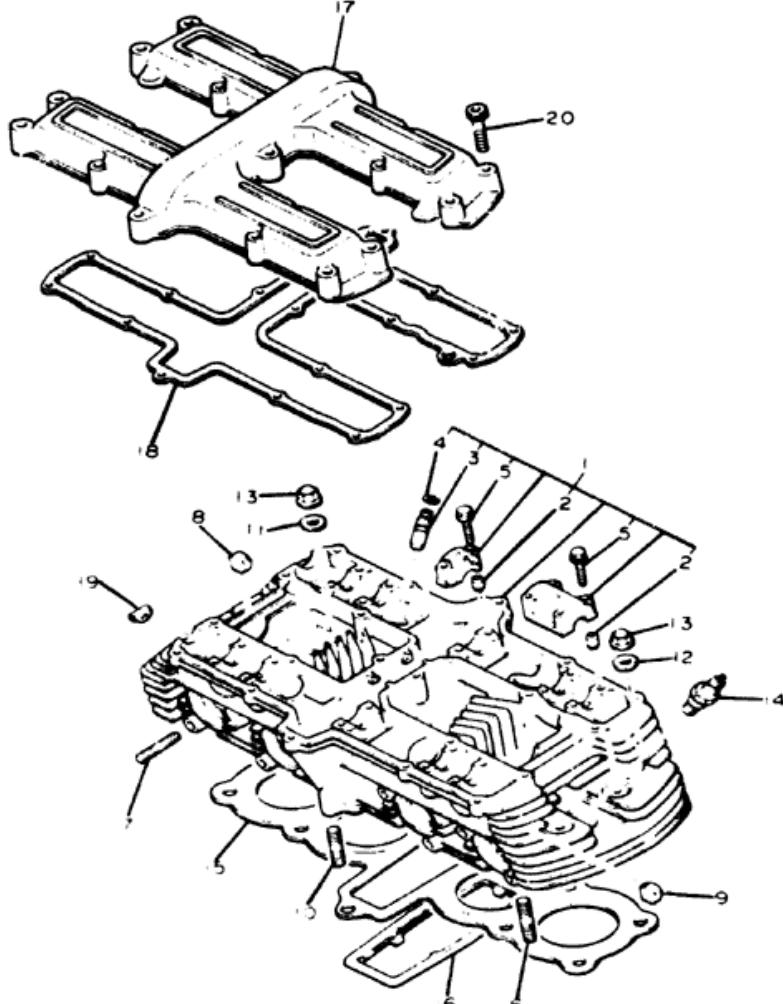
MODEL - IBM I.D. NUMBER	XJ650H-B	XJ650H-S	4H7
Initial Engine Number / Frame Number	4H7-100101	/ 4H7-100101	
Basic Color(s)	Black Red (B)	Frost Silver (S)	
Fuel Type / Fuel Tank Capacity / Reserve Capacity	Regular	/ 13 Lit. (3.4 Gal.)	/ 3.4 Lit. (0.9 Gal.)
Dry Vehicle Weight	203 kg (447 lbs.)		
ENGINE 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	SAME AS XJ650G
SERVICE MANUAL	LIT-11616-01-94	SAME AS XJ650G
ASSEMBLY MANUAL	LIT-11666-01-94	
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 2.3~2.5kg Cyl 164 36Ω 1.5% Cyl 283 48Ω 1.5%



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	

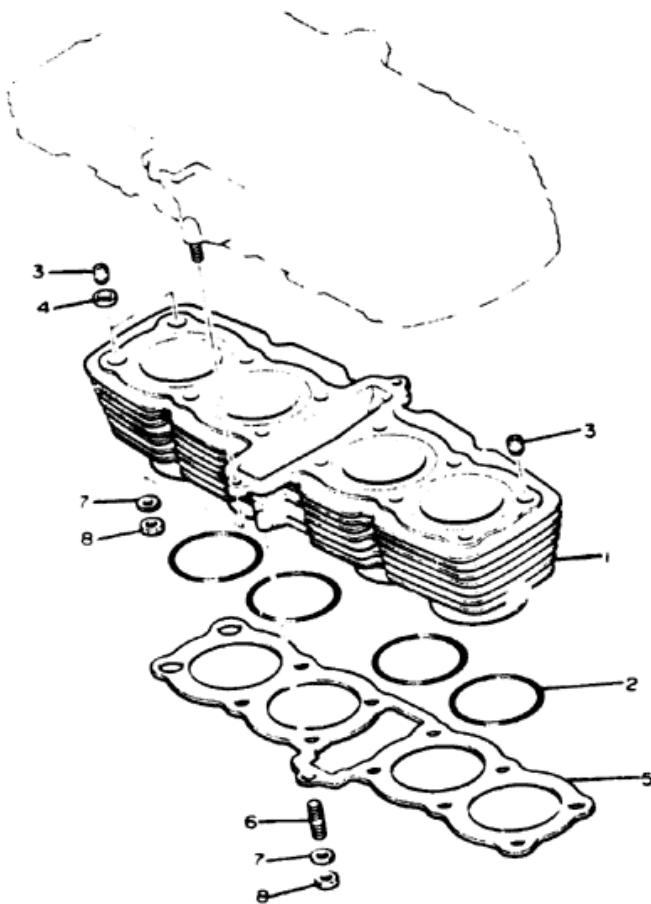
4H7-W0001-00-XX TOP END GASKET KIT.....

See Grid G1 for kit
Component Parts

11	90201-11597-00	WASHER, plate	10
12	90201-10128-00	V/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

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	



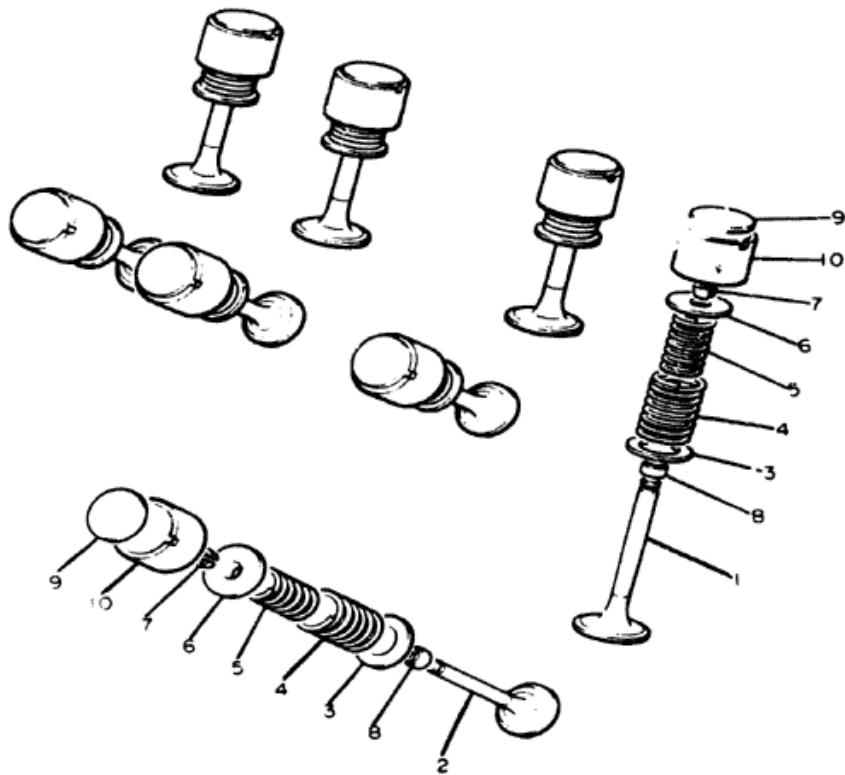
FWD

Initial Engine Number Frame Number

4H7 000101 4H7 000101

VALVE

Valve Clearance (Cold) Intake Exhaust | 0.11 ~ 0.15mm - 0.18 ~ 0.20mm

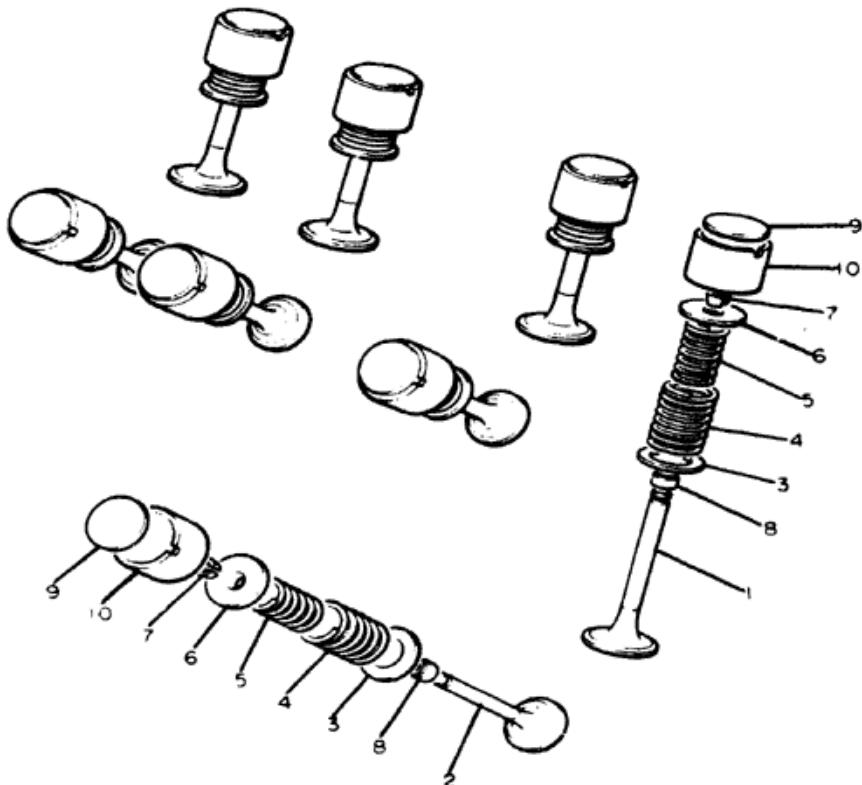


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-12111-00-00	VALVE, intake	4	
2	4H7-12121-00-00	VALVE, exhaust.....	4	
3	4H7-12116-00-00	SEAT, valve spring	8	
4	4H7-12114-00-00	SPRING, valve outer.....	8	
5	4H7-12113-00-00	SPRING, valve inner.....	8	
6	2F3-12117-00-00	RETAINER, valve spring.....	8	
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

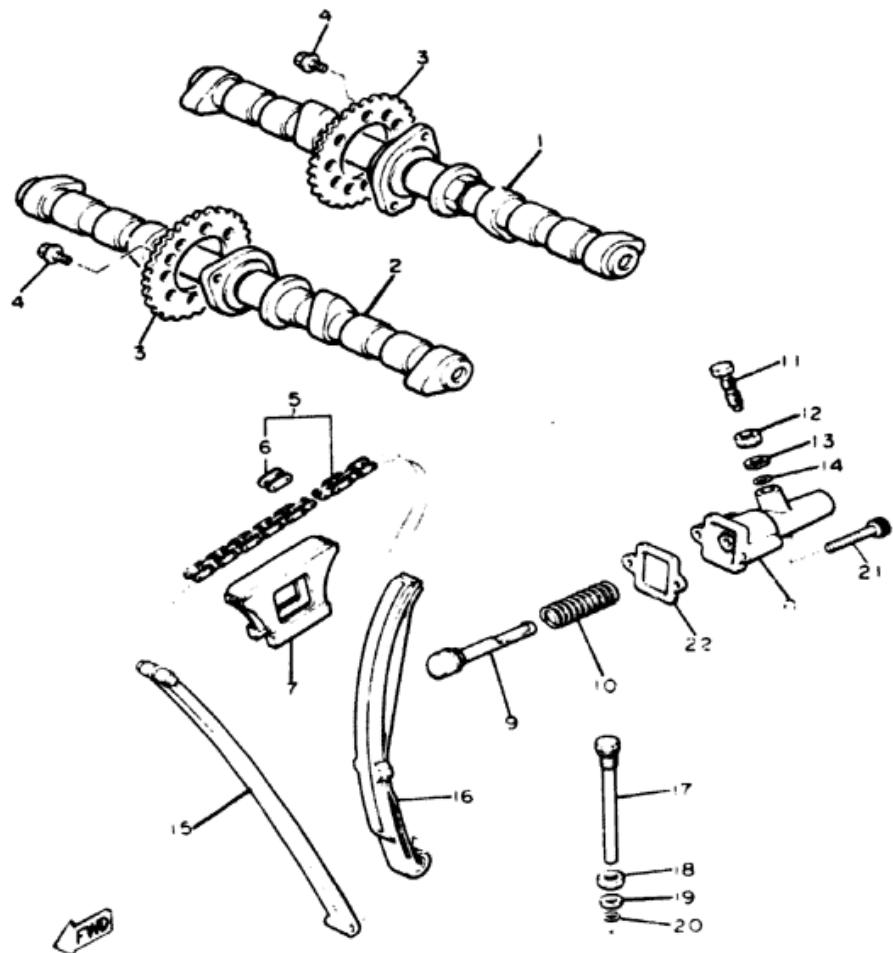
Valve Clearance (Cold) Intake : Exhaust : 0.11 ~ 0.15mm / 0.18 ~ 0.20mm



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	

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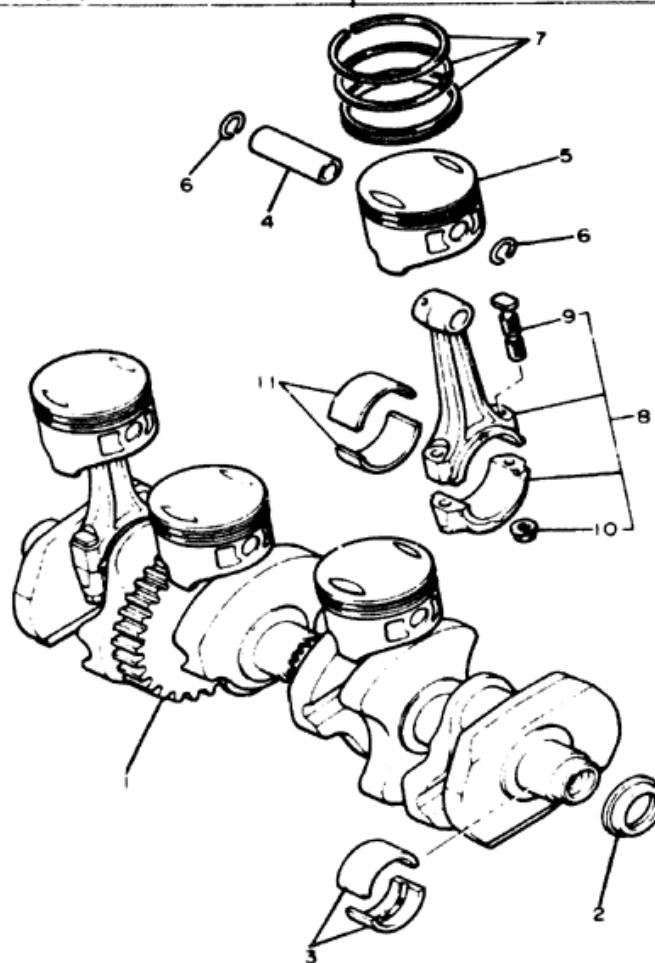
CAMSHAFT • CHAIN



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 / 0.5 ~ 0.9mm

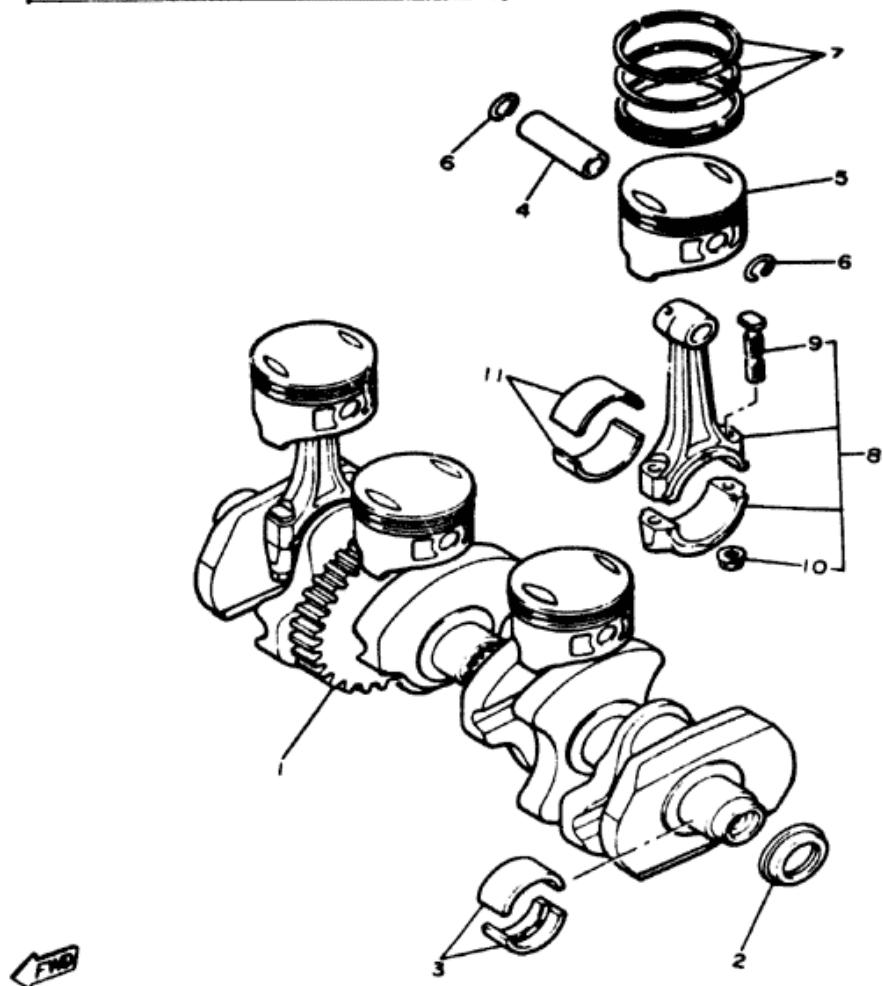


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-11411-10-00	CRANKSHAFT (4H7-11411-01)	1	
2	93101-32088-00	OIL SEAL	1	
3	4H7-11416-01-00	PLANE BEARING, crankshaft 1	10	U.R.
	4H7-11416-11-00	PLANE BEARING, crankshaft 1	10	U.R.
	4H7-11416-21-00	PLANE BEARING, crankshaft 1...	10	U.R.
	4H7-11416-31-00	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.

FWD

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 ~ 0.9mm



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

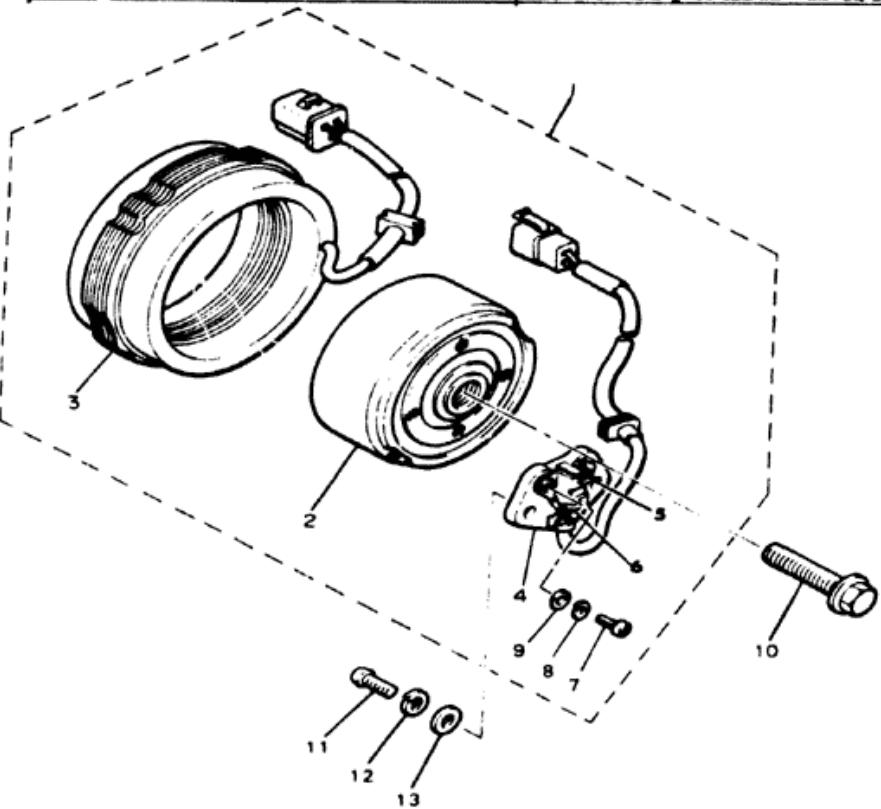
CONNECTING ROD BEARING SELECTION

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	AC Generator 3 Phase Full Wave
Battery Model / Specific Gravity . Chg. Rate	YUASA 12N12A 4A 1112V12AH / 1.28 / 1.2A
Maximum Output	14V19A @ 5000 rpm
TROUBLESHOOTING	
Fwd Coil Color Code : G	Reson ~ 8m · 4.8Ω ± 10% Reson ~ 9m · 1.6Ω ± 10%

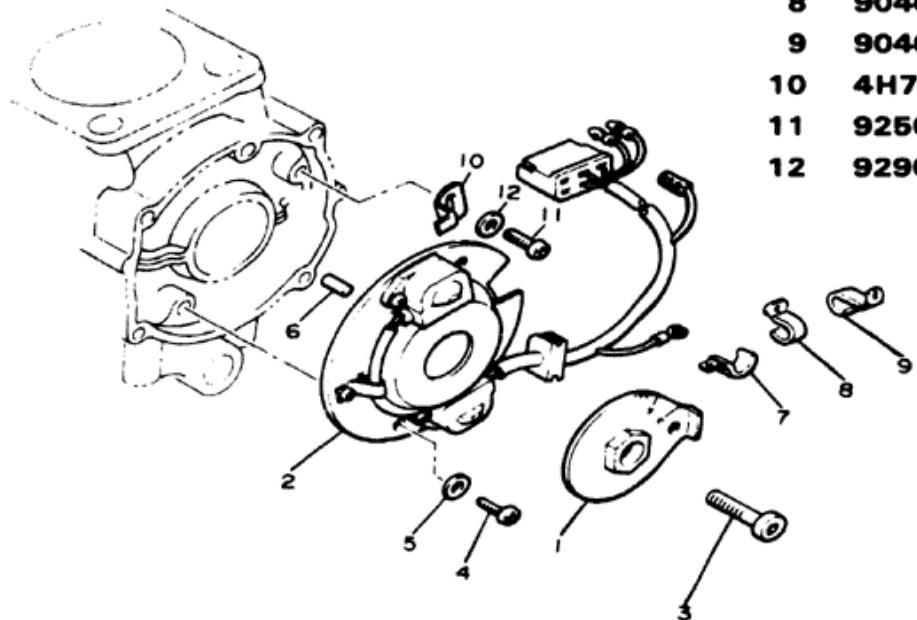


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81600-10-00	A.C. GENERATOR ASS'Y.....	1	
2	4H7-81650-10-00	ROTOR ASS'Y	1	
3	4H7-81610-10-00	STATOR ASS'Y.....	1	
4	4H7-81619-10-00	BRUSH HOLDER ASS'Y.....	1	
5	4H7-81611-10-00	BRUSH 1	1	
6	4H7-81612-10-00	BRUSH 2	1	
7	98501-04012-00	SCREW, pan head (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	

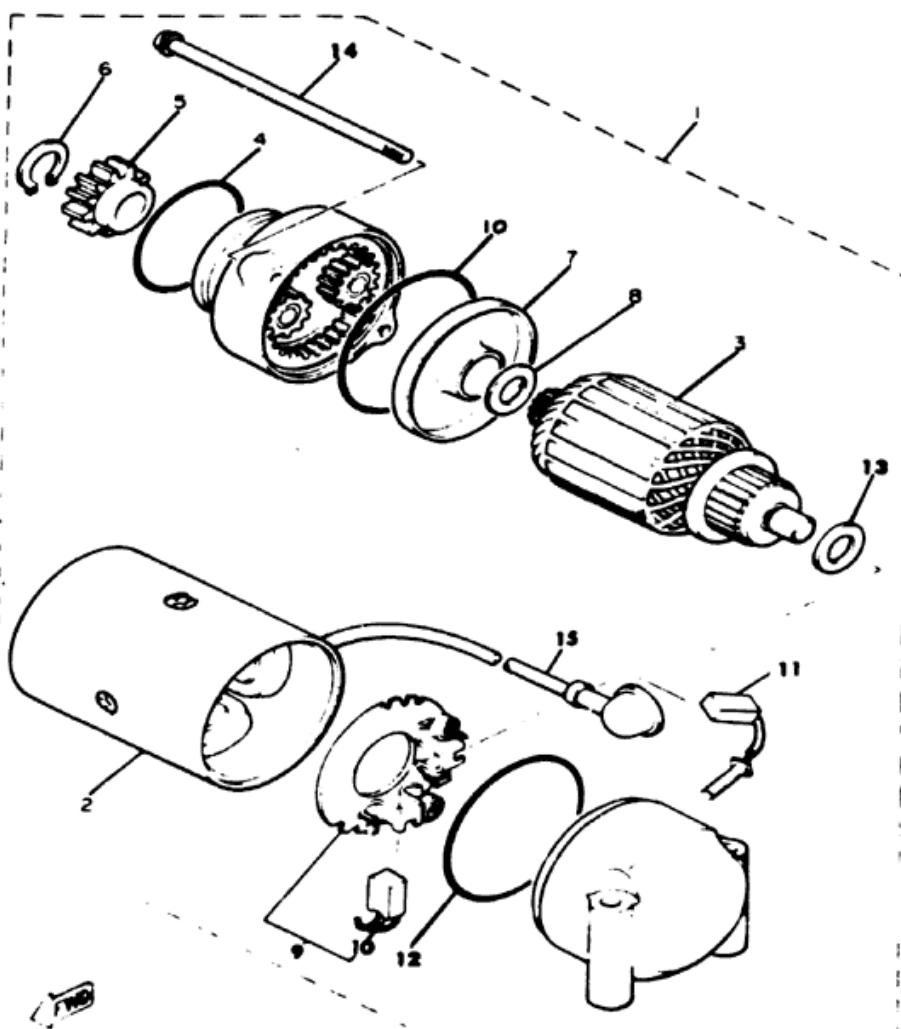
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PICKUP COIL - GOVERNOR

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	

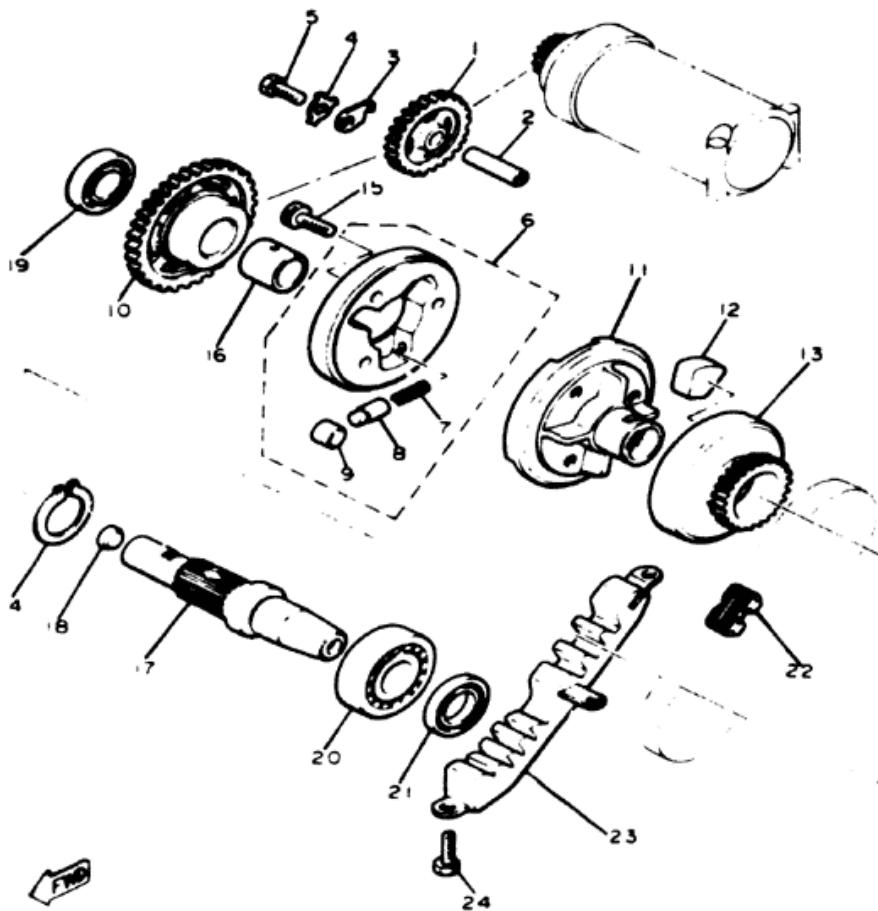


STARTING MOTOR



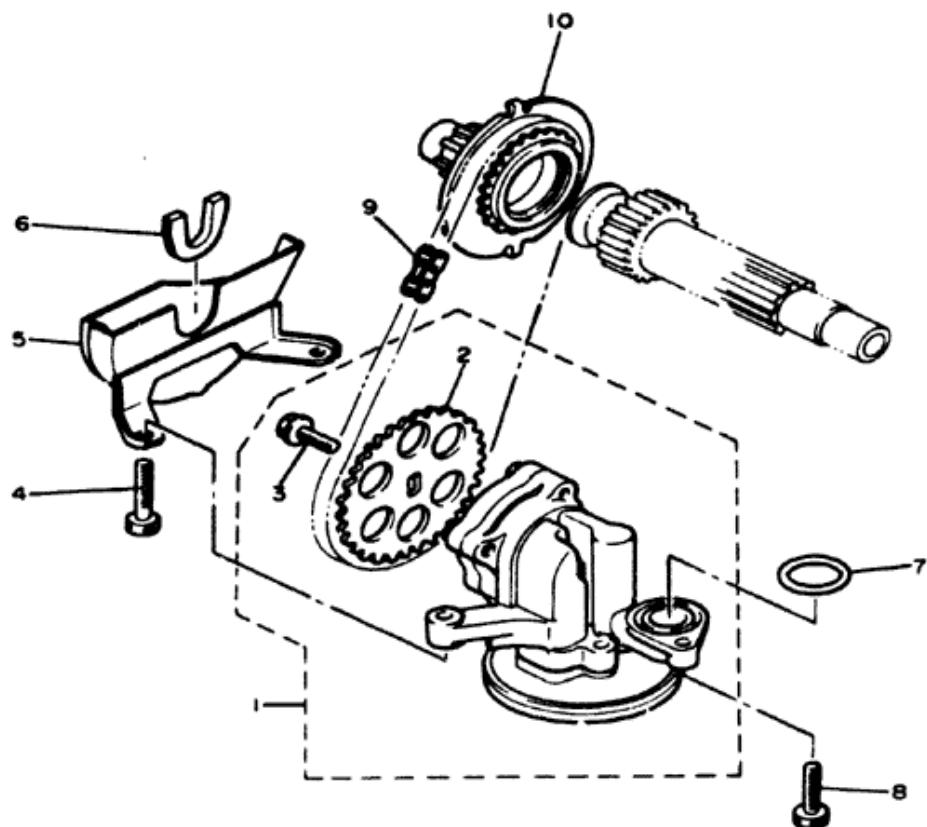
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81800-50-00	STARTING MOTOR ASS'Y	1	
2	4H7-81810-01-00	STATOR ASS'Y (4H7-81810-00)	1	
3	4H7-81850-00-00	ARMATURE ASS'Y	1	
4	4H7-81847-00-00	O-RING	1	
5	4H7-15511-00-00	GEAR, starting motor (13T) ...	1	
6	4H7-81819-00-00	CIRCLIP.....	1	
7	4H7-81845-00-00	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	

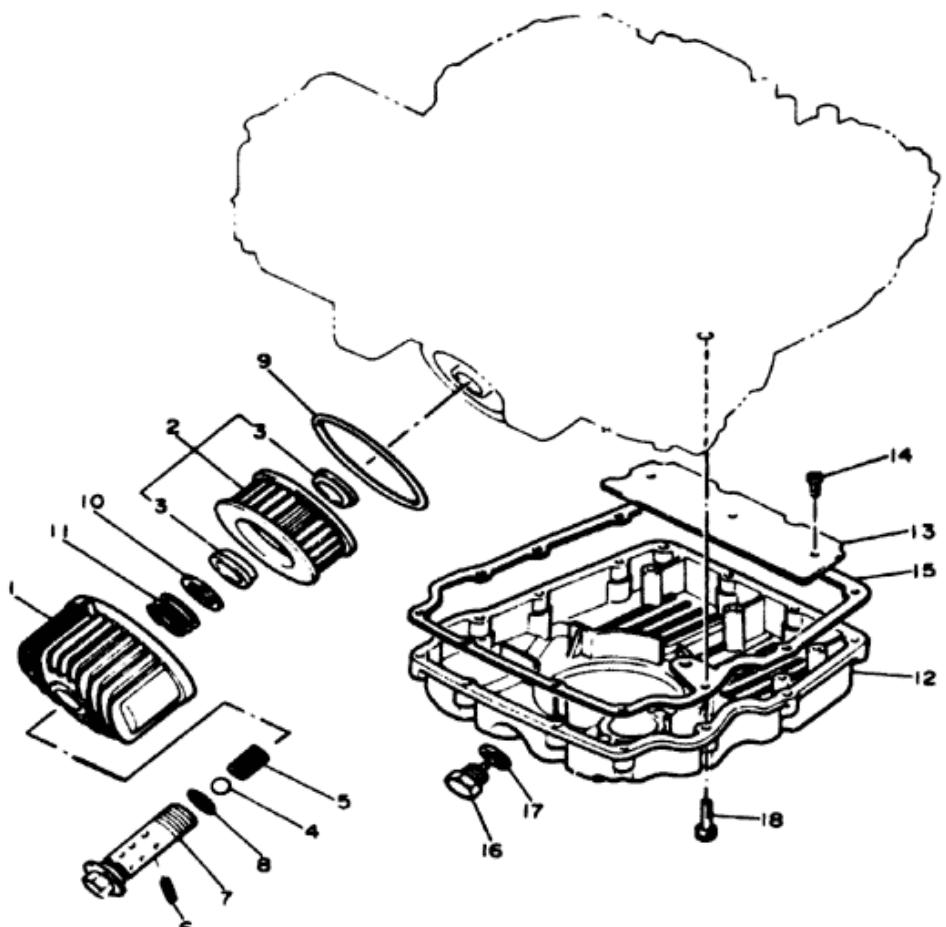
OIL PUMP



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	93210-18319-00	O-RING.....	1
8	91318-06025-00	BOLT.....	1
9	94580-25066-00	CHAIN	1
10	4H7-13364-00-00	SPROCKET, drive (25T)	1

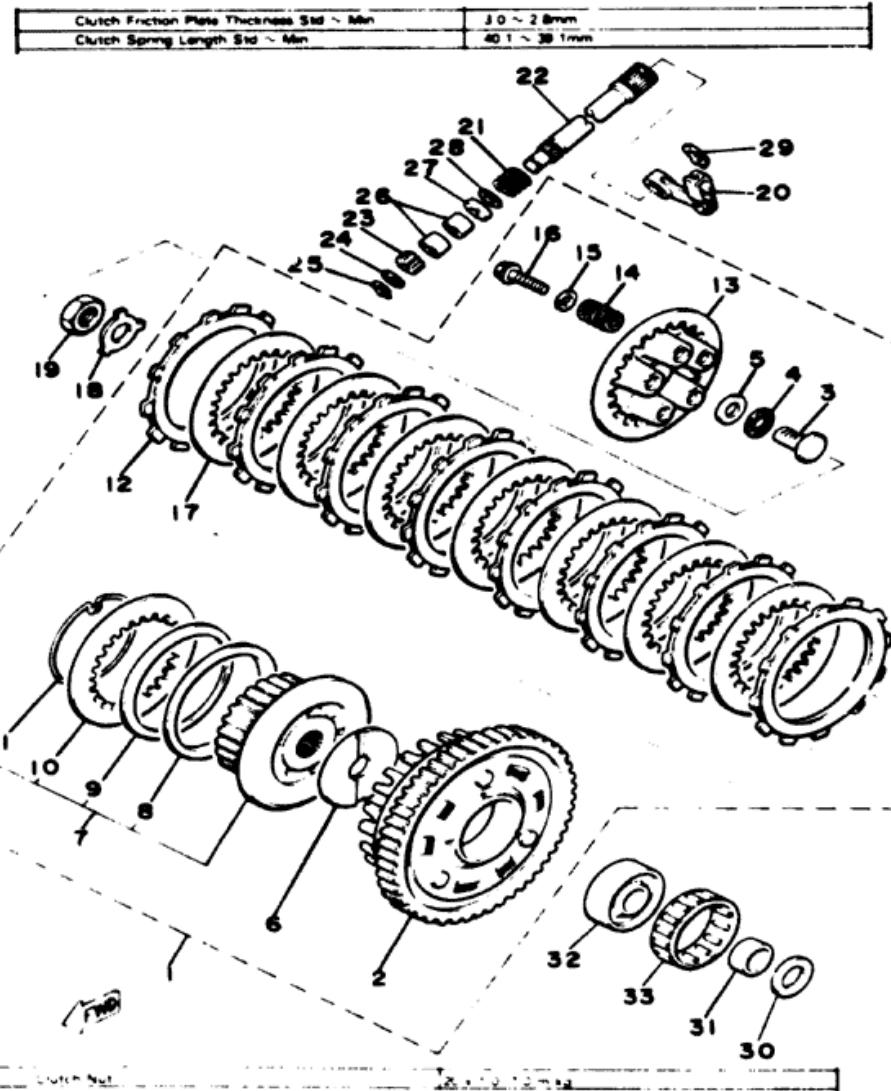


OIL CLEANER



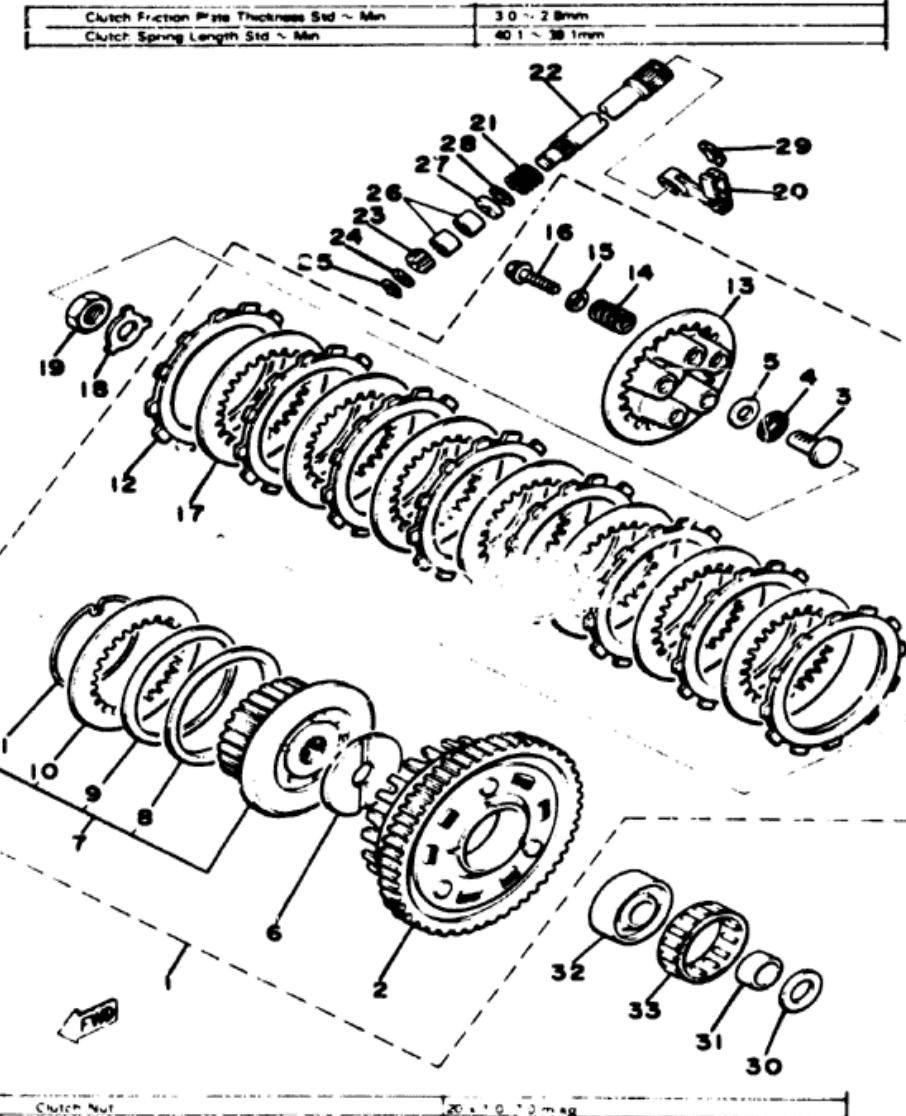
Ref. No.	Part Number	Description	Qty.
1	4H7-13447-00-00	COVER, oil element.....	1
2	1L9-13440-91-00	ELEMENT, oil cleaner (1L9-13440-90).....	1
3	90480-23193-00	. GROMMET.....	2
4	93501-02018-00	BALL.....	1
5	90501-12413-00	SPRING, compression.....	1
6	91609-20018-00	PIN, spring.....	1
7	1L9-13340-01-00	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

CLUTCH



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	

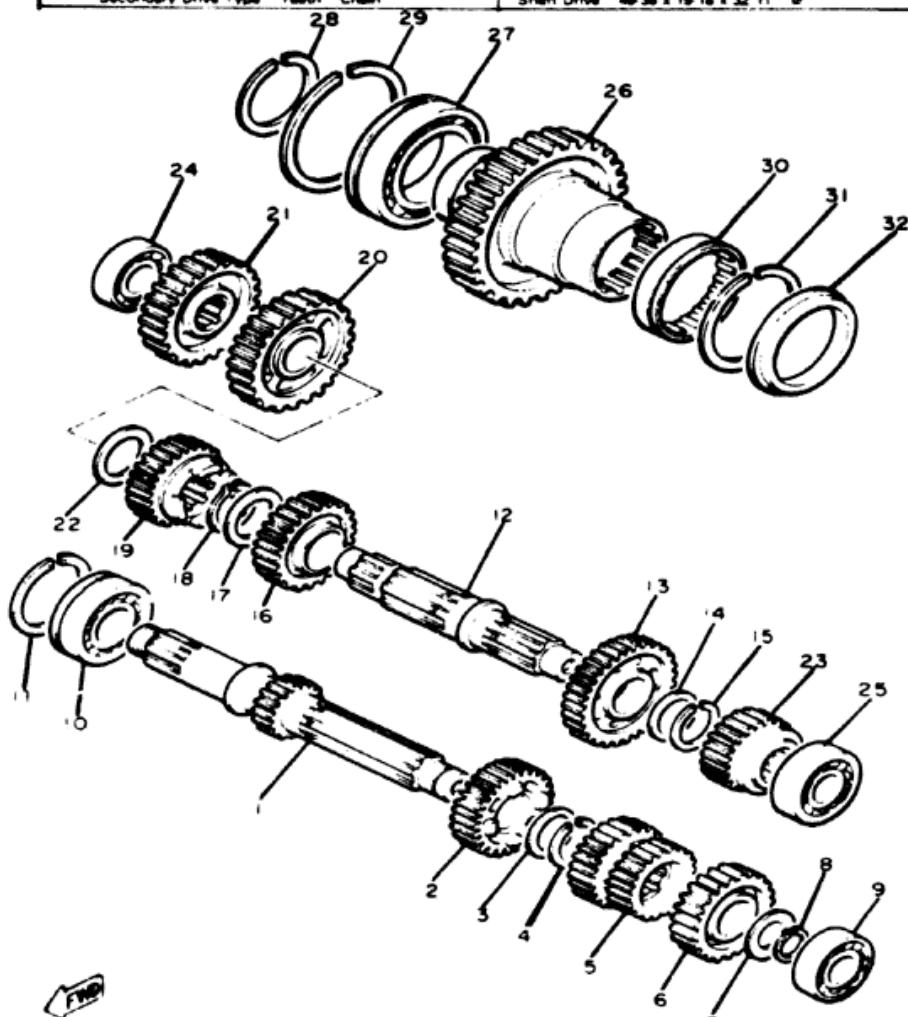
CLUTCH



Ref. No.	Part Number	Description	Qty.	Rearks
19	90170-20257-00	NUT.....	1	
20	4H7-16340-00-00	PUSH LEVER ASS'Y.....	1	
21	90508-19459-00	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	Gear Chg.	Gear Reassembly
Primary Drive Type	Teeth	Ratio	Spiral Gears 97.58 1.672
Secondary Drive Type	Teeth	Chain	Shaft Drive 48.38 x 19.18 x 32.11

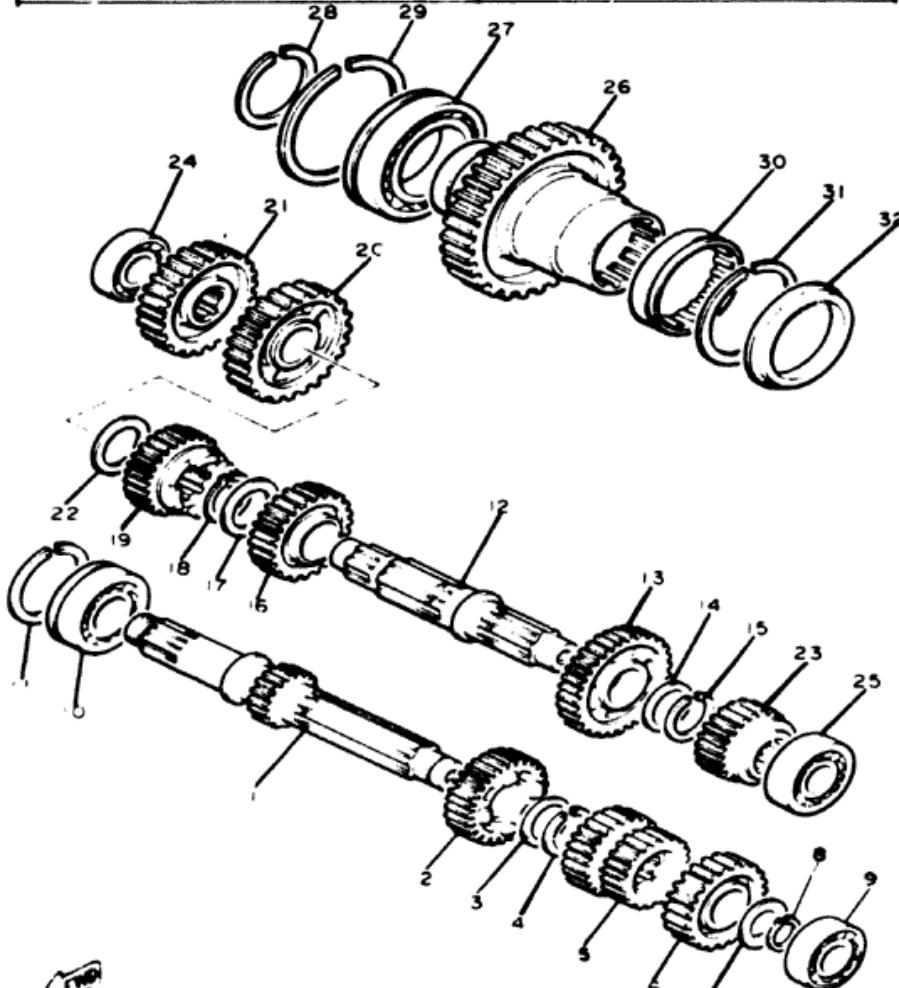


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-17401-00-00	MAIN AXLE ASS'Y.....	1	
2	4H7-17141-00-00	GEAR, 4th pinion (30T)	1	
3	90209-22191-00	WASHER	1	
4	93440-25019-00	CIRCLIP	1	
5	4H7-17121-00-00	GEAR, 2nd pinion (20T/26T)....	1	
6	4H7-17151-00-00	GEAR, 5th pinion (32T)	1	
7	90201-20276-00	WASHER, 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	Capacity	Oil Type	Wear Rate
Capac. 1/2 Gal.	1/2 Gal.	32000 mi.	2600 mi.
Oil and Filter Change			
Oil Change			2350 mi.
Temp. limit above 5 C 40 F		Yamalube 4T or SAE 30W 40 SE Motor Oil	
Below 15 C 60 F		Yamalube 4T or SAE 10W 30 SE Motor Oil	

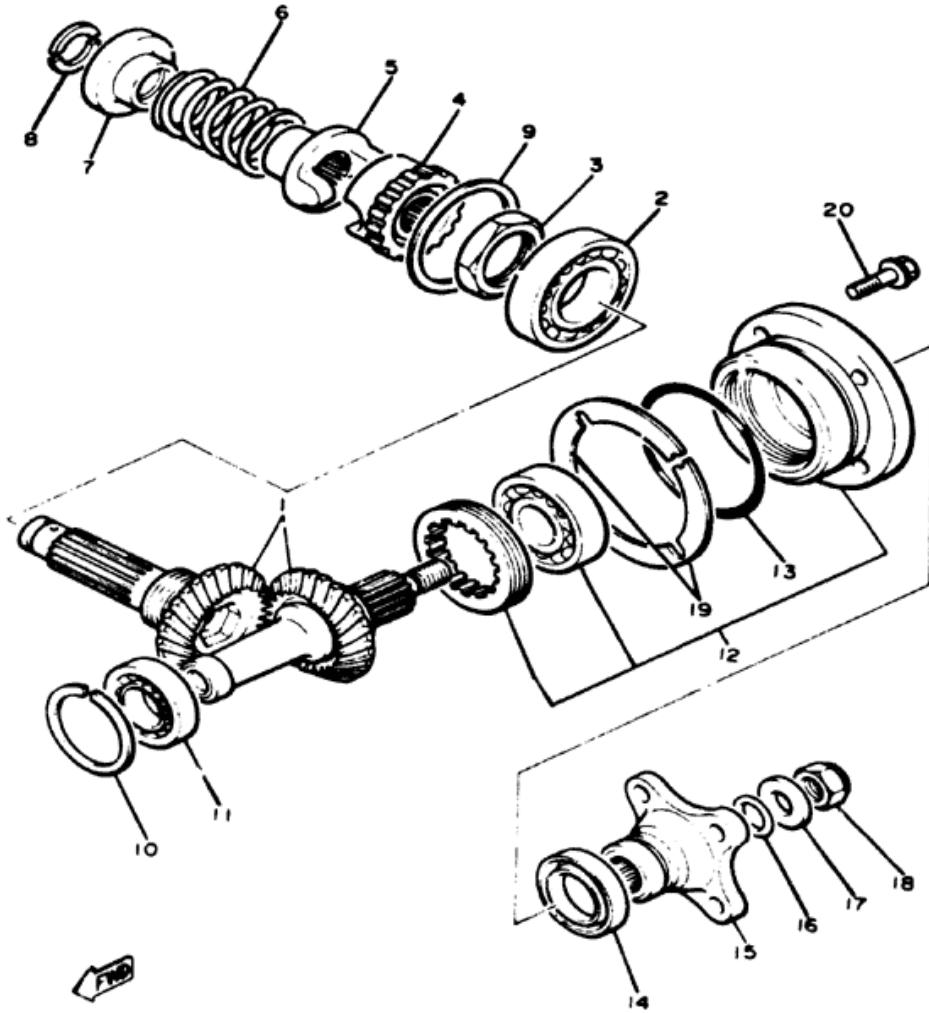
TRANSMISSION

TRANSMISSION - Oil Type/Gear Chg/Gear Reassemble	
Primary Drive Type - Teeth / Ratio	Spur Gears 97.98 : 1.672
Secondary Drive Type / Teeth / Chain	Shaft Drive 49.38 x 19.18 x 32.11 "



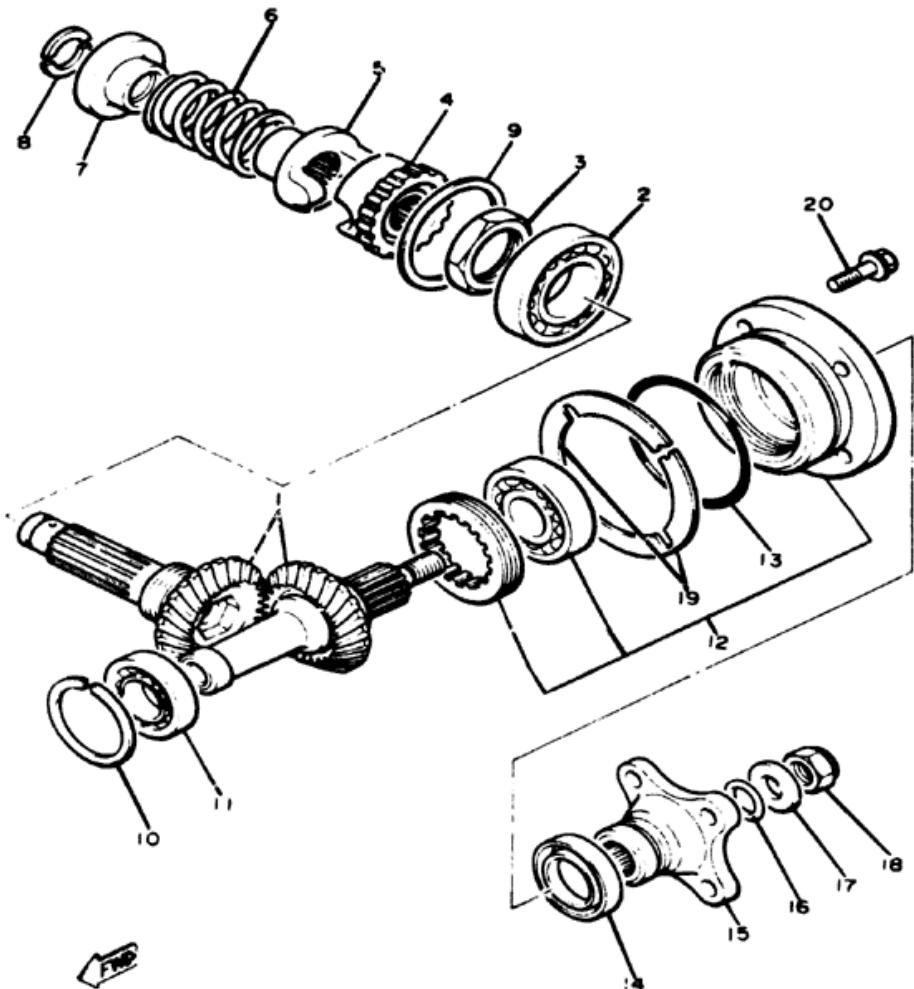
Oiling System	Wet Sump
Capacity Oil	3200cc
Sa and Filter Change	2650cc
Oil Change	2380cc
Lubricant Temp above 5°C 40°F	Vaseline 4# or SAE 20W 40 SE MOTOR OIL
Below 15°F 60°F	Vaseline 4# or SAE 10W 30 SE MOTOR OIL

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	

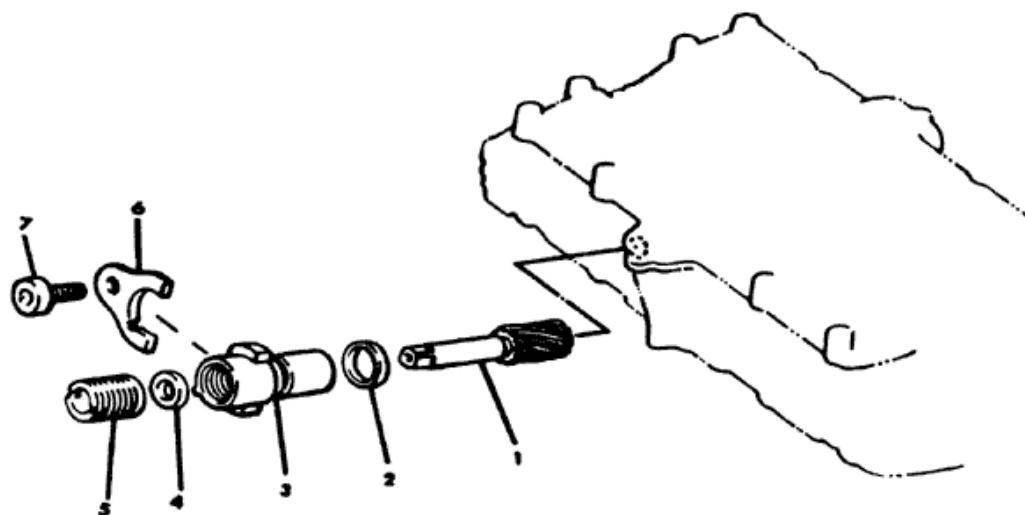
MIDDLE DRIVE GEAR



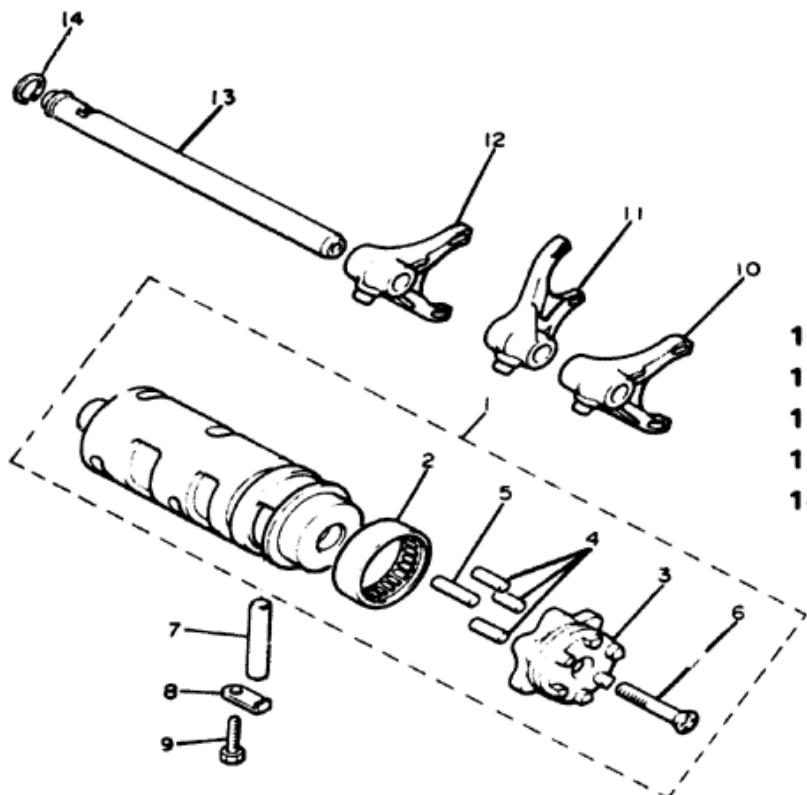
Ref. No.	Part Number	Description	Qty.	Remarks
13	93210-71360-00	O-RING.....	1	
14	93101-35097-00	CIL SEAL	1	
15	4H7-17555-00-00	FLANGE, middle gear.....	1	
16	93210-14359-00	O-RING.....	1	
17	90201-14633-00	WASHER, plate.....	1	
18	90179-14317-00	NUT.....	1	
19	4H7-17531-00-10	SHIM, pinion (0.10T)	2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



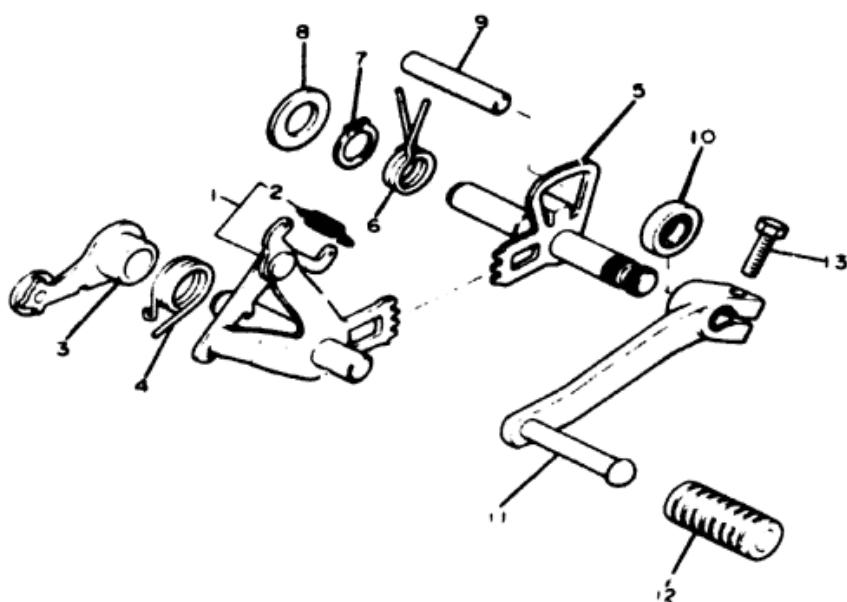
SHIFT CAM · FORK



Ref. No.	Part Number	Descript. n	Qty.	Remarks
1	4H7-18540-00-00	SHIFT CAM ASS'Y.....	1	
2	93315-23612-00	. 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

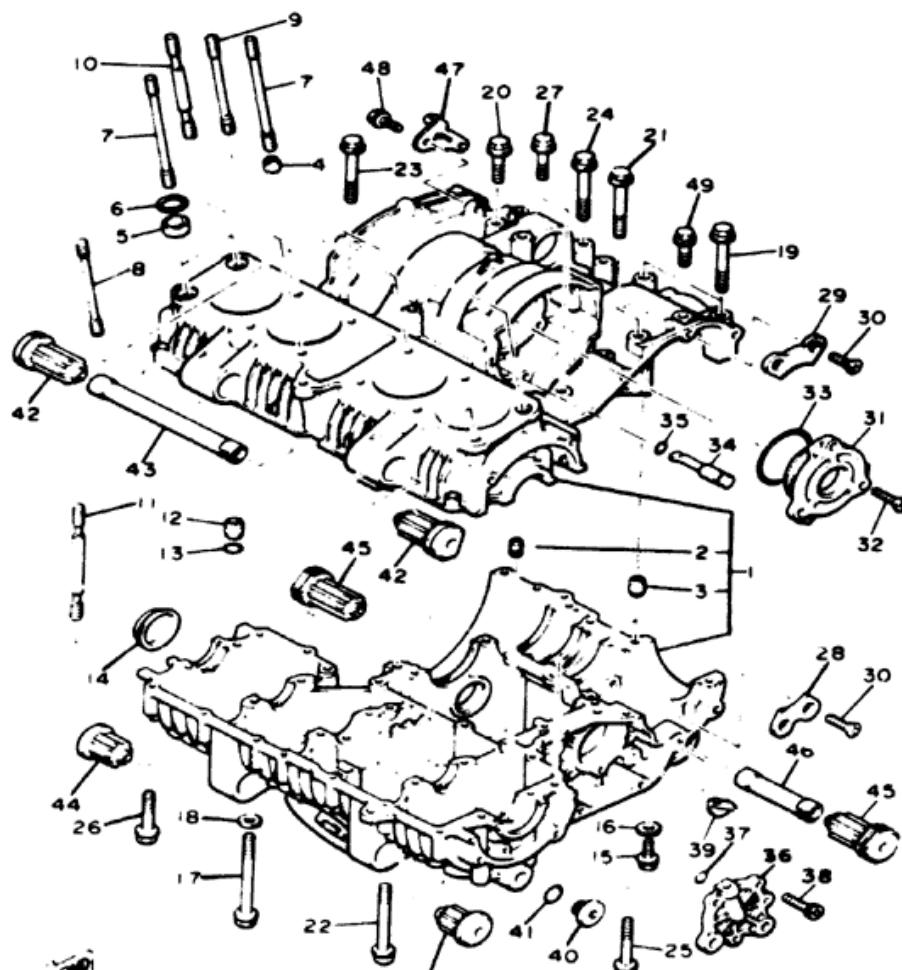
SHIFT SHAFT · PEDAL



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	93430-10016-00	CIRCLIP	1	
8	90201-12588-00	WASHER, plate	1	
9	93608-50158-00	PIN, dowel	1	
10	93102-12106-00	OIL SEAL	1	
11	4H7-18111-00-00	PEDAL, shift.....	1	
12	132-18113-01-00	COVER, shift pedal.....	1	
13	97321-06020-00	BOLT	1	

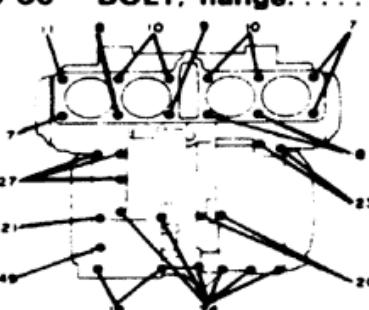
FMQ

CRANKCASE

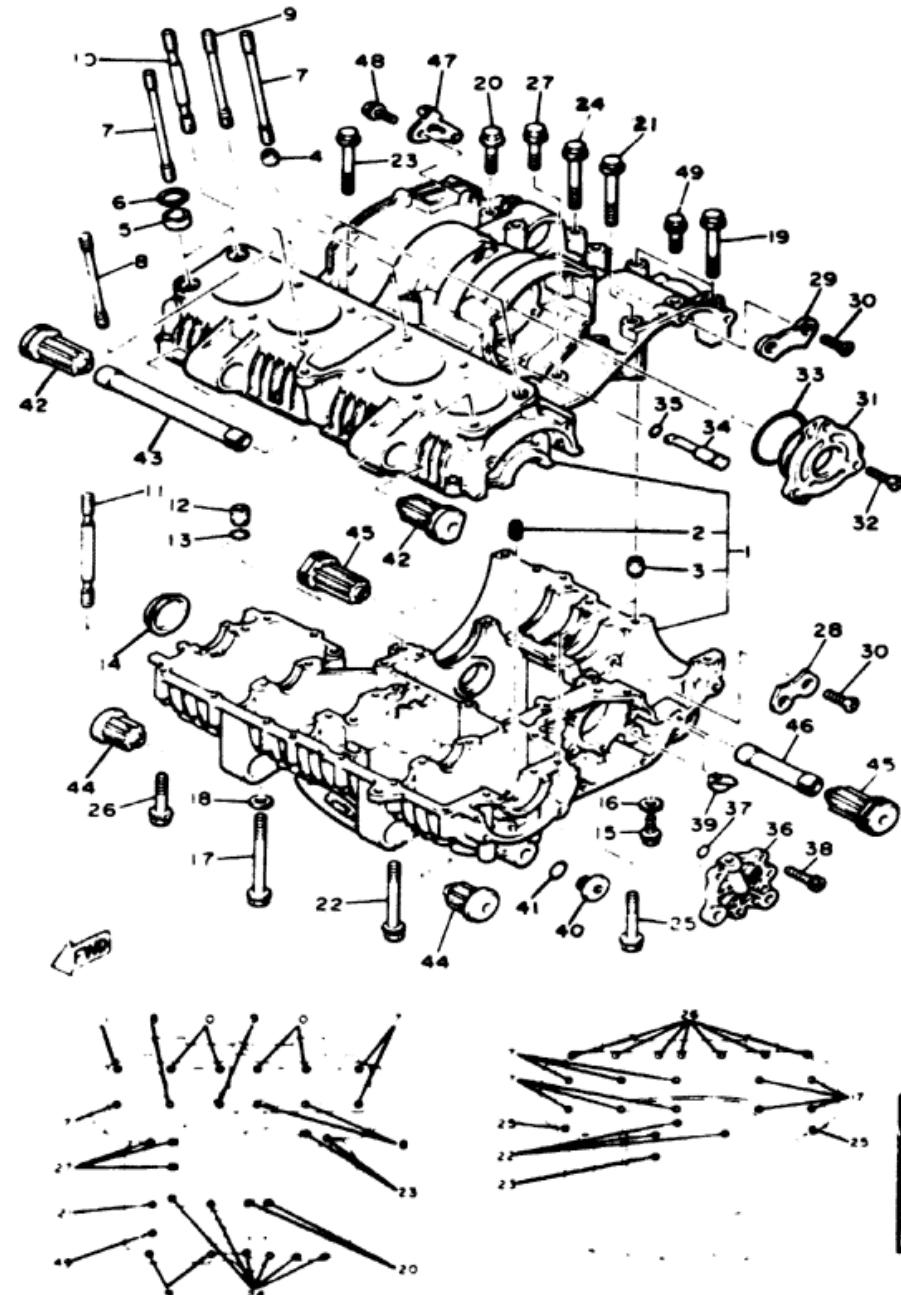


Lubricating System		Wet Sump
Safety Dr.		5000 L
Oil and Filter Change		2000 L
Oil Change		2000 L
Oil and Filter Change	10W-30	Vernalube 40 x SAE 10W-30 SE Motor Oil
Reins 15 L Dr.		Vernalube 40 x SAE 10W-30 SE Motor Oil

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	



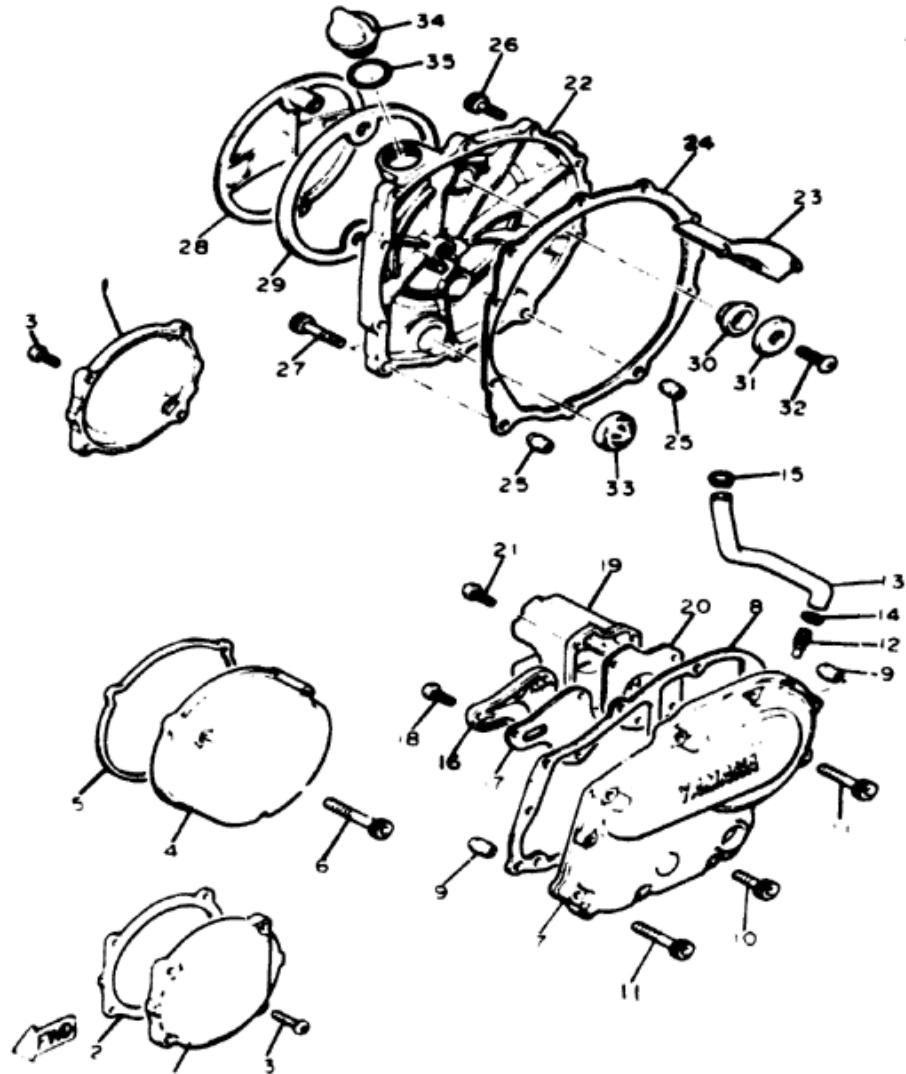
CRANKCASE



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	90149-06152-00	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	4H7-15365-00-00	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	

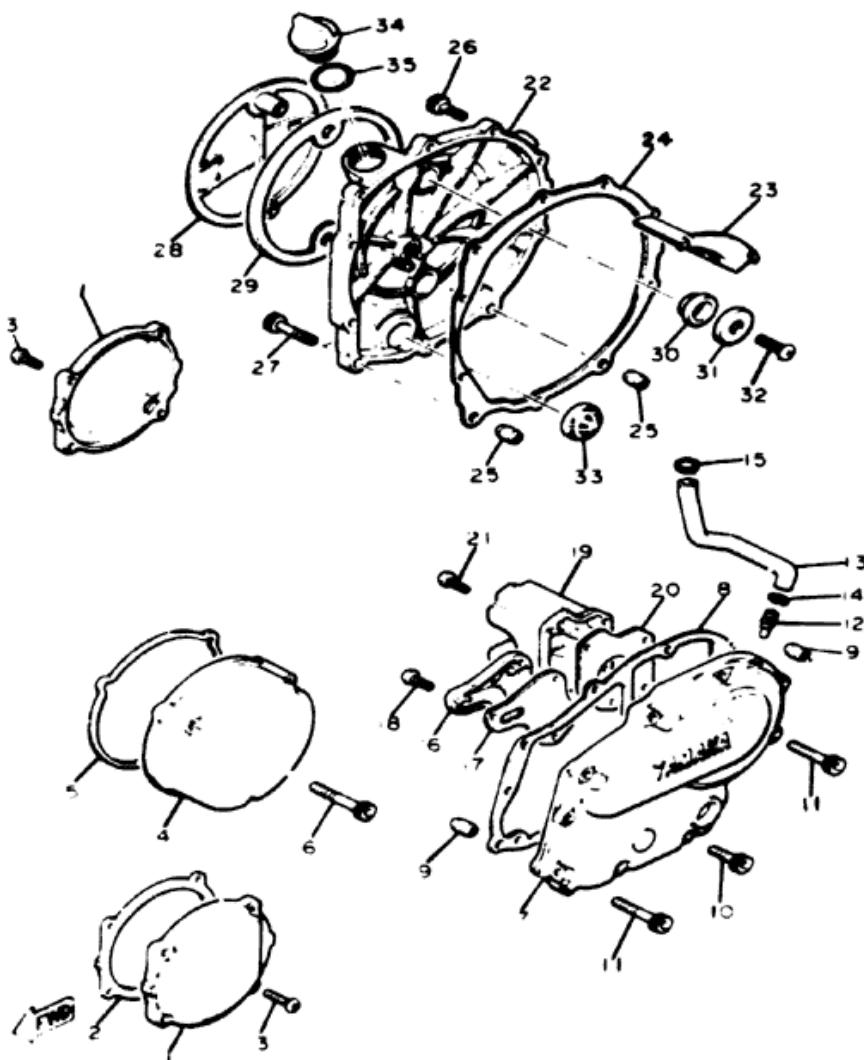
Oiling System	Wet Sump
Capacity Dry	3200cc
Oil and Filter Change	2650cc
Oil Change	2350cc
Lubricant Temp above 5°C (40°F)	Yamalube 4 [°] or SAE 20W 40 SE Motor Oil
Below 15°C (60°F)	Yamalube 4 [°] or SAE 10W 30 SE Motor Oil

CRANKCASE COVER



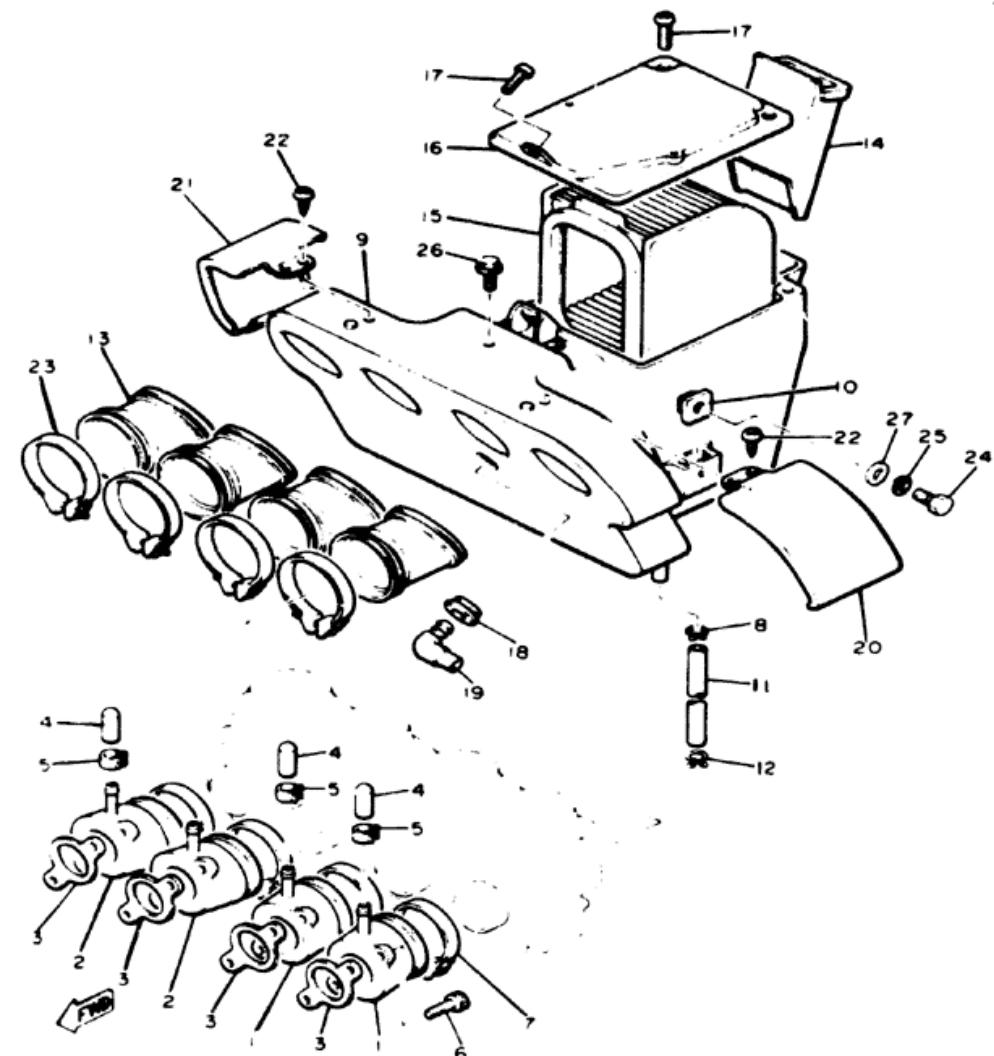
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-15416-00-00	COVER, oil pump	2	
2	4H7-15456-00-00	GASKET, oil pump cover 1	1	
3	98901-06020-00	SCREW, bind.....	8	
4	4H7-15415-00-00	COVER, generator.....	1	
5	4H7-15455-00-00	GASKET, carburetor cover 1	1	
6	91311-06070-00	BOLT	3	
7	4H7-15411-00-00	COVER, 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	4H7-15457-00-00	GASKET	1	
18	92503-06015-00	SCREW, pan head (92501-06015)	3	

CRANKCASE COVER



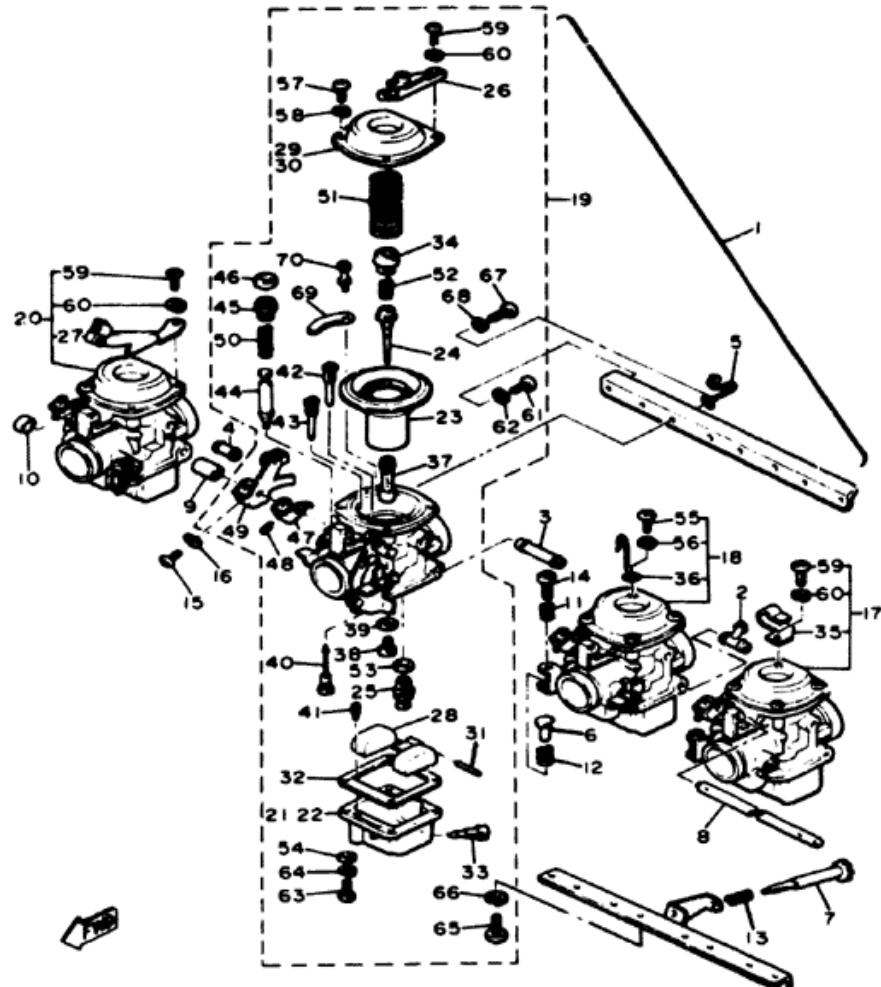
Ref. No.	Part Number	Description	Qty.	Remarks
19	4H7-15347-00-00	BREATHER 2.....	1	
20	4H7-15467-00-00	GASKET	1	
21	92503-06015-00	SCREW, pan head (92501-06015)	4	
22	4H7-15421-01-00	COVER, crankcase 2	1	
23	4H7-15412-01-00	COVER, oil pump	1	
24	4H7-15461-01-00	GASKET, crankcase cover 2	1	
25	91830-21014-00	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	4H7-13586-01-00	JOINT, carburetor 2 (4H7-13586-00).....	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	91318-06020-00	BOLT	8	
7	90480-49160-00	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	

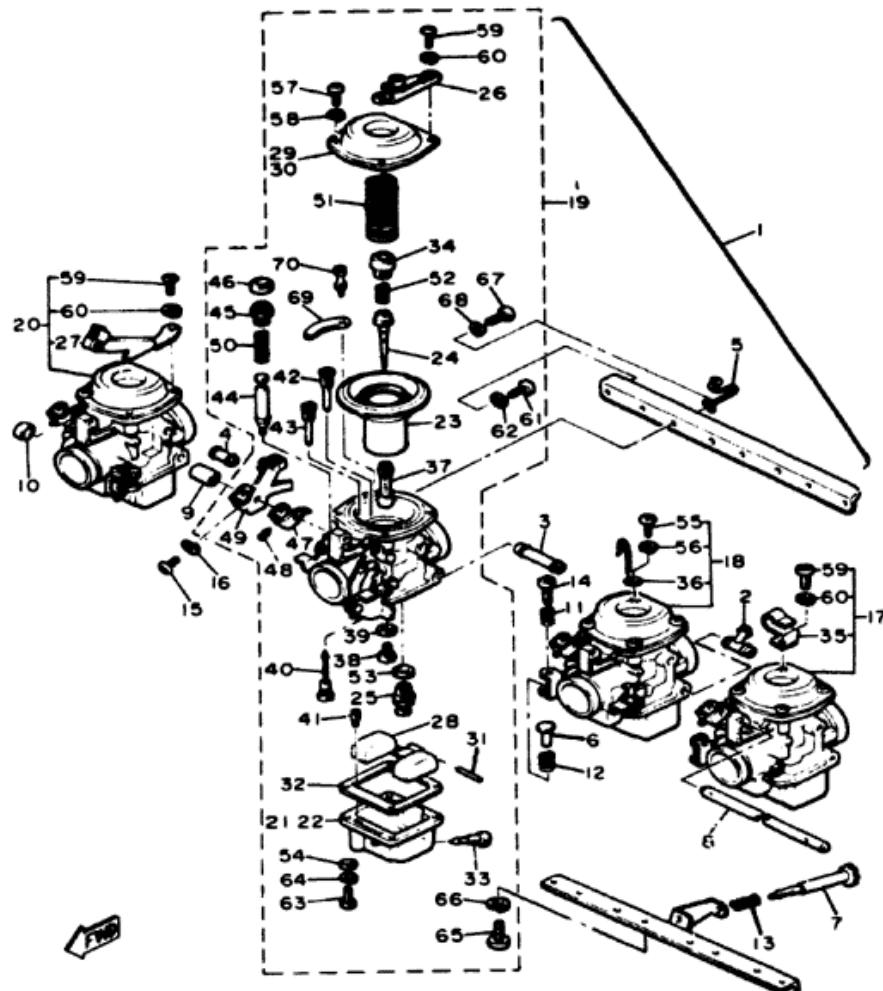
CARBURETOR



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	. CARBUREOTR ASS'Y 2	1	
19	4H7-14903-00-00	. CARBUREOTR 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
Floet Level / Fuel Level	17.5 ± 0.5mm / 2 ~ 4mm
Idle rpm	1060 rpm
Max CO% / Max HC% / Set CO	5.0 % / 800 ppm / 3.0 % (All settings @ Idle)

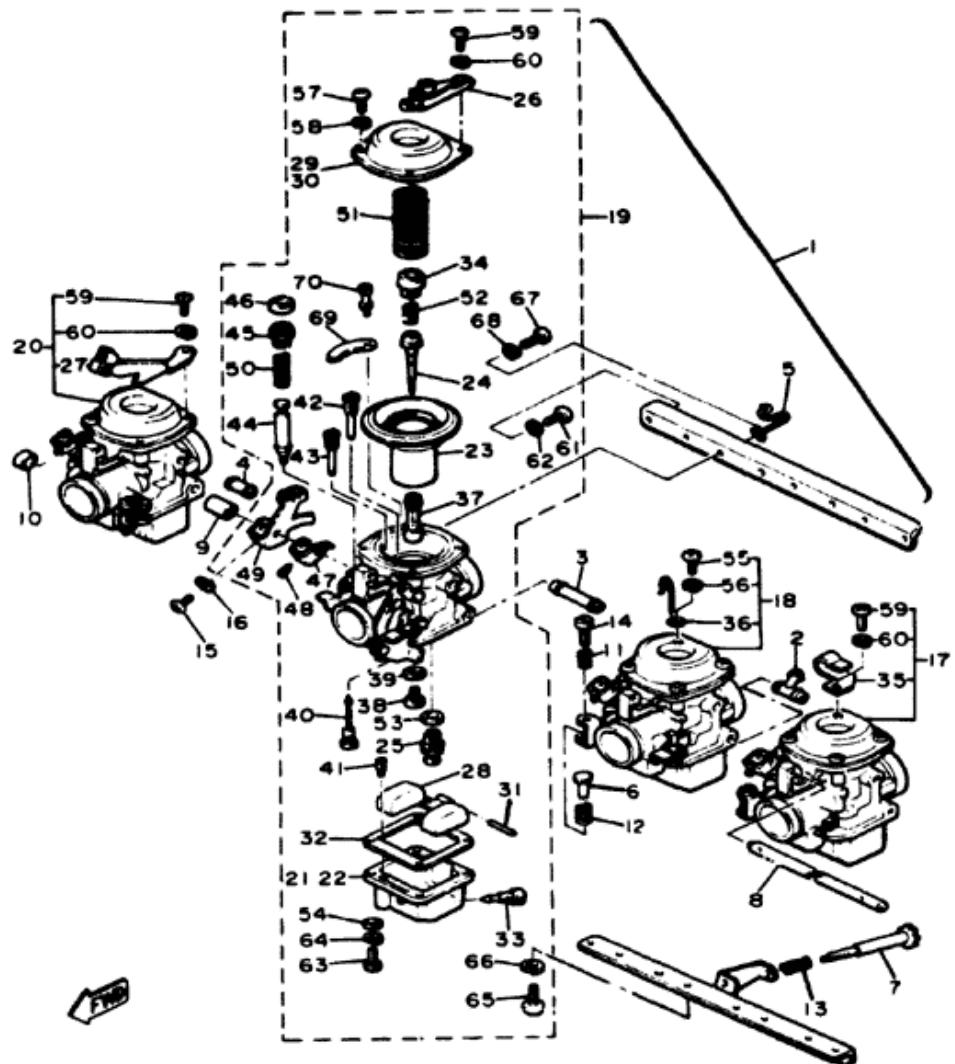
CARBURETOR



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	$17.5 \pm 0.5\text{mm}$ / $2 \sim 4\text{mm}$
Idle rpm	1050 rpm
Max CO% / Max HC% / Set CO	5.0 % / 800 ppm / 3.0 % (All settings @ Idle)

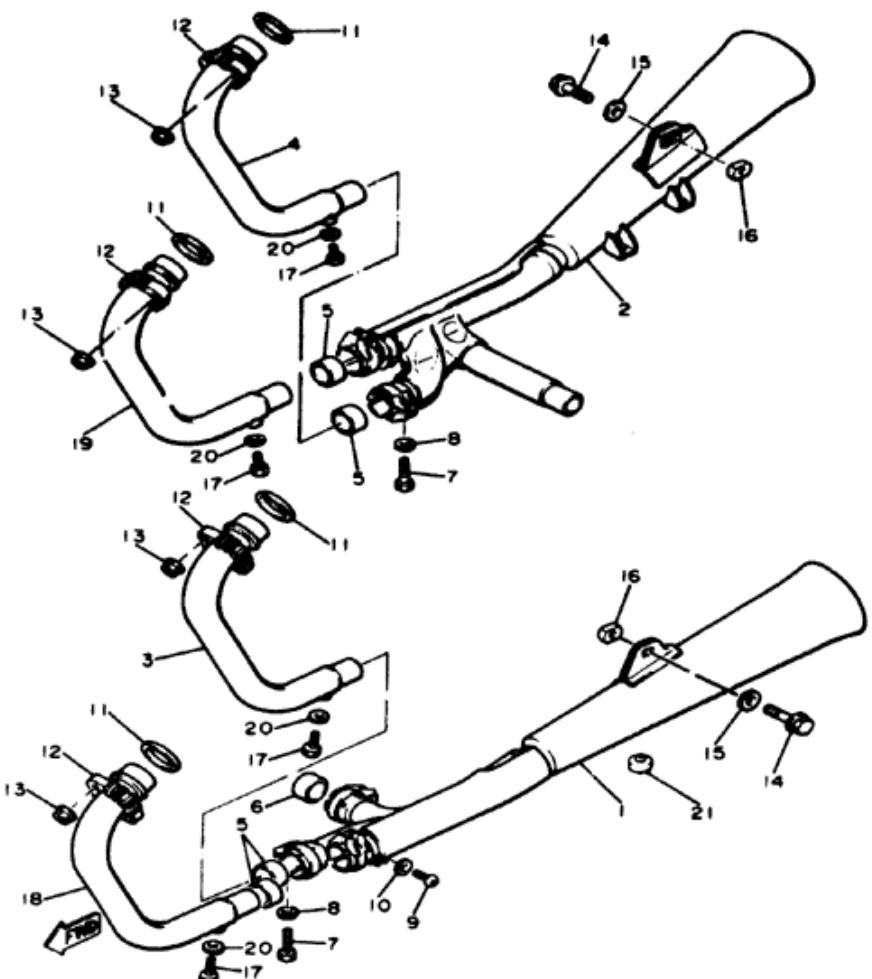
CARBURETOR



Ref. No.	Part Number	Description	Qty.
54	4H7-14955-00-00	WASHER	16
54	98503-04010-00	SCREW, pan head (98501-04010).....	1
56	92901-04100-00	WASHER, spring (92903-04100).....	1
57	98502-04008-00	SCREW, pan head.....	10
57	98501-04008-00	SCREW, pan head (98502-04008).....	10
58	92901-04100-00	WASHER, spring (92903-04100).....	10
59	98503-04010-00	SCREW, pan head (98501-04010).....	5
60	92901-04100-00	WASHER, spring (92903-04100).....	5
61	98501-05010-00	SCREW, pan head.....	3
62	92903-05100-00	WASHER, spring (92902-05100).....	3
63	98503-05015-00	SCREW, pan head (98501-05015).....	16
64	92903-05100-00	WASHER, spring (92902-05100).....	16
65	92503-06012-00	SCREW, pan head (92501-06012).....	4
66	92903-06100-00	WASHER, spring (92902-06100).....	4
67	98503-05012-00	SCREW, pan head (98502-05012).....	1
68	92903-05100-00	WASHER, spring (92902-05100).....	1
69	4H7-14527-00-00	PLATE.....	4
70	4H7-14325-00-00	SCREW, pan head.....	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
Floate Level / Fuel Level	17.5 ± 0.5mm / 2 ~ 4mm
Idle rpm	1060 rpm
Max CO% / Max HC% / Set CO	5.0 % / 800 ppm / 3.0 % (All settings at 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-C0	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	92901-08600-00	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	

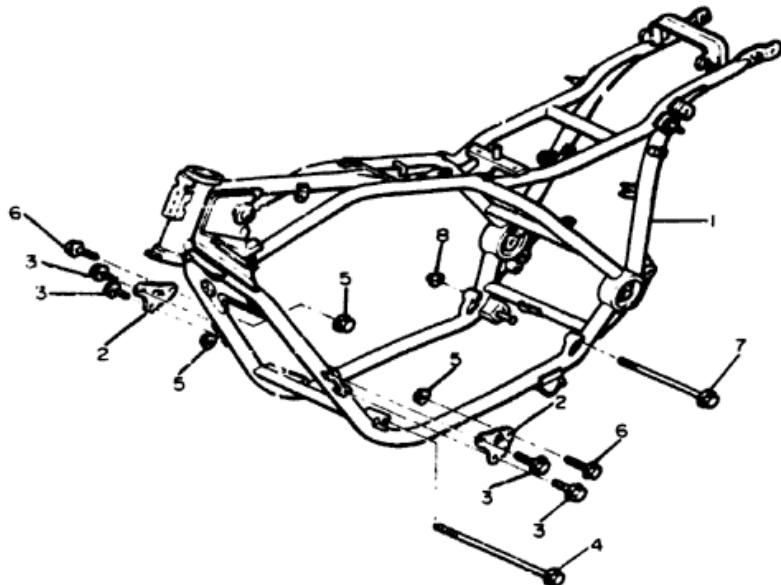
Max CO* / Max HC* / Set CO

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

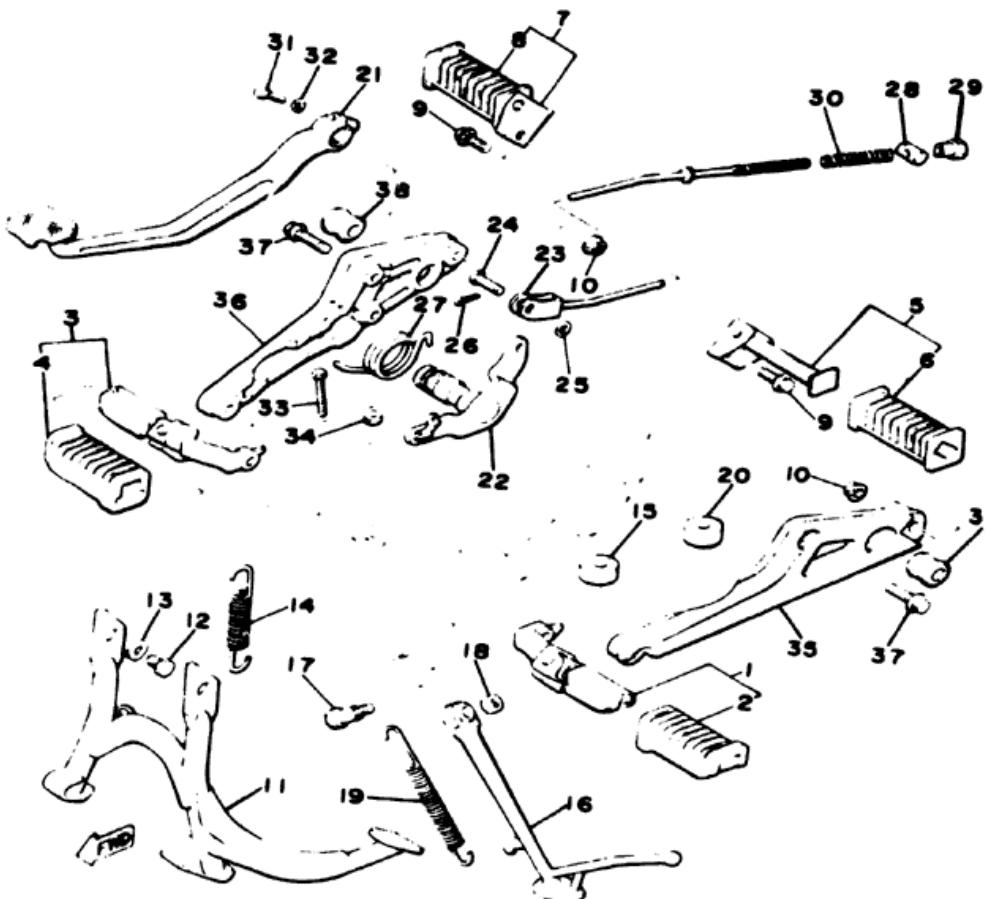
MODEL - 1984 I.D. NUMBER	XJ650G - B	XJ650G - R	4H7
Initial Engine Number / Frame Number	4H7-000101	4H7-000101	
Basic Color(s)	Black Gold (B)	New Ruby Red (R)	



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	

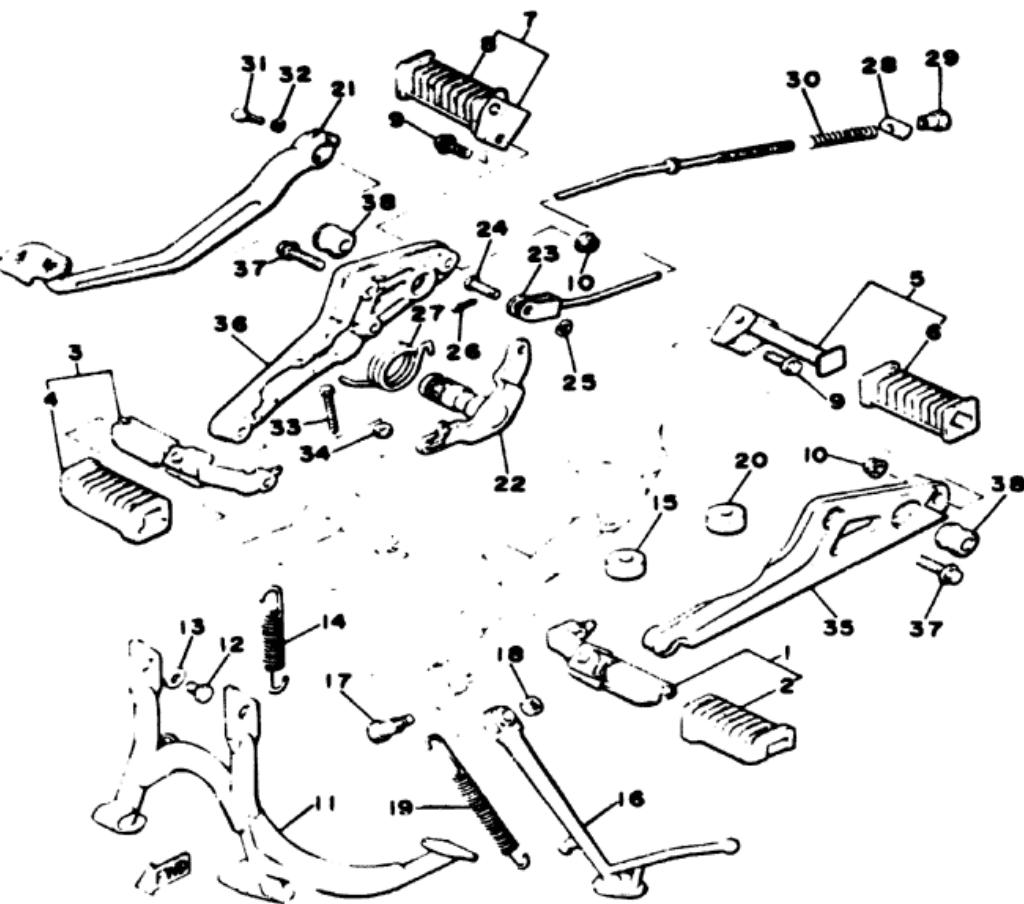
FWD

STAND · FOOTREST



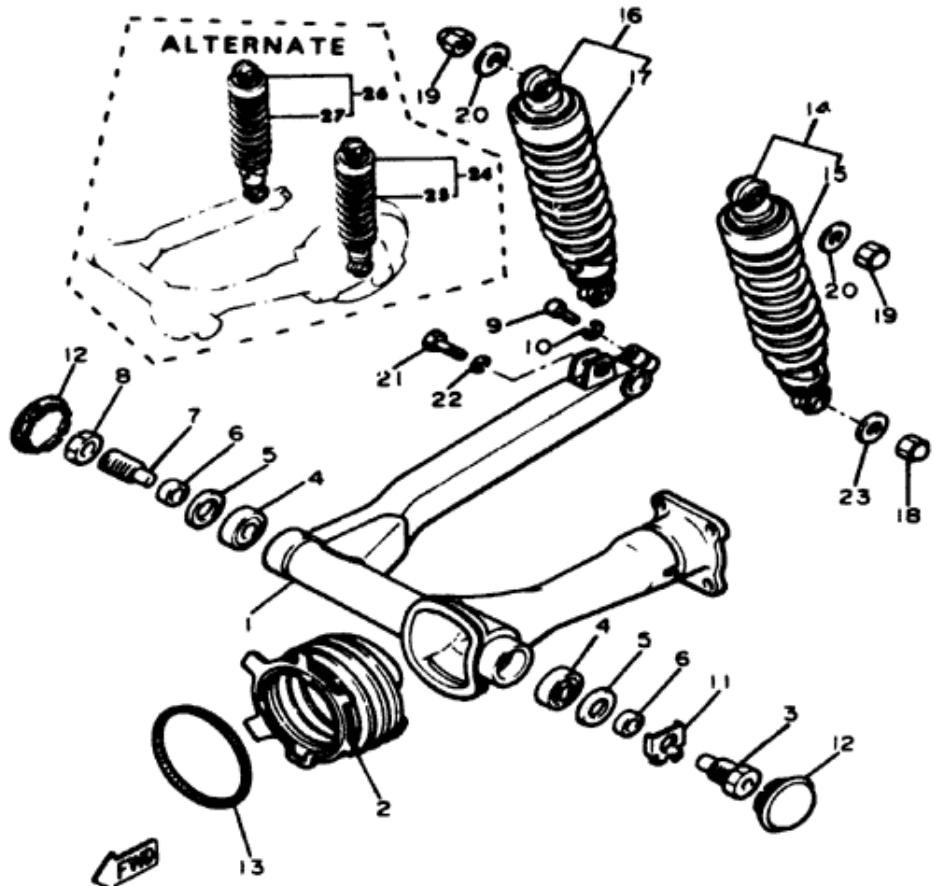
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-27410-00-00	FRONT FOOTREST ASS'Y (L.H.)	1	
2	1J7-27413-01-00	. COVER, footrest.....	1	
3	4H7-27420-00-00	FRONT FOOTREST ASS'Y (R.H.)	1	
4	1J7-27413-01-00	. COVER, footrest.....	1	
5	4H7-27430-00-00	REAR FOOTREST ASS'Y 1	1	
6	1J7-27433-00-00	. COVER, rear footst.....	1	
7	4H7-27440-00-00	REAR FOOTREST ASS'Y 2	1	
8	1J7-27444-00-00	. COVER, rear footst.....	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	90508-45446-00	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

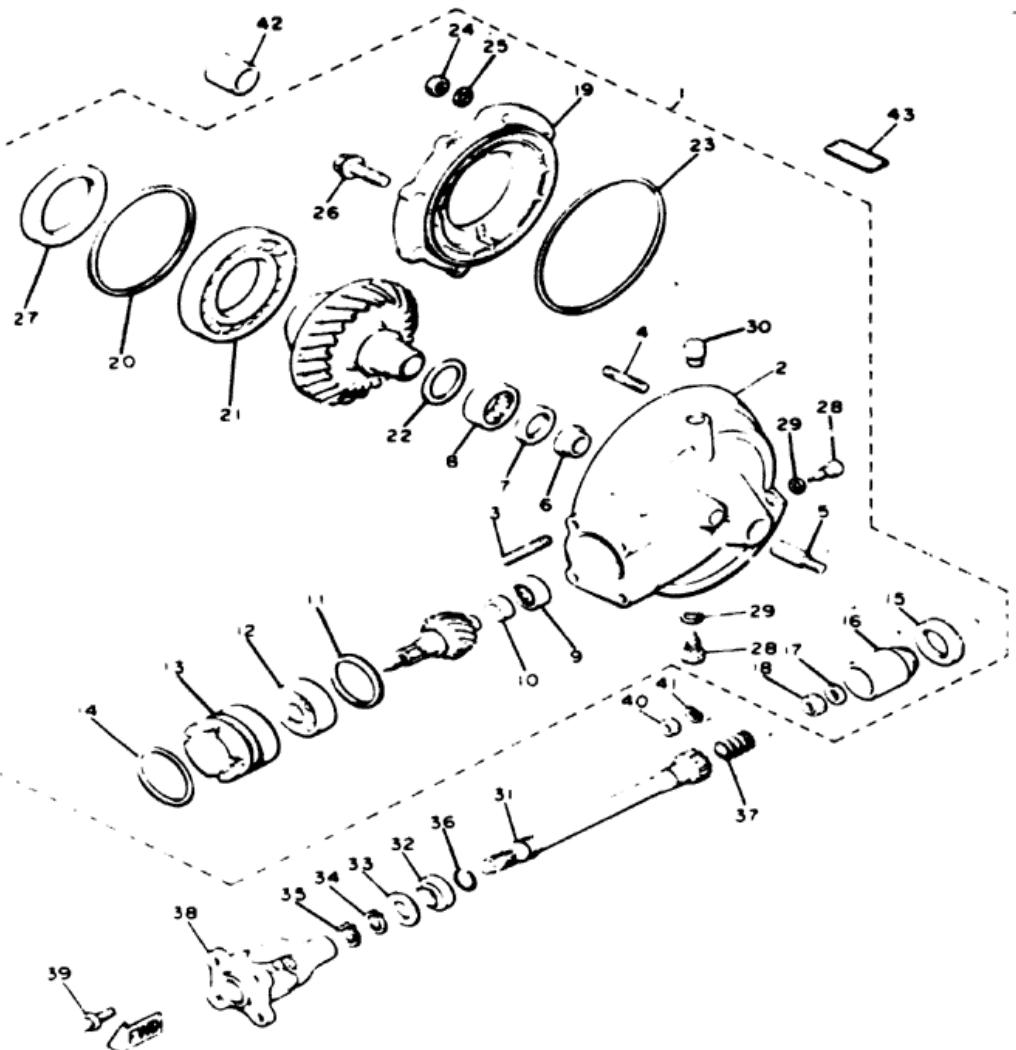


Ref. No.	Part Number	Description	Qty.
1	4H7-22110-00-98	REAR ARM COMP.....	1
2	4H7-22189-00-00	BOOT, rubber.....	1
3	4H7-22141-00-00	SHAFT, pivot.....	1
4	93332-00010-00	BEARING	2
5	93102-25017-00	OIL SEAL	2
6	90387-17543-00	COLLAR	2
7	1J7-22141-00-00	SHAFT, pivot.....	1
8	1J7-22143-00-00	NUT.....	1
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

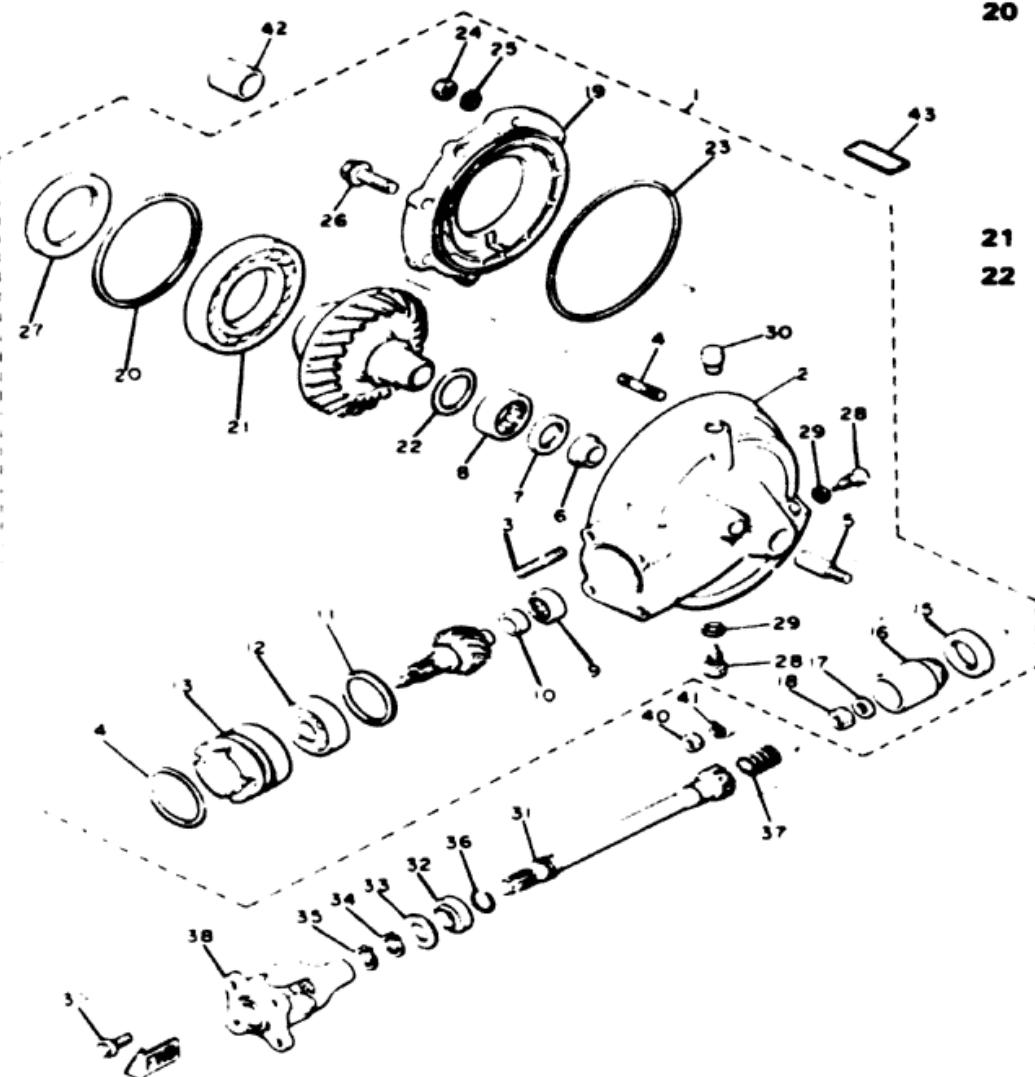
24	4H7-22210-A0-00	SHOCK ABSORBER ASS'Y, rear	1
25	4H7-22212-A0-00	SPRING.....	1
26	4H7-22210-E0-00	SHOCK ABSORBER ASS'Y, rear	1
27	4H7-22212-A0-00	SPRING.....	1

DRIVE SHAFT



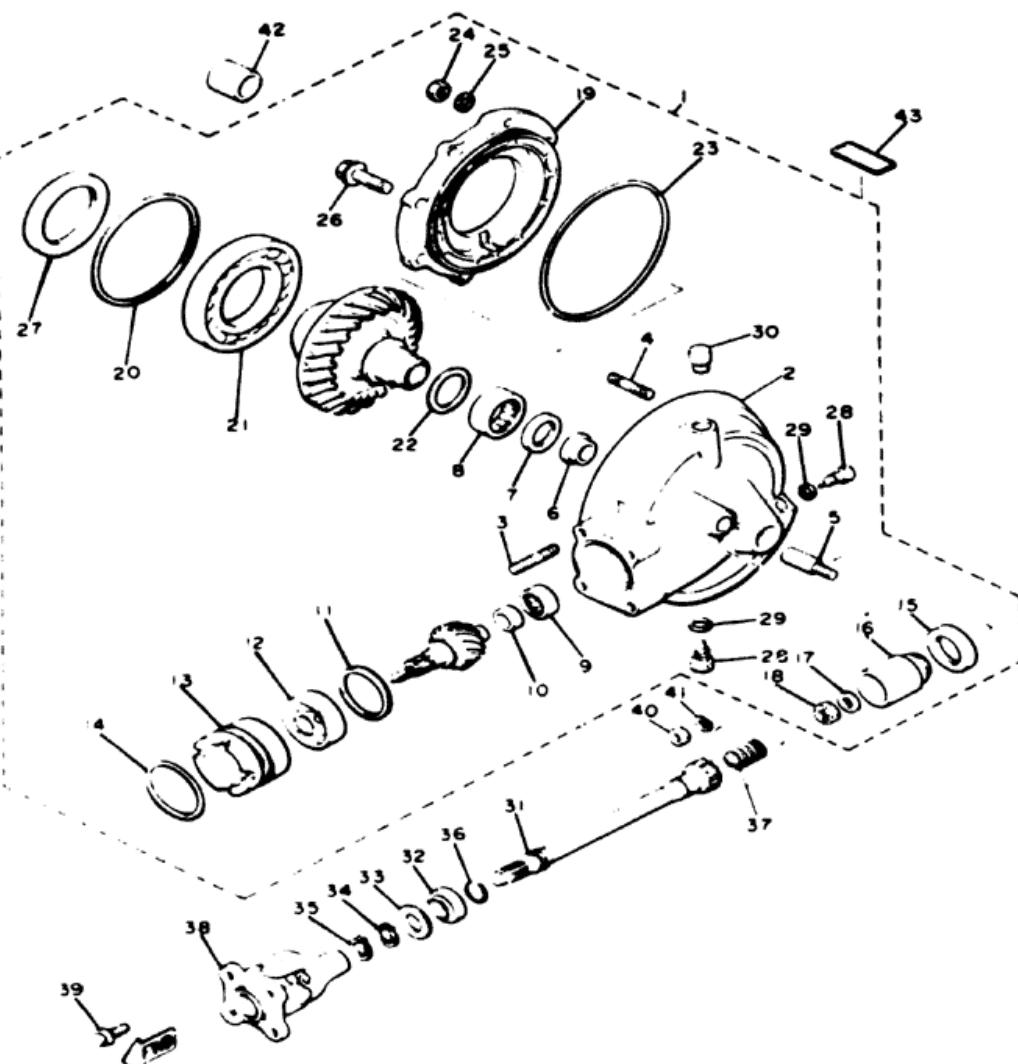
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-46101-00-00	REAR AXLE GEAR CASE ASS'Y	1	
2	4H7-46151-00-00	HOUSING, shaft drive.....	1	
3	90116-10327-00	BOLT, stud	4	
4	90116-06247-00	BOLT, stud	6	
5	90116-10249-00	BOLT, stud	1	
6	4H7-46153-00-00	COLLAR, guide	1	
7	93101-30084-00	OIL SEAL.....	1	
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	93210-80426-00	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



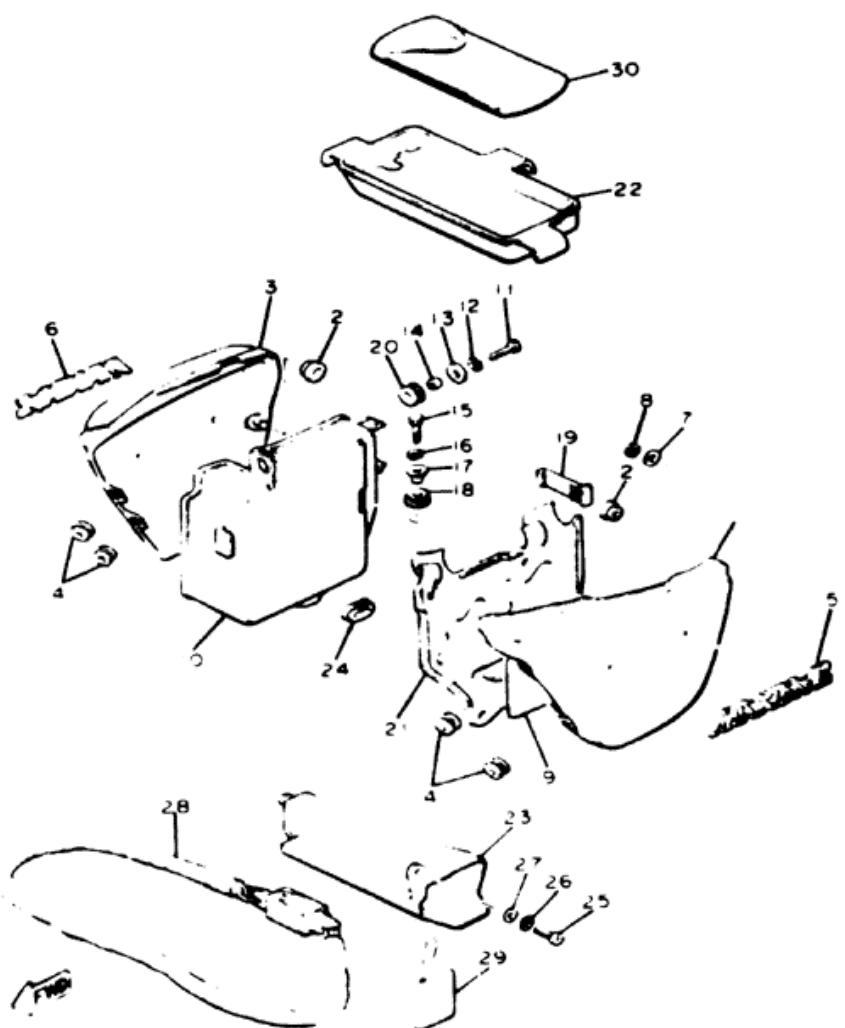
Ref. No.	Part Number	Description	Qty.	Remarks
20	1J7-46117-Y0-25	SHIM, ring gear (0.25T)	1	U.R.
	1J7-46117-Y0-30	SHIM, ring gear (0.30T)	1	U.R.
	1J7-46117-Y0-35	SHIM, ring gear (0.35T)	1	U.R.
	1J7-46117-Y0-40	SHIM, ring gear (0.40T)	1	U.R.
	1J7-46117-Y0-45	SHIM, ring gear (0.45T)	1	U.R.
	1J7-46117-Y0-50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

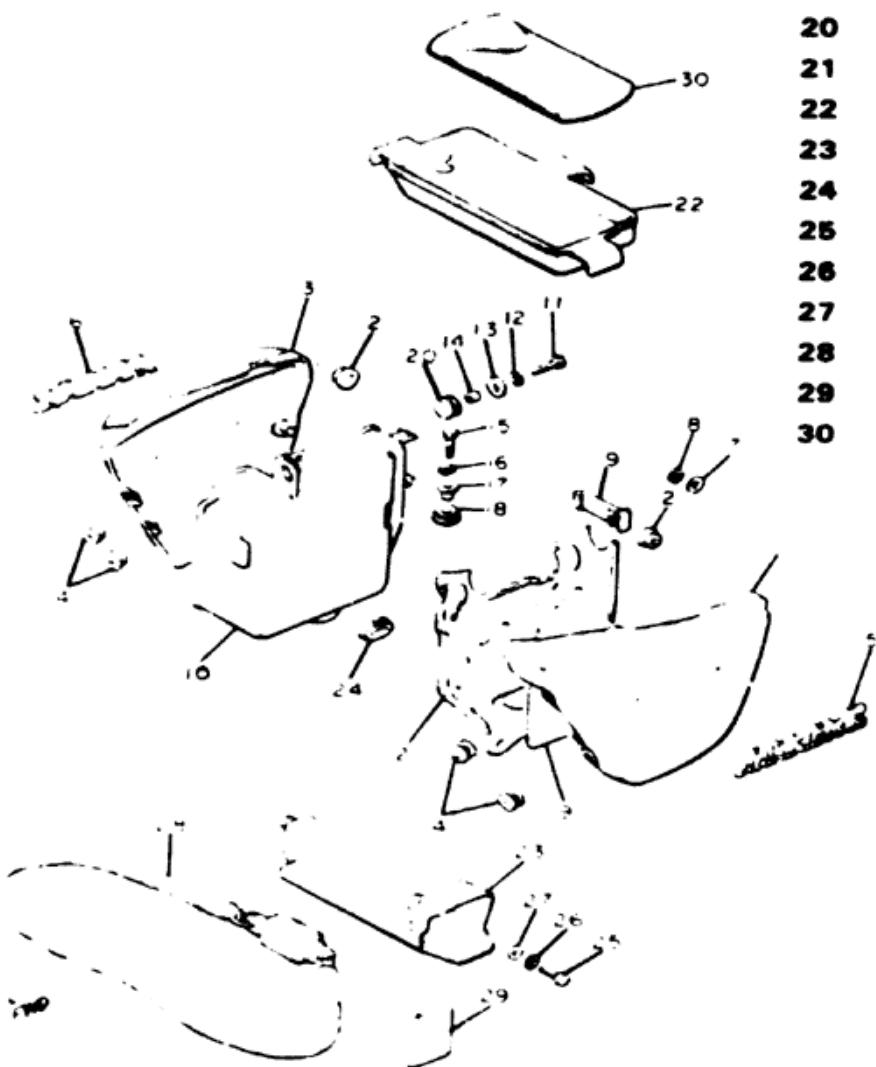
SIDE COVER · TOOL



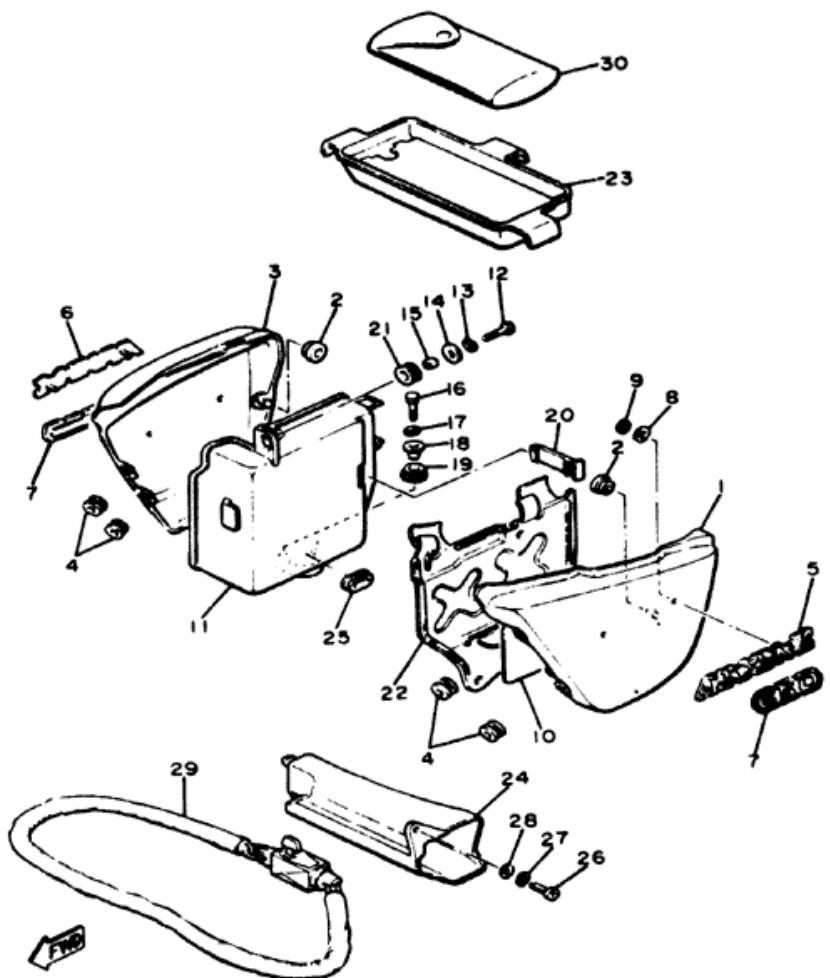
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-21711-00-6G	COVER, side (L.H.)	1	U.R. New Yamaha Blk
	4H7-21711-00-7J	COVER, side (L.H.)	1	U.R. New Ruby Red
2	90480-01141-00	GROMMET.....	2	
3	4H7-21721-01-6G	COVER, side (R.H.)	1	U.R. New Yamaha Blk
	4H7-21721-01-7J	COVER, side (R.H.)	1	U.R. New Ruby 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	92903-08100-00	WASHER, spring (92902-08100)	1	
13	90201-08407-00	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	

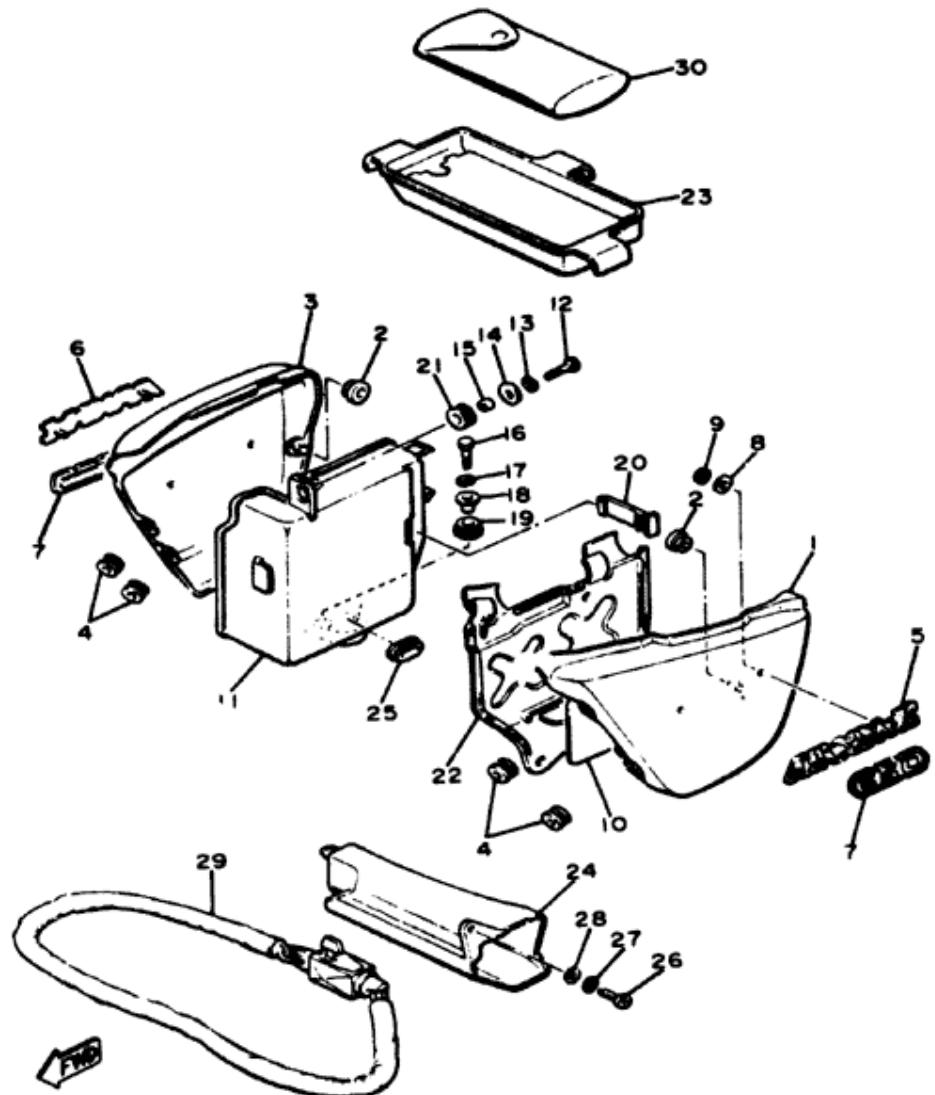


SIDE COVER - TOOL



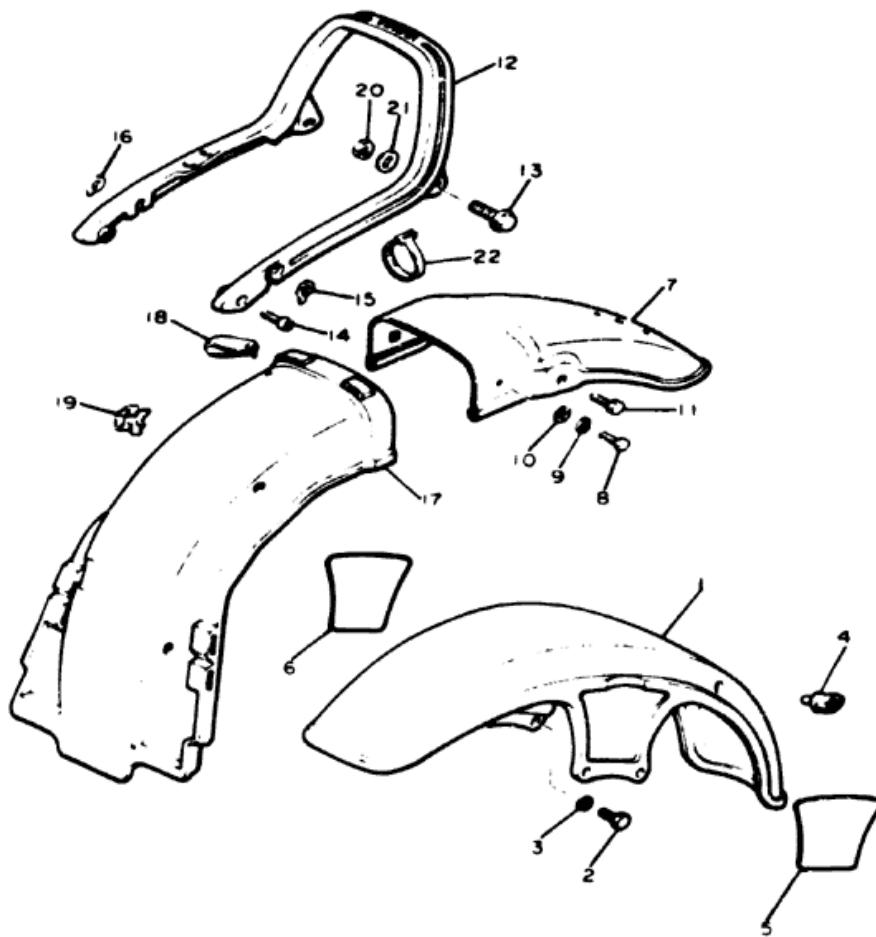
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-21711-00-2J	COVER, side (L.H.)	1	U.R. Black Red
	4H7-21711-00-9G	COVER, side (L.H.)	1	U.R. Frost Silver
2	90480-01141-00	GROMMET.....	2	
3	4H7-21721-01-2J	COVER, side (R.H.)	1	U.R. Black Red
	4H7-21721-01-9G	COVER, side (R.H.)	1	U.R. Frost Silver
4	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	97321-06025-00	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

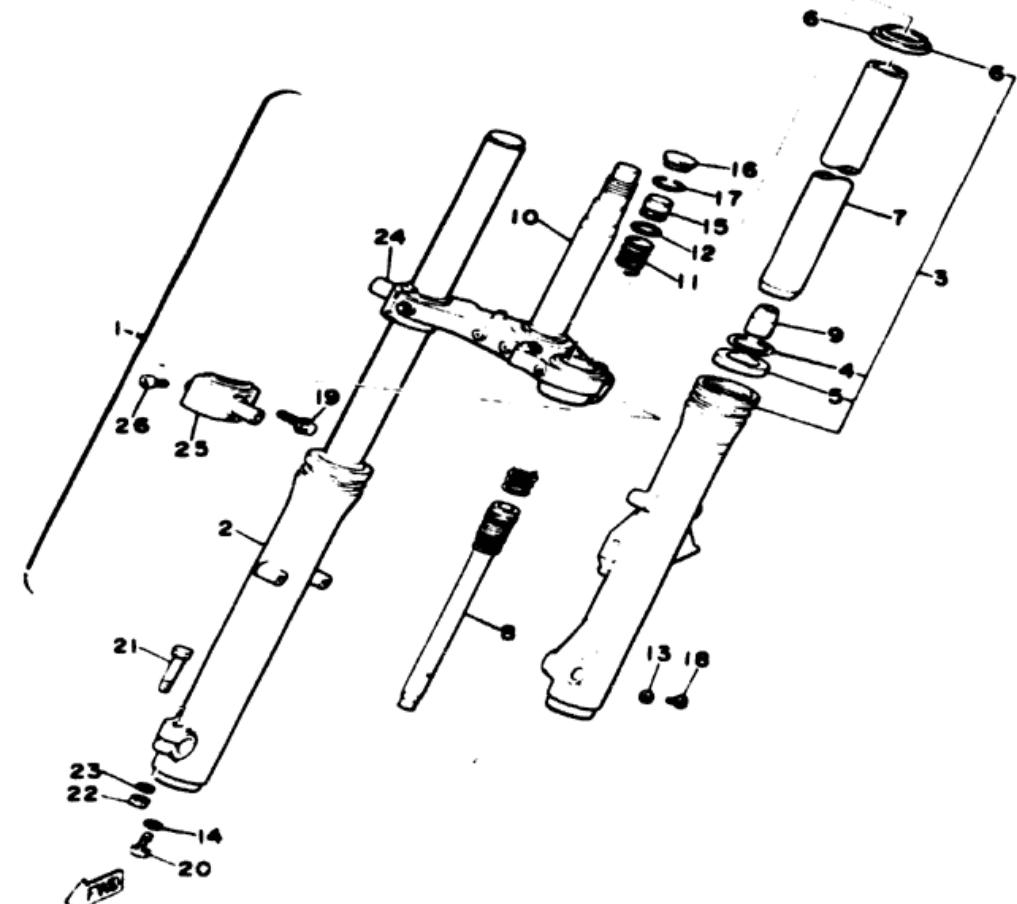
FRONT FENDER · REAR FENDER



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	97321-06012-00	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	

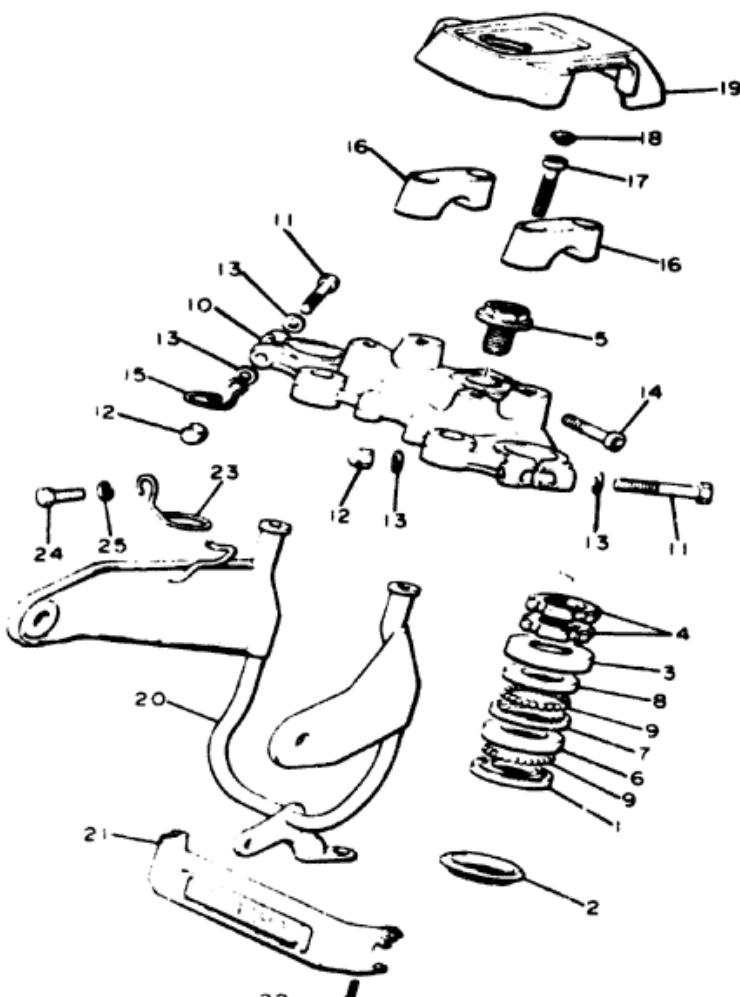
FRONT FORK

SUSPENSION		
Front Forks	Oil Type	Lower Qty
		10 Wt. Fork Oil # 30cc
Gas Pressure	#	
Spring Length Std		600mm



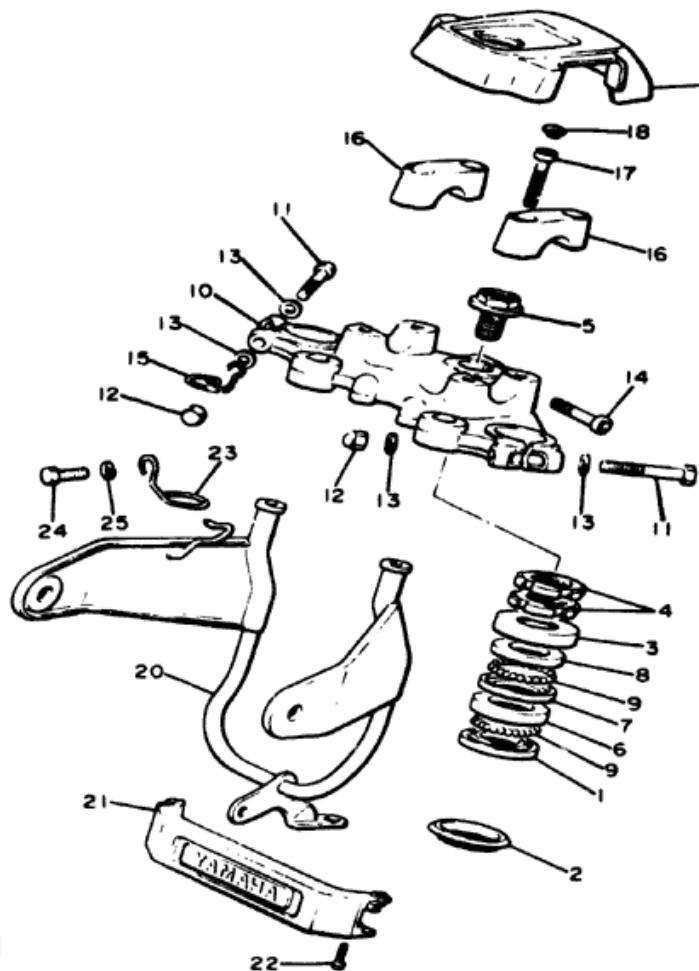
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-23101-00-00	FRONT FORK ASS'Y	1	
2	4H7-23136-00-00	. TUBE, outer 2.....	1	
3	4H7-23126-00-00	. TUBE, outer 1.....	1	
4	4A1-23158-00-00	. CLIP, oil seal.....	2	
5	3J2-23145-00-00	. OIL SEAL	2	
6	4H7-23144-00-00	. SEAL, dust.....	2	
7	4H7-23110-00-00	. 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-L0-70	. 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



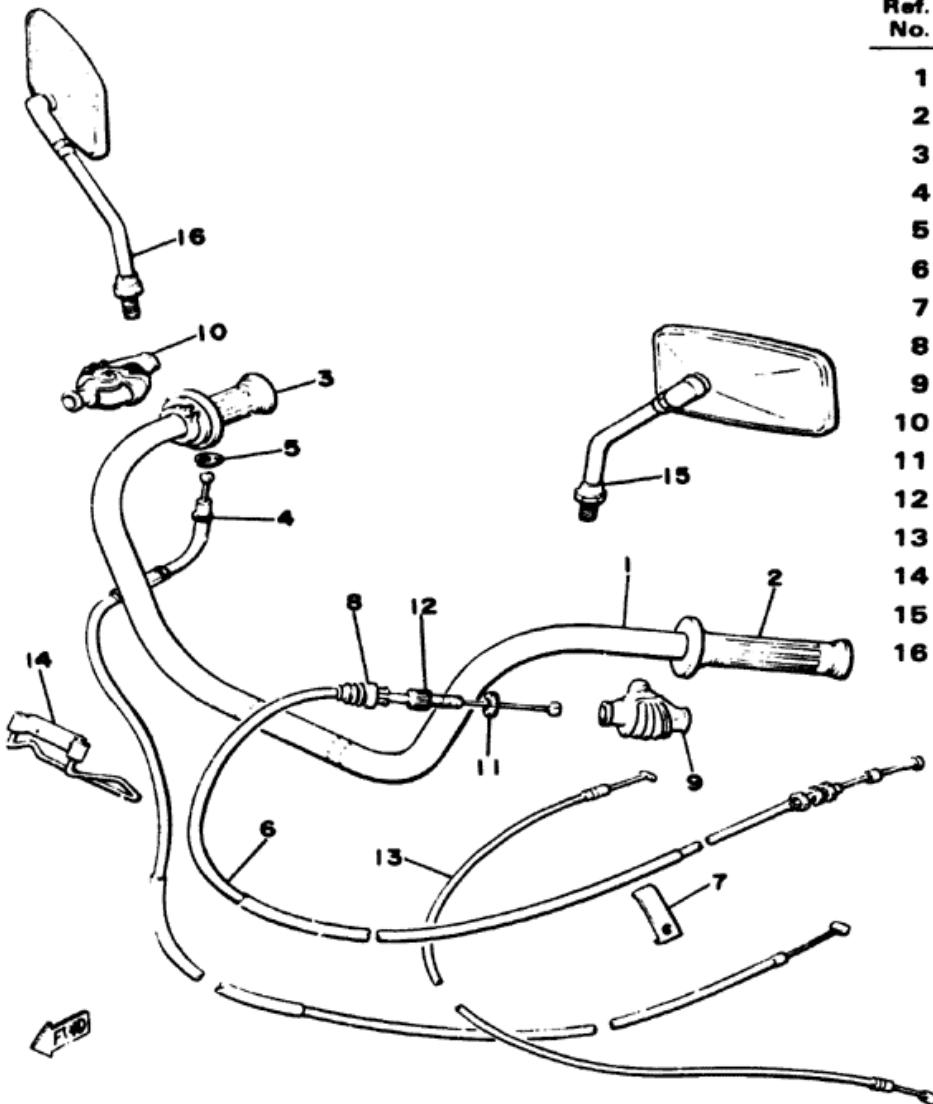
Ref. No.	Part Number	Description	Qty.	Remarks
1	256-23411-00-00	RACE, ball 1.....	1	
2	164-23462-00-00	SEAL, steering.....	1	
3	136-23415-00-00	COVER, ball race 1.....	1	
4	90179-25033-00	NUT.....	2	
5	90105-14137-00	BOLT, washer based.....	1	
6	256-23412-00-00	RACE, ball 2.....	1	
7	256-23413-00-00	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



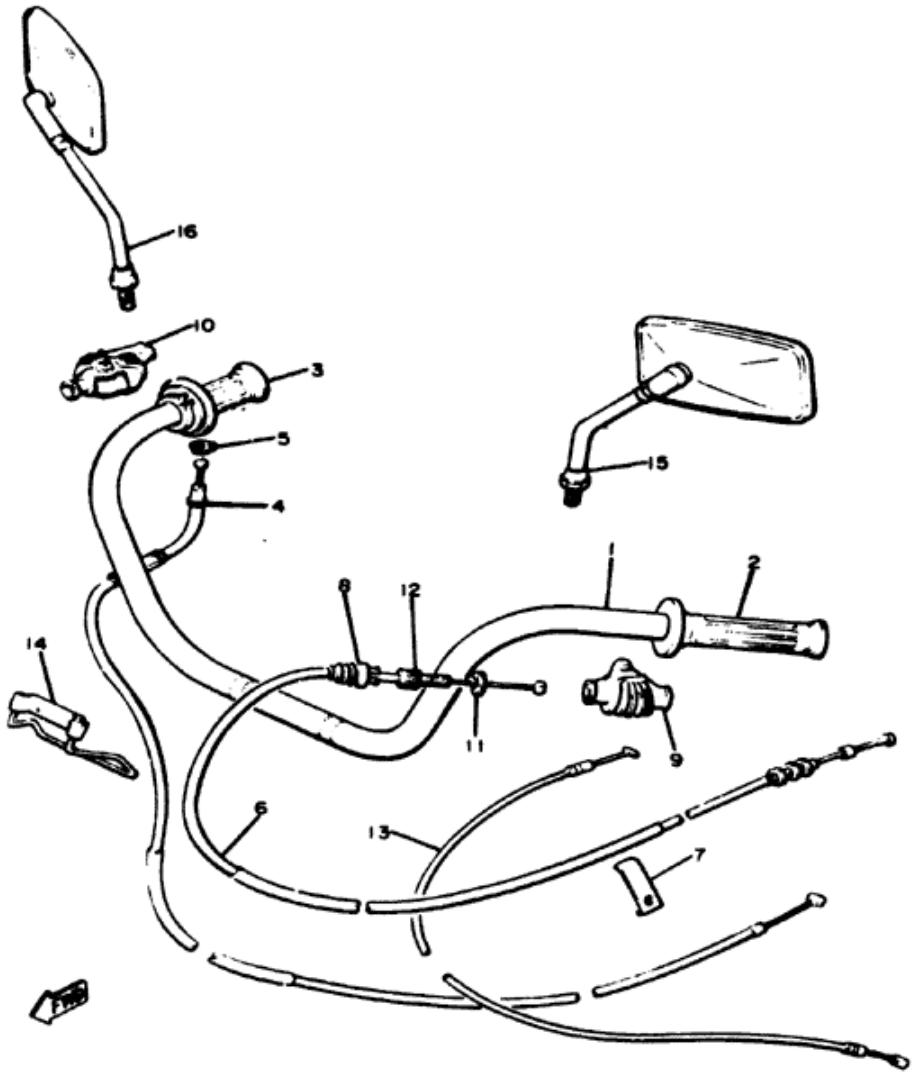
Ref. No.	Part Number	Description	Qty.	Remarks
1	256-23411-00-00	RACE, ball 1.....	1	
2	164-23462-00-00	SEAL, steering.....	1	
3	4K0-23415-00-00	COVER, ball race 1	1	
4	4H3-23454-00-00	NUT, fitting 2.....	2	
5	90105-14137-00	BOLT, washer based.....	1	
6	256-23412-00-00	RACE, ball 2.....	1	
7	256-23413-00-00	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	

HANDLEBAR · CABLE



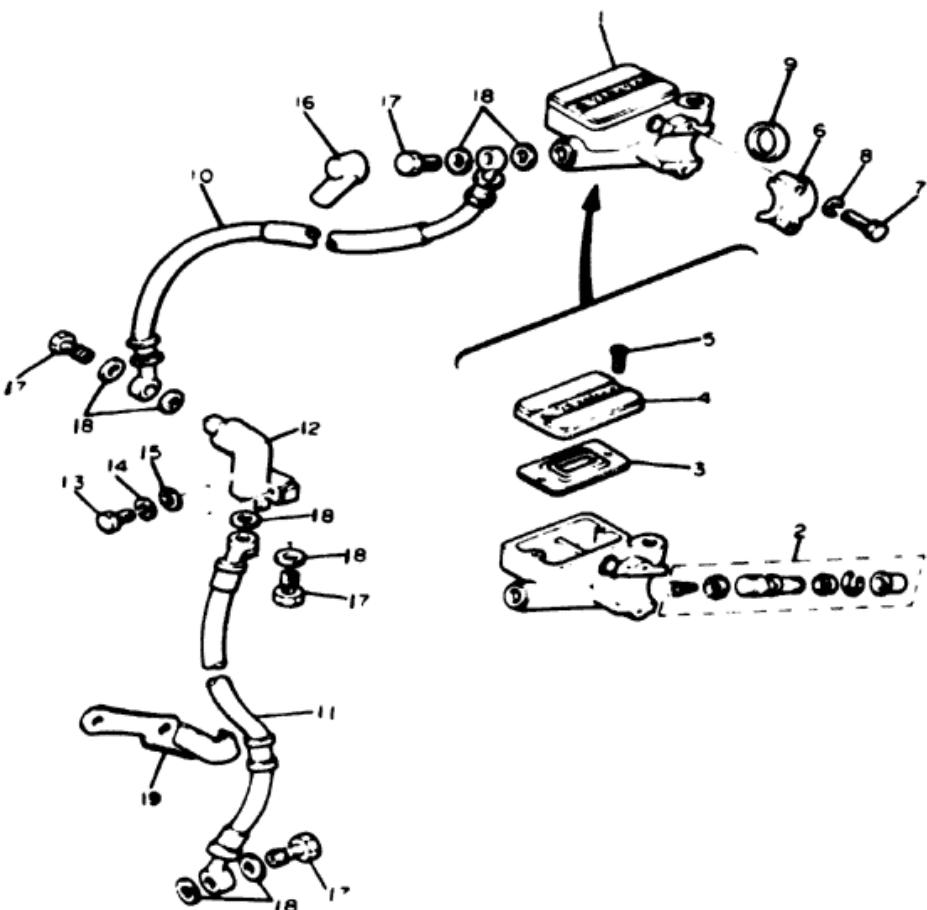
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-26111-00-00	HANDLEBAR	1	
2	2H7-26241-00-00	GRIP (L.H.).....	1	
3	2H7-26240-00-00	GRIP ASS'Y.....	1	
4	4H7-26311-00-00	CABLE, throttle 1	1	
5	584-26393-02-00	HOLDER	1	
6	4H7-26335-00-00	CABLE, clutch	1	
7	4H7-26393-00-00	HOLDER	1	
8	1E6-26342-00-00	BOOT, 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	90123-08048-00	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	

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

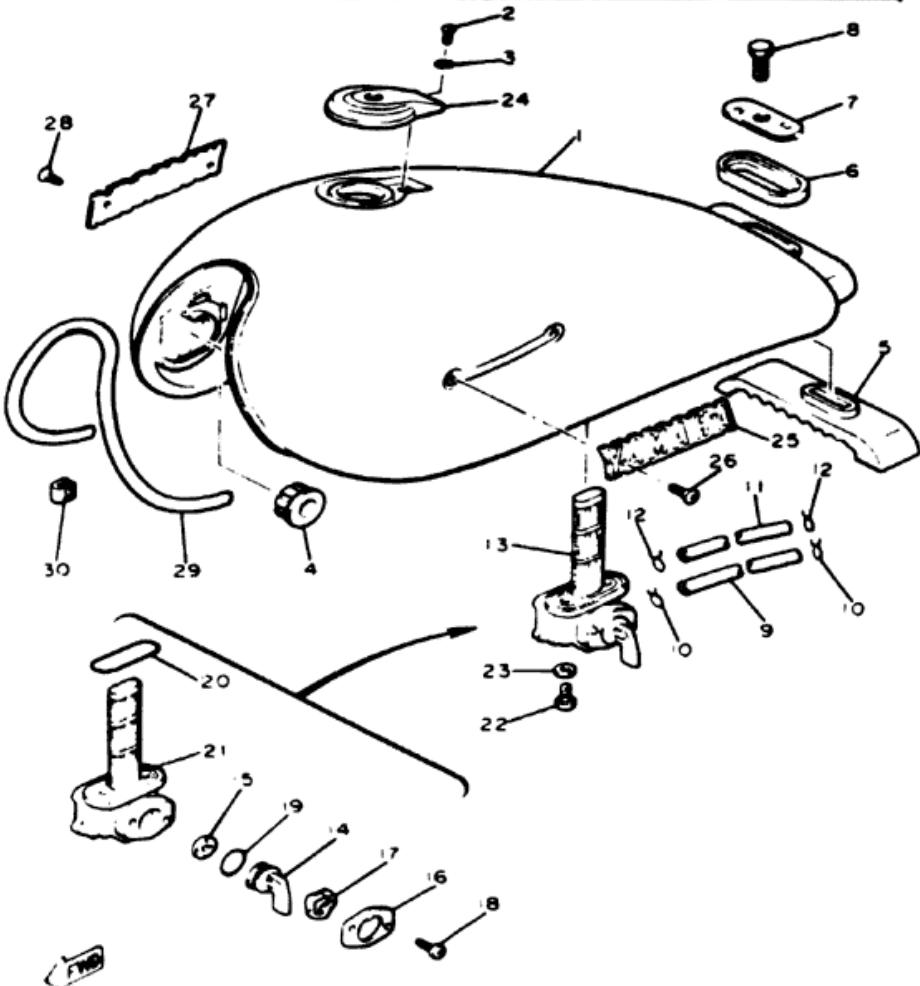
FRONT MASTER CYLINDER



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	

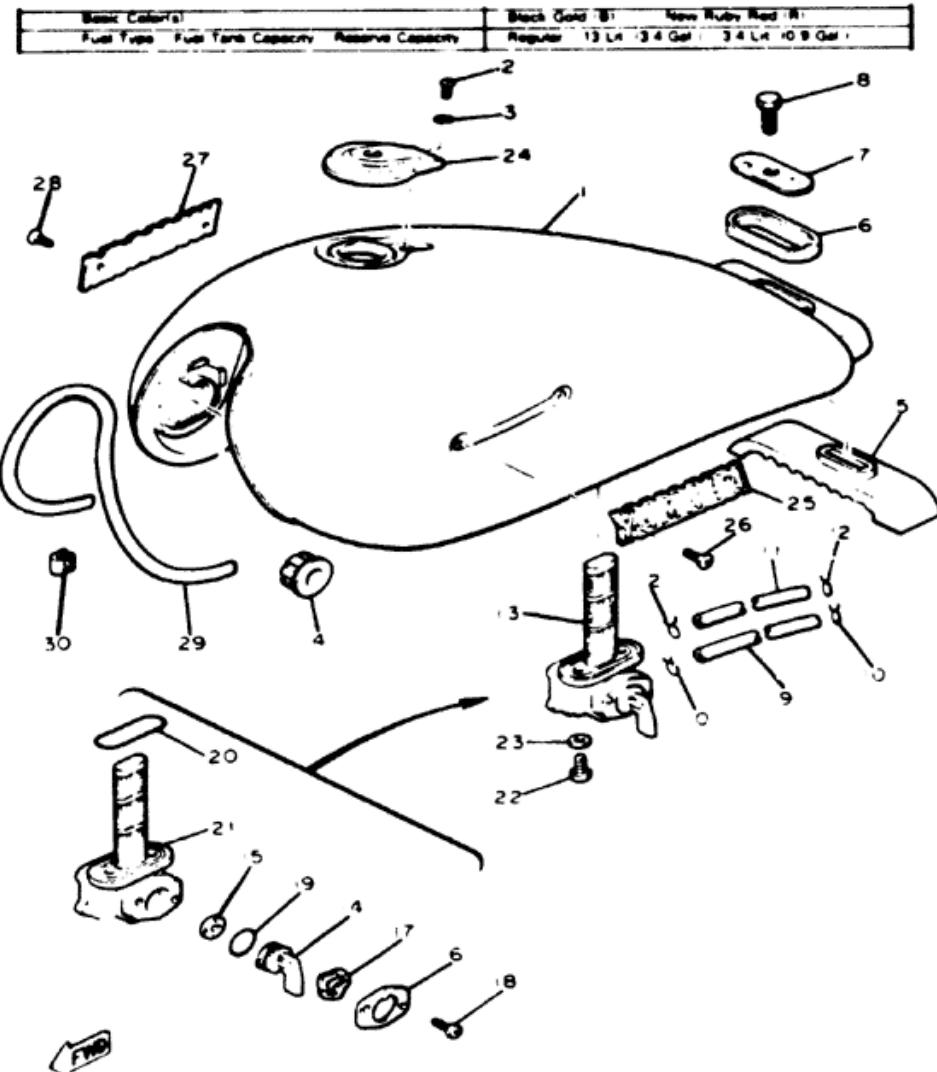
FUEL TANK

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



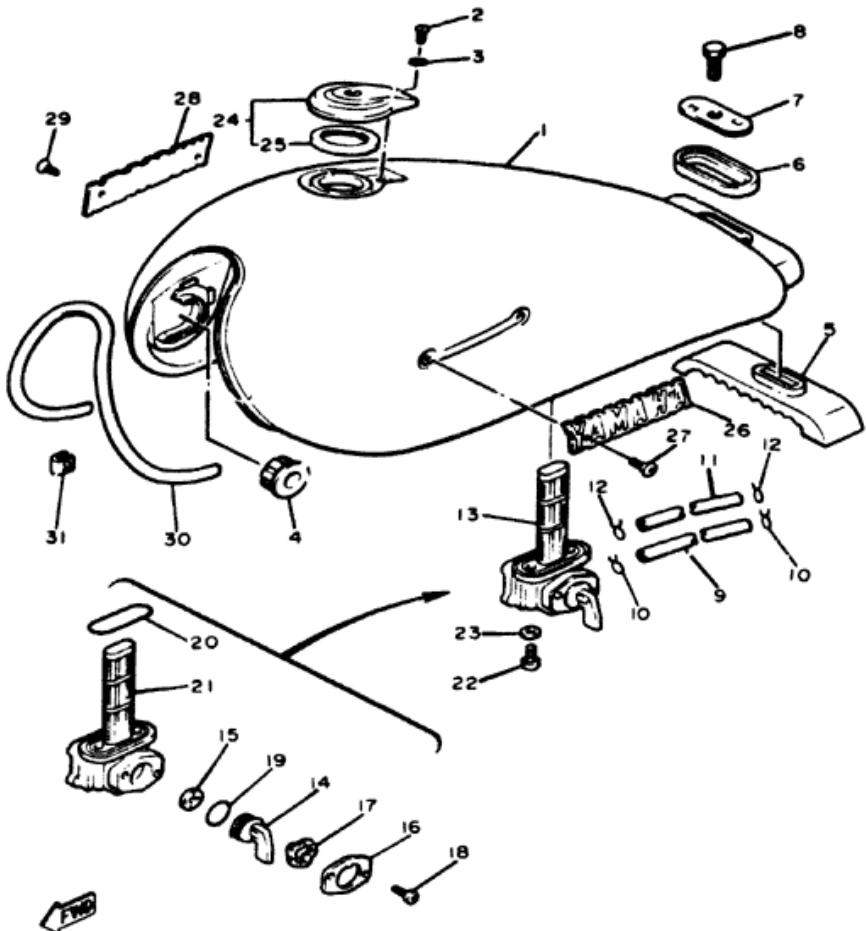
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-24110-00-6G	FUEL TANK COMP.	1	U.R. New Yamaha BII
	4H7-24110-00-7J	FUEL TANK COMP.	1	U.R. New Ruby Red
2	98501-05010-00	SCREW, pan head (98503-05008)	1	
3	92903-05100-00	WASHER, spring (92901-05100)	1	
4	4H7-24181-00-00	DAMPER, locating 1.....	2	
5	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



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	2W8-24512-00-00	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	

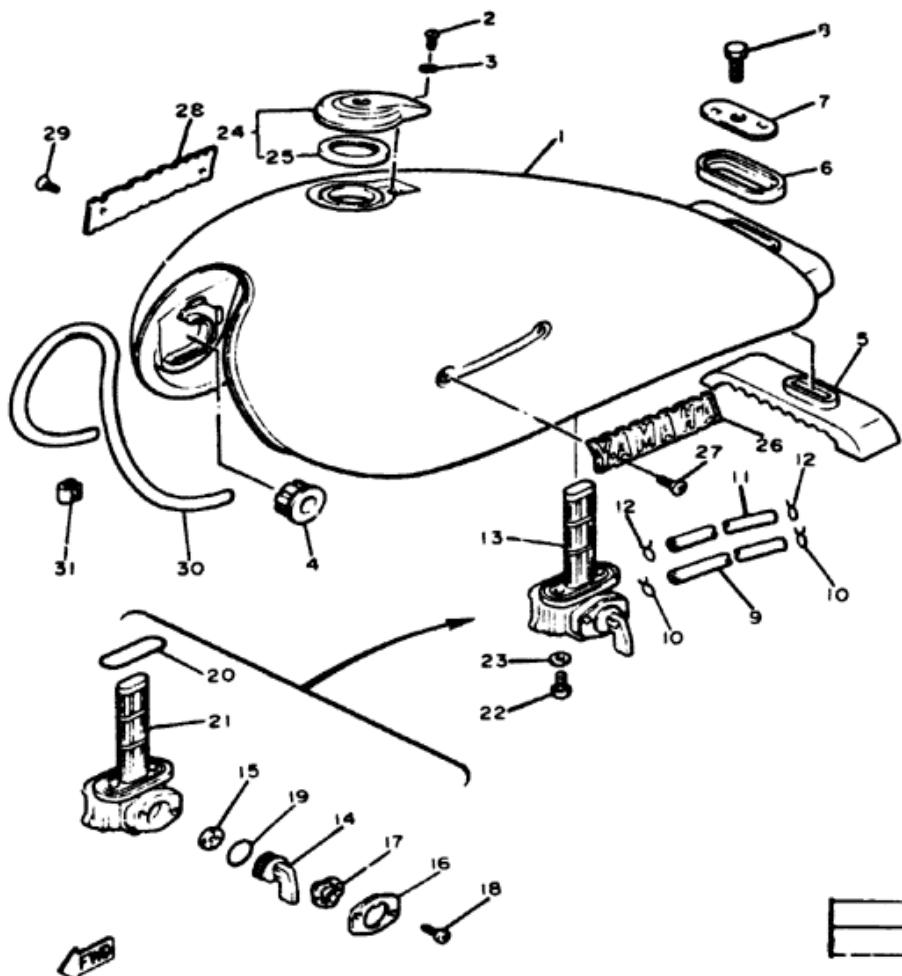
FUEL TANK



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.)

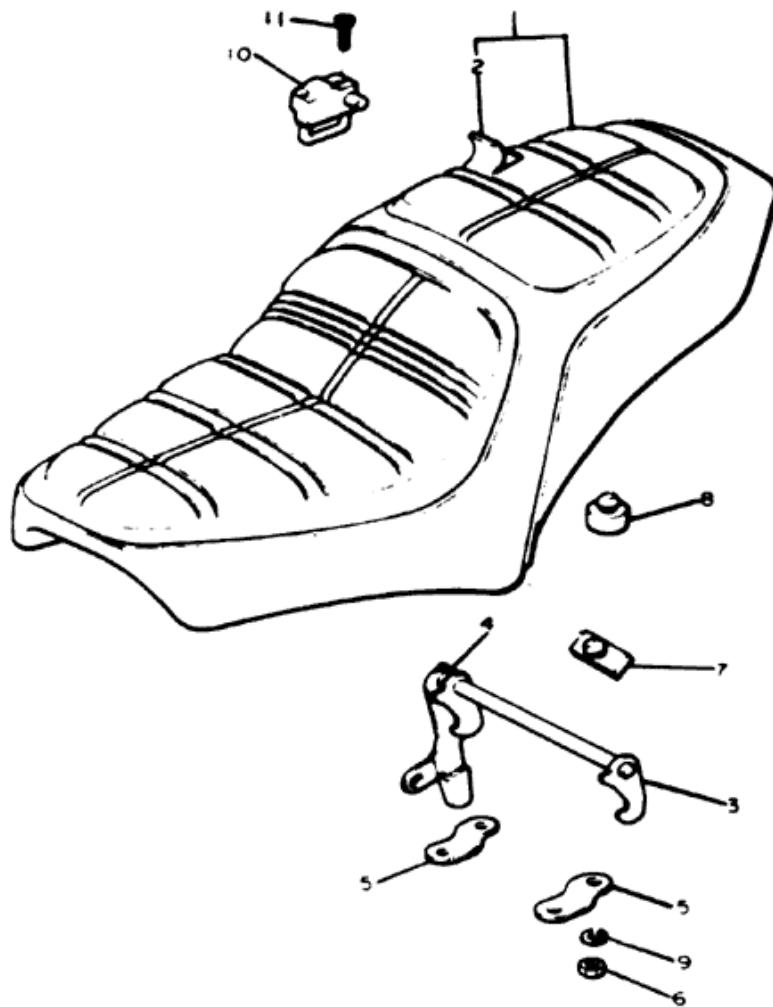
FUEL TANK



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	4H7-2452E-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.)

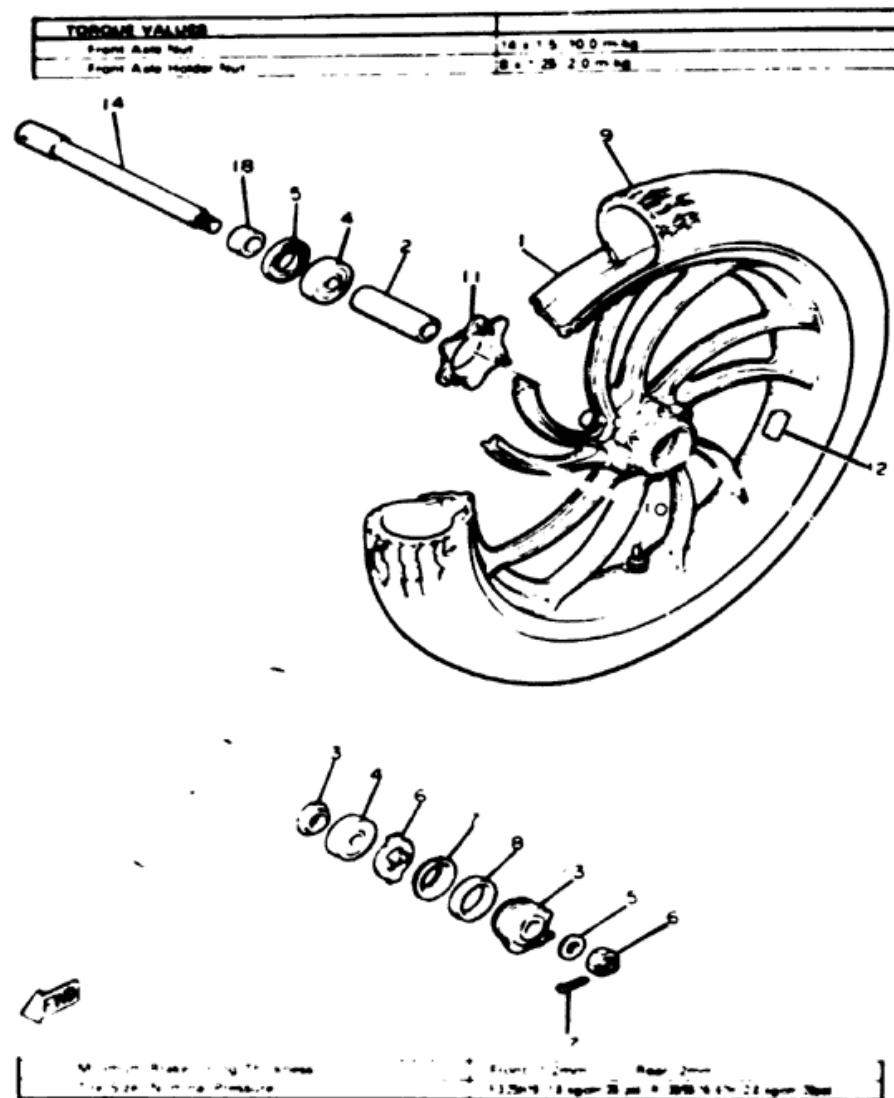
SEAT



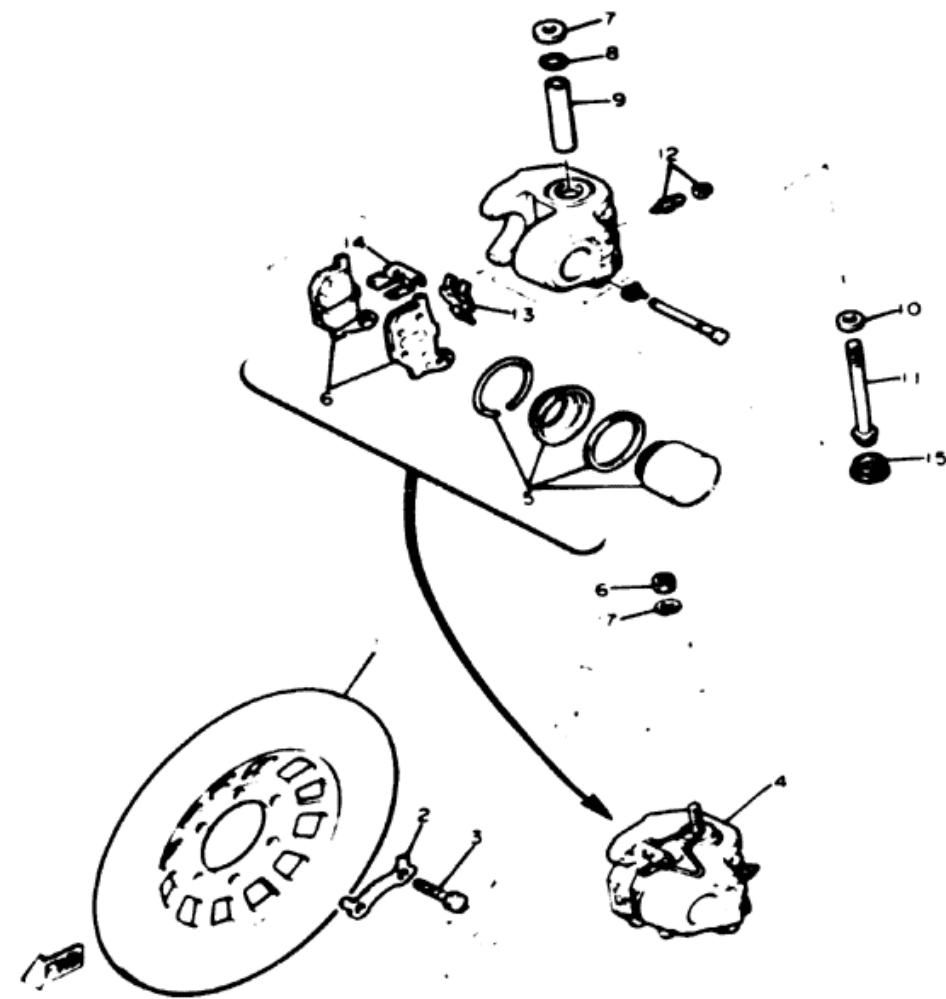
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-W2472-10-00	DOUBLE SEAT ASS'Y (4H7-W2472-00)	1	
2	4H7-24731-00-00	. COVER, double seat	1	
3	4H7-24776-00-00	LEVER, seat	1	
4	90508-20412-00	SPRING, torsion	1	
5	4H7-24775-00-00	BRACKET, seat lever	2	
6	95302-08600-00	NUT	4	
7	4H7-24723-00-00	DAMPER, 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	90560-15116-00	SPACER	1	
3	146-25115-00-00	FLANGE, spacer 1.....	1	
4	93306-30203-00	BEARING (B6302Z).....	2	
5	93102-22014-00	OIL SEAL	1	
6	341-25149-00-00	CLUTCH, meter.....	1	
7	341-25846-00-00	RETAINER, clutch.....	1	
8	93105-45017-00	OIL SEAL	1	
9	94132-193M3-00	TIRE (3.25-19)	1	
	94132-19469-00	TIRE (3.25-19) (94132-19457)	1	
10	93900-00001-00	VALVE, rim (10024 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	

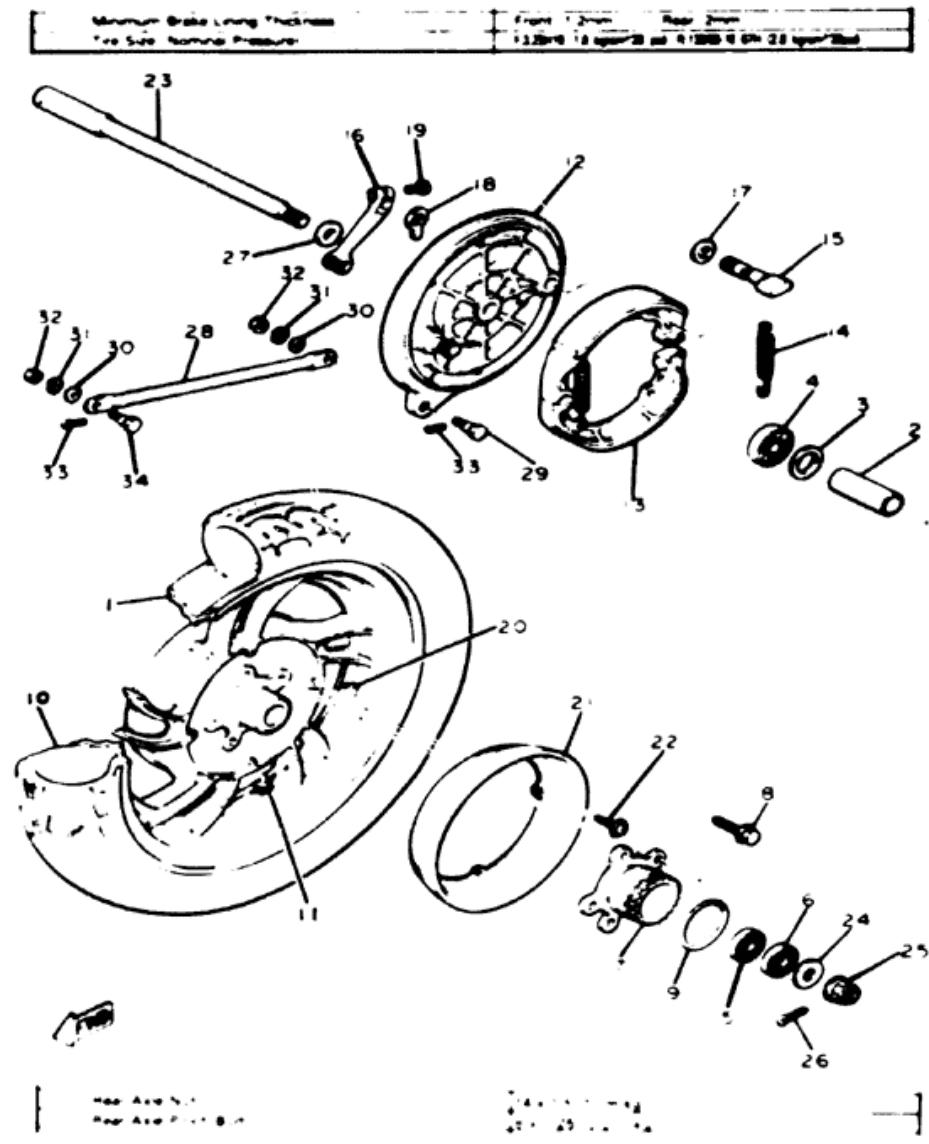


FRONT BRAKE CALIPER



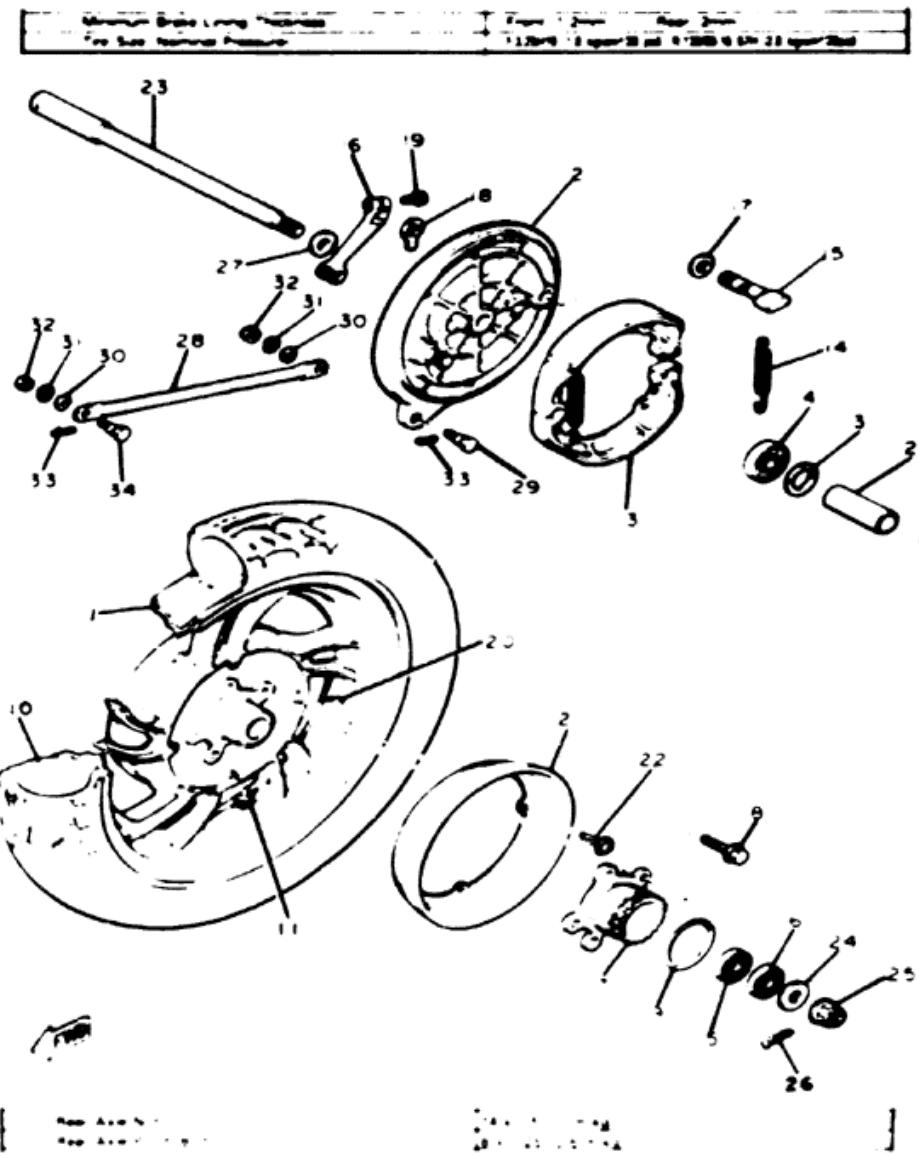
Ref. No.	Part Number	Description	Qty.	Remarks
1	1J3-25831-00-00	DISC, brake	1	
2	1J3-25834-01-00	WASHER, lock.....	3	
3	90101-06312-00	BOLT	6	
4	4H7-25810-11-00	CALIPER ASS'Y (Left) (4H7-25810-10).....	1	
5	2G2-W0047-00-00	CALIPER SEAT KIT.....	1	
6	4H7-W0045-10-00	BRAKE PAD KIT, front	1	
7	902J1-08689-00	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



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-25338-20-98	CAST WHEEL, rear (3.00-16)	1	Low Gloss Blk
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) (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	

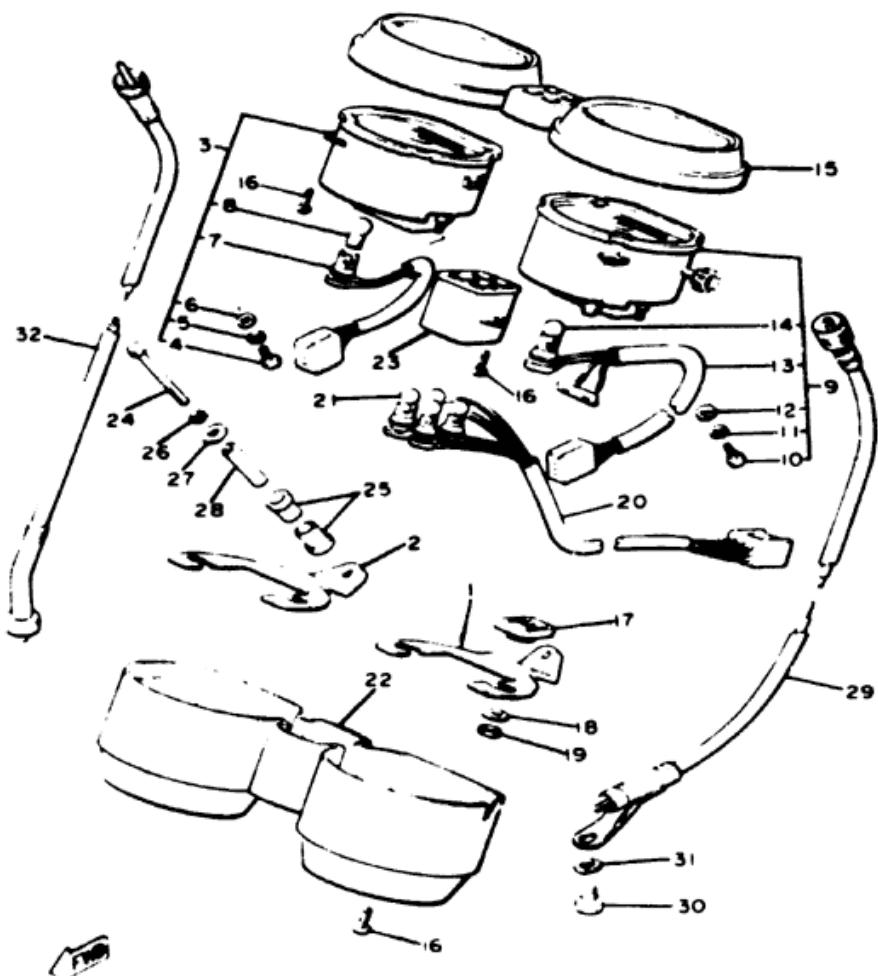
REAR WHEEL



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	90159-05018-00	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

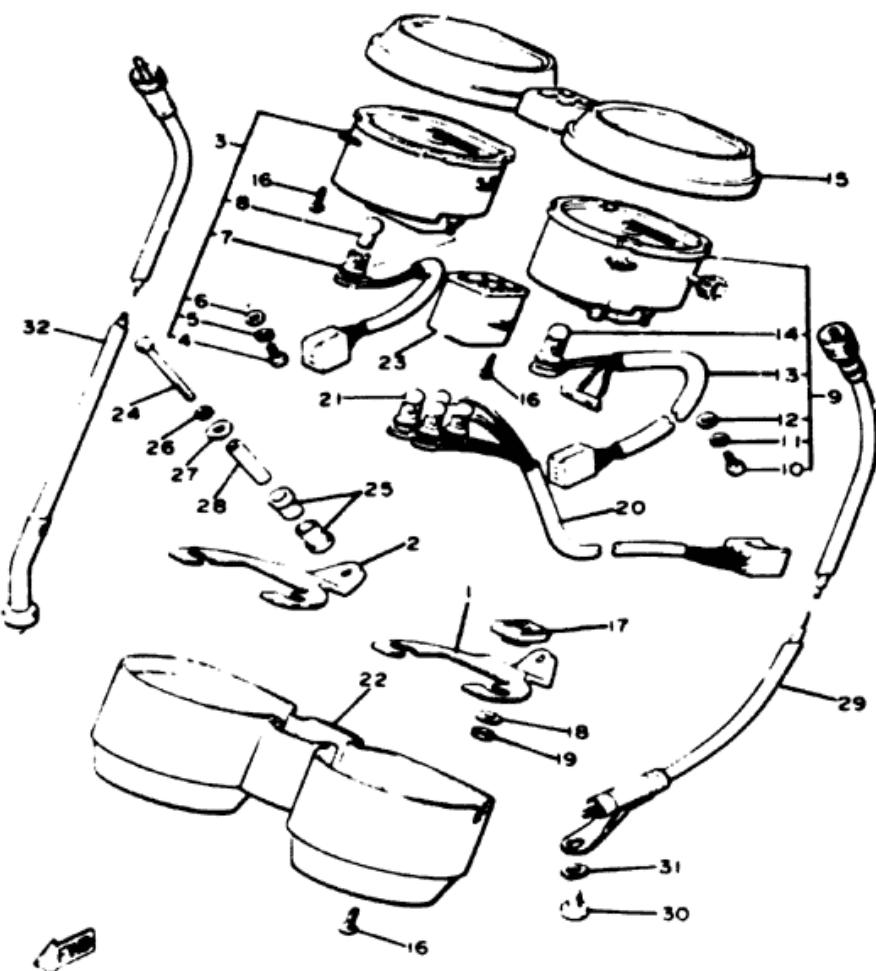
LIGHTING SYSTEM		12V30-40W	12V27.5W	12V27W
Headlight	Tailight	Signal Rating		



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

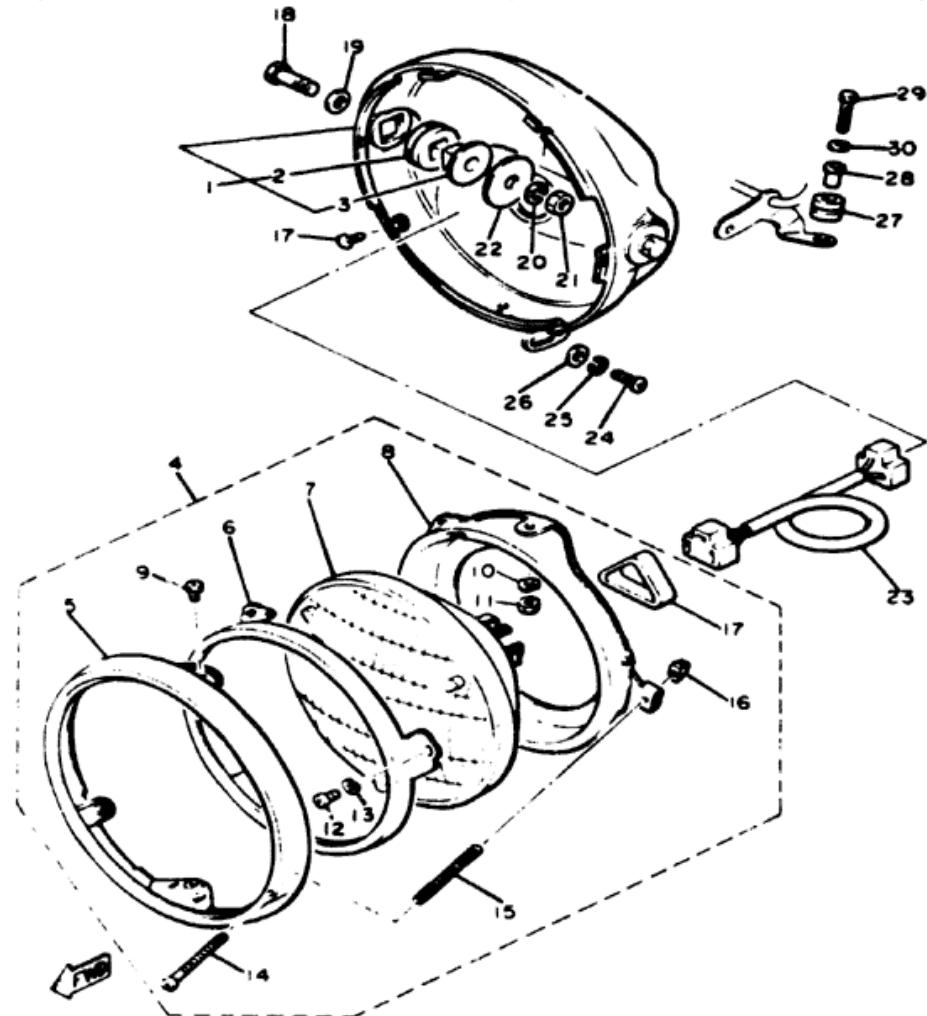
LIGHTING SYSTEM		Headlight	Turnlight	Signal Rating	12V10-40W	12V27.5W	12V27W
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Ref. No.	Part Number	Description	Qty.	Remarks
17	4H7-83523-00-00	DAMPER.....	4	
18	1E6-83524-00-00	WASHER, special	4	
19	95301-05600-00	NUT.....	4	
20	4H7-83509-00-00	SOCKET 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

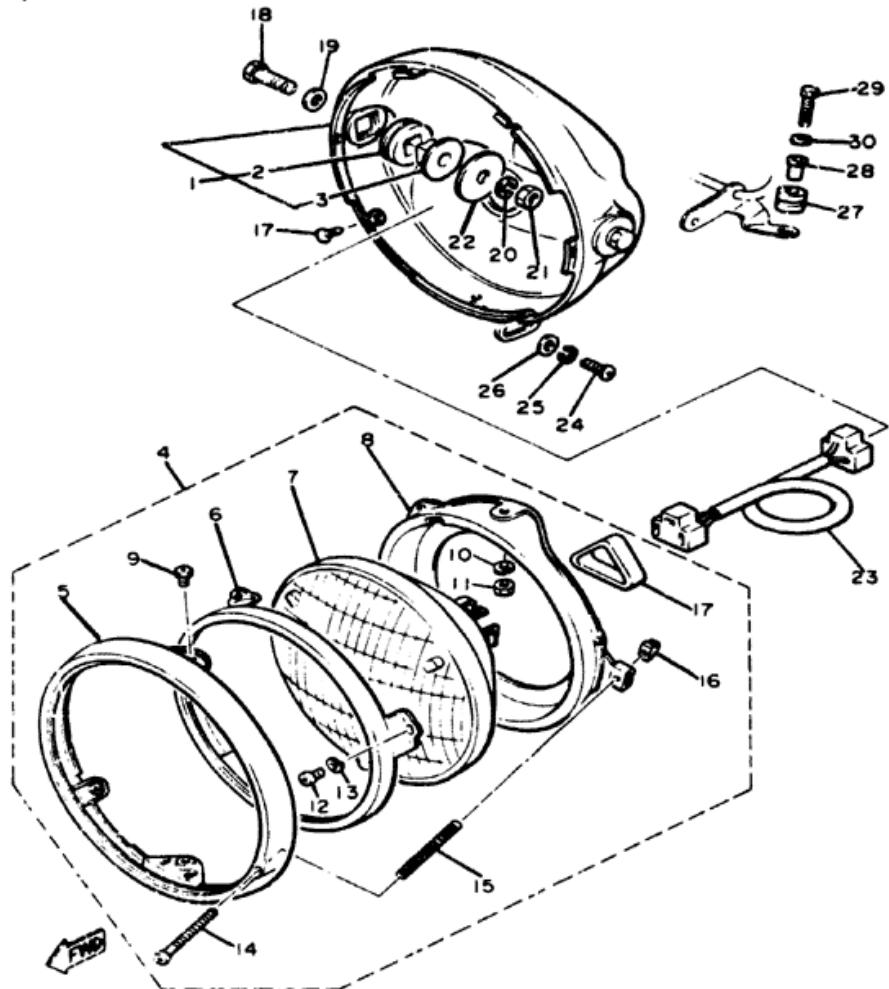
LIGHTING SYSTEM		
Headlight	Taillight	Signal Rating
		12V50-40W / 12V27.5W / 12V27W



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/50-40W / 12V/27-6W / 12V/27W

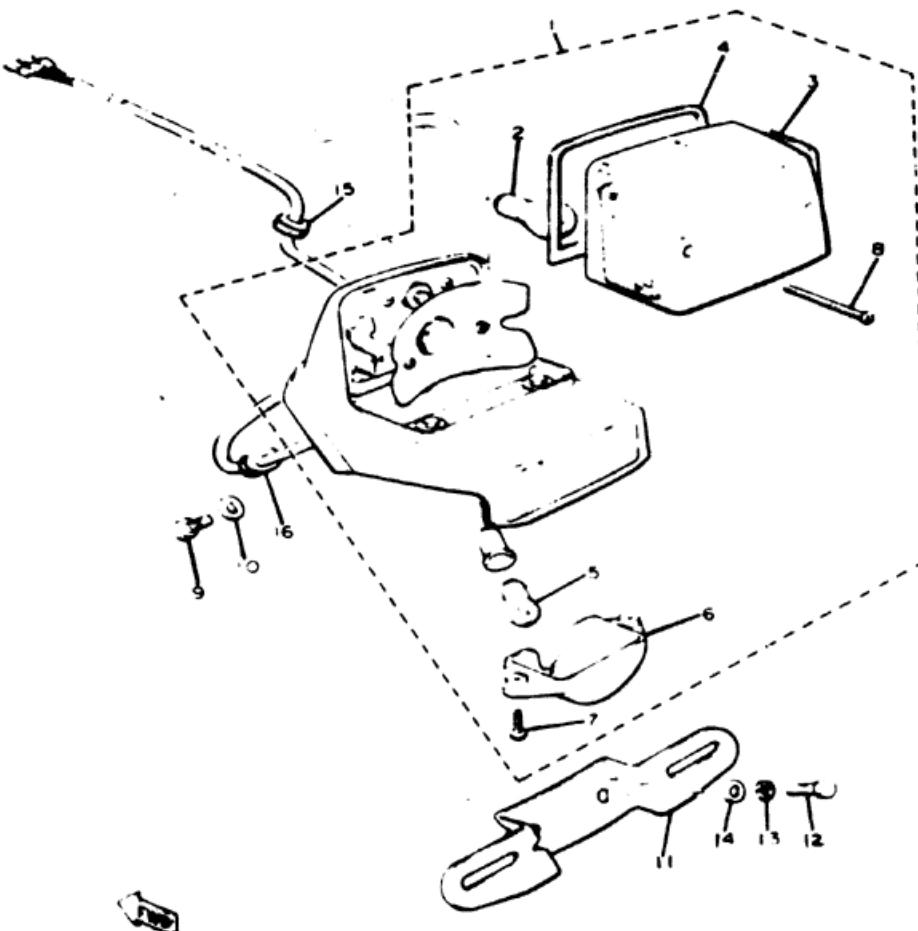


Ref. No.	Part Number	Description	Qty.	Remarks
16	198-84334-60-00	. NUT, adjusting	1	
17	341-84397-61-00	. COVER, socket.....	1	
18	97301-08030-00	BOLT	2	
19	92903-08200-00	WASHER, plain	2	
20	92903-08100-00	WASHER, spring (92901-08100)	2	
21	95301-08600-00	NUT.....	2	
22	90209-08098-00	WASHER	2	
23	2H7-84359-00-00	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	

TAILLIGHT

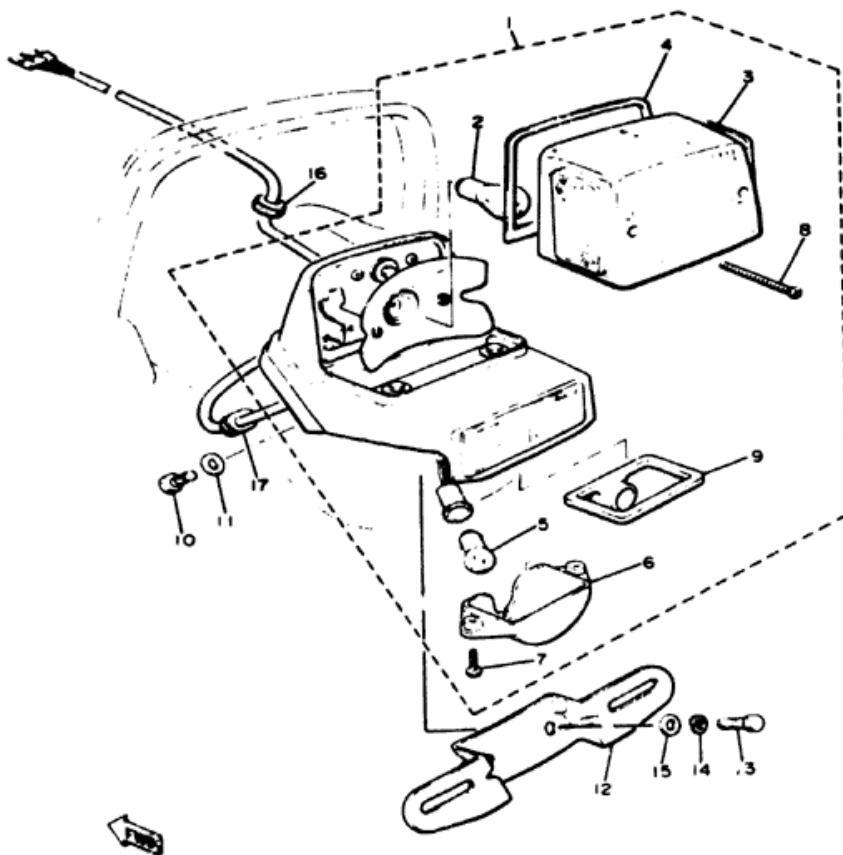
LIGHTING SYSTEM

Headlight, Taillight, Signal Lamp 12V18-40W 12V27/8W 12V27W



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	4H7-84721-80-00	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	97301-06016-00	BOLT.....	3	
10	92901-06600-00	WASHER, plate.....	3	
11	4H7-84751-01-93	BRACKET, license.....	1	Chrome Plated
12	97301-06016-00	BOLT.....	2	
13	92903-06100-00	WASHER, spring (92901-06100)	2	
14	92901-06600-00	WASHER, plate.....	2	
15	90480-16112-00	GROMMET.....	1	
16	90480-15061-00	GROMMET.....	1	

TAILLIGHT

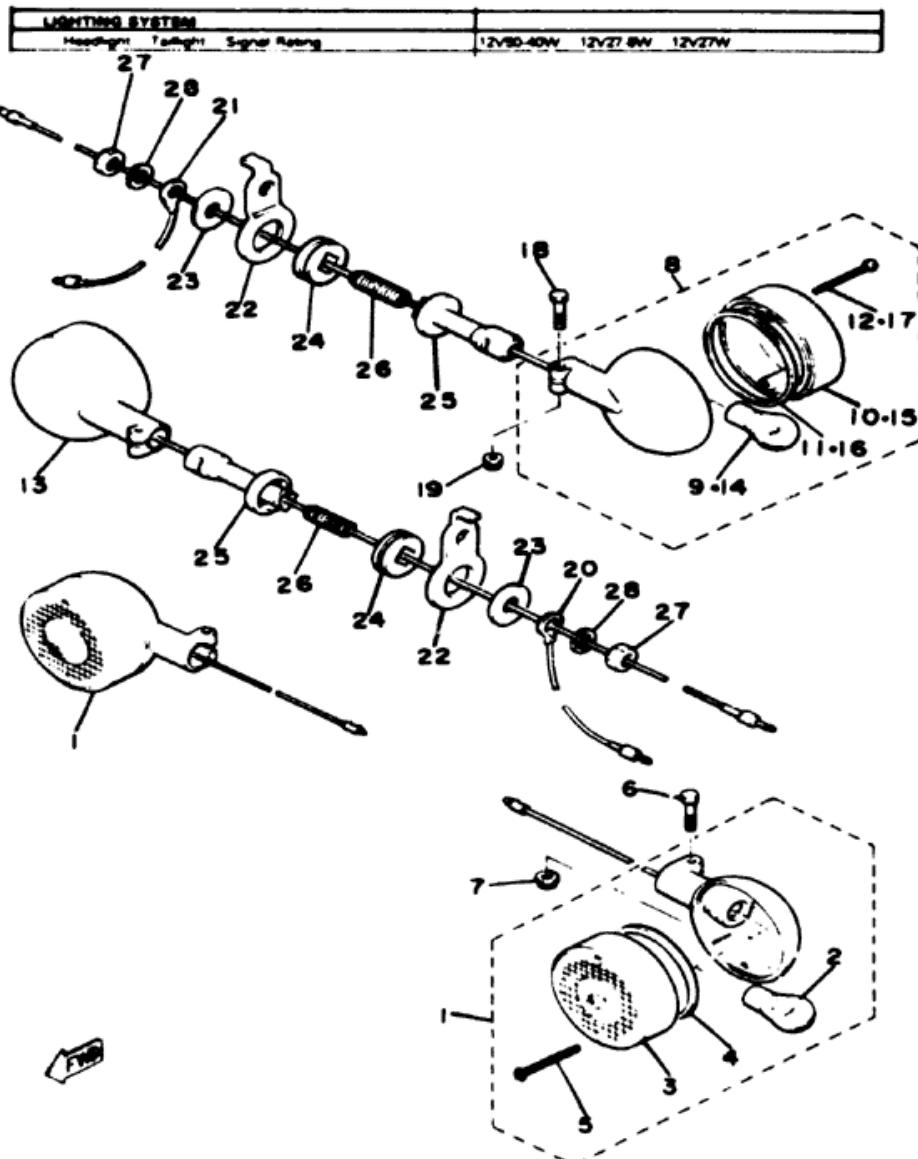


Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-84700-80-93	TAILLIGHT ASS'Y	1	Chrome Plated
2	256-84714-61-00	. BULB (12V-27/8W)	1	
3	4H7-84721-80-00	. LENS, taillight.....	1	
4	4H7-84723-00-00	. GASKET, tail lens.....	1	
5	4H7-84744-00-00	. BULB (12V-38W)	1	
6	4H7-84743-00-00	. LENS, license light.....	1	
7	98503-04014-00	. SCREW, pan head (98503-04015)	2	
8	802-84131-00-00	. SCREW, rim adjuster.....	2	
9	4H7-84753-80-00	. 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	

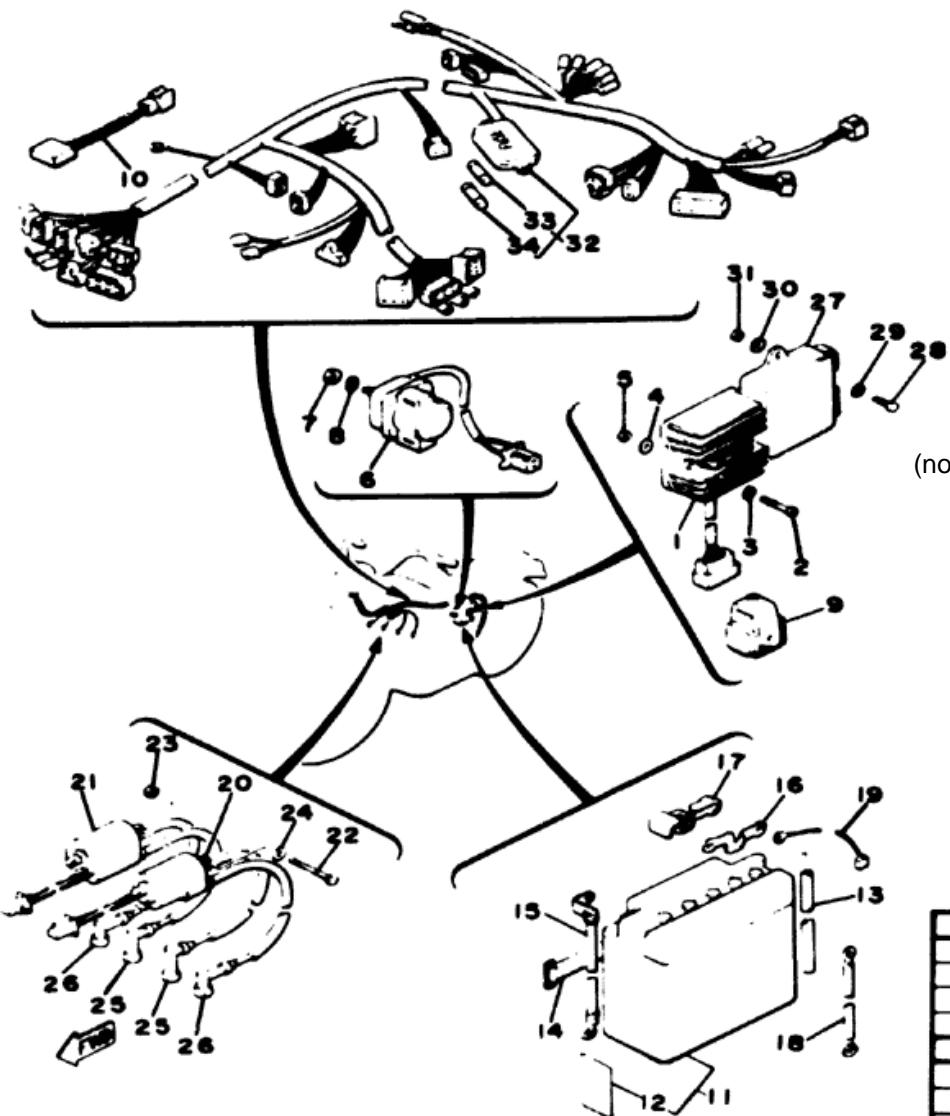
Headlight / Taillight / Signal Rating

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

FLASHER LIGHT



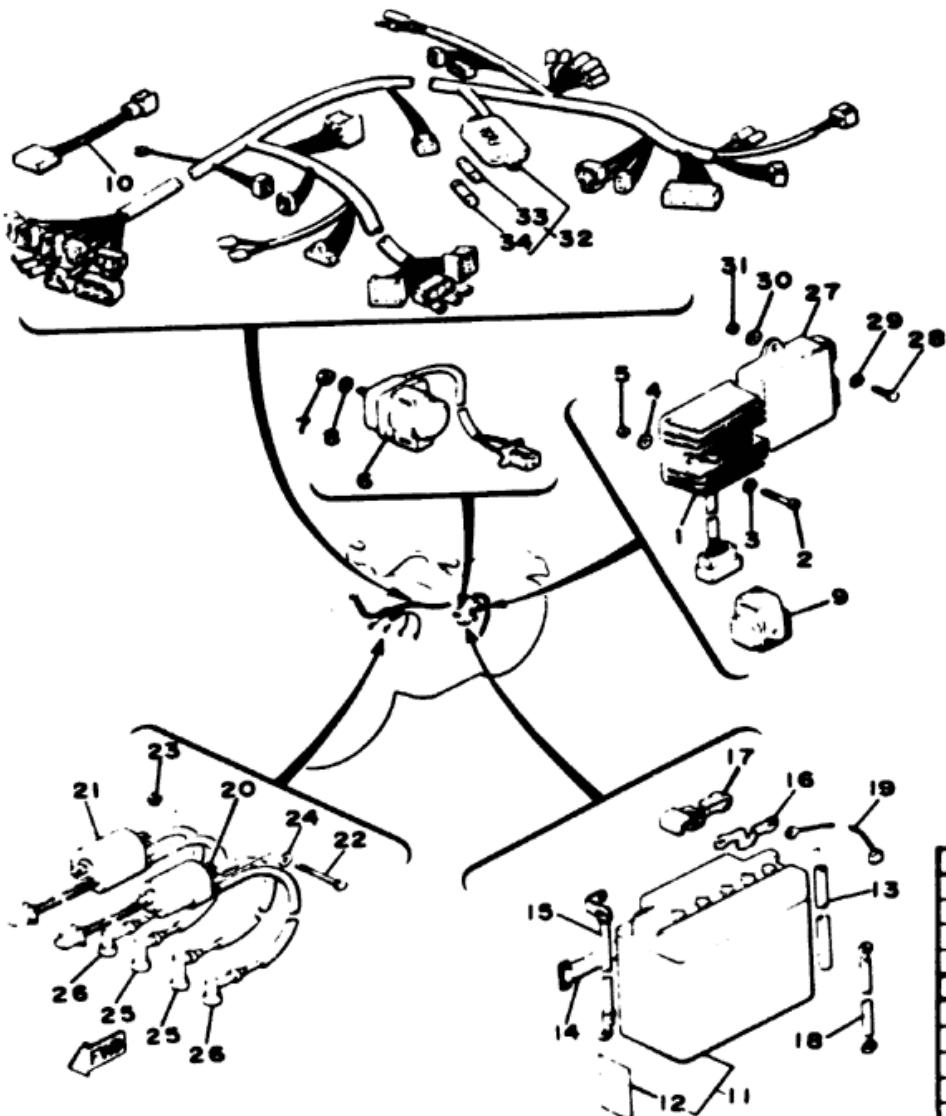
ELECTRICAL 1



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-81960-50-00	RECTIFIER & REGULATOR ASS'Y	1	
2	92501-06030-00	SCREW, pan head.....	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	4H7-81960-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		Rear GM ~ Brn 4.8 Ω ± 10% Starter Wht ~ Wh 8.48 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 m-m Cyl 164.5K Ω ± 3% Oil 263.1K Ω ± 3%
Ignition Coil Test Gap	Primary Ω	8mm 2.5 Ω ± 10%
Pulser Coil or Pickup Coil Color Code	Secondary Ω	11K Ω ± 20%
Org ~ Blk. Gry ~ Brn		700 Ω ± 20%
LIGHTING SYSTEM		
Headlight	Taillight	Signal Rating
		12V50-40W / 12V27.8W 12V27W

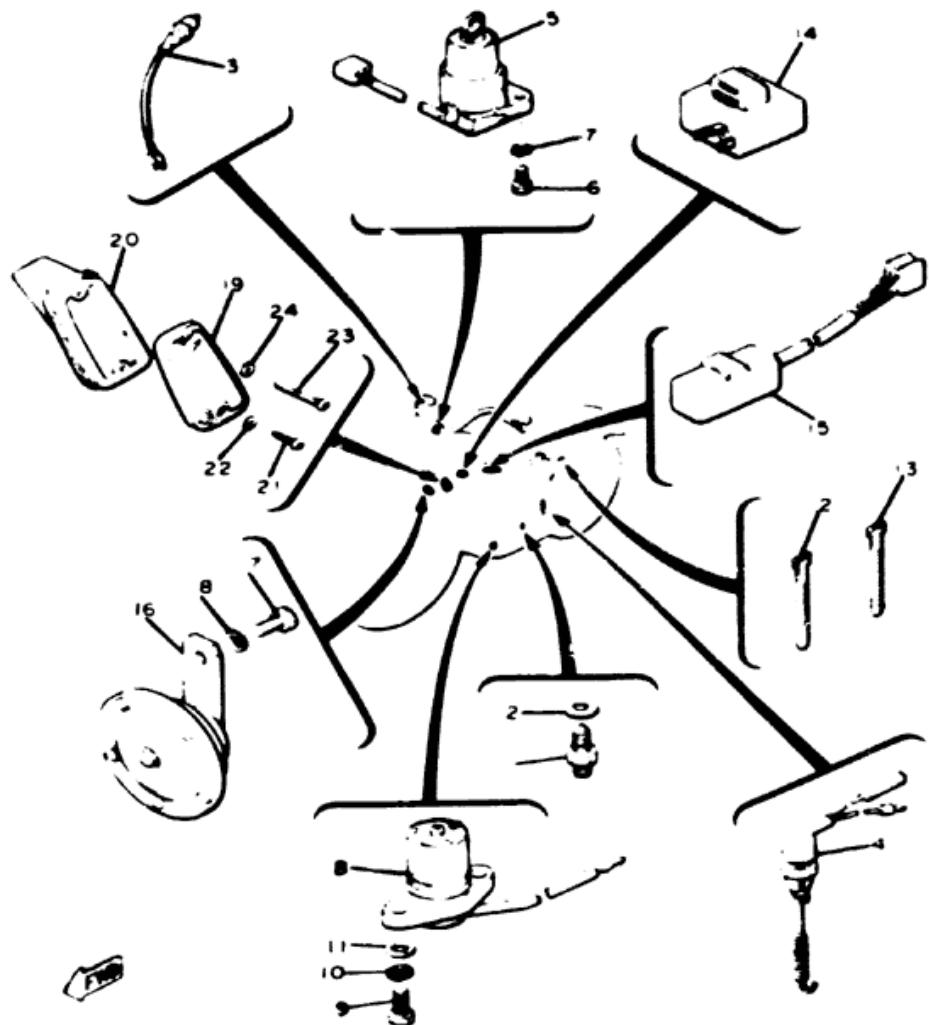
ELECTRICAL 1



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	97301-06000-00	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	Yuasa 12N12A 4A 1 (12V12AH) 1.2° / 1.2A
Maximum Output			14V19A @ 5000 rpm
TROUBLESHOOTING			
Field Coil Color Code : Ω			Rear:Gr ~ Brn 4.8 Ω + 10% Stator Wht ~ Blk 8.0 Ω + 10%
IGNITION SYSTEM			
Ignition Timing			Transistor Controlled Ignition
			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 mkg Cyl 1&4 5K Ω ± 5% Cyl 2&3 6K Ω ± 5%
Ignition Coil Test Gap : Primary Ω : Secondary Ω			6mmr 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 12V27.6W 12V27W

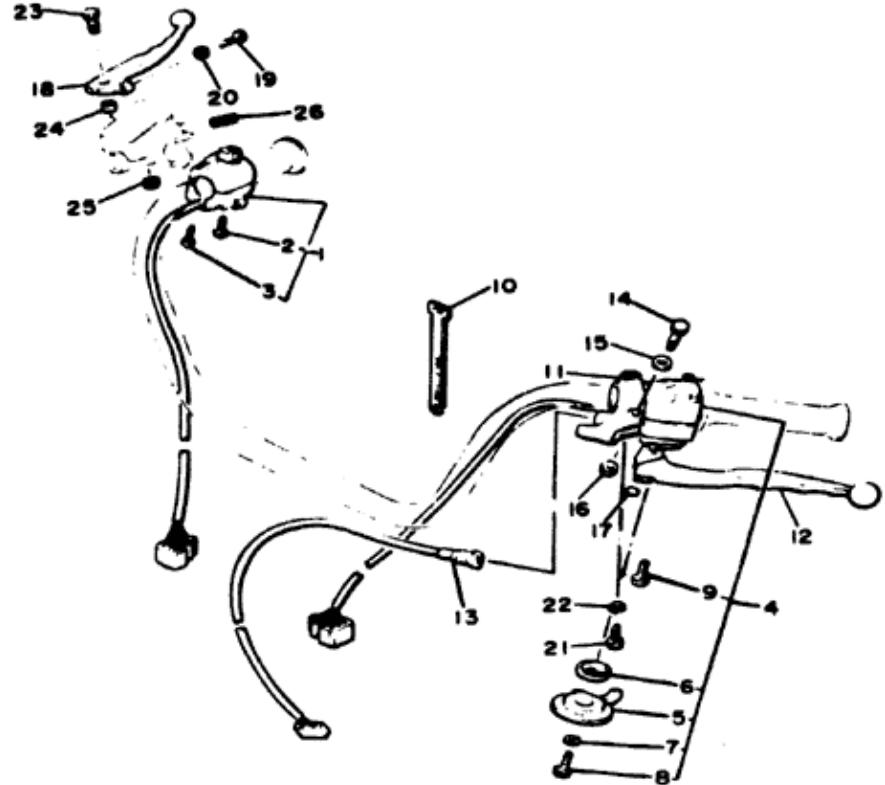
ELECTRICAL 2



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	4H7-82508-50-00	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	FLAGGER 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 Cig. Rate	V-Less 24-24A 4A 12V 12AH 1.20 ± 2A
Maximum Output	14V 15A @ 5000 rpm
TROUBLESHOOTING	
Fast Cut Out Code 9	Starts 60 ± 10 sec. Operates 60 ± 10 sec.
Charge Cut Out Code 9	0
IGNITION SYSTEM	Transistor Controlled ignition
Wiper Timing	10° Max
Spark Plug Type	Six 10° @ 1000 rpm Adv. 37.5 ± 2° @ 4750 rpm
Spark Plug Gap Torque Cap S	NGK BP7ES x Happen Denzel W22EP
Pure Cap Condenser Capacitance	0.148 micro Farad 34.5 ± 0.5% On 26.5 30.5 35.5
TROUBLESHOOTING	0 0
Ground Cut Out Gap Primary S Secondary S	0mm 25.0 ± 10% 114.0 ± 20%
Power Cut or Pickup Cut Out Code 9	0.0A 90 ± 10% 100 ± 20%
Starting Cut Out Code 9	0
LIGHTING SYSTEM	
Headlight Lamp Rating	12V 50-60W 12V 27W 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/cm²/28 psi) R:130/90 16 67H (2.0 kg/cm²/28psi)		
TRANSMISSION - Oil Type/Qty Chg/Cty 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) / 1.26 / 1.2A
Maximum Output	14V19A @ 5000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ø	Rotor:Brn ~ Brn / 4.0 Ω ± 10% Stator:Wht ~ Wht / 0.46 Ω ± 10%
Charge Coil Color Code / Ø	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 Ø	0.7~0.8mm / 2.0 m-kg / Cyl. 164 5K Ø 1.5% / Cyl. 263 10K Ø 1.5%
Point Gap / Condenser Capacitance	Ø / Ø
TROUBLESHOOTING	
Ignition Coil Test Gap / Primary Ø / Secondary Ø	6mm / 2.5 Ω ± 10% / 11K Ω ± 20%
Pulser Coil or Pickup Coil Color Code / Ø	Org ~ Blk, Gry ~ Brn / 700 Ω ± 20%
Source Coil Color Code / Ø	Ø
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V50-40W / 12V27-8W / 12V27W
TROUBLESHOOTING	
Lighting Coil Color Code / Ø	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.

SERVICE DATA

FILE MOTORCYCLE - 650 SECTION

DATE 10/3/80 BUL M80-049

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)	F3.25H19 (1.8 kg/cm ² /26 psi) R130/90-16 67H (2.0 kg/cm ² /28 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		

FILE MOTORCYCLE - 650 SECTION

DATE 10/3/80 BUL M80-049

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 / Ø	Rotor: Gm~Brn / 4.0 Ø ± 10% Stator: Wh~Wh / 0.48 Ø ± 10%
Charge Coil Color Code / Ø	Ø
IGNITION SYSTEM	Transistor-Controlled Ignition
Ignition Timing	10° Mark
Spark Plug Type	Std: 10° @ 1050 rpm Adv: 37.5 ± 2° @ 4100 rpm
Spark Plug Gap / Torque / Cap Ø	NGK BP7ES or Nippon Denso W22EP
Point Gap / Condenser Capacitance	0.7~0.8mm / 2.0 m-kg / Cyl. 1&4 5K Ø ± 1% / Cyl. 2&3 10K Ø ± 1%
TROUBLESHOOTING	Ø / Ø
Ignition Coil Test Gap / Primary Ø / Secondary Ø	6mm / 2.5 Ø ± 10% / 11K Ø ± 20%
Pulser Coil or Pickup Coil Color Code / Ø	Org ~ Blk, Gry ~ Brn / 650 Ø ± 20%
Source Coil Color Code / Ø	Ø
LIGHTING SYSTEM	
Headlight / Taillight / Signal Rating	12V50-40W / 12V27-8W / 12V27W
TROUBLESHOOTING	
Lighting Coil Color Code / Ø	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

*Available From Yamaha Parts Distributors Inc.

*For Diagnostic Use Only