



YAMAHA

PARTS CATALOGUE

XJ650LH (4W5)

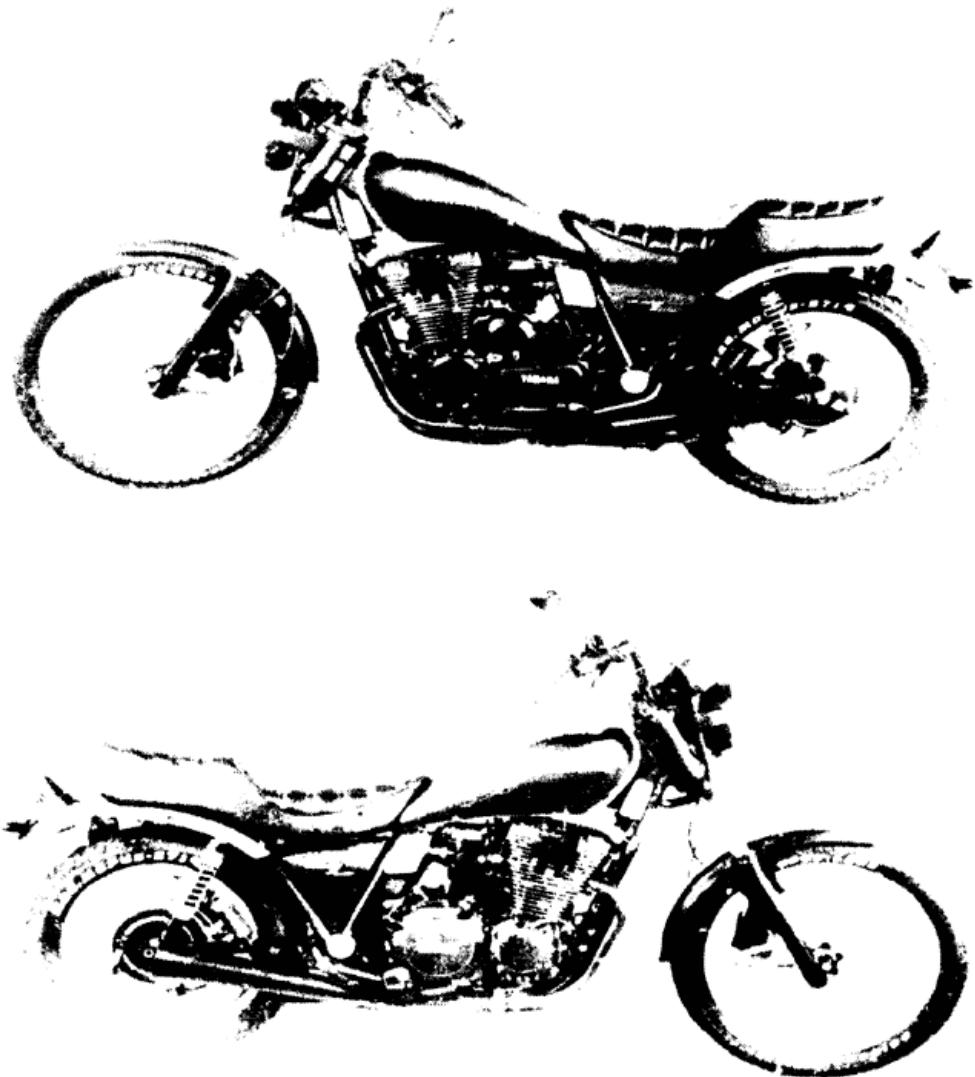
MODEL YEAR 1981

Initial Serial No. and Color Code

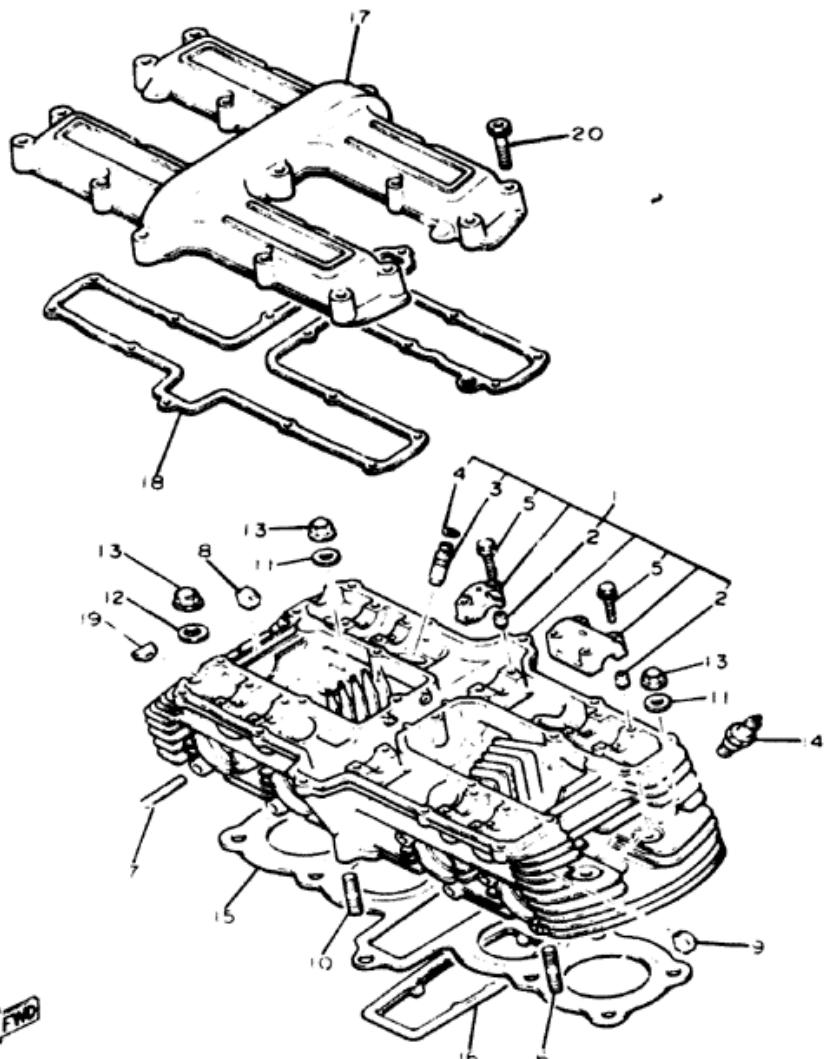
| | |
|-----------------------|--------------------------|
| (A) Frame Serial No. | 4W5 000001 and following |
| (B) Engine Serial No. | 4W5-000001 and following |

| MODEL - IBM I.D. NUMBER | XJ650LH | 4W5 |
|---|--|-----|
| Initial Engine Number / Frame Number | 4W5-000001 / 4W5-000001 | |
| Basic Color(s) | New Yamaha Black | |
| 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 / 663cc | |
| Compression Ratio/Compression Pressure Min~Max | 9.2:1 / 7.0 ~ 10.0 kg/cm ² | |

| PUBLICATION | PART NUMBER | REMARKS |
|---------------------------------------|-----------------|----------------|
| OWNER'S MANUAL | LIT-11626-02-33 | |
| SERVICE MANUAL | LIT-11616-01-94 | |
| ASSEMBLY MANUAL | LIT-11666-01-94 | SAME AS XJ650G |
| CONSUMER INFORM. | LIT | SAME AS XJ650G |
| LEAFLET | LIT | |
| DEALER ASS'Y & PRE-DELIVERY CHECKLIST | LIT 12588-00-78 | |



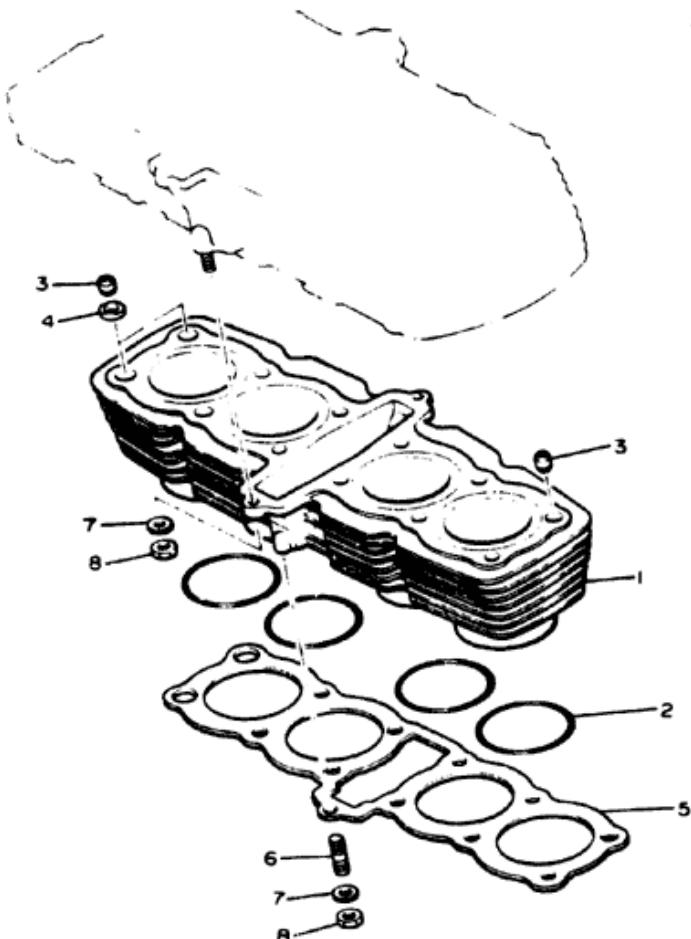
CYLINDER HEAD



| Ref. No. | Part Number | Description | Qty. | Remarks |
|--|-----------------|---------------------------------|------|--------------|
| 1 | 4W5-11101-00-00 | CYLINDER HEAD ASS'Y | 1 | |
| 2 | 91810-13016-00 | 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 | 4H7-11363-00-00 | BOLT, stud | 1 | |
| 11 | 4H7-11364-00-00 | WASHER, plate..... | 10 | |
| 12 | 90201-10128-00 | WASHER, plate..... | 2 | |
| 13 | 4H1-11171-00-00 | NUT, holding | 12 | |
| 14 | NGK-BP7ES-00-00 | PLUG, spark (94701-00117) | 4 | |
| 15 | 4H7-11181-02-00 | GASKET, cylinder head 1 | 1 | |
| 16 | 4H7-11355-00-00 | SEAL, cylinder 1 | 1 | |
| 17 | 4W5-11191-00-00 | COVER, cylinder head 1 | 1 | |
| 18 | 4H7-11193-00-00 | GASKET, head cover 1 | 1 | |
| 19 | 1J7-11138-00-00 | PLUG..... | 2 | |
| 20 | 91316-06035-00 | BOLT..... | 20 | |
| 4H7-W0001-00-XX TOP END GASKET KIT | | | | SEE CRID G-1 |

| | |
|---------------------------------|--|
| Spark Plug Type | NGK BP7ES or Nippon Denso W22EP |
| Spark Plug Gap / Torque / Cap Ω | 0.7~0.8mm/2.8 m-kg/Dyl. 164 SK Ω : 11% / Dyl. 263 NK Ω : 11% |
| Cylinder Head Cover | 6 x 1.0' 1.0 m-kg |
| Cylinder Head | 10 x 1.25' 3.2 m-kg |

CYLINDER

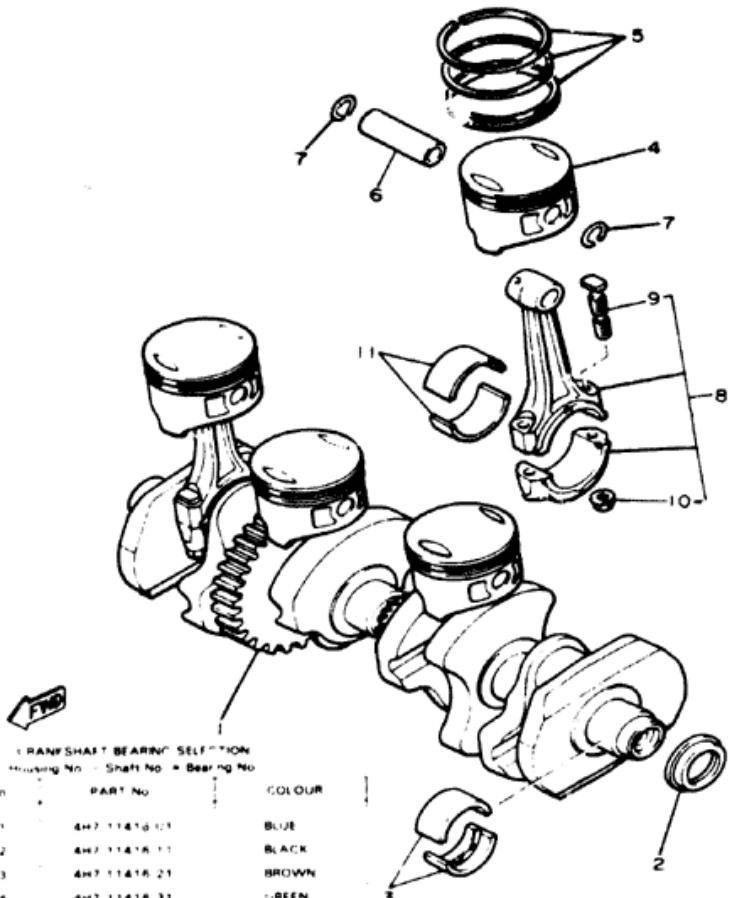


| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|------------------------|------|---------|
| 1 | 4W5-11310-00-00 | CYLINDER | 1 | |
| 2 | 93210-69434-00 | O-RING..... | 4 | |
| 3 | 91830-24016-00 | PIN, dowel | 4 | |
| 4 | 90430-14131-00 | GASKET | 2 | |
| 5 | 4H7-113E1-00-00 | GASKET, cylinder | 1 | |
| 6 | 95621-08330-00 | BOLT, stud | 1 | |
| 7 | 90201-08382-00 | WASHER, plate | 3 | |
| 8 | 95316-08600-00 | NUT..... | | |

FWD

| | |
|--|---------------------------------------|
| ENGINE TYPE | 4-Stroke, Air-Cooled, Parallel Four |
| Bore / Stroke / Number Cylinders / Displacement (cc) | 63mm / 52.4mm / 4 / 563cc |
| Compression Ratio / Compression Pressure Min ~ Max | 9.2:1 / 7.0 ~ 10.0 kg/cm ² |

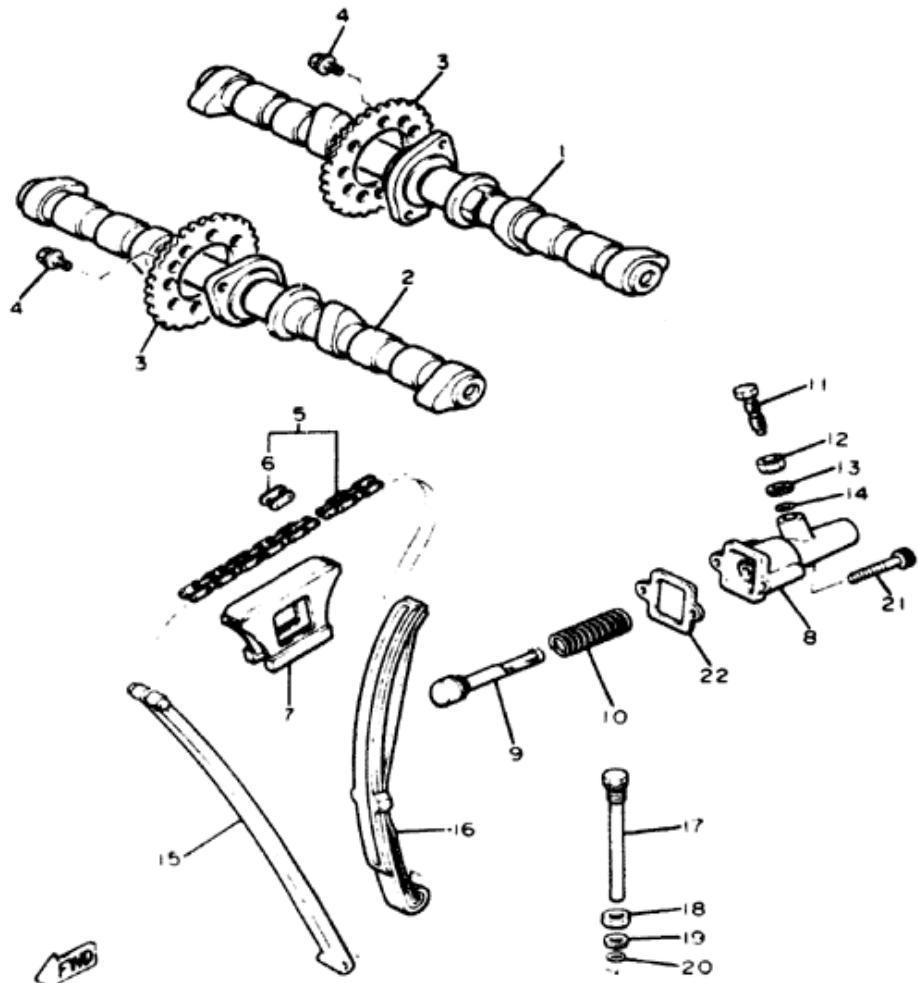
CRANKSHAFT - PISTON



| Ref. No. | Part Number | Description | Qty. | Remarks |
|----------|-----------------|-------------------------------|------|----------------|
| 1 | 4H7-11411-10-00 | CRANKSHAFT..... | 1 | |
| 2 | 93101-32088-00 | OIL SEAL | 1 | |
| 3 | 4H7-11416-01-00 | PLANE BEARING, crankshaft 1 | 10 | U.R. |
| | 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 | 4H7-11631-00-00 | PISTON (STD) | 4 | |
| | 4H7-11635-00-00 | PISTON (1st O/S 0.25mm)..... | 4 | Alternate Part |
| | 4H7-11636-00-00 | PISTON (2nd O/S 0.50mm)..... | 4 | Alternate Part |
| | 4H7-11637-00-00 | PISTON (3rd O/S 0.75mm)..... | 4 | Alternate Part |
| | 4H7-11638-00-00 | PISTON (4th O/S 1.00mm)..... | 4 | Alternate Part |
| 5 | 4H7-11610-00-00 | FISTON 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 |
| 6 | 4H7-11633-00-00 | PIN, piston | 4 | |
| 7 | 93450-17044-00 | CIRCLIP | 8 | |
| 8 | 4H7-Y1165-00-00 | CONNECTING ROD ASS'Y | 4 | |
| 9 | 4H7-11654-00-00 | . BOLT, connecting rod | 2 | |
| 10 | 90179-07307-00 | . NUT | 2 | |
| 11 | 4H7-11656-01-00 | PLANF 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. |

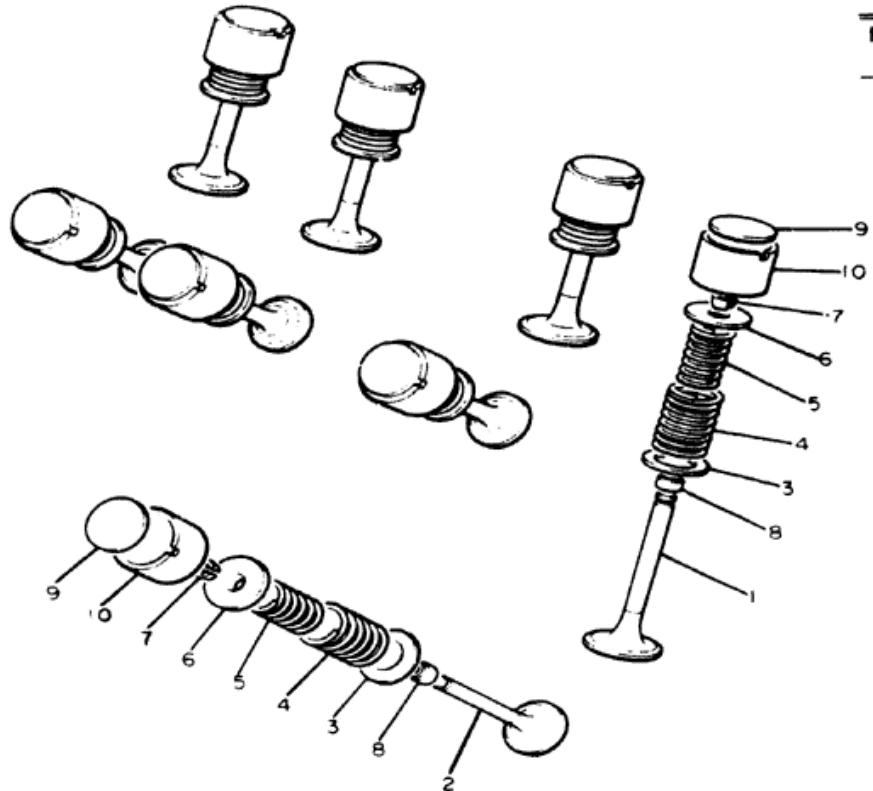
| | |
|----------------------------------|---|
| Piston Skirt Clearance New / Max | 0.030 ~ 0.080mm / 0.1mm |
| Ring End Gap Top / 2nd / 3rd | 0.15 ~ 0.35mm / 0.15 ~ 0.35mm / 0.3 ~ 0.9mm |

CAMSHAFT - CHAIN



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|------------------------------|------|
| 1 | 4H7-12171-00-00 | CAMSHAFT 1 | 1 |
| 2 | 4H7-12181-00-00 | CAMSHAFT 2 | 1 |
| 3 | 4H7-12176-01-00 | SPOCKET, 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 | 4K0-12212-00-00 | CASE, chain tensioner | 1 |
| 9 | 4H7-12217-01-00 | ROD, chain tensioner | 1 |
| 10 | 90501-16417-00 | SPRING, compression | 1 |
| 11 | 4H1-12228-00-00 | BOLT | 1 |
| 12 | 95306-08700-00 | NUT | 1 |
| 13 | 92906-06600-00 | 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 | 4W5-12228-00-00 | BOLT | 1 |
| 18 | 95306-10700-00 | NUT | 1 |
| 19 | 92901-08600-00 | WASHER, plate | 1 |
| 20 | 93210-08006-00 | O-RING | 1 |
| 21 | 91316-06040-00 | BOLT | 2 |
| 22 | 4H7-12213-00-00 | GASKET, tensioner case | 1 |

VALVE



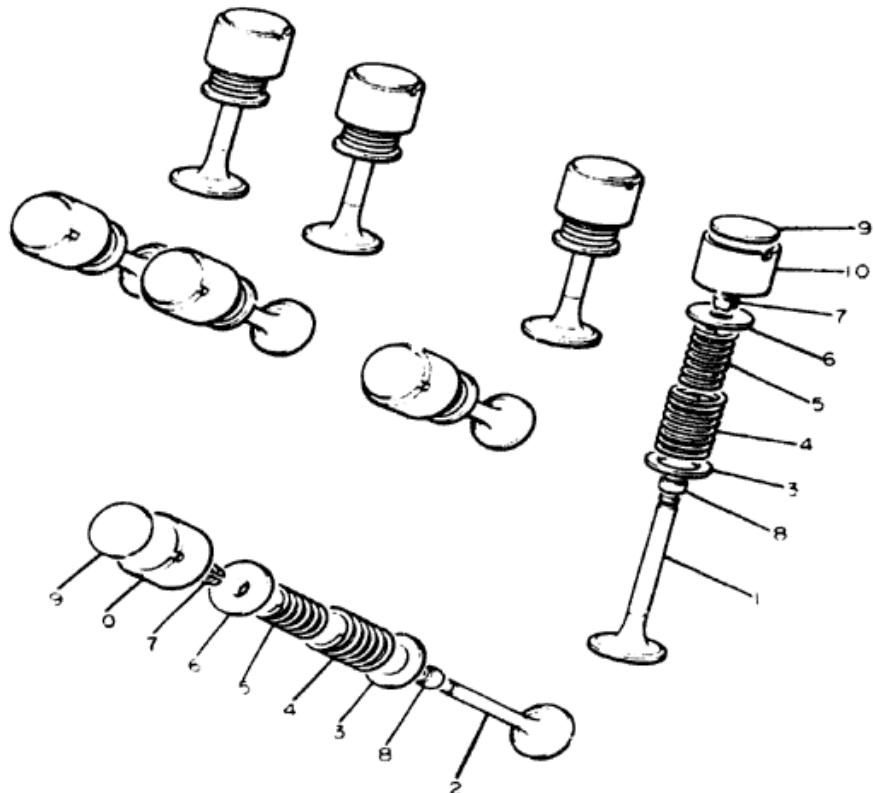
| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|-----------------------------|------|---------|
| 1 | 4H7-12111-00-00 | VALVE, intake | 4 | |
| 2 | 4H7-12121-00-00 | VALVE, exhaust..... | 4 | |
| 3 | 4H7-12116-00-00 | SEAT, valve spring..... | 8 | |
| 4 | 4H7-12114-00-00 | SPRING, valve outer..... | 8 | |
| 5 | 4H7-12113-00-00 | SPRING, valve inner..... | 8 | |
| 6 | 2F3-12117-00-00 | RETAINER, valve spring..... | 8 | |
| 7 | 1J7-12118-00-00 | COTTER, valve..... | 16 | |
| 8 | 1J7-12119-01-00 | SEAL, valve stem..... | 8 | |
| 9 | 1J7-12169-01-00 | PAD, adjusting (2.00) | 8 | U.R. |
| | 1J7-12169-11-00 | PAD, adjusting (2.05) | 8 | U.R. |
| | 1J7-12169-21-00 | PAD, adjusting (2.10) | 8 | U.R. |
| | 1J7-12169-31-00 | PAD, adjusting (2.15) | 8 | U.R. |
| | 1J7-12169-41-00 | PAD, adjusting (2.20) | 8 | U.R. |
| | 1J7-12169-51-00 | PAD, adjusting (2.25) | 8 | U.R. |
| | 1J7-12169-61-00 | PAD, adjusting (2.30) | 8 | U.R. |
| | 1J7-12169-71-00 | PAD, adjusting (2.35) | 8 | U.R. |
| | 1J7-12169-81-00 | PAD, adjusting (2.40) | 8 | U.R. |
| | 1J7-12169-91-00 | PAD, adjusting (2.45) | 8 | U.R. |

FWD

Valve Clearance (Cold) Intake / Exhaust

0.11mm ~ 0.15mm / 0.16mm ~ 0.20mm

VALVE

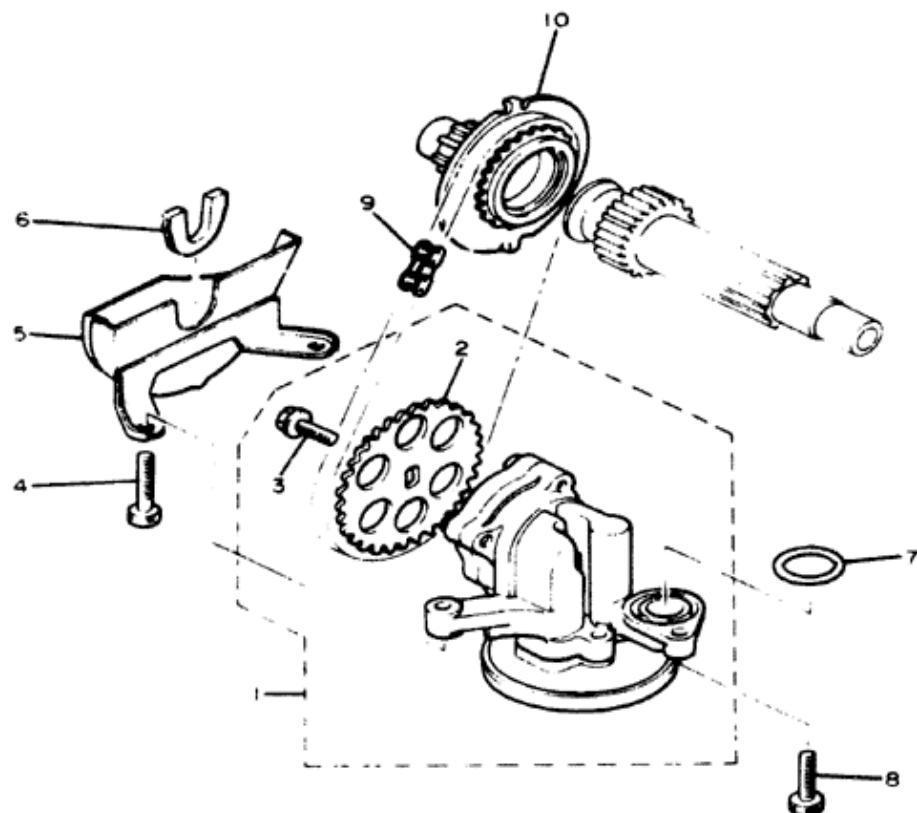


| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|-----------------------------|------|---------|
| | 1J7-12169-A1-00 | PAD, adjusting (2.50) | 8 | U.R. |
| | 1J7-12169-E1-00 | PAD, adjusting (2.55) | 8 | U.R. |
| | 1J7-12169-F1-00 | PAD, adjusting (2.60) | 8 | U.R. |
| | 1J7-12169-G1-00 | PAD, adjusting (2.65) | 8 | U.R. |
| | 1J7-12169-H1-00 | PAD, adjusting (2.70) | 8 | U.R. |
| | 1J7-12169-J1-00 | PAD, adjusting (2.75) | 8 | U.R. |
| | 1J7-12169-K1-00 | PAD, adjusting (2.80) | 8 | U.R. |
| | 1J7-12169-L1-00 | PAD, adjusting (2.85) | 8 | U.R. |
| | 1J7-12169-M1-00 | PAD, adjusting (2.90) | 8 | U.R. |
| | 1J7-12169-N1-00 | PAD, adjusting (2.95) | 8 | U.R. |
| | 1J7-12169-R1-00 | PAD, adjusting (3.00) | 8 | U.P. |
| | 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

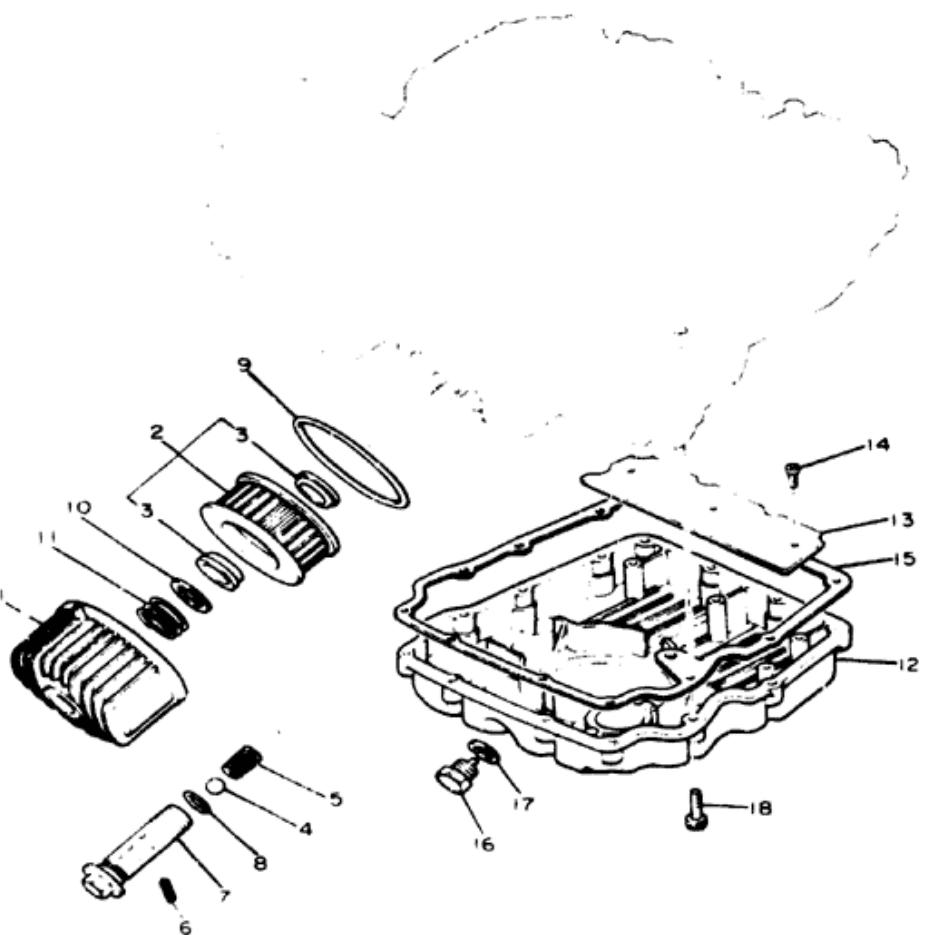
0.11mm ~ 0.15mm / 0.16mm ~ 0.20mm

OIL PUMP



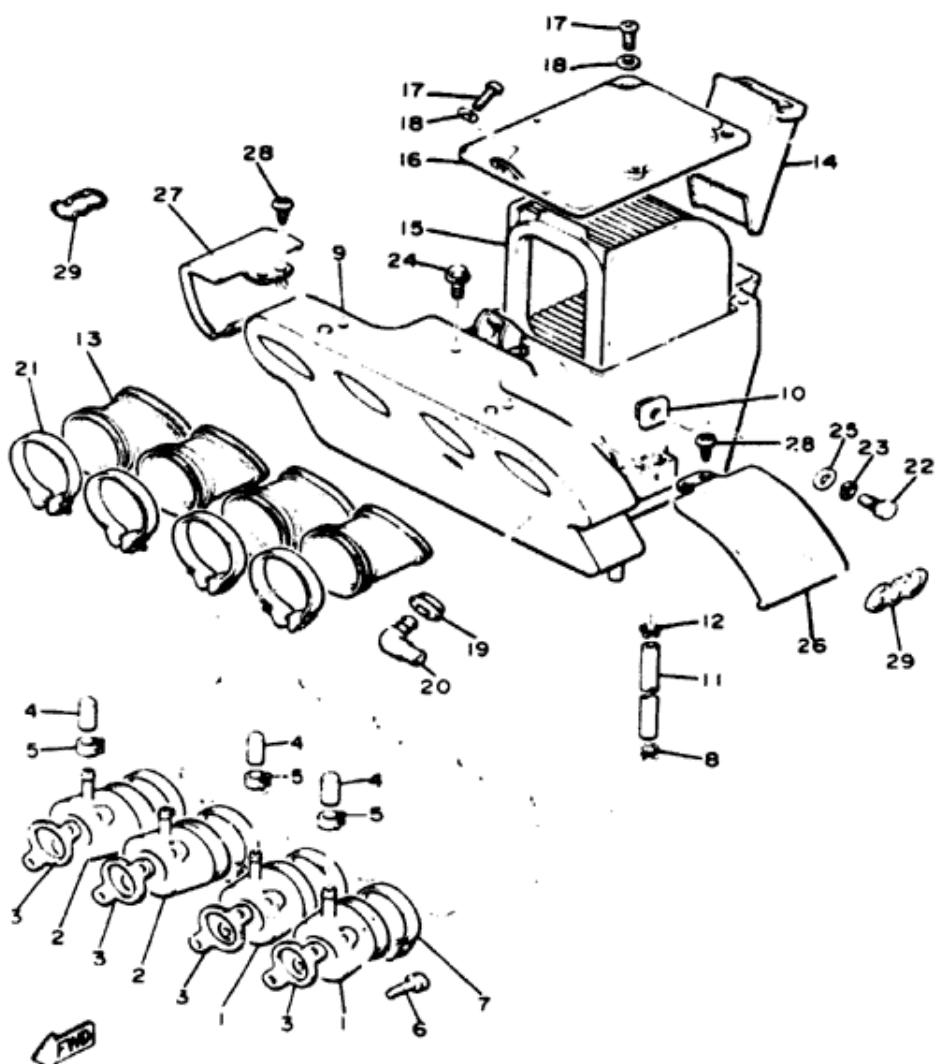
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|--------------------------------|------|
| 1 | 5G2-13300-00-00 | OIL PUMP ASS'Y (4H7-13300-00) | 1 |
| 2 | 4H7-13355-00-00 | SPROCKET, driven (38T) | 1 |
| 3 | 90105-06154-00 | BOLT, washer based | 1 |
| 4 | 90110-06035-00 | 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 | 91316-06025-00 | BOLT | 1 |
| 9 | 94580-25066-00 | CHAIN | 1 |
| 10 | 4H7-13354-00-00 | SPROCKET, drive (25T) | 1 |

OIL CLEANER



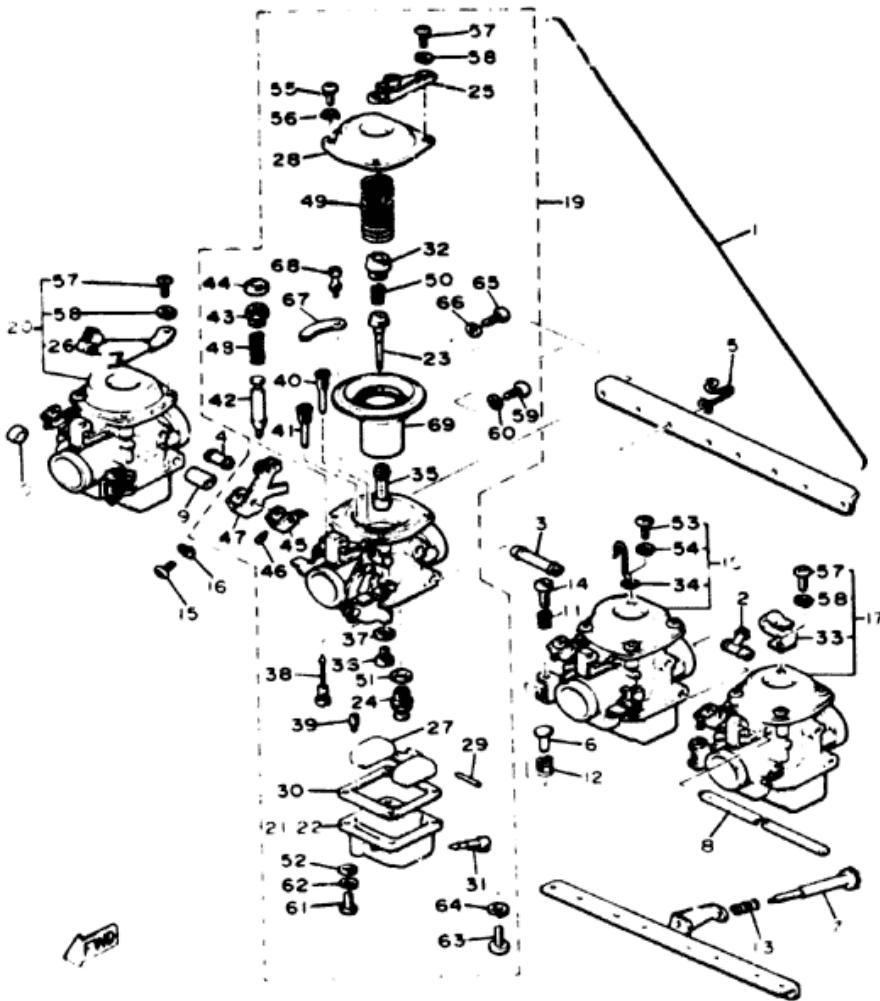
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|---|------|
| 1 | 4K0-13447-00-00 | COVER, oil element..... | 1 |
| 2 | 1L9-13440-91-00 | ELEMENT ASS'Y, oil cleaner.... | 1 |
| 3 | 90480-23193-00 | . GROMMET..... | 2 |
| 4 | 93501-02018-00 | BALL..... | 1 |
| 5 | 90501-12413-00 | SPRING, compression | 1 |
| 6 | 91609-20018-00 | PIN, spring..... | 1 |
| 7 | 90401-20064-00 | 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, panhead (92501-06010) | 3 |
| 15 | 4H7-13414-01-00 | GASKET, strainer cover (4H7-13414-00)..... | 1 |
| 16 | 90340-14042-00 | PLUG, straight screw | 1 |
| 17 | 214-11198-01-00 | GASKET | 1 |
| 18 | 91316-06030-00 | BOLT..... | 13 |

INTAKE



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-----------------------------------|------|
| 1 | 4H7-13586-02-00 | JOINT, carburetor 1 | 2 |
| 2 | 4H7-13596-01-00 | JOINT, carburetor 2 | 2 |
| 3 | 4H7-13556-01-00 | GASKET, manifold..... | 4 |
| 4 | 1J7-13569-00-00 | PLUG, blind | 3 |
| 5 | 4W5-13577-00-00 | CLIP | 3 |
| 6 | 91316-06020-00 | BOLT..... | 8 |
| 7 | 90460-49160-00 | CLAMP, hose..... | 4 |
| 8 | 4W5-14438-00-00 | CLIP, drain cleaner | 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 | 4W5-14438-00-00 | CLIP, drain cleaner | 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, panhead (92501-06012) | 3 |
| 18 | 92902-06600-00 | WASHER | 3 |
| 19 | 90480-16278-00 | GROMMET..... | 1 |
| 20 | 4H7-14419-00-00 | PIPE | 1 |
| 21 | 90460-56105-00 | CLAMP, hose..... | 4 |
| 22 | 97301-06018-00 | BOLT..... | 1 |
| 23 | 92903-06100-00 | WASHER, spring (92901-06100) | 1 |
| 24 | 90119-06029-00 | BOLT, with washer | 1 |
| 25 | 90201-06067-00 | WASHER, plate | 1 |
| 26 | 4W5-1441A-00-00 | COVER, cleaner case 1..... | 1 |
| 27 | 4W5-1441E-00-00 | COVER, cleaner case 2..... | 1 |
| 28 | 97701-50110-00 | SCREW, tapping | 4 |
| 29 | 4W5-1441K-00-00 | EMBLEM | 2 |

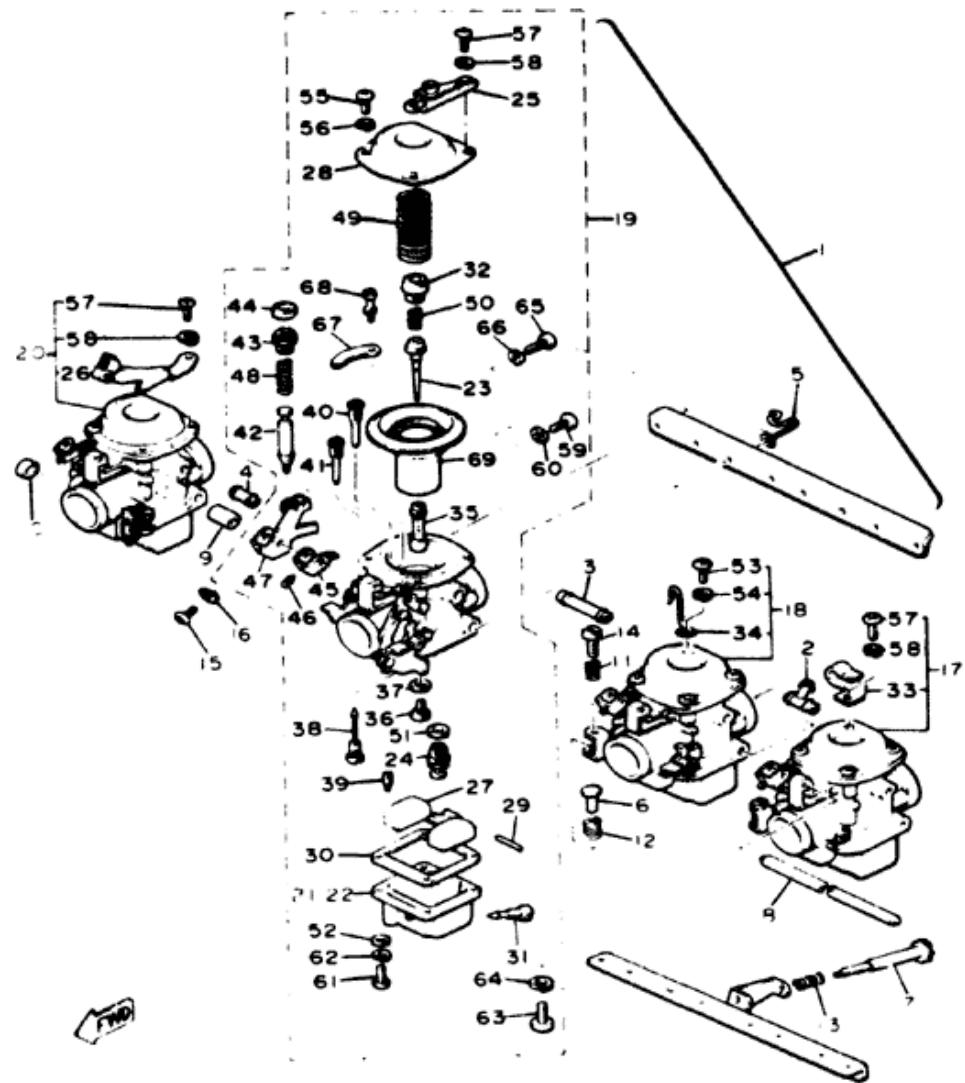
CARBURETOR



| Ref. No. | Part Number | Description | Qty. | Remarks |
|----------|-----------------|--------------------------------|------|---------|
| 1 | | CARBURETOR..... | 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 | 4W5-14978-00-00 | 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 | 98506-03016-00 | SCRW, pan head | 1 | |
| 16 | 92903-03100-00 | WASHER (92901-03100) | 1 | |
| | 92906-03100-00 | WASHER..... | 1 | |
| 17 | 4W5-14901-00-00 | CARBURETOR ASS'Y 1 | 1 | |
| 18 | 4W5-14902-00-00 | CARBURETOR ASS'Y 2 | 1 | |
| 19 | 4W5-14903-00-00 | CARBURETOR ASS'Y 3 | 1 | |
| 20 | 4W5-14904-00-00 | 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 | 4H7-14917-10-00 | JET, needle | 4 | |

| | |
|--|---|
| CARBURETOR - Mfr. / Type / I.D. Number | Hitachi / HSC32 / 4W5-00 |
| Main Jet / Pilot Jet | 110 / 40 |
| Needle Jet / Jet Needle-Clip Position | 3.2 / Y-10 Fixed |
| Slide Cutaway or Throttle Valve | 130 |
| Fuel 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) |

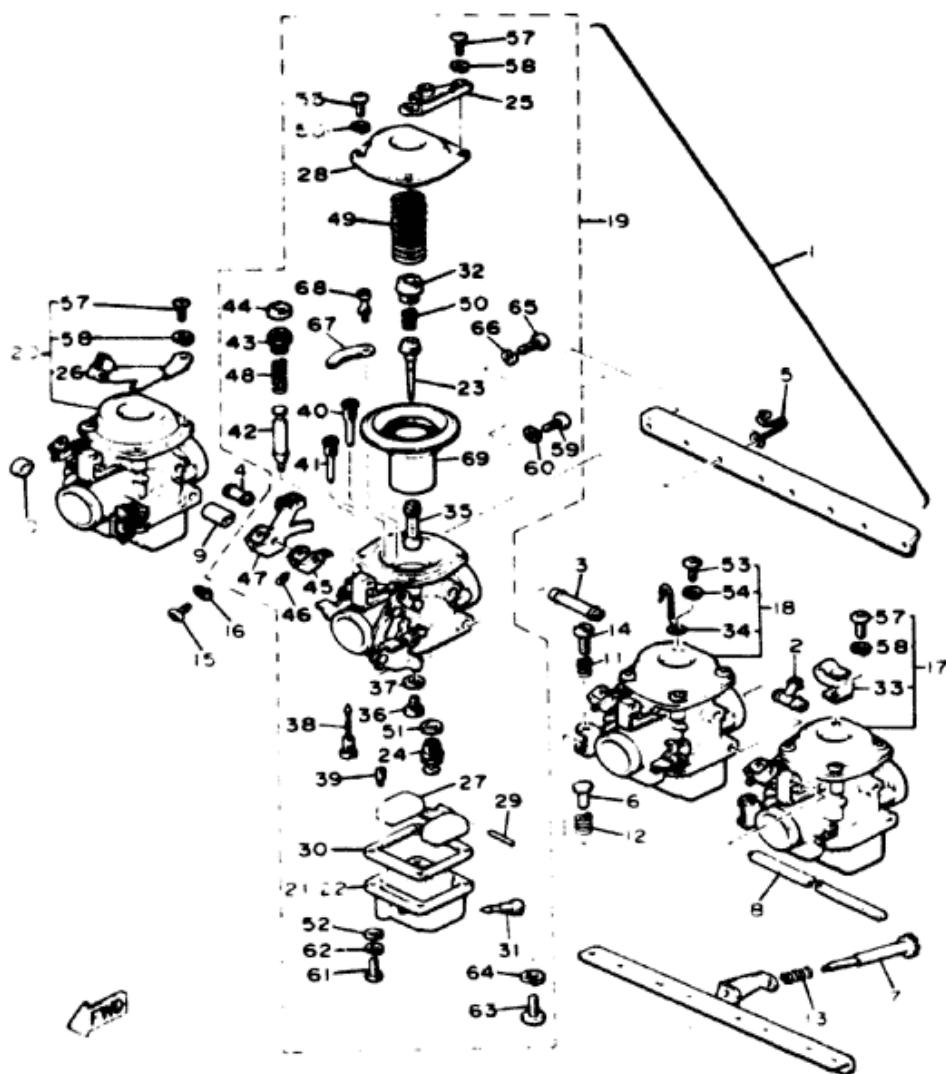
CARBURETOR



| Ref. No. | Part Number | Description | Qty. |
|----------|-----------------|-----------------------------|------|
| 24 | 4H7-14990-00-00 | NEEDLE VALVE AS'Y..... | 4 |
| 25 | 4H7-14926-00-00 | BRACKET, throttle 1..... | 1 |
| 26 | 4H7-14995-00-00 | BRACKET..... | 1 |
| 27 | 4H7-14985-00-00 | FLOAT..... | 4 |
| 28 | 4W5-14958-00-00 | COVER, diaphragm..... | 4 |
| 29 | 4H7-14186-00-00 | PIN, float | 4 |
| 30 | 4H7-14984-00-00 | GASKET, float chamber | 4 |
| 31 | 4W5-14191-01-00 | PLUG, drain | 4 |
| 32 | 4H7-14936-00-00 | SEAT, spring | 4 |
| 33 | 4H7-14159-00-00 | CLIP | 1 |
| 34 | 4H7-14139-00-00 | CLIP, pipe..... | 1 |
| 35 | 4H7-14921-32-00 | NOZZLE, main | 4 |
| 36 | 4H7-14925-10-00 | JET, main (#110) | 4 |
| 37 | 4H7-14945-00-00 | WASHER, jet main | 4 |
| 38 | 4H7-14948-40-00 | JET, pilot (#40)..... | 4 |
| 39 | 4H7-14961-40-00 | JET, starter (#40)..... | 4 |
| 40 | 4H7-14928-10-00 | JET, main air (#50)..... | 4 |
| 41 | 4H7-14949-39-00 | JET, pilot air (#195)..... | 4 |
| 42 | 4H7-14171-00-00 | PLUNGER, starter..... | 4 |
| 43 | 4H7-14174-00-00 | CAP, plunger | 4 |
| 44 | 4H7-14173-00-00 | COVER, plunger cap | 4 |
| 45 | 4W5-14975-00-00 | LEVER, starter 1 | 4 |
| 46 | 4W5-14991-00-00 | SCREW..... | 4 |

| CARBURETOR - Mfr. / Type / I.D. Number | Hitachi / HSC32 / 4W5-00 |
|--|---|
| Main Jet / Pilot Jet | 110 / 40 |
| Needle Jet / Jet Needle Clip Position | 3.2 / Y-10 Fixed |
| Slide Cutaway or Throttle Valve | 130 |
| Fuel Level | 17.5 ± 0.5mm / 2 ~ 4mm |
| Idle rpm | 1080 rpm |
| Max CO% / Max HC% / Set CO | 5.0 % - 800 ppm / 3.0 % (All settings @ Idle) |

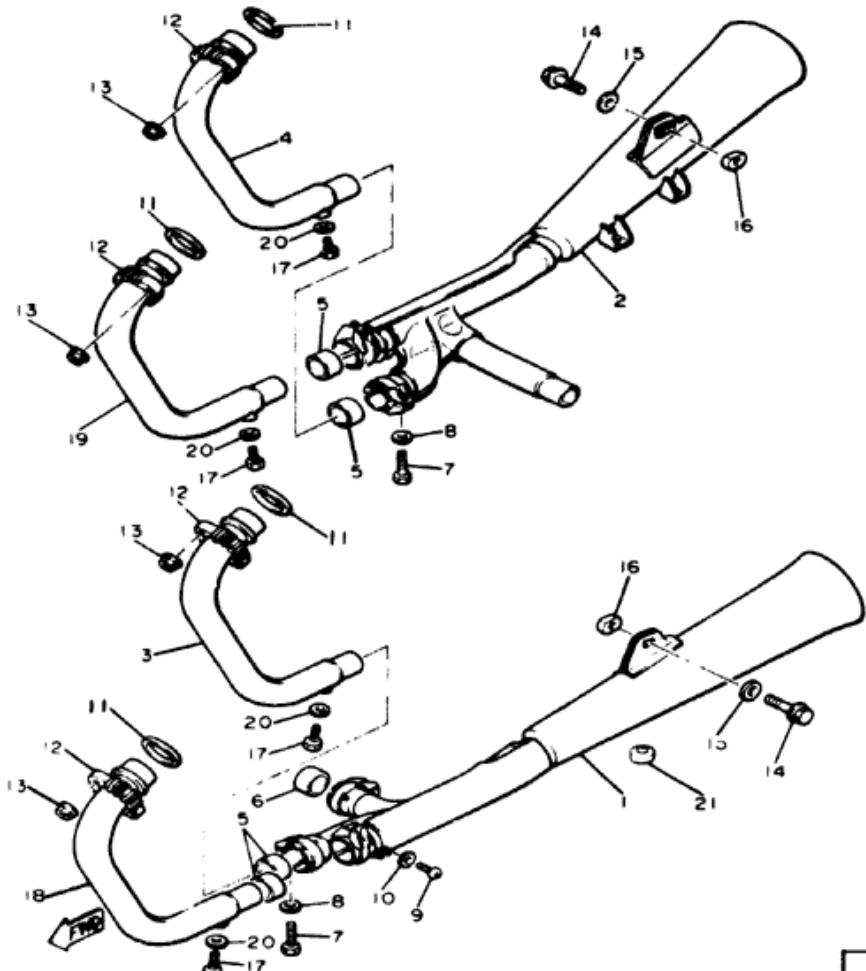
CARBURETOR



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|---------------------------------------|------|
| 47 | 4W5-14976-00-00 | LEVER, starter 2 | 1 |
| 48 | 4H7-14135-00-00 | SPRING, plunger..... | 4 |
| 49 | 4H7-14933-00-00 | SPRING, diaphragm | 4 |
| 50 | 4H7-14589-00-00 | SPRING | 4 |
| 51 | 4H7-14952-00-00 | WASHER | 4 |
| 52 | 4H7-14955-00-00 | WASHER | 16 |
| 53 | 98503-04010-00 | SCREW, pan head (98501-04010)..... | 1 |
| 54 | 92901-04100-00 | WASHER, spring (92903-04100)..... | 1 |
| 55 | 98501-04008-00 | SCREW, panhead (98502-04008) | 10 |
| 56 | 92901-04100-00 | WASHER, spring (92903-04100)..... | 10 |
| 57 | 98503-04010-00 | SCREW, pan head (98501-04010)..... | 5 |
| 58 | 92901-04100-00 | WASHER, spring (92903-04100)..... | 5 |
| 59 | 98506-05010-00 | SCREW, pan head..... | 3 |
| 60 | 92906-05100-00 | WASHER, spring..... | 3 |
| 61 | 98501-05016-00 | SCREW, pan head (98506-05016)..... | 16 |
| 62 | 92906-05100-00 | WASHER, spring..... | 16 |
| 63 | 92506-06012-00 | SCREW, pan head..... | 4 |
| 64 | 92906-06100-00 | WASHER, spring..... | 4 |
| 65 | 98506-05012-00 | SCREW, pan head..... | 1 |
| 66 | 92906-05100-00 | WASHER, spring..... | 1 |
| 67 | 4H7-14527-00-00 | PLATE | 4 |
| 68 | 4H7-14325-00-00 | SCREW, pan head..... | 4 |
| 69 | 4H7-14940-00-00 | DIAPHRAGM ASS'Y..... | 4 |

| CARBURETOR - Mfr. / Type / I.D. Number | Hitachi / HSC32 / 4W5-00 |
|--|---|
| 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 | 1050 rpm |
| Max CO% / Max HC% / Set CO | 5.0 % / 800 ppm / 3.0 % (All settings @ Idle) |

EXHAUST



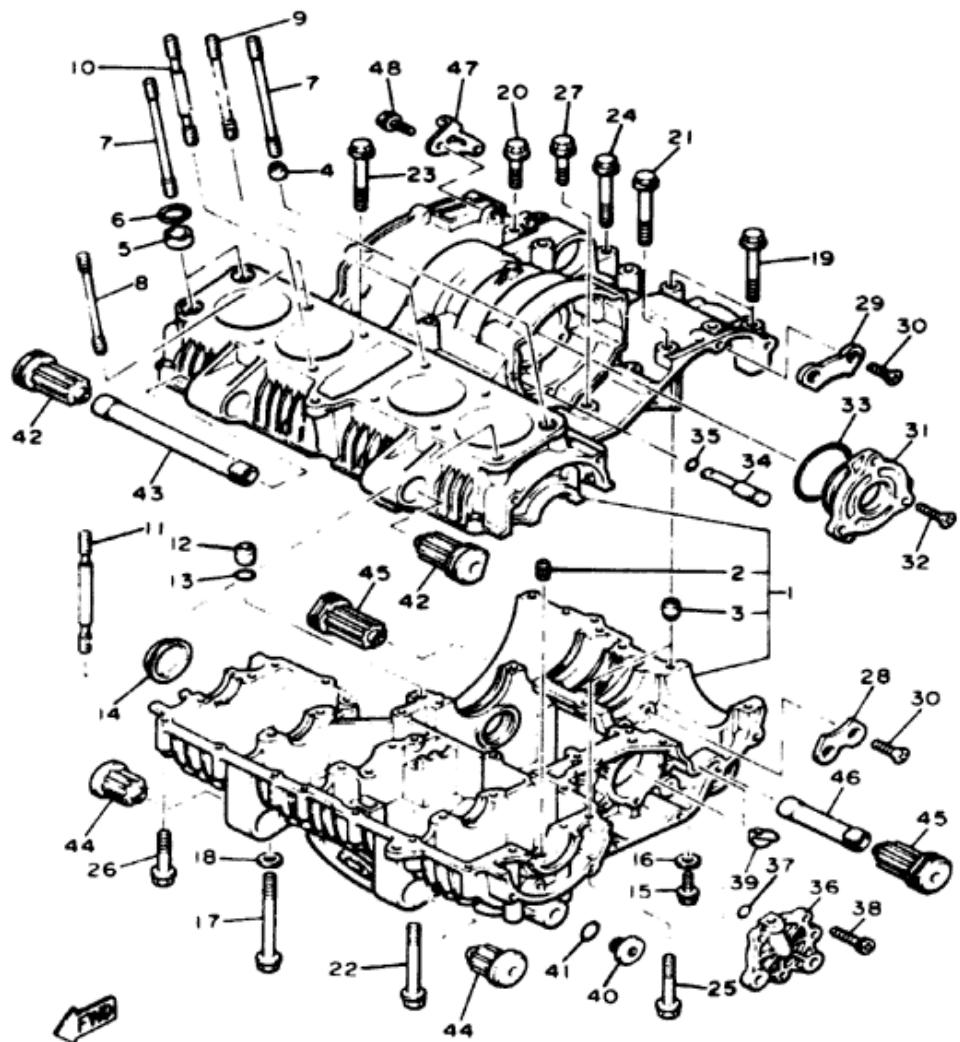
| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|----------------------------|------|---------|
| 1 | 4W5-14710-00-00 | MUFFLER ASS'Y1..... | 1 | |
| 2 | 4W5-14720-00-00 | MUFFLER ASS'Y 2 | 1 | |
| 3 | 4W5-14621-00-00 | PIPE, exhaust 2 | 1 | |
| 4 | 4W5-14631-00-00 | PIPE, exhaust 3 | 1 | |
| 5 | 4H7-14755-00-00 | GASKET, silencer | 4 | |
| 6 | 4H7-14714-00-00 | GASKET, muffler..... | 1 | |
| 7 | 97316-08025-00 | BOLT..... | 5 | |
| 8 | 92906-08600-00 | WASHER, plate | 5 | |
| 9 | 92506-06025-00 | SCREW, pan head..... | 2 | |
| 10 | 92906-06600-00 | WASHER, plate | 2 | |
| 11 | 4H7-14613-00-00 | GASKET, exhaust pipe | 4 | |
| 12 | 4W5-14612-00-00 | NUT, ring | 4 | |
| 13 | 4W5-14681-00-00 | NUT..... | 8 | |
| 14 | 95806-10040-00 | BOLT, flange..... | 2 | |
| 15 | 4H3-14759-00-00 | WASHER | 2 | |
| 16 | 4W5-14761-00-00 | NUT..... | 2 | |
| 17 | 97316-06012-00 | BOLT..... | 4 | |
| 18 | 4W5-14611-00-00 | PIPE, exhaust 1 | 1 | |
| 19 | 4W5-14641-00-00 | PIPE, exhaust 4 | 1 | |
| 20 | 92906-06600-00 | 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."

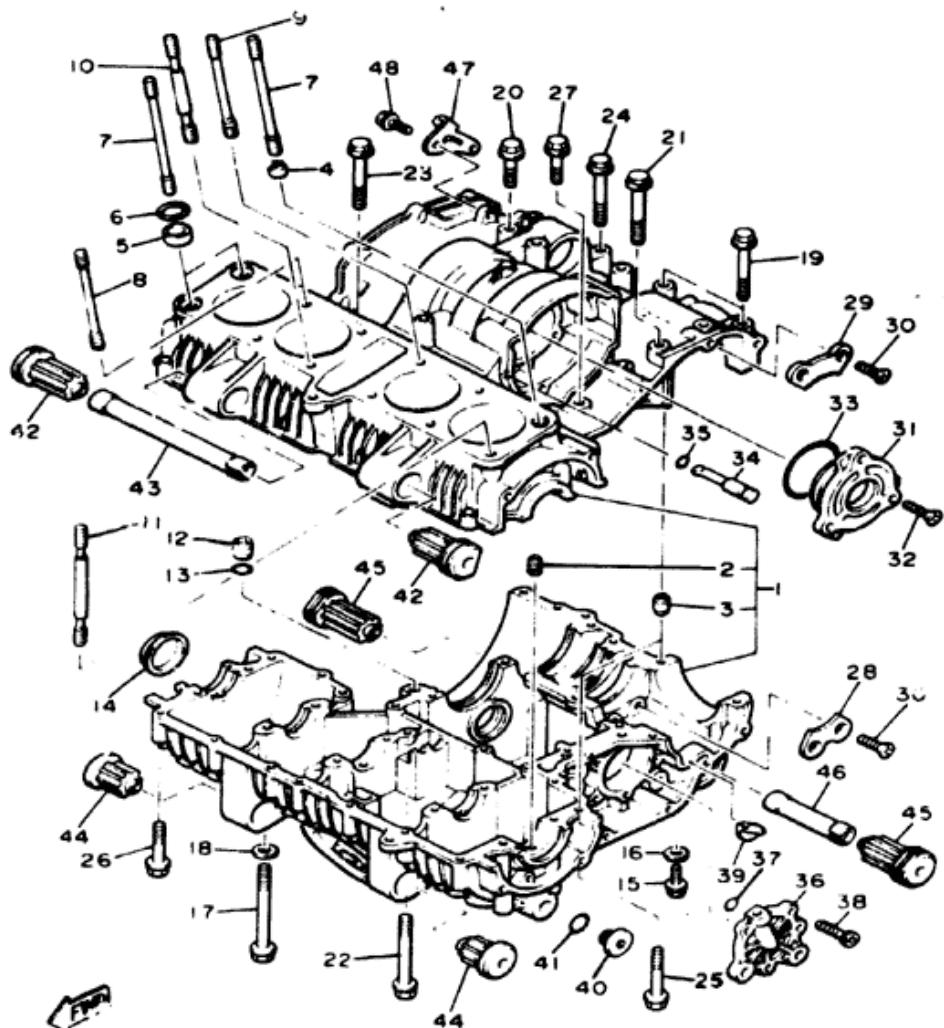
CRANKCASE



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|--------------------------------|------|
| 1 | 4W5-15100-00-00 | CRANKCASE ASS'Y | 1 |
| 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 | 4H7-11364-00-00 | BOLT, cylinder holding 4 | 3 |
| 8 | 4H7-11363-00-00 | BOLT, cylinder holding 3 | 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 | 95816-08105-00 | BOLT, flange | 10 |
| 18 | 90201-08366-00 | WASHER, plate | 8 |
| 19 | 95816-08065-00 | BOLT, flange | 2 |
| 20 | 95816-06135-00 | BOLT, flange | 2 |
| 21 | 94816-06120-00 | BOLT, flange | 1 |
| 22 | 95811-06080-00 | BOLT, flange | 3 |
| 23 | 95816-06070-00 | BOLT, flange | 3 |
| 24 | 95816-06060-00 | BOLT, flange | 6 |

| Oiling System | Wet Sump |
|-----------------------------------|---|
| Capacity: Dry | 3600cc |
| Oil and Filter Change | 2880cc |
| Oil Change | 2380cc |
| 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 |
| Drain Plug | 14 x 1.5: 4.3 m-kg |

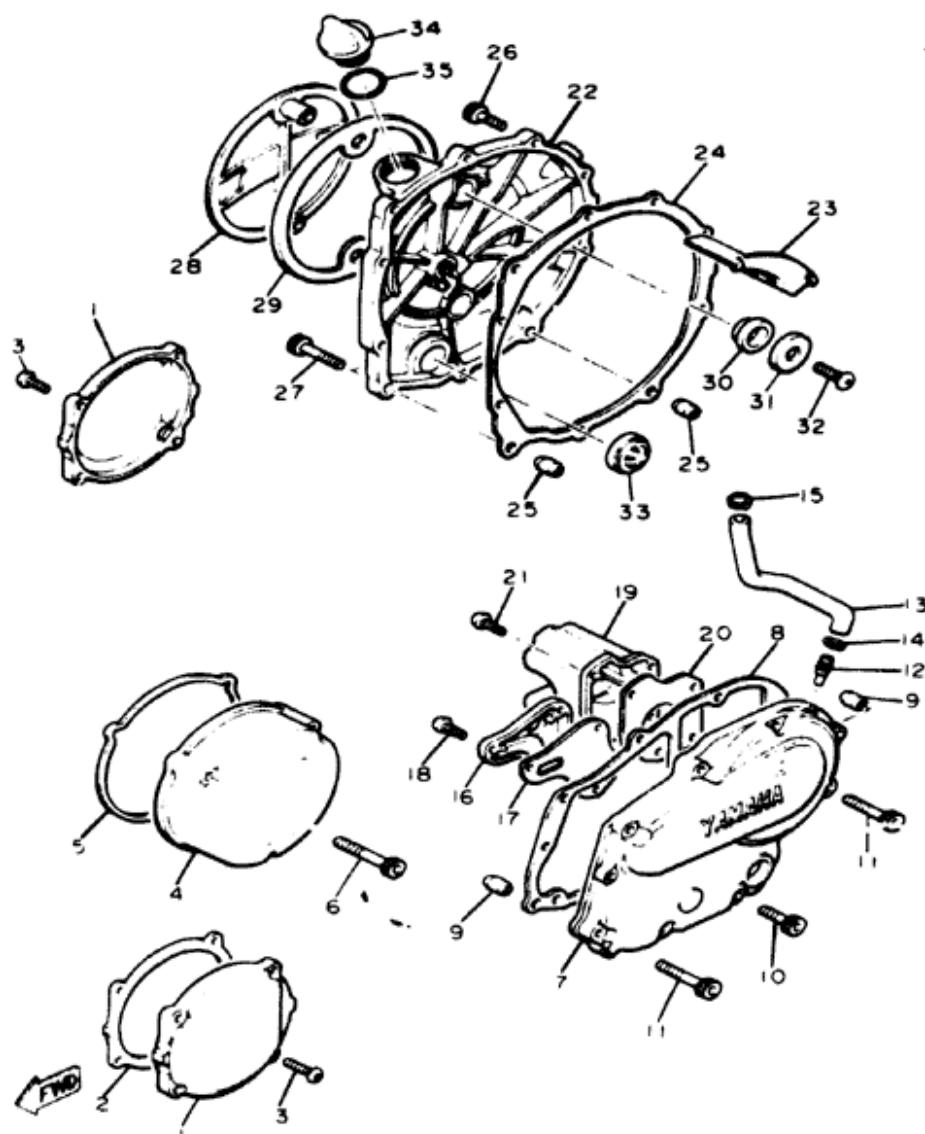
CRANKCASE



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|---|------|
| 25 | 95816-06055-00 | BOLT, flange..... | 2 |
| 26 | 95816-06045-00 | BOLT, flange..... | 7 |
| 27 | 95816-06035-00 | 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 | 90151-06014-00 | SCREW..... | 3 |
| 33 | 93210-62439-00 | O-RING..... | 1 |
| 34 | 4H7-13454-00-00 | NOZZLE | 1 |
| 35 | 93210-07423-00 | O-RING..... | 1 |
| 36 | 5G2-15164-00-00 | HOUSING, bearing 2 (4H7-15164-00)..... | 1 |
| 37 | 93210-07438-00 | O-RING..... | 1 |
| 38 | 91311-06020-00 | BOLT..... | 3 |
| 39 | 4H7-15365-00-00 | GROMMET..... | 1 |
| 40 | 4K0-15189-00-00 | PLUG..... | 2 |
| 41 | 93210-21276-00 | O-RING..... | 2 |
| 42 | 4H7-15326-00-00 | DAMPER, engine mount 2 | 2 |
| 43 | 4W5-15317-00-00 | 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 | 4W5-15327-00-00 | SPACER, engine mount | 1 |
| 47 | 4K0-15441-00-00 | HOLDER, clutch cable | 1 |
| 48 | 91316-06012-00 | BOLT..... | 2 |

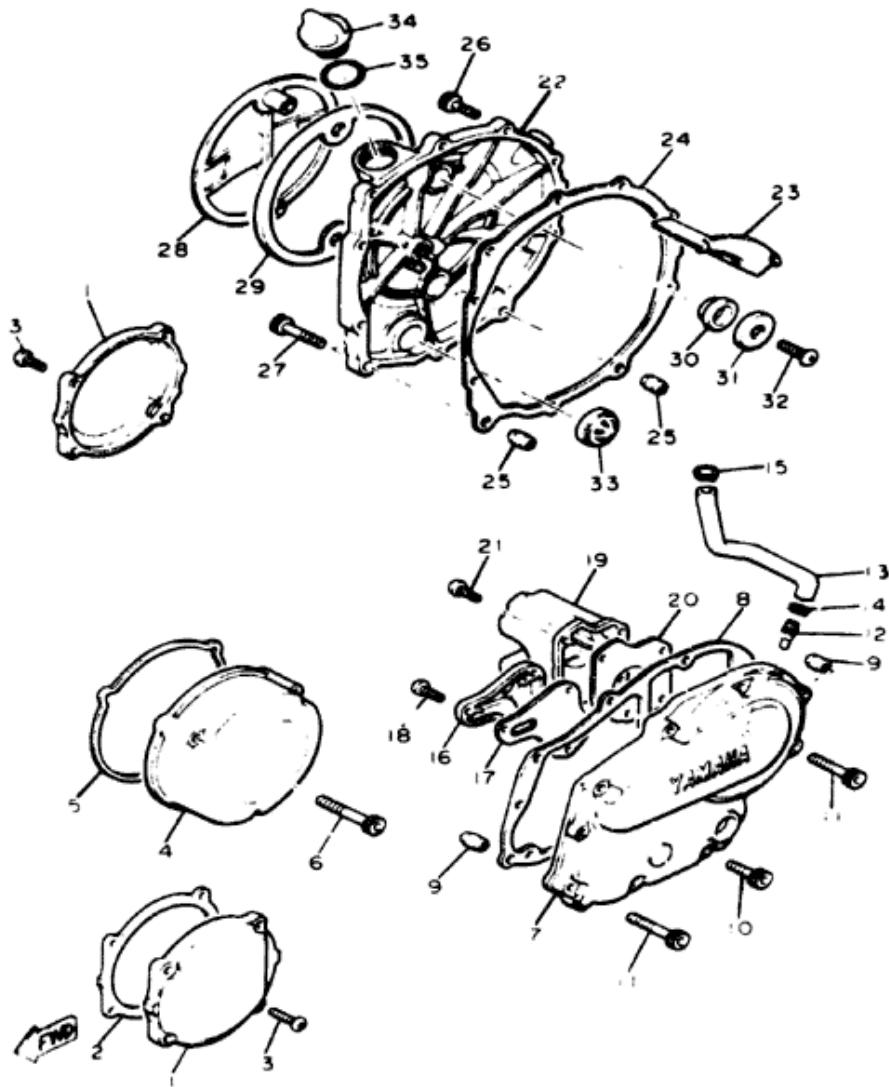
| Oiling System | Wet Sump |
|-----------------------------------|-----------------------------|
| Capacity: Dry | 3600cc |
| Oil and Filter Change | 2950cc |
| Oil Change | 2350cc |
| Lubricant: Temp. Above 5°C (40°F) | Yamalube 4° or SAE 20W40 SE |
| Temp. Below 15°C (60°F) | Yamalube 4° or SAE 10W30 SE |
| Drain Plug | 14 x 1.5: 4.3 m-kg |

CRANKCASE COVER



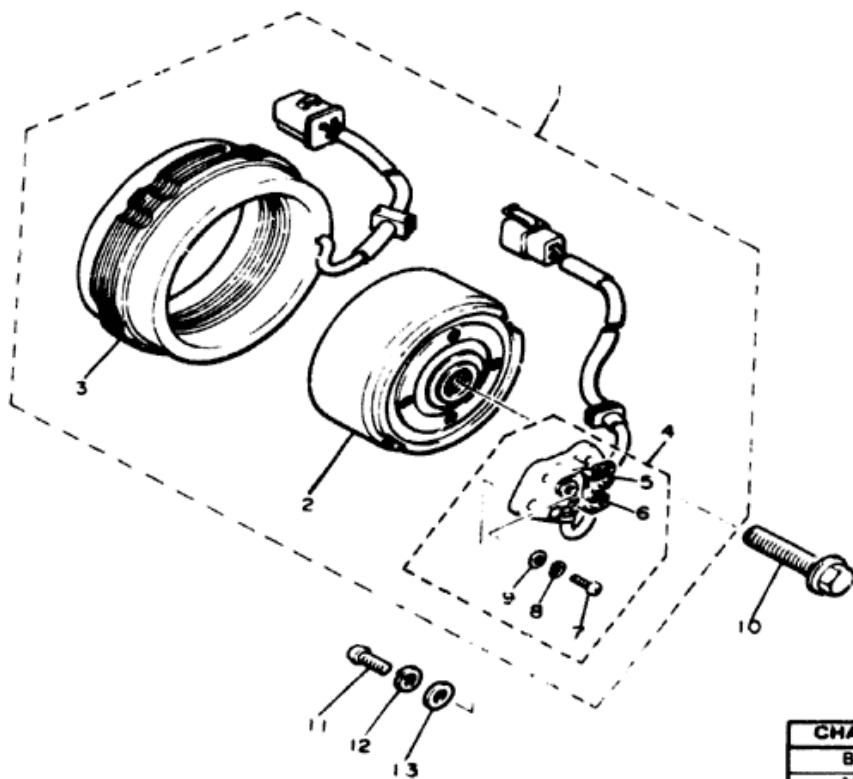
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-------------------------------|------|
| 1 | 4W5-15416-00-00 | COVER, oil pump..... | 2 |
| 2 | 4H7-15456-00-00 | GASKET, oil pump cover 1..... | 1 |
| 3 | 98906-06020-00 | SCREW, bind..... | 8 |
| 4 | 4W5-15415-00-00 | COVER, generator..... | 1 |
| 5 | 4H7-15455-00-00 | GASKET 1..... | 1 |
| 6 | 91316-06070-00 | BOLT..... | 3 |
| 7 | 4W5-15411-00-00 | COVER, crankcase 1..... | 1 |
| 8 | 4H7-15451-00-00 | GASKET, crankcase cover | 1 |
| 9 | 91830-21014-00 | PIN, dowel | 2 |
| 10 | 91316-06025-00 | BOLT..... | 8 |
| 11 | 91316-06040-00 | BOLT..... | 2 |
| 12 | 371-11167-01-00 | COVER, breather 2 | 1 |
| 13 | 4H7-11166-01-00 | PIPE, breather 1 | 1 |
| 14 | 4H1-11189-00-00 | CLIP, pipe..... | 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, panhead (92501-06015) | 3 |

CRANKCASE COVER



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|---------------------------------|------|
| 19 | 4H7-15347-00-00 | BREATHER 2..... | 1 |
| 20 | 4H7-15467-00-00 | GASKET | 1 |
| 21 | 92503-06015-00 | SCREW, panhead (92501-06015) | 4 |
| 22 | 4W5-15421-00-00 | 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 | 91316-06025-00 | BOLT..... | 8 |
| 27 | 91316-06040-00 | BOLT..... | 2 |
| 28 | 4W5-15417-00-00 | 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, panhead (92501-06015) | 2 |
| 33 | 2H7-15361-00-00 | GAUGE, level..... | 1 |
| 34 | 2H9-15363-00-00 | PLUG, oil | 1 |
| 35 | 93210-27370-00 | O-RING..... | 1 |

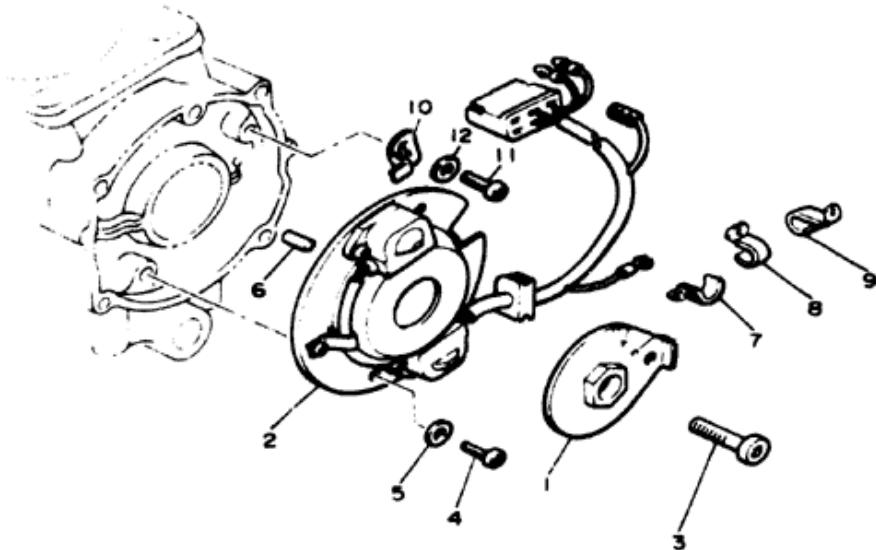
A.C. GENERATOR



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|---------------------------------------|------|---------|
| 1 | 4H7-81600-10-00 | A.C. GENERATOR ASS'Y..... | 1 | |
| 2 | 4H7-81650-10-00 | ROTOR ASS'Y..... | 1 | |
| 3 | 4H7-81610-10-00 | STATOR ASS'Y..... | 1 | |
| 4 | 4H7-81619-10-00 | BRUSH HOLDER ASS'Y..... | 1 | |
| 5 | 4H7-81611-10-00 | BRUSH 1 | 1 | |
| 6 | 4H7-81612-10-00 | BRUSH 2 | 1 | |
| 8 | 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, panhead (92502-06016) | 2 | |
| 12 | 92903-06100-00 | WASHER, spring (92902-06100) | 2 | |
| 13 | 92901-06600-00 | WASHER (92902-06600)..... | 2 | |

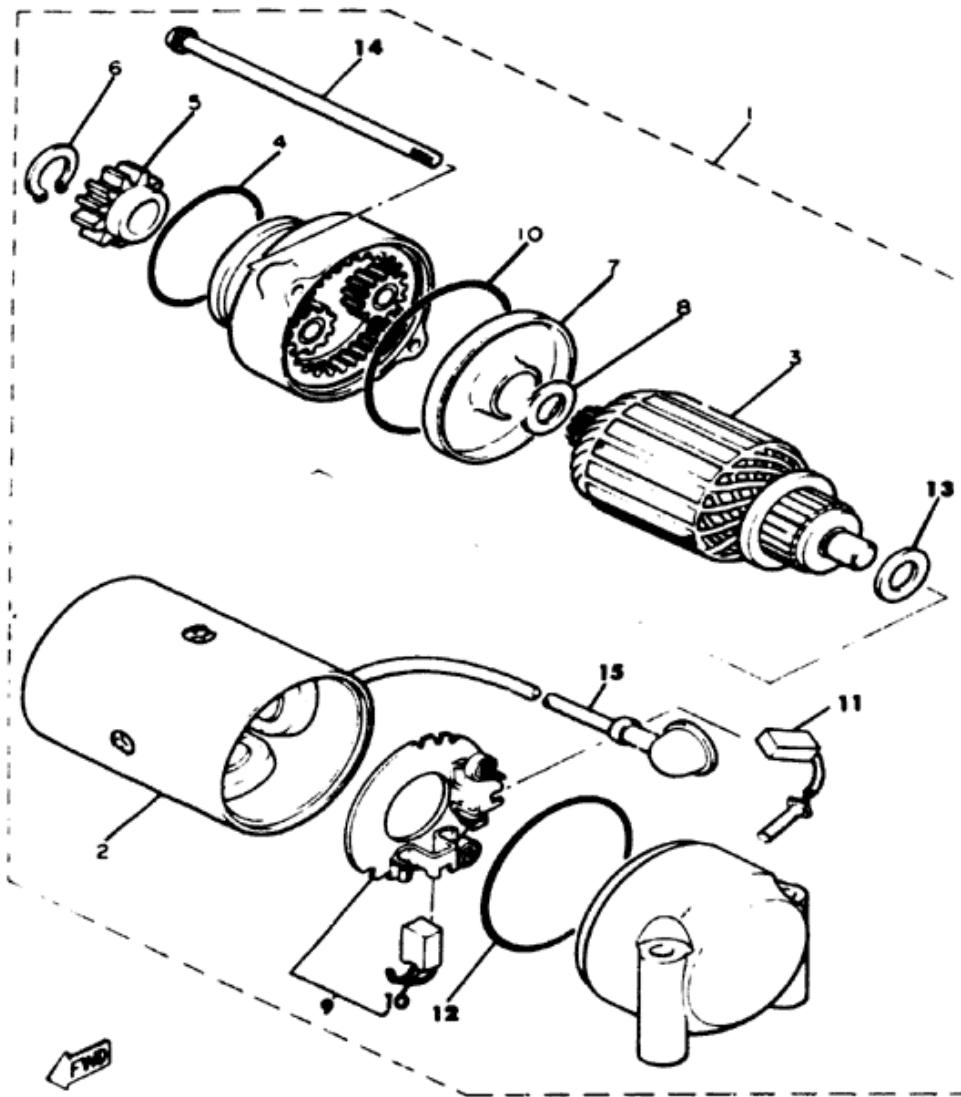
| CHARGING SYSTEM | | AC Generator / 3-Phase / Full Wave |
|---|--|---|
| Battery, Model / Specific Gravity / Charge Rate | | Yuasa 12N12A-4A-1 (12V 12AH) / 1.28 / 1.2A |
| Maximum Output | | 14V 19A @ 5000 rpm |
| TROUBLESHOOTING | | |
| Field Coil Color Code / Ω | | Rotor: 8m ~ 8m / 4.8 Ω ± 10% Stator: 8m ~ 8m / 8.48 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/2.8 m-lb/Dly 164 5K Ω ::::/Dly 263 10K Ω :::: |
| 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% |

PICKUP COIL - GOVERNOR



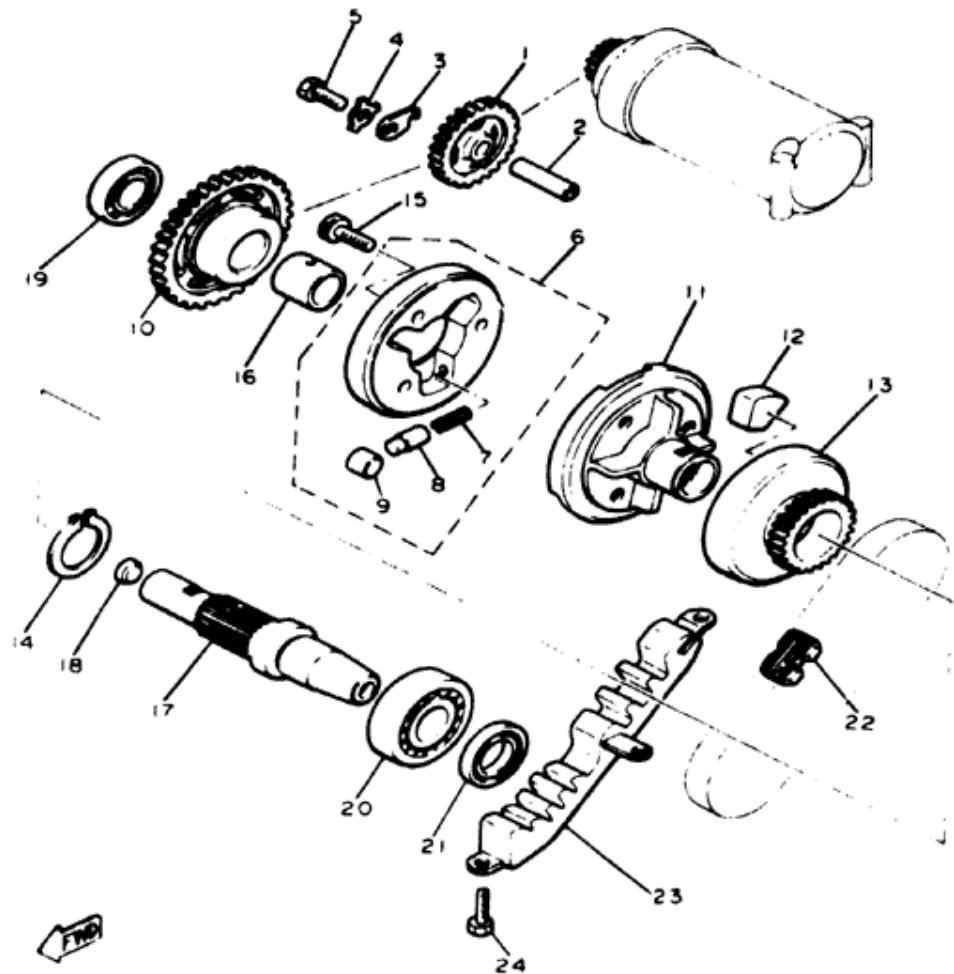
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|------------------------------|------|
| 1 | 4H7-81673-10-00 | ROTOR | 1 |
| 2 | 4H7-81671-10-00 | BASE, pick up | 1 |
| 3 | 91316-08030-00 | BOLT | 1 |
| 4 | 92503-06012-00 | SCREW' panhead (92501-06012) | 2 |
| 5 | 92903-06200-00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

STARTING MOTOR



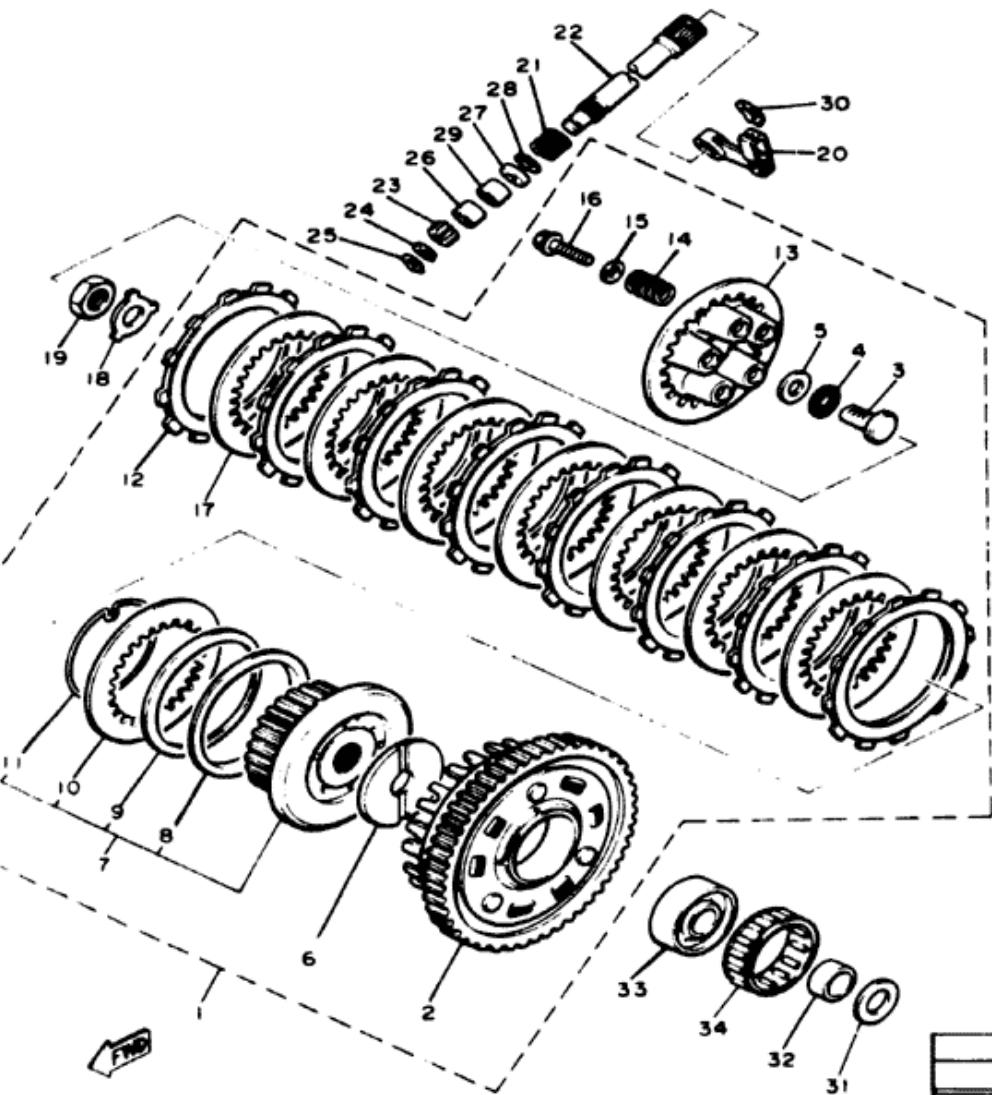
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-----------------------------------|------|
| 1 | 4H7-81800-50-00 | STARTING MOTOR ASS'Y | 1 |
| 2 | 4H7-81810-01-00 | . STATOR ASS'Y (4H7-81810-00) | 1 |
| 3 | 4H7-81850-00-00 | . ARMATURE ASS'Y | 1 |
| 4 | 4H7-81847-00-00 | . 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 | 2 |
| 15 | 4H7-81815-00-00 | . LEAD WIRE ASS'Y..... | 1 |

STARTER CLUTCH



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|--|------|
| 1 | 4H7-15512-00-00 | GEAR, idler 1 (27T) | 1 |
| 2 | 4H7-15521-00-00 | SHAFT 1..... | 1 |
| 3 | 2H7-15531-00-00 | PLATE, stopper | 1 |
| 4 | 90215-06040-00 | WASHER, lock..... | 1 |
| 5 | 97301-06016-00 | BOLT (97301-06015) | 1 |
| 6 | 4H7-15580-10-00 | STARTER CLUTCH OUTER ASS'Y (4H7-15580-00)..... | 1 |
| 7 | 90501-04596-00 | . SPRING, compression..... | 3 |
| 8 | 341-15583-05-00 | . CAP, starter clutch spring..... | 3 |
| 9 | 93615-12088-00 | . PIN, dowel | 3 |
| 10 | 4H7-15517-00-00 | GEAR, idler 2 (43T) | 1 |
| 11 | 4H7-15524-00-00 | WHEEL, starter | 1 |
| 12 | 4H7-16155-00-00 | 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-C0-00 | GUIDE, upper..... | 1 |
| 24 | 97301-06014-00 | BOLT | 3 |

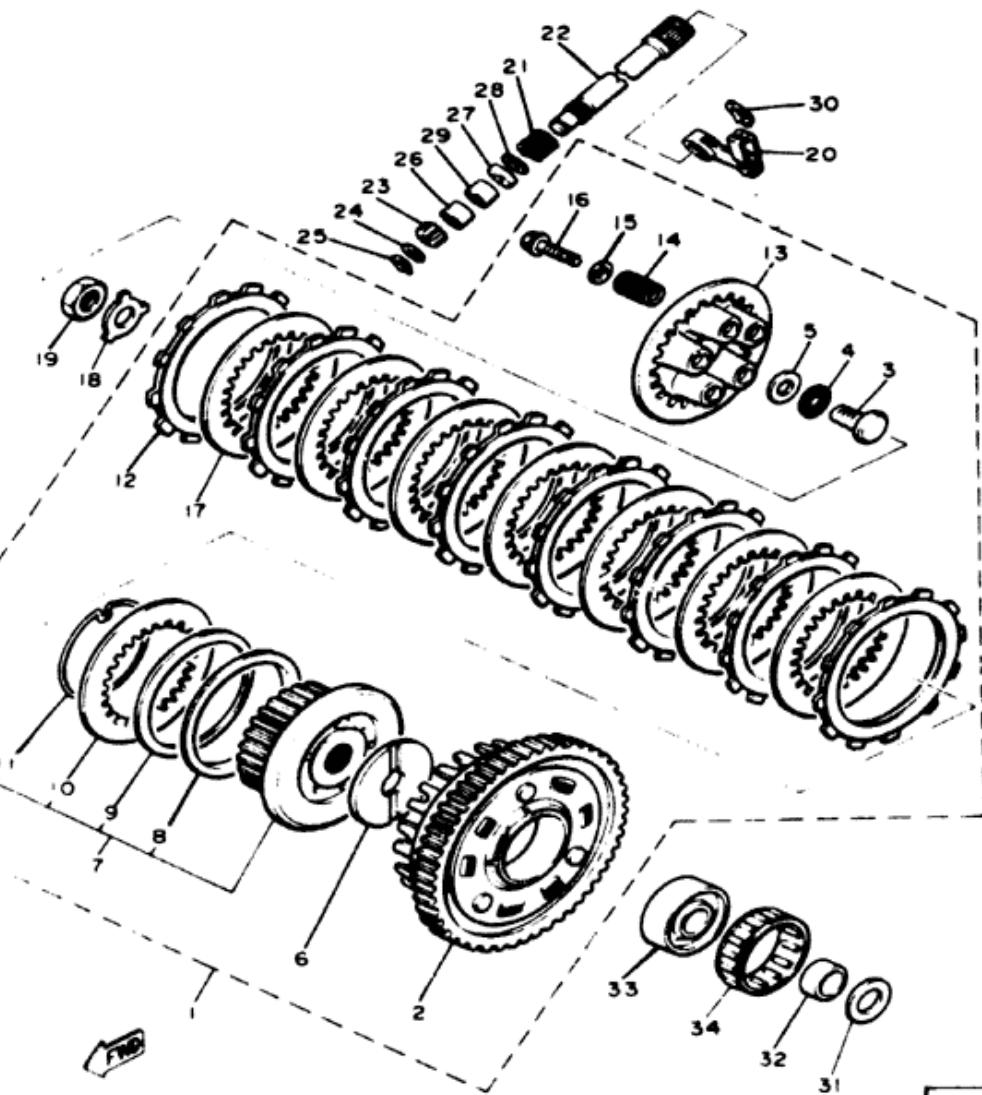
CLUTCH



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|--------------------------------------|------|
| 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 |
| 19 | 90170-20257-00 | NUT..... | 1 |

| | |
|---|-------------------|
| Clutch Friction Plate Thickness Std ~ Min | 3.0 ~ 2.8mm |
| Clutch Spring Length Std ~ Min | 40.1 ~ 39.1mm |
| Clutch Nut | 20 x 1.0 7.0 m-kg |

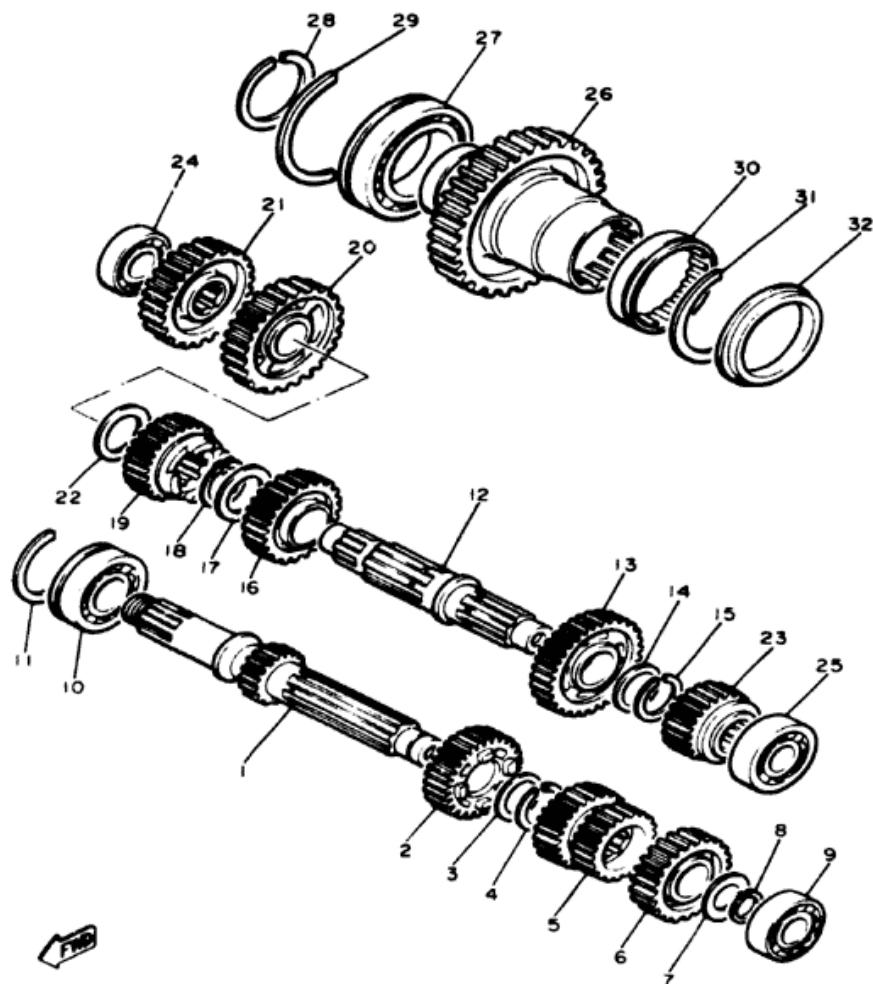
CLUTCH



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|----------------------------|------|
| 20 | 4W5-16340-00-00 | PUSH LEVER ASS'Y | 1 |
| 21 | 4W5-16345-00-00 | SPRING, return | 1 |
| 22 | 4W5-16382-00-00 | 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 | 1 |
| 27 | 93102-12224-00 | OIL SEAL | 1 |
| 28 | 4W5-16144-00-00 | WASHER, plate | 1 |
| 29 | 93315-11206-00 | BEARING | 1 |
| 30 | 4W5-16328-00-00 | CIRCLIP | 1 |
| 31 | 2K7-16154-00-00 | PLATE, thrust 1 | 1 |
| 32 | 90387-252A8-00 | COLLAR | 1 |
| 33 | 4H7-16181-00-00 | SPACER 1 | 1 |
| 34 | 93310-365H3-00 | BEARING, cylindrical | 1 |

| | |
|---|-------------------|
| Clutch Friction Plate Thickness Std ~ Min | 3.0 ~ 2.8mm |
| Clutch Spring Length Std ~ Min | 40.1 ~ 39.1mm |
| Clutch Nut | 20 x 1.0 7.0 m-kg |

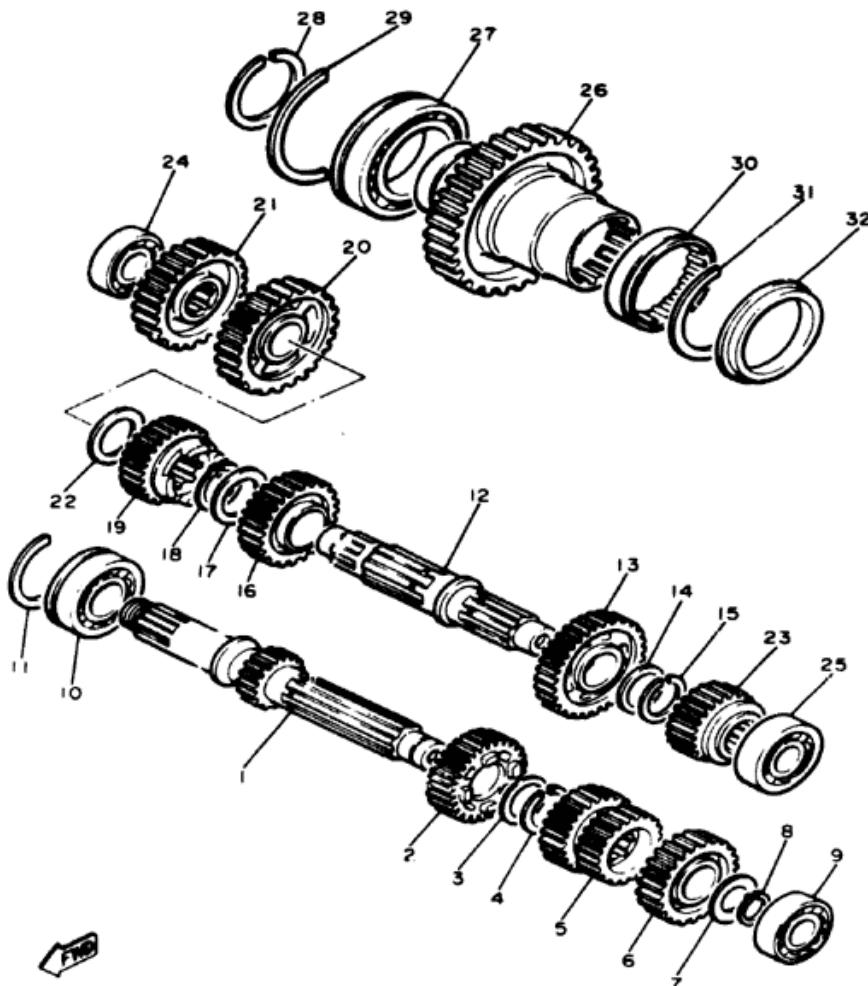
TRANSMISSION



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|-------------------------------|------|---------|
| 1 | 4H7-17401-00-00 | MAIN AXLE ASS'Y (16T) | 1 | |
| 2 | 4H7-17141-00-00 | GEAR, 4th pinion (30T)..... | 1 | |
| 3 | 90209-22191-00 | WASHER | 1 | |
| 4 | 93440-25019-00 | CIRCLIP (93440-25008)..... | 1 | |
| 5 | 4H7-17121-00-00 | GEAR, 2nd/3rd pinion (20/26T) | 1 | |
| 6 | 4H7-17151-00-00 | GEAR, 5th pinion (32T)..... | 1 | |
| 7 | 90201-20276-00 | WASHER, plate | 1 | |
| 8 | 93410-20009-00 | CIRCLIP | 1 | |
| 9 | 93306-20434-00 | BEARING (B6204)..... | 1 | |
| 10 | 93306-30528-00 | BEARING (B6305Z)..... | 1 | |
| 11 | 278-17424-00-00 | CIRCLIP 1 | 1 | |
| 12 | 4H7-17402-00-00 | DRIVE AXLE ASS'Y..... | 1 | |
| | 4H7-17402-01-00 | DRIVE AXLE ASS'Y..... | 1 | 002134~ |
| 13 | 4H7-17221-00-00 | GEAR, 2nd wheel (30T) | 1 | |
| | 4H7-17221-01-00 | GEAR, 2nd wheel (30T) | 1 | 002134~ |
| | 4H7-17221-01-00 | GEAR, 2nd wheel (30T) | 1 | 002134~ |
| 14 | 90209-22191-00 | WASHER | 1 | |
| 15 | 93440-25019-00 | CIRCLIP (93440-25008)..... | 1 | |
| 16 | 4H7-17231-00-00 | GEAR, 3rd wheel (30T) | 1 | |
| | 4H7-17231-01-00 | GEAR, 3rd wheel (30T) | 1 | 002134~ |
| 17 | 90209-25196-00 | WASHER | 1 | |

| | |
|---|---|
| TRANSMISSION - On Type / City Chg / City Reassemble | See ENGINE Above |
| Primary Drive Type / Teeth / Ratio | Spur Gears / 97-58 / 1.672 |
| Secondary Drive Type / Teeth / Chain | Shaft Drive / 48-36 x 18-18 x 32-11 / @ |

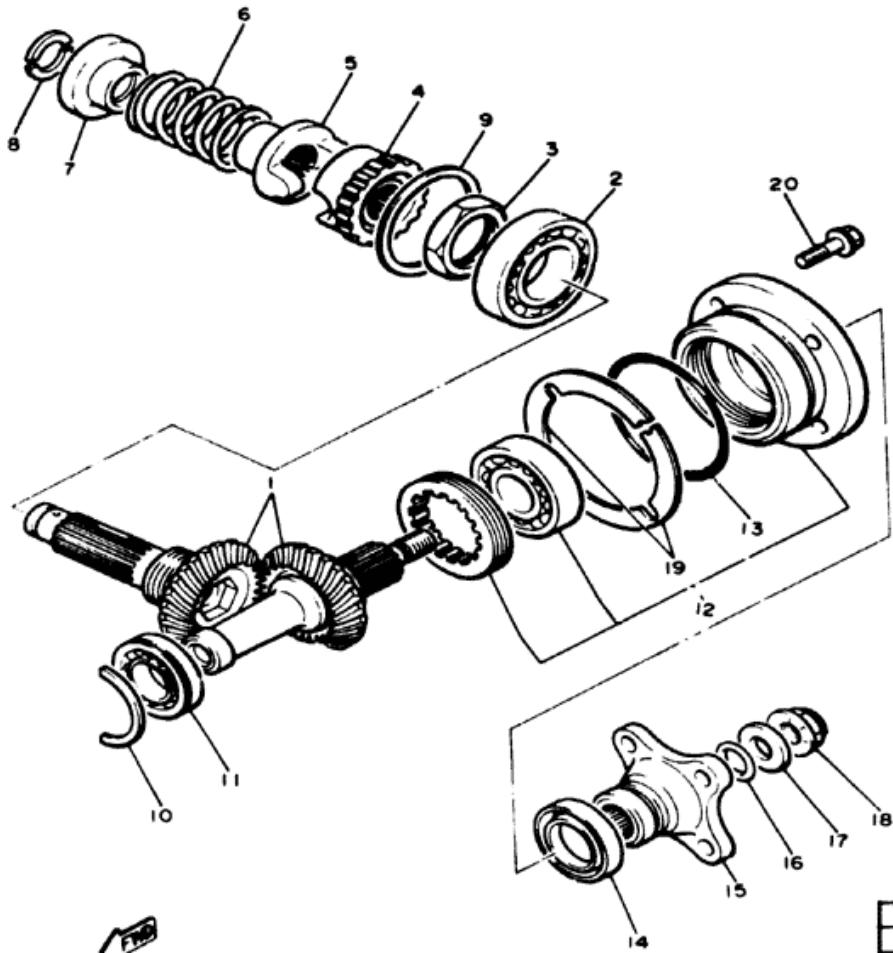
TRANSMISSION



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|---------------------------------|------|---------|
| 18 | 93440-28062-00 | CIRCLIP | 1 | |
| 19 | 4H7-17241-00-00 | GEAR, 4th wheel (28T) | 1 | |
| 20 | 4H7-17211-01-00 | GEAR, 1st wheel (35T) | 1 | |
| 21 | 4H7-17582-00-00 | GEAR, middle drive (36T) | 1 | |
| 22 | 90201-243A2-00 | WASHER, plate | 1 | |
| 23 | 4H7-17251-00-00 | GEAR, 5th wheel (26T) | 1 | |
| | 4H7-17251-01-00 | GEAR, 5th wheel (26T) | 1 | 002134~ |
| 24 | 93306-30301-00 | BEARING (B6303) | 1 | |
| 25 | 93306-30425-00 | BEARING (83A581A) | 1 | |
| 26 | 4H7-17583-00-00 | GEAR, middle driven (49T) | 1 | |
| 27 | 93306-91101-00 | BEARING (B6911) | 1 | |
| 28 | 93410-55057-00 | CIRCLIP | 1 | |
| 29 | 93440-80082-00 | CIRCLIP | 1 | |
| 30 | 93311-36042-00 | BEARING, cylindrical | 1 | |
| 31 | 93440-72049-00 | CIRCLIP | 1 | |
| 32 | 93104-60066-00 | OIL SEAL | 1 | |

| | |
|--|---|
| TRANSMISSION - Oil Type / Qty Chg / Qty Reassemble | See ENGINE Above |
| Primary Drive Type / Teeth / Ratio | Spur Gears / 97-68 / 1.672 |
| Secondary Drive Type / Teeth / Chain | Shaft Drive / 49-36 x 19-18 x 32-11 / @ |

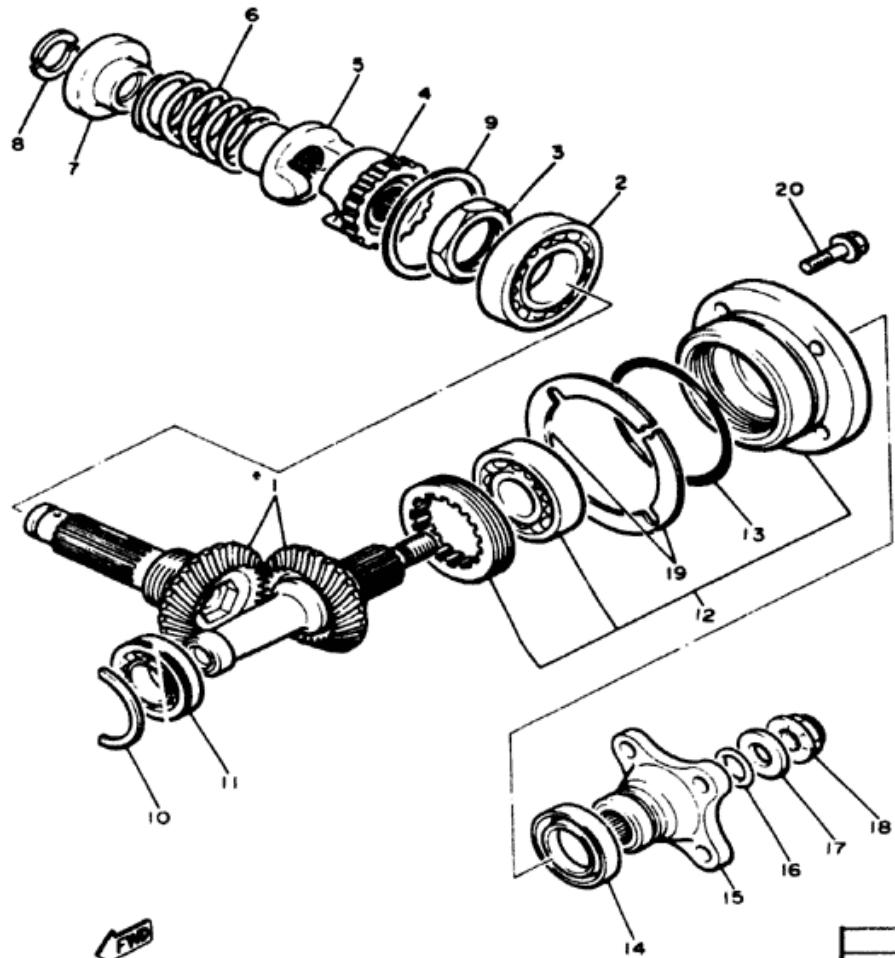
MIDDLE DRIVE GEAR



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|---------------------------|------|---------|
| 1 | 4H7-W1751-00-00 | MIDDLE GEAR SET | 1 | |
| 2 | 93306-20709-00 | BEARING (B6207)..... | 1 | |
| 3 | 90179-34304-00 | NUT..... | 1 | |
| 4 | 4H7-17526-01-00 | CAM, drive..... | 1 | |
| 5 | 4H7-17527-00-00 | CAM, driven..... | 1 | |
| 6 | 90501-65575-00 | SPRING, compression | 1 | |
| 7 | 4H7-17524-00-00 | HOLDER..... | 1 | |
| 8 | 3H5-17529-00-00 | WASHER, thrust | 2 | |
| 9 | 4H7-17537-00-15 | SHIM, thrust (0.15T)..... | 1 | U.R. |
| | 4H7-17537-00-20 | SHIM, thrust (0.20T)..... | 1 | U.R. |
| | 4H7-17537-00-30 | SHIM, thrust (0.30T)..... | 1 | U.R. |
| | 4H7-17537-00-40 | SHIM, thrust (0.40T)..... | 1 | U.R. |
| | 4H7-17537-00-50 | SHIM, thrust (0.50T)..... | 1 | U.R. |
| 10 | 93440-47081-00 | CIRCLIP | 1 | |
| 11 | 93306-00508-00 | BEARING (B6005)..... | 1 | |
| 12 | 4H7-W1752-00-00 | HOUSING COMP | 1 | |
| 13 | 93210-71360-00 | O-RING..... | 1 | |

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

MIDDLE DRIVE GEAR

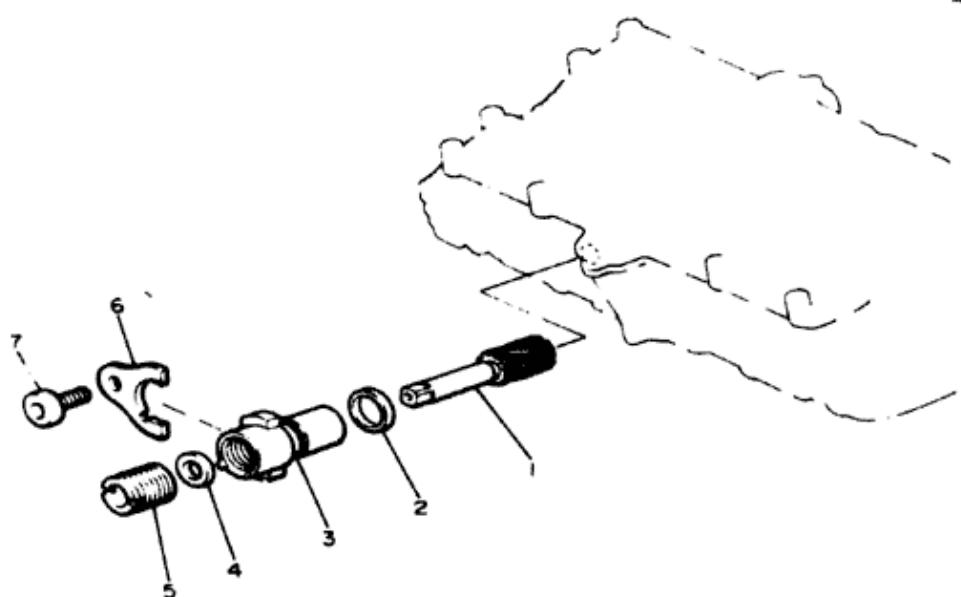


| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|----------------------------|------|---------|
| 14 | 93101-35097-00 | OIL SEAL | 1 | |
| 15 | 4H7-17555-00-00 | FLANGE, middle gear | 1 | |
| 16 | 93210-14359-00 | O-RING..... | 1 | |
| 17 | 90201-14633-00 | WASHER,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

| | |
|---|---------------------------------|
| Final Gear Case Capacity | 200cc |
| Gear Case Lubricant: Temp. Above 5°C (40°F) | SAE #0 API Hypoid Gear Oil GL-4 |
| Temp. Below 15°C (60°F) | SAE #0 API Hypoid Gear Oil GL-4 |
| All Weather Conditions | SAE #0 API Hypoid Gear Oil GL-4 |

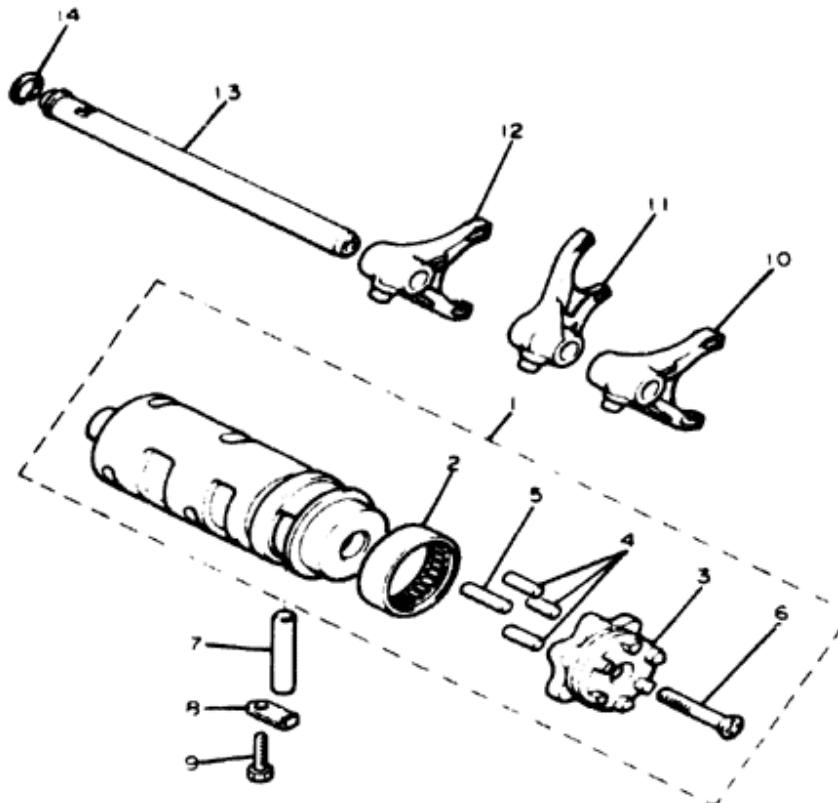
TACHOMETER GEAR

| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-------------------------------|------|
| 1 | 4H7-17841-00-00 | GEAR, driven | 1 |
| 2 | 93210-11437-00 | O-RING..... | 1 |
| 3 | 4H7-17811-01-00 | HOUSING, tachometer gear..... | 1 |
| 4 | 93104-07036-00 | OIL SEAL | 1 |
| 5 | 256-17848-00-00 | ADAPTER..... | 1 |
| 6 | 4W5-17812-00-00 | STOPPER | 1 |
| 7 | 91316-06012-00 | BOLT..... | 1 |



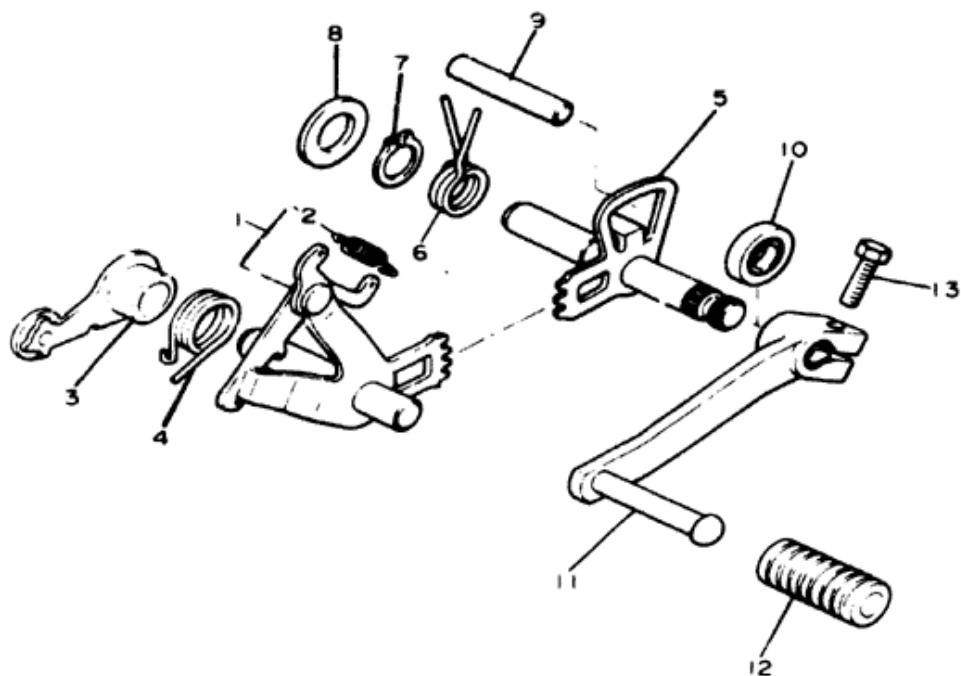
FWD

SHIFT CAM - FORK



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-------------------------------|------|
| 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 | 98701-05035-00 | . SCREW, flat head..... | 1 |
| 7 | 93608-43157-00 | PIN, dowel | 1 |
| 8 | 2H7-15531-00-00 | PLATE, stopper | 1 |
| 9 | 97301-06016-00 | BOLT (97301-06015) | 1 |
| 10 | 4H7-18511-01-00 | FORK, shift 1 | 1 |
| 11 | 4H7-18512-01-00 | FORK, shift 2 | 1 |
| 12 | 4H7-18513-01-00 | FORK, shift 3 | 1 |
| 13 | 4H7-18531-00-00 | BAR, shift fork guide 1 | 1 |
| 14 | 93440-11029-00 | CIRCLIP | 1 |

SHIFT SHAFT - PEDAL

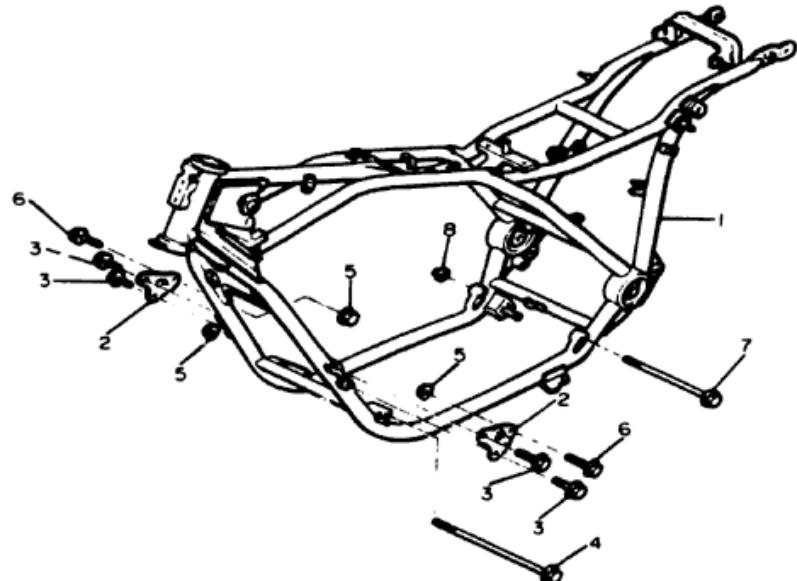


| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-------------------------------|------|
| 1 | 4H7-18101-00-00 | SHIFT SHAFT ASS'Y | 1 |
| 2 | 90506-08227-00 | . SPRING, tension | 1 |
| 3 | 4H7-18140-00-00 | STOPPER LEVER ASS'Y | 1 |
| 4 | 90508-29530-00 | SPRING, torsion (90508-29448) | 1 |
| 5 | 4W5-18120-00-00 | 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 | 4W5-18111-00-00 | PEDAL, shift..... | 1 |
| 12 | 132-18113-01-00 | COVER, shift pedal | 1 |
| 13 | 97316-06020-00 | BOLT | 1 |

FWD

FRAME

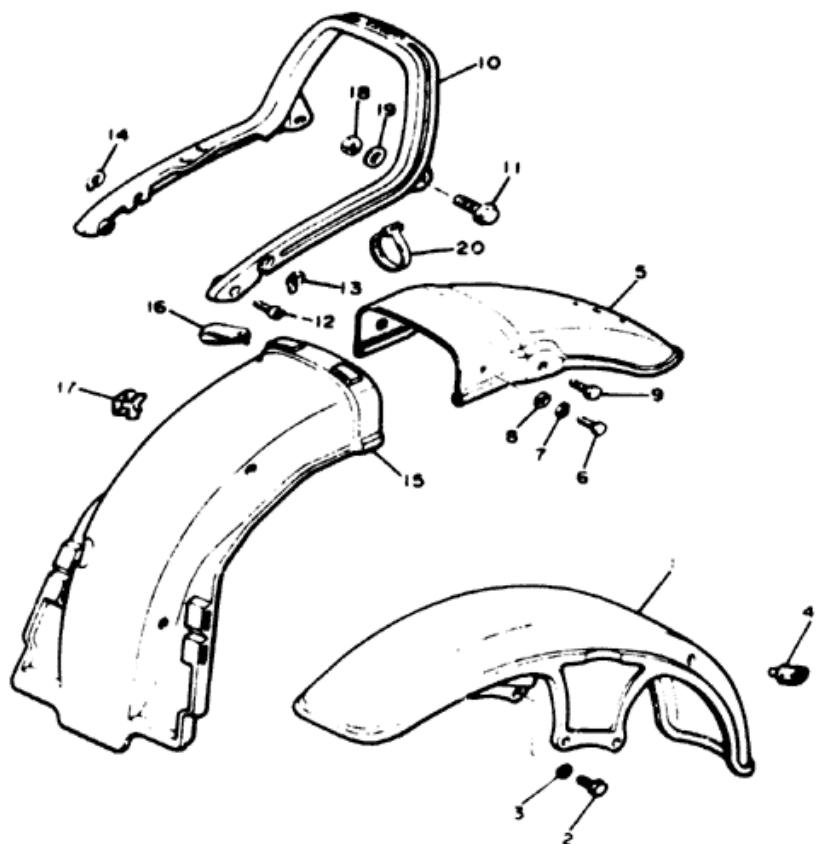
| Ref. No | Part Number | Description | Qty. | Remarks |
|------------|-----------------|--|------|---------------|
| 1 | 99999-01341-00 | FRAME COMP. (4W5-21110-00-98) | 1 | Low Gloss Blk |
| | 4W5-21110-02-98 | FRAME COMP | 1 | |
| | 4H7-2134Y-00-00 | STAY, horn | 1 | |
| | 97306-08016-00 | BOLT | 2 | |
| | 92906-08100-00 | WASHER, spring | 2 | |
| 2 | 4H7-21315-00-00 | STAY, engine 2 | 2 | |
| 3 | 90105-08177-00 | BOLT, washer based..... | 4 | |
| 4 | 90105-10178-00 | BOLT, washer based..... | 1 | |
| 5 | 90179-10321-00 | NUT..... | 3 | |
| 6 | 90105-10179-00 | BOLT, washer based..... | 2 | |
| 7 | 90105-12180-00 | BOLT, washer based..... | 1 | |
| 8 | 90179-12323-00 | NUT..... | 1 | |



| MODEL - IBM I.D. NUMBER | XJ650LH | 4W5 |
|--------------------------------------|-------------------------|-----|
| Initial Engine Number / Frame Number | 4W5-000001 / 4W5-000001 | |
| 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 | |

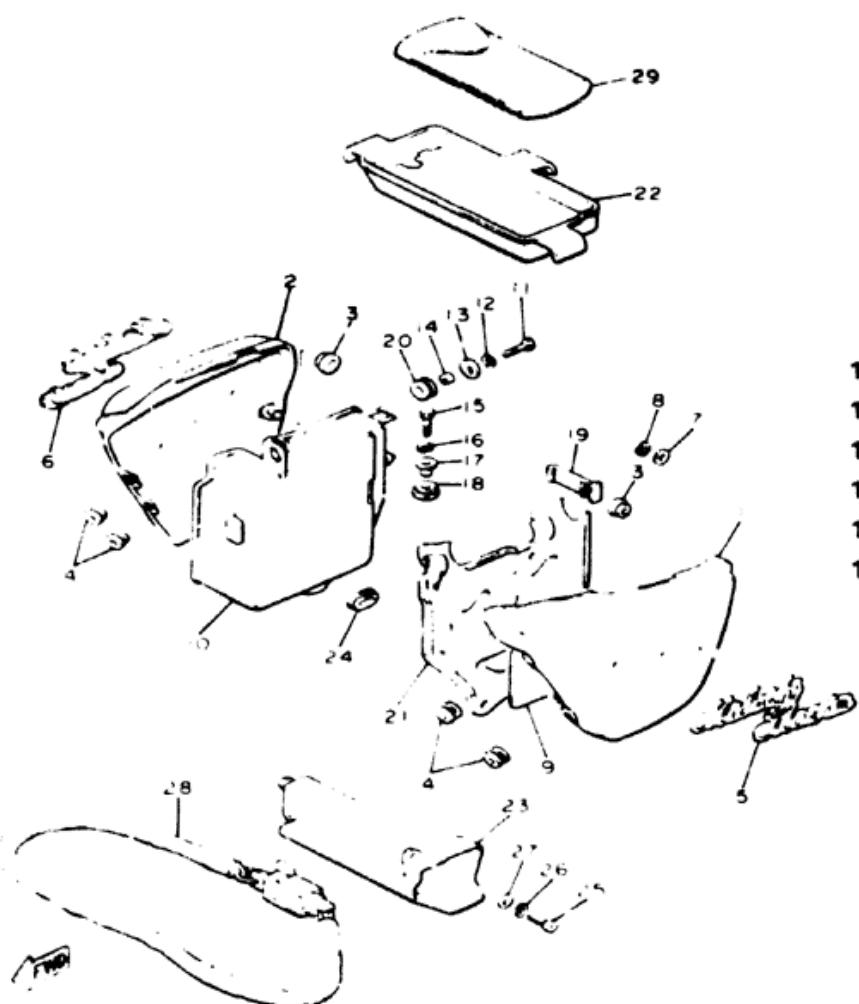
FWD

FRONT FENDER - REAR FENDER



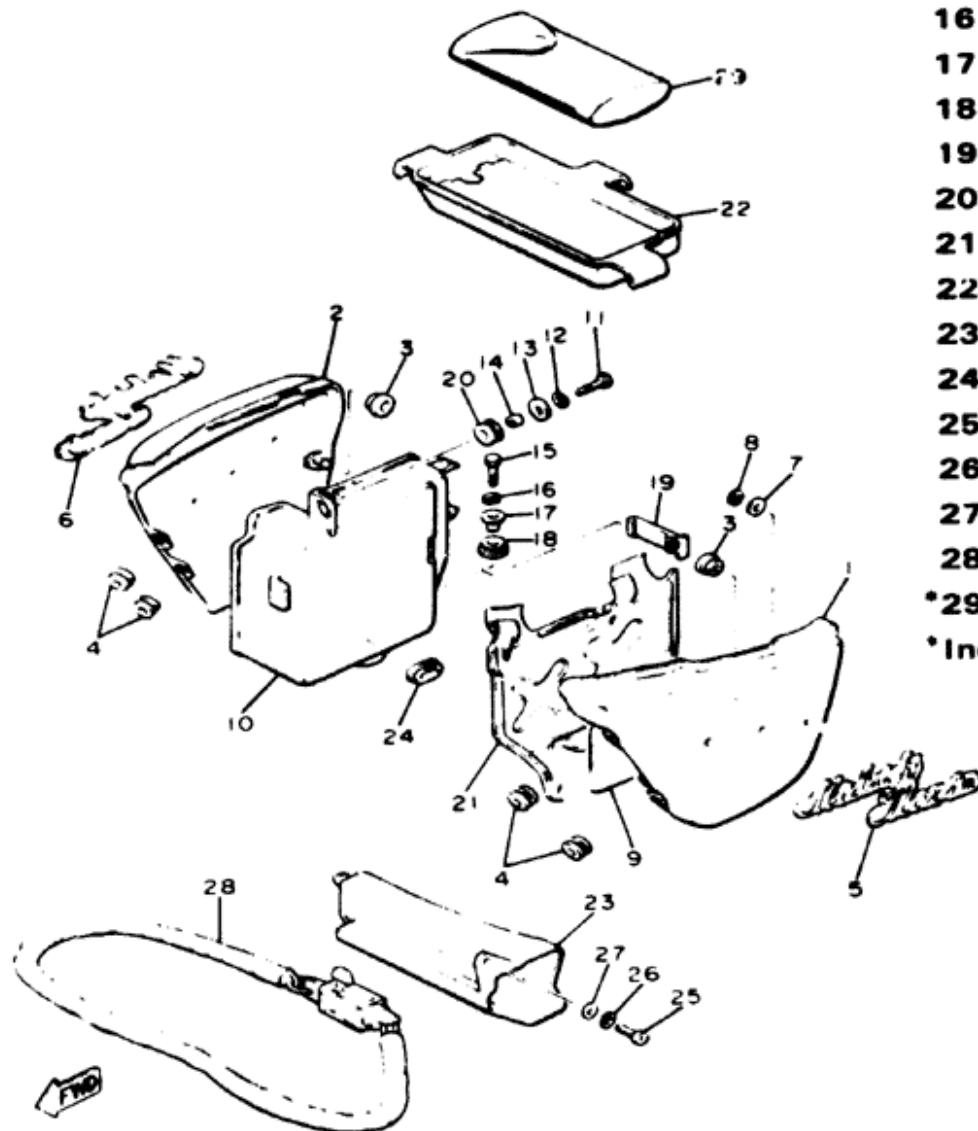
| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|------------------------------|------|----------------|
| 1 | 4H7-21510-01-6G | FRONT FENDER COMP..... | 1 | New Yamaha Blk |
| 2 | 97306-08020-00 | BOLT..... | 4 | |
| 3 | 92906-08100-00 | WASHER, spring..... | 4 | |
| 4 | 1A0-21518-00-00 | HOLDER, cable | 1 | |
| 5 | 4H7-21610-00-6G | REAR FENDER COMP..... | 1 | New Yamaha Blk |
| 6 | 97321-06012-00 | BOLT..... | 2 | |
| 7 | 92903-06100-00 | WASHER, spring (92903-06100) | 2 | |
| 8 | 92901-06600-00 | WASHER, plate..... | 2 | |
| 9 | 97326-10035-00 | BOLT..... | 2 | |
| 10 | 4W5-21645-00-00 | STAY, rear | 1 | |
| 11 | 95821-10025-00 | BOLT, flange..... | 2 | |
| 12 | 91312-08030-00 | BOLT..... | 2 | |
| 13 | 4W5-22243-00-00 | WASHER 1..... | 1 | |
| 14 | 4W5-22244-00-00 | WASHER 2..... | 1 | |
| 15 | 4H7-21629-00-00 | GUARD, mud..... | 1 | |
| 16 | 90464-12027-00 | CLAMP | 1 | |
| 17 | 90464-16021-00 | CLAMP | 1 | |
| 18 | 95380-10600-00 | NUT..... | 2 | |
| 19 | 92903-10200-00 | WASHER (92902-10200) | 2 | |
| 20 | 3L8-83936-00-00 | BAND, switch cord | 1 | |

SIDE COVER - TOOL



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|------------------------------|------|----------------|
| 1 | 4W5-21711-00-6G | COVER, side (L.H) | 1 | New Yamaha Blk |
| 2 | 4W5-21721-00-6G | COVER, side (R.H) | 1 | New Yamaha Blk |
| 3 | 90480-01141-00 | GROMMET..... | 2 | |
| 4 | 90480-12053-00 | GROMMET..... | 4 | |
| 5 | 4W5-21781-00-00 | EMBLEM 1..... | 1 | |
| 6 | 4W5-21782-00-00 | EMBLEM 2..... | 1 | |
| 7 | 90202-04003-00 | WASHER, plate | 6 | |
| 8 | 90183-04005-00 | NUT, spring | 6 | |
| 9 | 4H7-21683-10-00 | PLATE, specification..... | 1 | |
| 10 | 4H7-21240-01-00 | BOX COMP | 1 | |
| 11 | 97321-06025-00 | BOLT..... | 1 | |
| 12 | 92903-06100-00 | WASHER, spring (92902-06100) | 1 | |
| 13 | 90201-06407-00 | WASHER, plate | 1 | |
| 14 | 90387-060A7-00 | COLLAR | 1 | |
| 15 | 97321-08025-00 | BOLT (97322-08025) | 1 | |

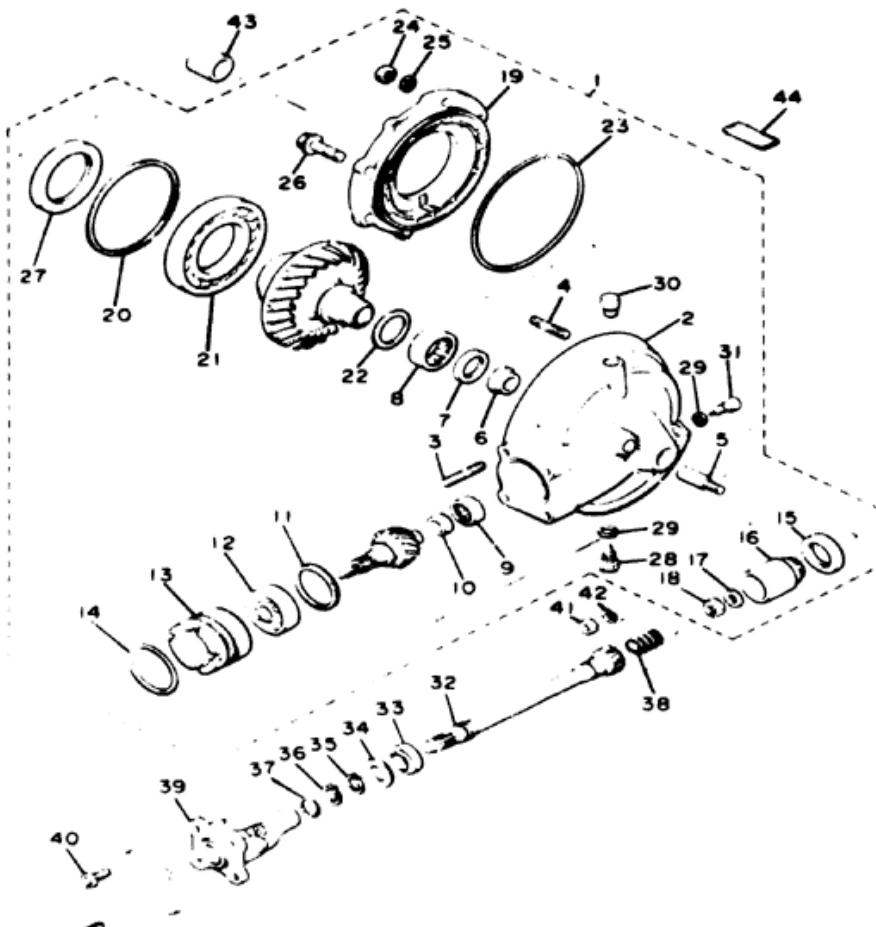
SIDE COVER - TOOL



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|------------------------------|------|
| 16 | 92903-08100-00 | WASHER, spring (92902-08100) | 1 |
| 17 | 90387-09617-00 | COLLAR | 1 |
| 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, panhead (92501-06020) | 1 |
| 26 | 92903-06100-00 | WASHER, spring (92902-06100) | 1 |
| 27 | 90201-06557-00 | WASHER, plate | 1 |
| 28 | 4W5-W2171-00-00 | WHEEL LOCK ASS'Y | 1 |
| *29 | 4H7-28100-00-00 | TOOL KIT (4H7-28100-10)..... | 1 |

*Indicates new part numbers activated from March, 1983.

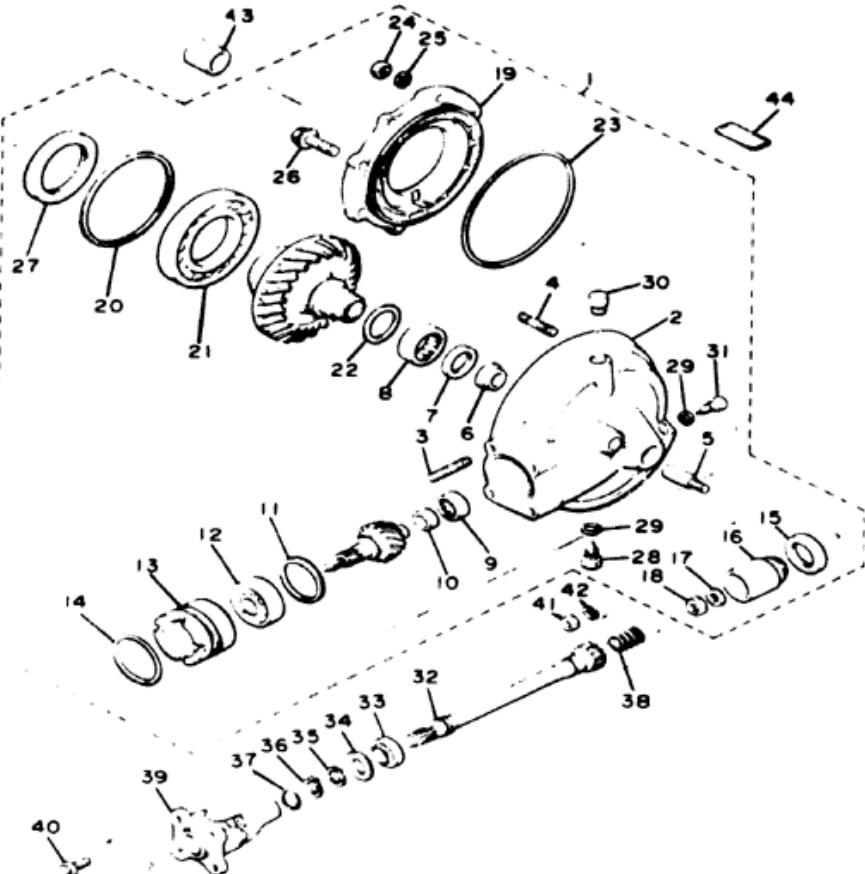
DRIVE SHAFT



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|------------------------------|------|---------|
| 1 | 4W5-46101-00-00 | REAR AXLE GEAR CASE ASS'Y | 1 | |
| 2 | 4W5-46151-00-00 | HOUSING, drive shaft..... | 1 | |
| 3 | 90116-10342-00 | BOLT, stud | 4 | |
| 4 | 90116-08247-00 | . BOLT, stud | 6 | |
| 5 | 90116-10249-00 | . BOLT | 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 | |

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

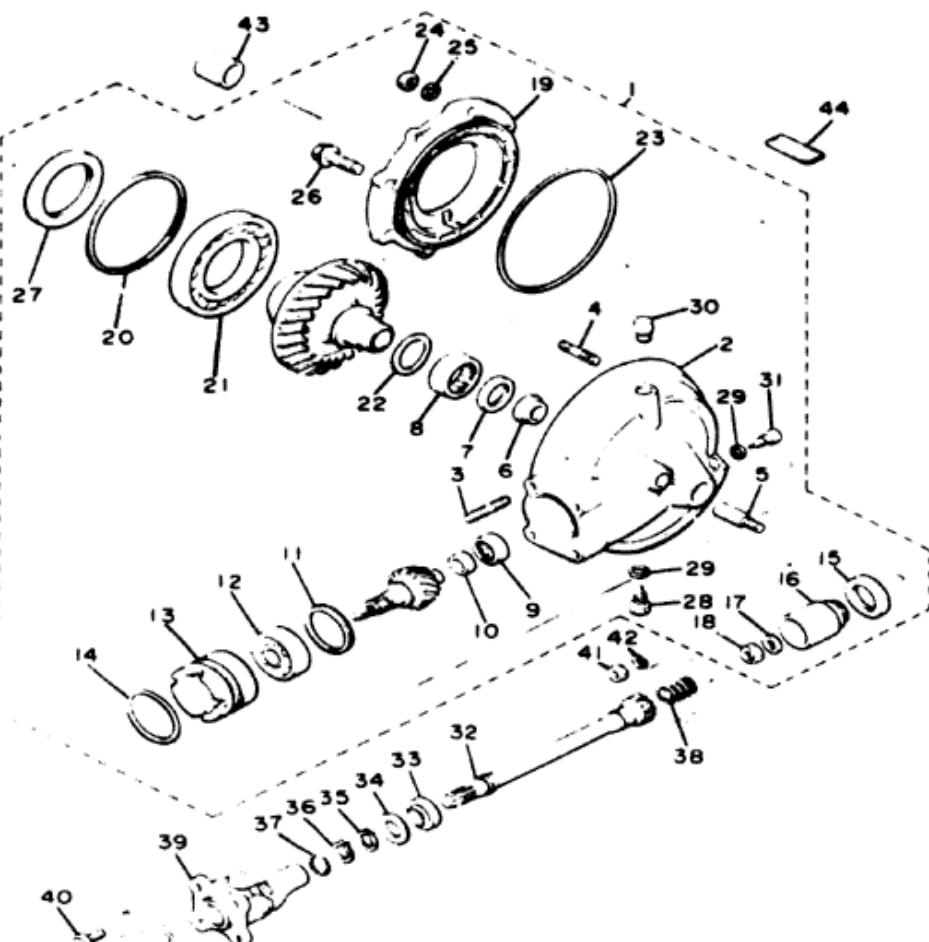
DRIVE SHAFT



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|-------------------------------|------|---------|
| 18 | 90185-14070-00 | NUT, self-locking | 1 | |
| 19 | 4H7-46152-00-00 | HOUSING, bearing..... | 1 | |
| 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 | WASEHR, 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. |
| 23 | 93211-44348-00 | O-RING | 1 | |
| 24 | 95311-08600-00 | NUT | 6 | |

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

DRIVE SHAFT

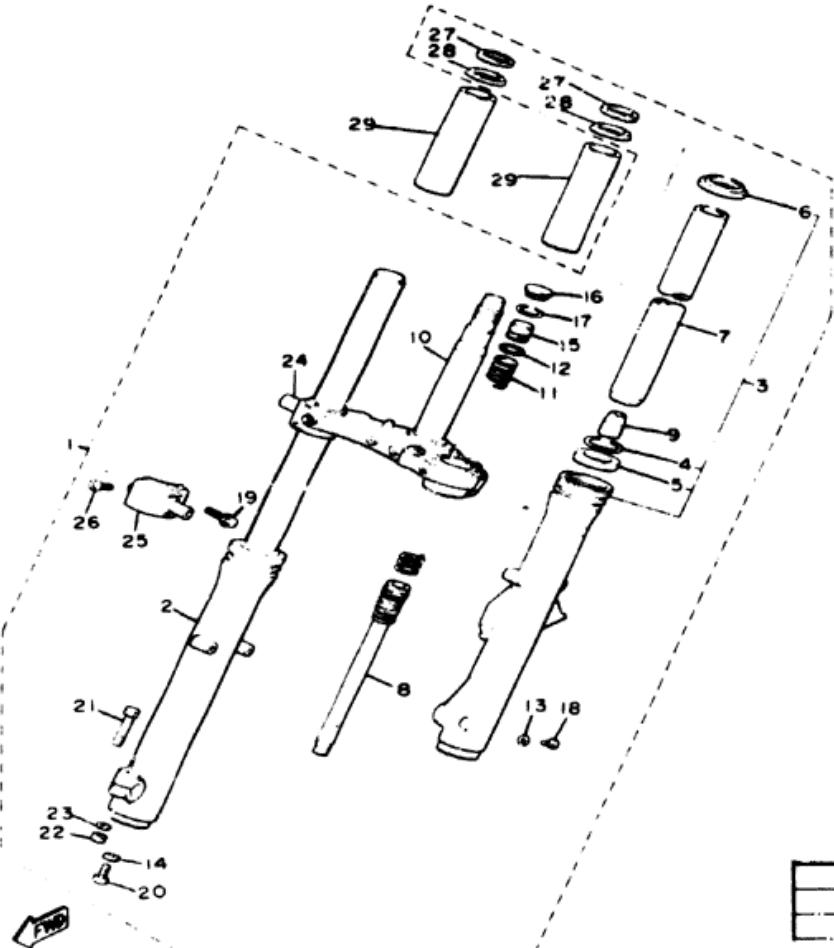


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| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|------------------------------|------|
| 25 | 92901-08700-00 | . WASHER, wave | 6 |
| 26 | 95821-10025-00 | . BOLT, flange | 2 |
| 27 | 93102-70167-00 | . OIL SEAL | 1 |
| 28 | 90340-14063-00 | . PLUG, straight screw | 1 |
| 29 | 214-11198-01-00 | . GASKET | 2 |
| 30 | 4H3-17590-00-00 | . BREATHER COMP | 1 |
| 31 | 90340-14042-00 | . PLUG, straight screw | 1 |
| 32 | 4H7-46172-00-00 | SHAFT, drive | 1 |
| 33 | 93108-23007-00 | OIL SEAL | 1 |
| 34 | 90201-231A2-00 | WASHER, plate | 1 |
| 35 | 93410-23056-00 | CIRCLIP | 1 |
| 36 | 93410-22039-00 | CIRCLIP | 1 |
| 37 | 90468-14067-00 | CLIP | 1 |
| 38 | 90501-16491-00 | SPRING, compression | 1 |
| 39 | 4H7-46180-00-00 | CROSS JOINT COMP | 1 |
| 40 | 90105-08066-00 | BOLT, washer based | 4 |
| 41 | 95316-10600-00 | NUT | 4 |
| 42 | 92906-10100-00 | WASHER, spring | 4 |
| 43 | 90387-172A5-00 | COLLAR | 1 |
| 44 | 4H7-46181-10-00 | LABEL, oil caution | 1 |

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

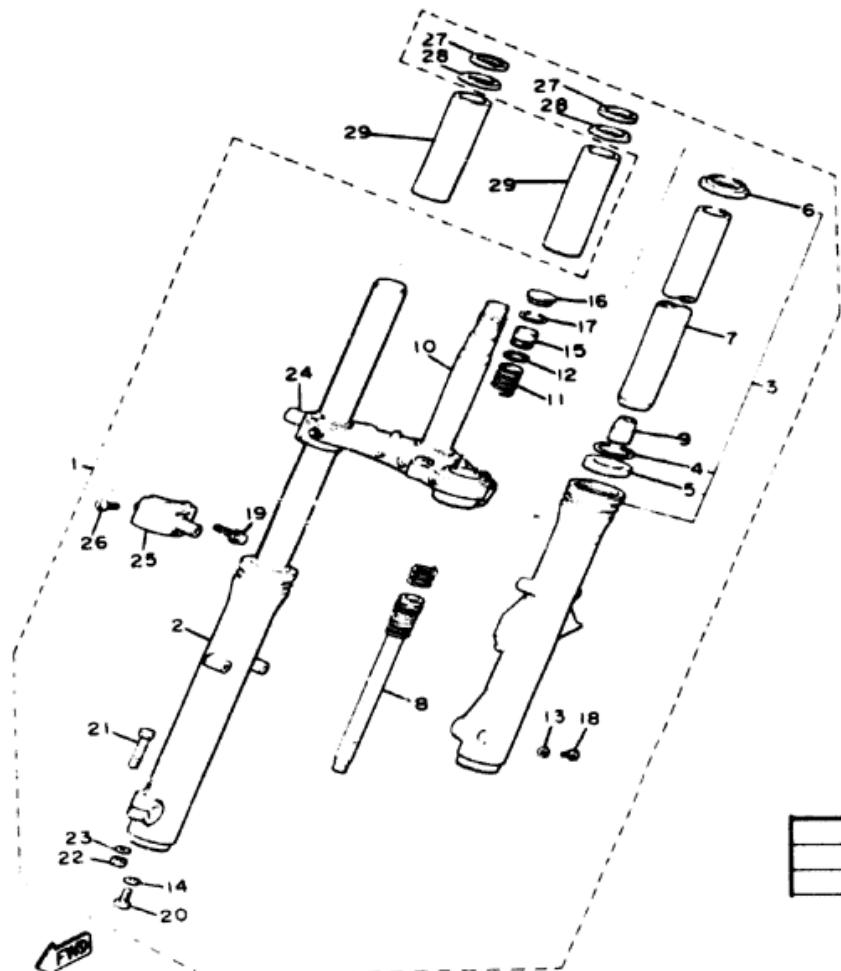
FRONT FORK



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|--------------------------------|------|----------------|
| 1 | 4W5-23101-00-00 | FRONT FORK ASS'Y..... | 1 | |
| 2 | 4W5-23136-00-6G | . TUBE, outer 2..... | 1 | New Yamaha Blk |
| 3 | 4W5-23126-00-6G | . TUBE, outer 1..... | 1 | New Yamaha Blk |
| 4 | 4A1-23156-00-00 | . . CLIP, oil seal | 2 | |
| 5 | 3J2-23145-00-00 | . . OIL SEAL | 2 | |
| 6 | 15R-23144-00-00 | . . SEAL, dust (4H7-23144-00) | 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 | |
| 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 | |

| | |
|-------------------------------------|------------------------------|
| Front Forks. Oil Type / Level / Qty | 10 Wt. Fork Oil* / Ø / 262cc |
| Gas Pressure | Ø |
| Spring Length Std | 606mm |

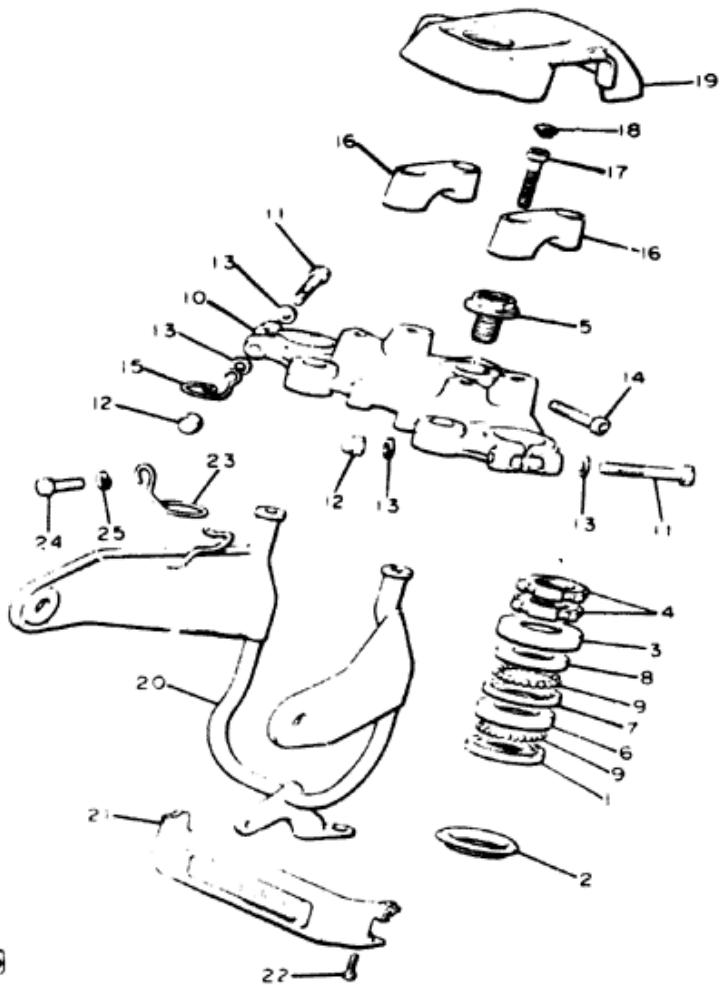
FRONT FORK



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|-------------------------------|------|----------------|
| 17 | 3J2-23183-00-00 | CIRCLIP..... | 2 | |
| 18 | 4W5-23119-00-00 | PLUG, drain..... | 2 | |
| 19 | 90116-08012-00 | BOLT, stud | 4 | |
| 20 | 278-23181-50-00 | BOLT, hexagon socket head ... | 2 | |
| 21 | 97326-08045-00 | BOLT | 1 | |
| 22 | 95316-08600-00 | NUT | 1 | |
| 23 | 92906-08100-00 | WASHER, spring | 1 | |
| 24 | 4W5-23132-00-6G | COVER, outer 2 | 1 | New Yamaha Blk |
| 25 | 4W5-23122-00-6G | COVER, outer 1 | 1 | New Yamaha Blk |
| 26 | 4H7-23181-00-00 | BOLT, hexagon socket head ... | 2 | |
| 27 | 1T3-23163-50-00 | GASKET..... | 2 | |
| 28 | 4W5-23115-00-00 | GUIDE, cover upper..... | 2 | |
| 29 | 4W5-23131-00-6G | COVER, upper 2..... | 2 | New Yamaha Blk |

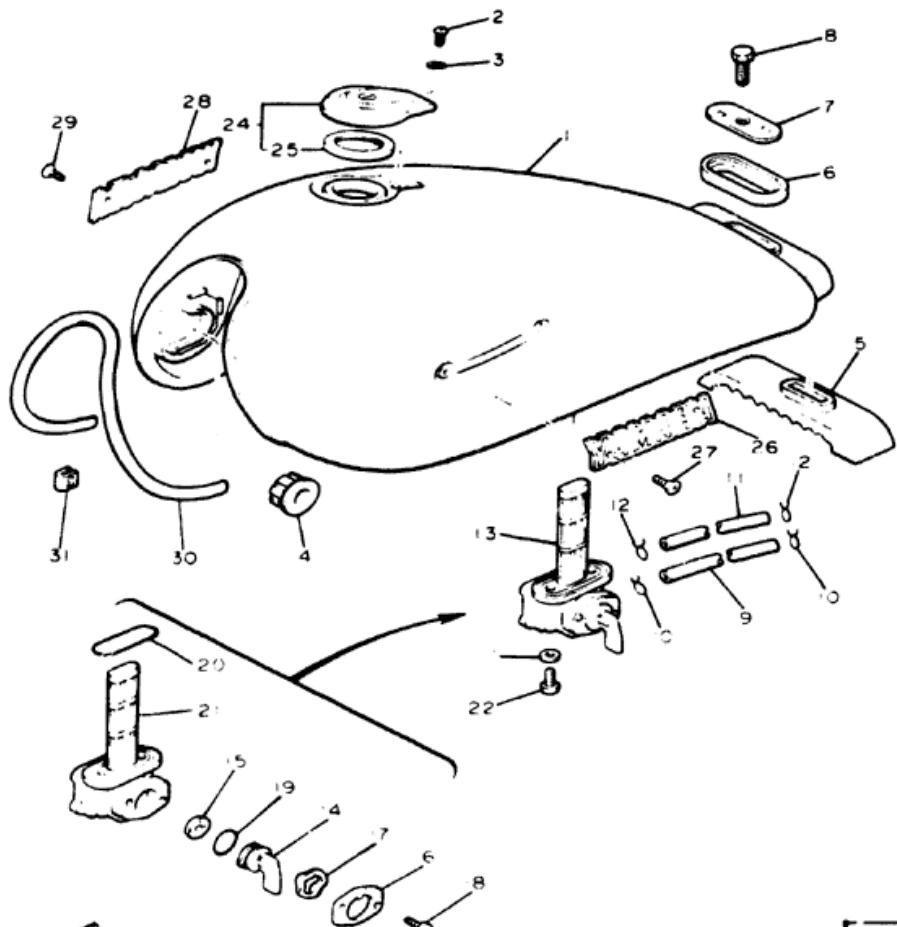
| | |
|-------------------------------------|--|
| Front Forks: Oil Type / Level / Qty | 10 Wt. Fork Oil [®] / Ø / 262cc |
| Gas Pressure | Ø |
| Spring Length Std | 605mm |

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 | 4W5-23435-00-00 | CROWN, handle | 1 | |
| 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 | Low Gloss Blk |
| 17 | 91316-08030-00 | BOLT | 4 | |
| 18 | 341-23469-00-00 | CAP, bolt | 4 | |
| 19 | 4H7-26213-00-00 | COVER, upper | 1 | |
| 20 | 4W5-23174-00-00 | STAY, headlight..... | 1 | |
| 21 | 4W5-23395-00-00 | EMBLEM | 1 | |
| 22 | 98606-05012-00 | SCREW, oval head | 2 | |
| 23 | 4H3-23318-00-00 | HOLDER, cable 1..... | 1 | |
| 24 | 97306-06012-00 | BOLT | 1 | |
| 25 | 92906-06100-00 | WASHER, spring | 1 | |

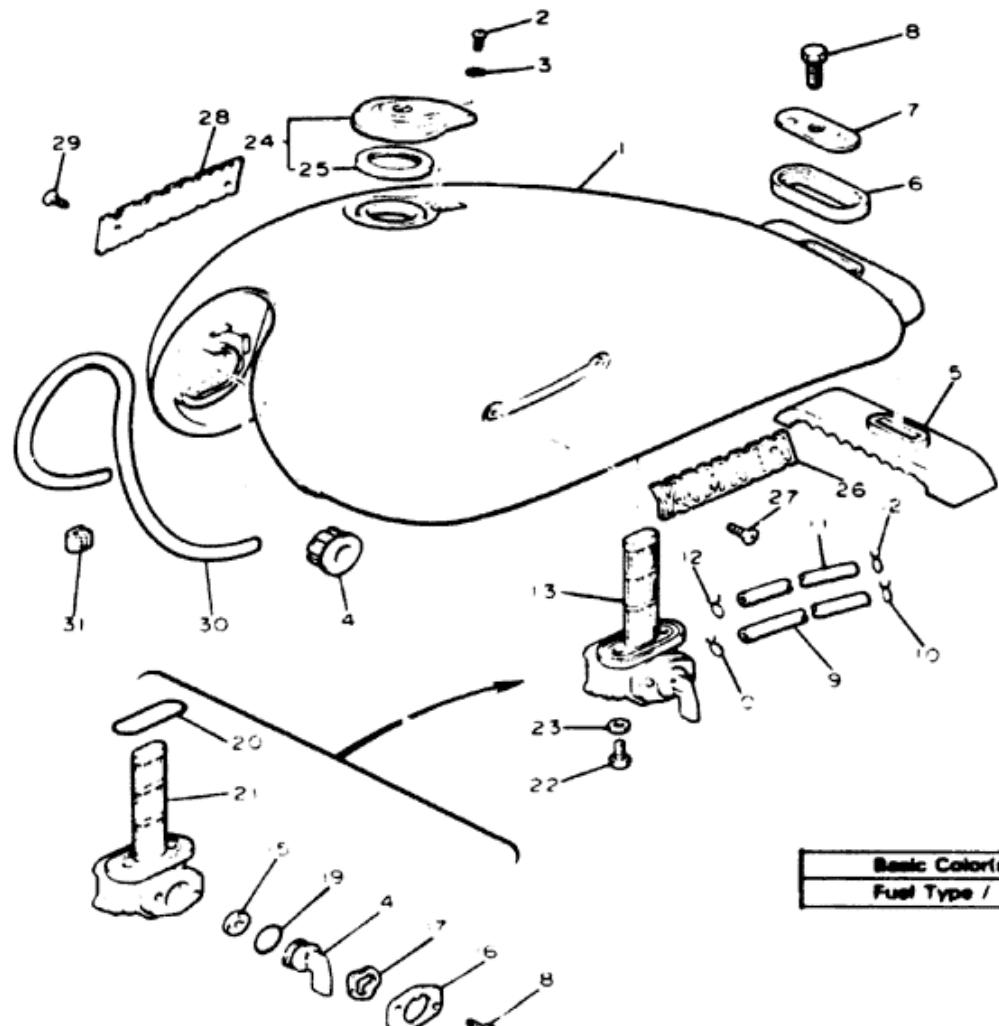
FUEL TANK



| Ref. No. | Part Number | Description | Qty | Remarks |
|-------------|-----------------|------------------------------|-----|----------------|
| 1 | 4H7-24110-00-6G | FUEL TANK COMP..... | 1 | New Yamaha Blk |
| 2 | 98501-05010-00 | SCREW, panhead (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 | 90467-10041-00 | CLIP | 2 | |
| 11 | 90445-09500-00 | HOSE | 1 | |
| 12 | 90467-08040-00 | CLIP | 2 | |
| 13 | 4W5-24500-01-00 | FUEL COCK ASS'Y 1 | 1 | |
| 14 | 4W5-24524-00-00 | . LEVER, cock | 1 | |
| 15 | 3H3-24523-00-00 | . VALVE | 1 | |
| 16 | 4W5-24525-00-00 | . PLATE, lever fitting | 1 | |
| 17 | 3H3-24518-00-00 | . WASHER, wave | 1 | |
| 18 | 98506-03008-00 | . 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 | |

| | |
|---|--|
| Basic Color(s) | New Yamaha Black |
| Fuel Type / Fuel Tank Capacity / Reserve Capacity | Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.) |

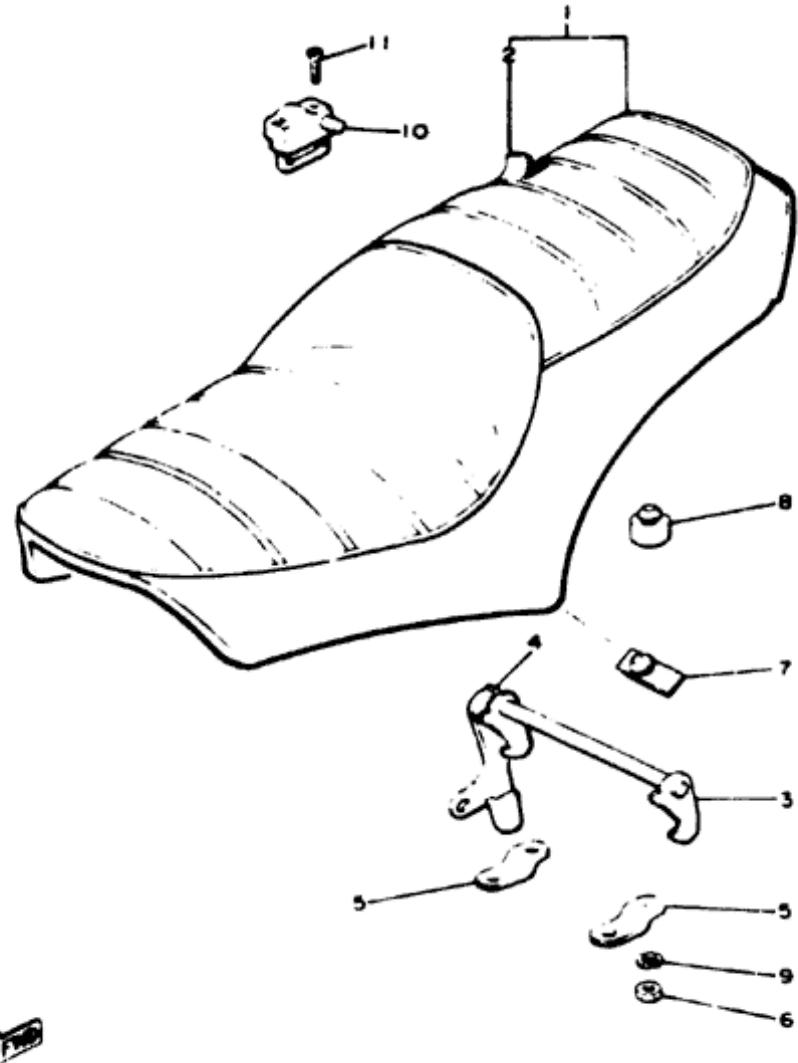
FUEL TANK



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|--------------------------|------|
| 22 | 90157-06018-00 | SCREW, pan head..... | 2 |
| 23 | 90202-06010-00 | WASHER, plate..... | 2 |
| 24 | 4W5-24602-01-00 | CAP ASS'Y..... | 1 |
| 25 | 4H7-24612-00-00 | . GASKET, cap | 1 |
| 26 | 4W5-24161-00-00 | EMBLEM 1..... | 1 |
| 27 | 90152-04006-00 | SCREW, countersunk | 2 |
| 28 | 4W5-24162-00-00 | EMBLEM 2..... | 1 |
| 29 | 90152-04006-00 | SCREW, countersunk | 2 |
| 30 | 4W5-24189-00-00 | PLATE, mold..... | 1 |
| 31 | 90468-03107-00 | CLIP | 5 |

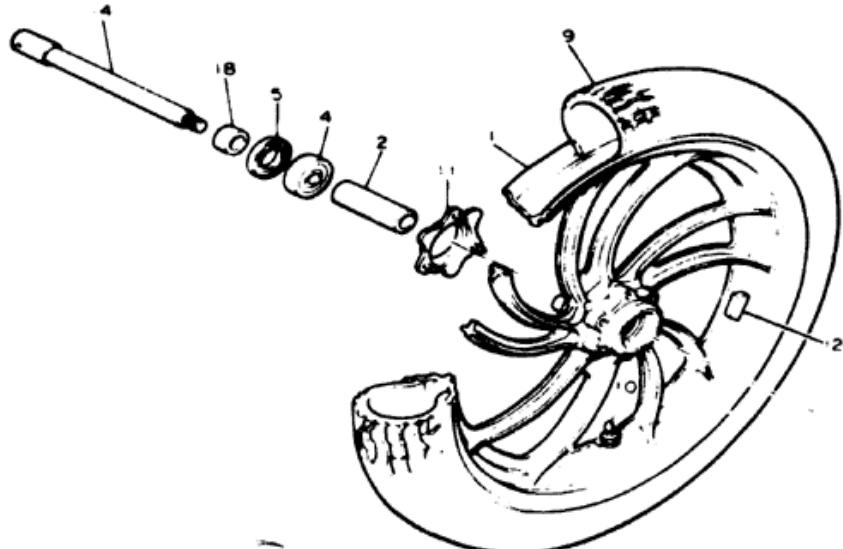
| | |
|---|--|
| Basic Color(s) | New Yamaha Black |
| Fuel Type / Fuel Tank Capacity / Reserve Capacity | Regular / 13 Lit. (3.4 Gal.) / 3.4 Lit. (0.9 Gal.) |

SEAT



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|------------------------------|------|
| 1 | 4W5-W2472-00-00 | DOUBLE SEAT ASS'Y..... | 1 |
| 2 | 4W5-24731-00-00 | . 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 | STOPPER, main stand | 2 |
| 9 | 92903-06100-00 | WASHER, spring (92902-06100) | 4 |
| 10 | 4W5-24705-00-00 | SEAT LOCK ASS'Y | 1 |
| 11 | 98701-04016-00 | SCREW, flat head | 2 |

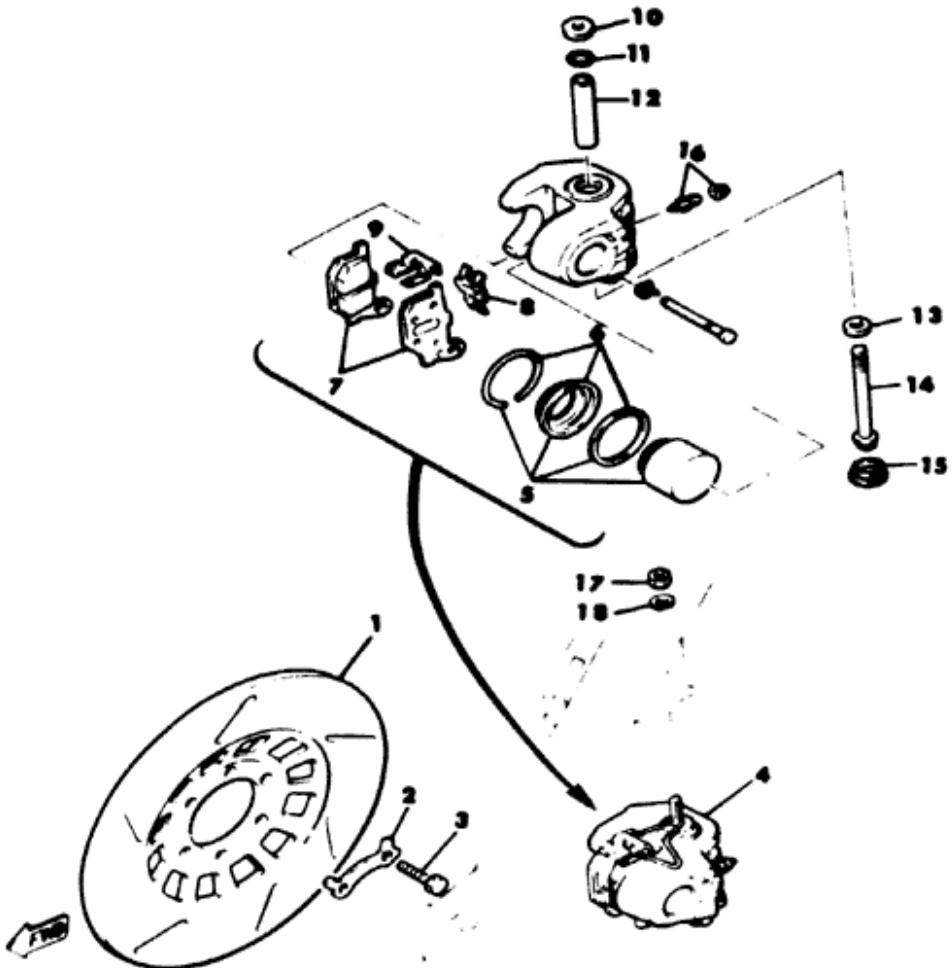
FRONT WHEEL



| Ref. No. | Part Number | Description | Qty. | Remarks |
|----------|-----------------|----------------------------|------|--------------|
| 1 | 4H7-25168-20-BL | CAST WHEEL, front | 1 | Nebular Gold |
| 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 | CLUTCH, meter..... | 1 | |
| 7 | 341-25846-00-00 | RETAINER, clutch..... | 1 | |
| 8 | 93105-45017-00 | OIL SEAL | 1 | |
| 9 | 94132-19428-00 | TIRE (3.25-19)..... | 1 | |
| 10 | 93900-00001-00 | VALVE, rim..... | 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..... | 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 | |

| | |
|------------------------------|--|
| Tire Size (Nominal Pressure) | F 3.25H19 (1.8 kg/cm ² 28 psi R 130/95 10 67H (2.8 kg/cm ² 28 psi) |
| Front Axle Nut | 14 x 1.5 10.0 m kg |
| Front Axle Holder Nut | 8 x 1.25 2.0 m kg |

FRONT BRAKE - CALIPER



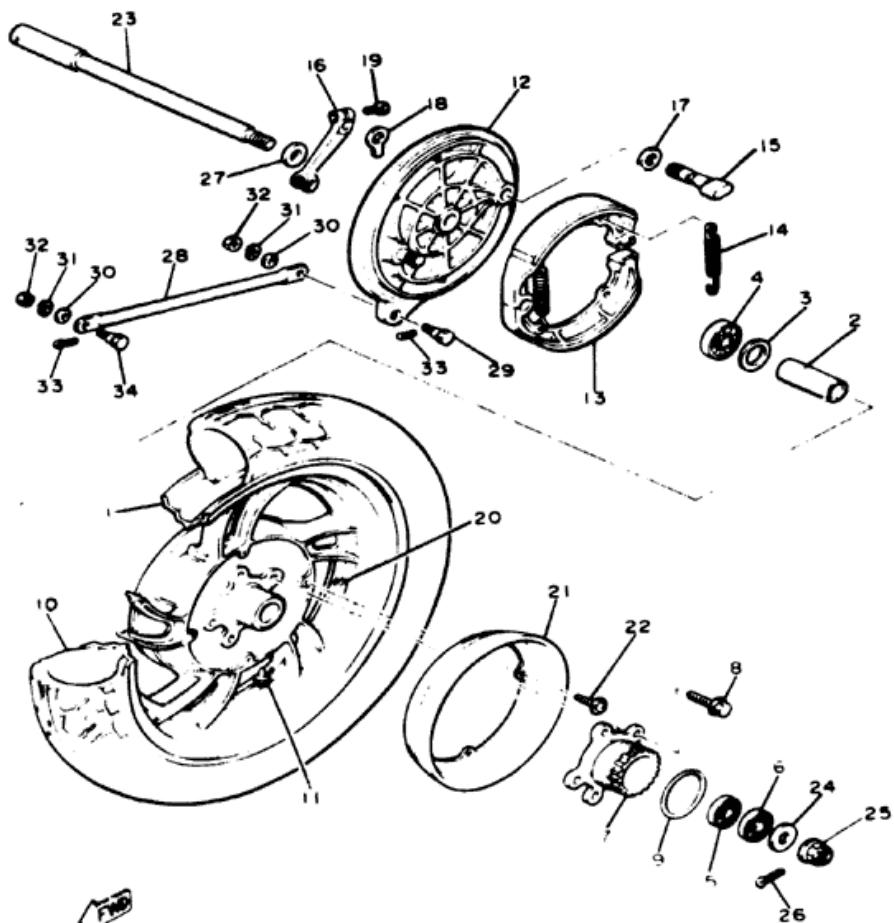
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-----------------------------|------|
| 1 | 4H3-25831-10-00 | DISC, brake | 1 |
| 2 | 1J3-25834-01-00 | WASHER, lock..... | 3 |
| 3 | 90101-08312-00 | BOLT..... | 6 |
| 4 | 4W5-25810-10-00 | CALIPER ASS'Y (left) | 1 |
| 5 | 2G2-W0057-00-00 | . PISTON SEAL KIT | 1 |
| 6 | 2G2-W0047-00-00 | . CALIPER SEAL KIT..... | 1 |
| 7 | 4W5-W0045-00-00 | . BRAKE PAD KIT, front..... | 1 |
| 8 | 2G2-25919-00-00 | . PAD SPRING, caliper..... | 1 |
| 9 | 2G2-25849-01-00 | . RETAINER, caliper..... | 1 |
| 10 | 90201-086A5-00 | . WASHER, plate | 1 |
| 11 | 2G2-W0044-00-00 | . O-RING KIT caliper..... | 1 |
| 12 | 2G2-25838-00-00 | . SLEEVE, caliper | 1 |
| 13 | 90201-09690-00 | . WASHER, plate | 1 |
| 14 | 4W5-25821-00-00 | . BOLT 1..... | 1 |
| 15 | 2G2-25916-00-00 | . CAP, pivot bolt | 1 |
| 16 | 4W5-W0048-00-00 | . BREED SCREW KIT..... | 1 |
| 17 | 95336-08600-00 | NUT..... | 1 |
| 18 | 92906-08100-00 | WASHER, spring | 1 |

Minimum Brake Lining Thickness

Front: 1.2mm

Rear: 2mm

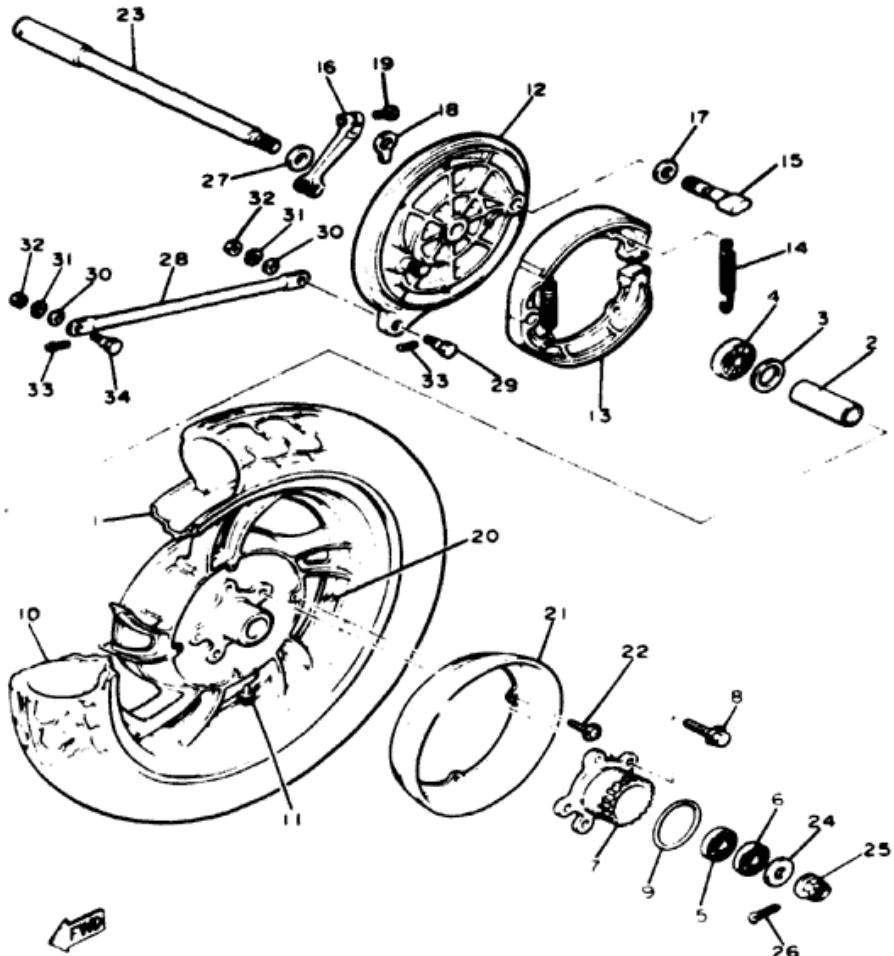
REAR WHEEL



| Ref. No. | Part Number | Description | Qty. | Remarks |
|----------|-----------------|------------------------------|------|--------------|
| 1 | 4H7-25338-20-8L | CAST WHEEL, rear | 1 | Nebular Gold |
| 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 | 94113-16425-00 | TIRE | 1 | |
| 11 | 93900-00001-00 | VALVE, rim..... | 1 | |
| 12 | 4W5-25321-00-00 | PLATE, brake shoe | 1 | |
| 13 | 4H7-25330-01-00 | BRAKE SHOE COMP | 2 | |
| 14 | 90507-20002-00 | SPRING, tension..... | 2 | |
| 15 | 4W5-25351-00-00 | CAMSHAFT | 1 | |
| 16 | 4W5-25355-00-00 | LEVER, camshaft..... | 1 | |
| 17 | 90201-14577-00 | WASHER, plate..... | 1 | |
| 18 | 4H7-2533A-02-00 | PLATE, indicator | 1 | |
| 19 | 90101-06495-00 | BOLT | 1 | |

| | | |
|--------------------------------|--|--|
| Minimum Brake Lining Thickness | Front: 1.2mm | Rear: 2mm |
| Tire Size (Nominal Pressure) | F:1.25H18 1.8 kg/cm ² /28 psi | R:135/85-16 87H 2.8 kg/cm ² /28 psi |
| Rear Axle Nut | 14 x 1.5 | 10 m-kg |
| Rear Axle Pinch Bolt | 8 x 1.25 | 0.6 m-kg |

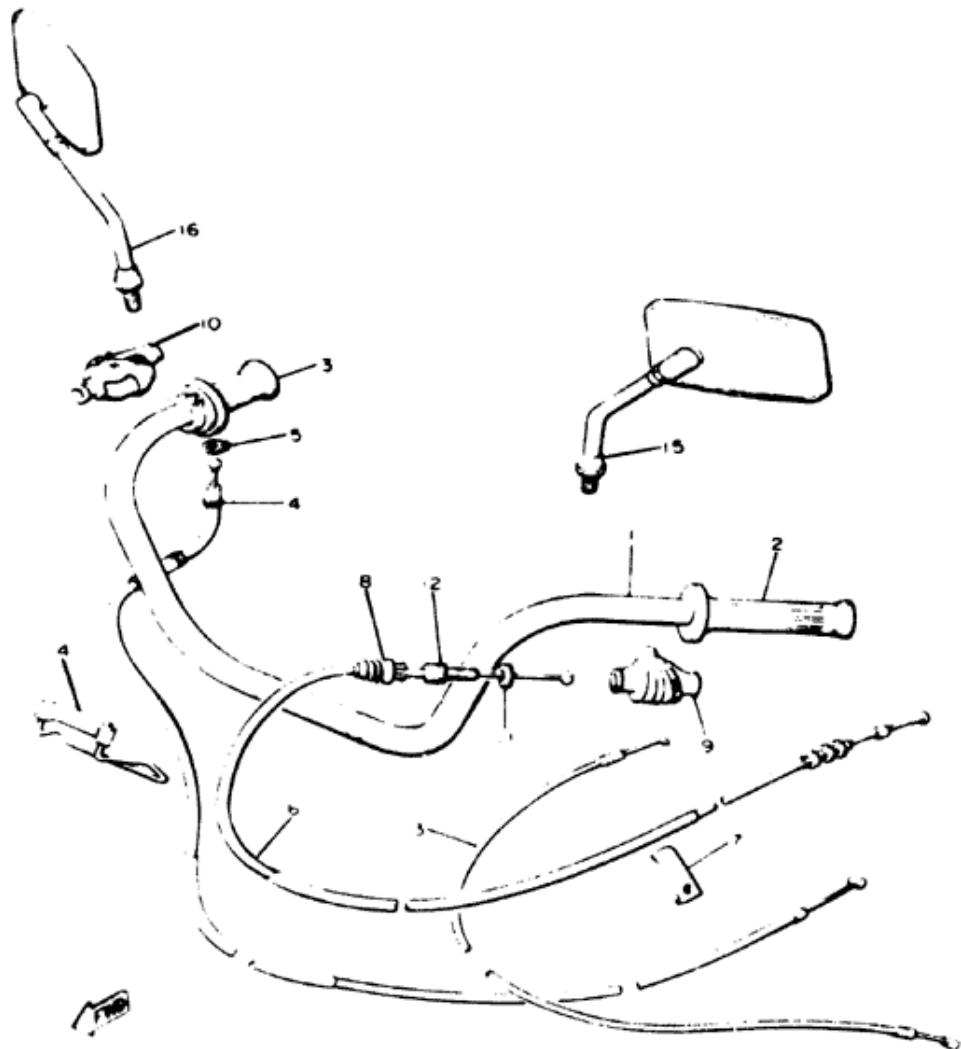
REAR WHEEL



| 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 | 4W5-25327-00-00 | 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 | 91401-20015-00 | PIN, cotter (91401-20012) | 2 | |
| 34 | 90109-08368-00 | BOLT | 1 | |

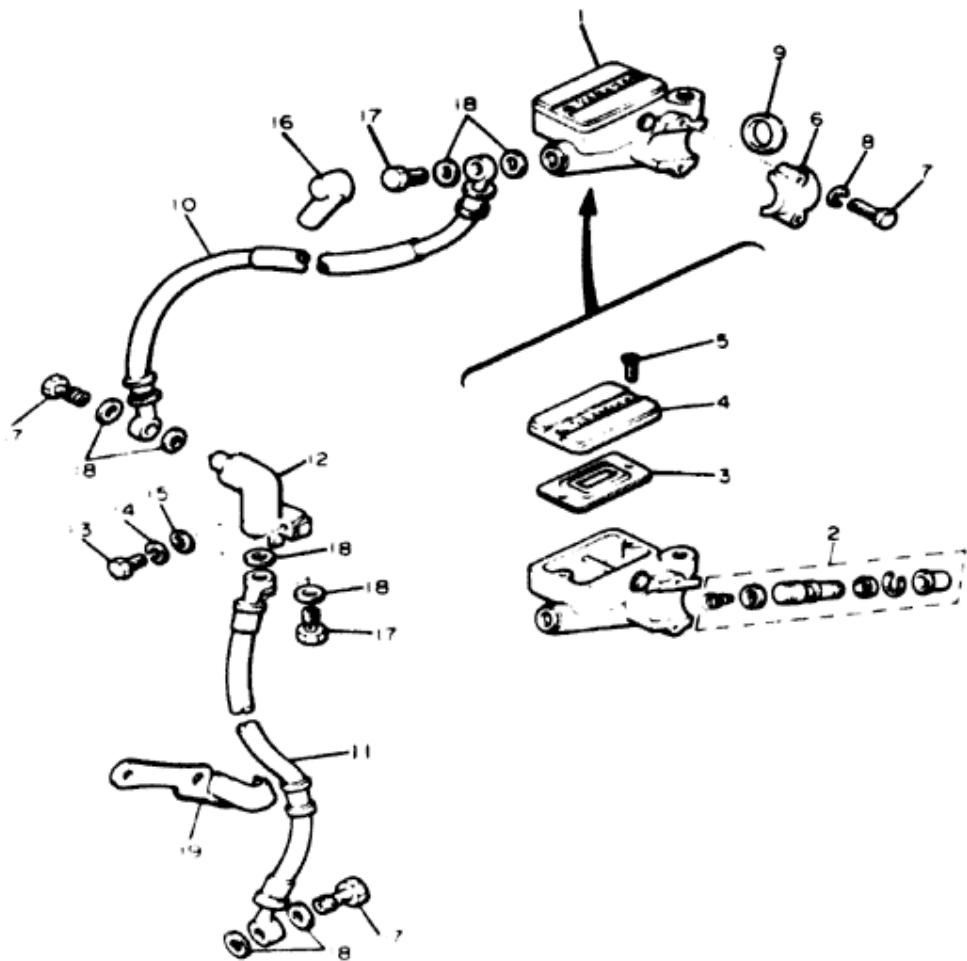
| | | |
|--------------------------------|--|--|
| Minimum Brake Lining Thickness | Front: 1.2mm | Rear: 2mm |
| Tire Size (Nominal Pressure) | F 3.25H19 (1.8 kg/cm ² /28 psi) | R 130/80-16 87H (2.8 kg/cm ² /28 psi) |
| Rear Axle Nut | 14 x 1.5 10 m-kg | |
| Rear Axle Pinch Bolt | 8 x 1.25 0.6 m-kg | |

HANDLEBAR - CABLE



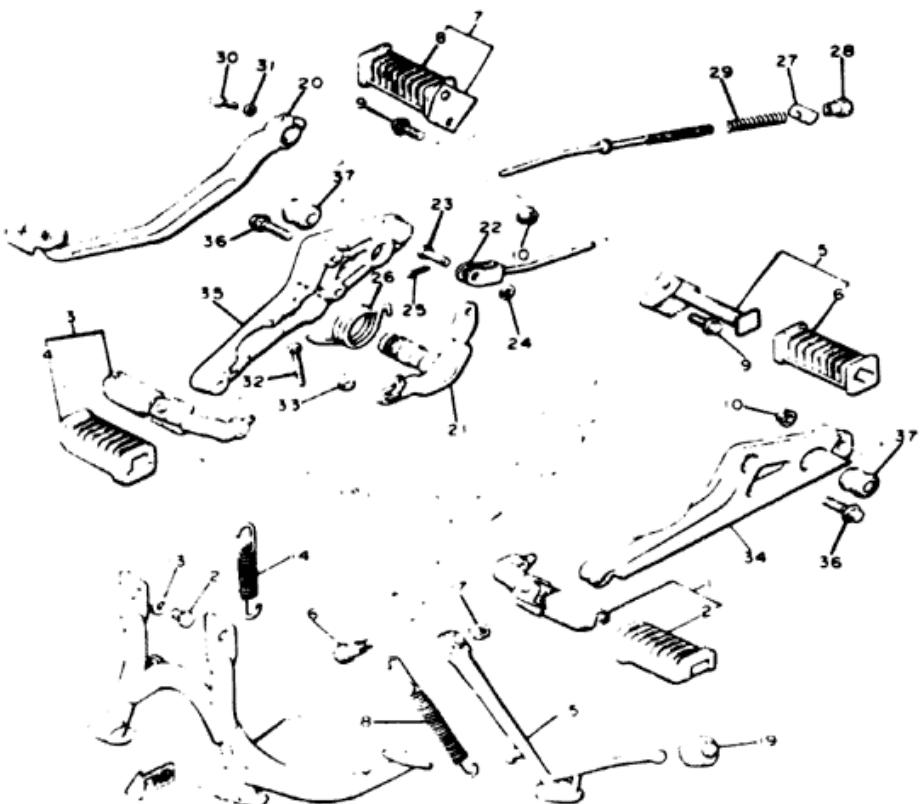
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|---------------------------|------|
| 1 | 4W5-26111-00-00 | HANDLEBAR | 1 |
| 2 | 2H7-26241-00-00 | GRIP (L.H) | 1 |
| 3 | 2H7-26240-00-00 | GRIP ASS'Y | 1 |
| 4 | 4W5-26311-00-00 | CABLE, throttle 1..... | 1 |
| 5 | 584-26393-02-00 | HOLDER | 1 |
| 6 | 4W5-26335-00-00 | 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 | 4W5-26331-00-00 | CABLE, starter 1 | 1 |
| 14 | 1J7-26399-00-00 | GUIDE, cable | 1 |
| 15 | 4W5-26290-10-00 | MIRROR ASS'Y | 1 |
| 16 | 4W5-26290-00-00 | MIRROR ASS'Y | 1 |

FRONT MASTER CYLINDER



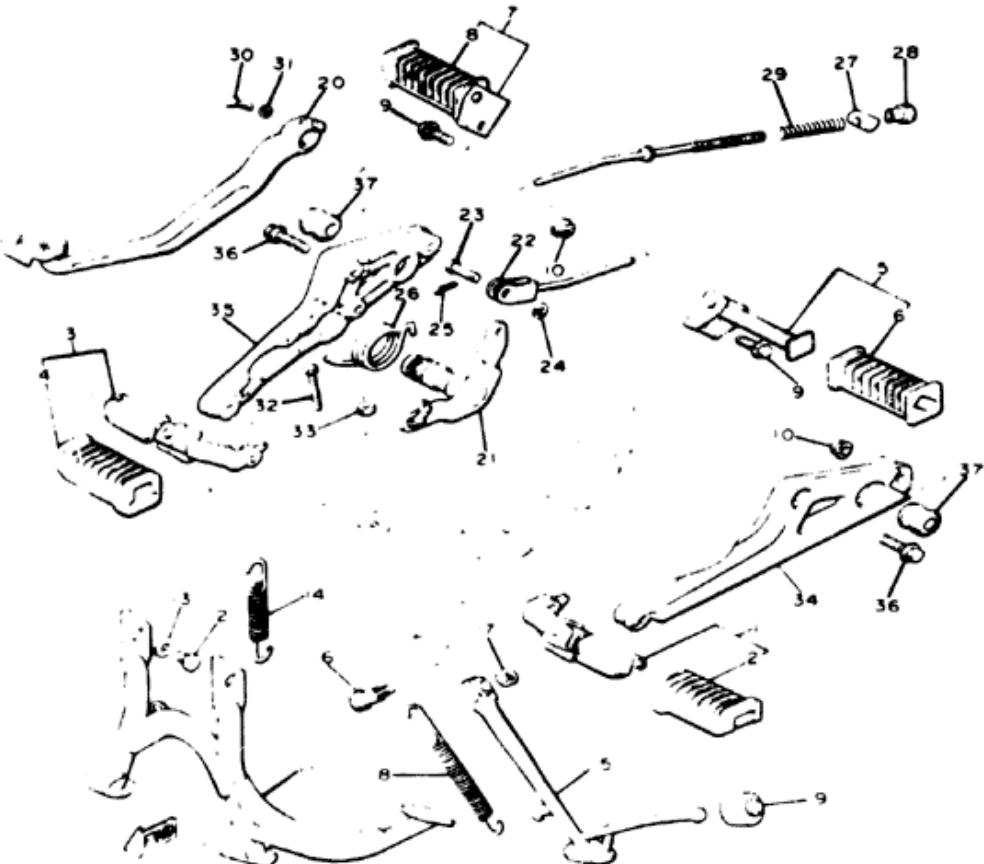
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|--|------|
| 1 | 4H7-25850-01-00 | MASTER CYLINDER ASS'Y (4H7-258501-01) | 1 |
| 2 | 4H7-W0041-00-00 | CYLINDER KIT, master | 1 |
| 3 | 4LO-25854-00-00 | DIAPHRAGM, reservoir | 1 |
| 4 | 4LO-25852-00-00 | CAP, reservoir | 1 |
| 5 | 98706-04010-00 | SCREW, flat head | 2 |
| 6 | 4LO-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 | 97306-06025-00 | BOLT | 1 |
| 14 | 92906-06100-00 | WASHER, spring | 1 |
| 15 | 92906-06600-00 | WASHER, plate | 1 |
| 16 | 306-25862-00-00 | BOOT, master cylinder | 1 |
| 17 | 4H3-25877-00-00 | BOLT, oil 1 | 4 |
| 18 | 90201-10118-00 | WASHR, plate | 8 |
| 19 | 4W5-25876-00-00 | HOLDER, brake hose 2 | 1 |

STAND - FOOTREST



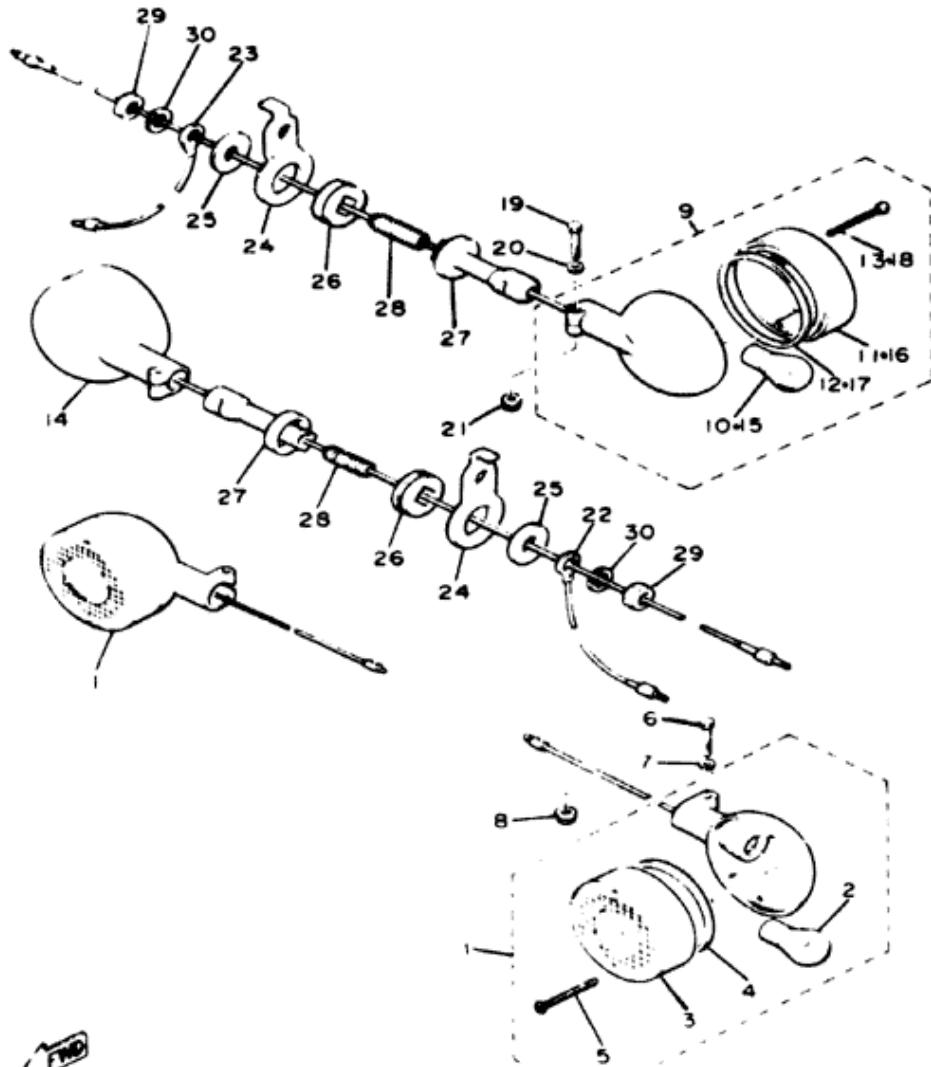
| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|-----------------------------|------|---------|
| 1 | 4W5-27410-00-00 | FRONT FOOTREST ASS'Y (L.H) | 1 | |
| 2 | 1J7-27413-01-00 | . COVER, footrest..... | 1 | |
| 3 | 4W5-27420-00-00 | FRONT FOOTREST ASS'Y (R.H) | 1 | |
| 4 | 1J7-27413-01-00 | . COVER, footrest..... | 1 | |
| 5 | 4W5-27430-00-00 | REAR FOOTREST ASS'Y 1 | 1 | |
| 6 | 1J7-27433-00-00 | . COVER, rear footrest..... | 1 | |
| 7 | 4W5-27440-00-00 | REAR FOOTREST ASS'Y 2 | 1 | |
| 8 | 1J7-27444-00-00 | . COVER, rear footrest..... | 1 | |
| 9 | 95826-10035-00 | BOLT, flange..... | 2 | |
| 10 | 90179-10321-00 | NUT..... | 2 | |
| 11 | 4H7-27111 00-R4 | STAND, main..... | 1 | Black |
| 12 | 97306-10016-00 | BOLT..... | 2 | |
| 13 | 90201-104A6-00 | WASHER, plate..... | 2 | |
| 14 | 90506-35149-00 | SPRING, tension..... | 1 | |
| 15 | 4H7-27311-01-R4 | STAND, side..... | 1 | Black |
| 16 | 90109-10590-00 | BOLT..... | 1 | |
| 17 | 95306-10700-00 | NUT..... | 1 | |
| 18 | 90506-28146-00 | SPRING, tension..... | 1 | |
| 19 | 1A0-27114-00-00 | STOPPER, main stand | 1 | |

STAND - FOOTREST



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|--------------------------------|------|
| 20 | 4W5-27211-00-00 | PEDAL, brake..... | 1 |
| 21 | 4W5-27212-00-00 | SHAFT, brake pedal | 1 |
| 22 | 4W5-27231-00-00 | ROD, brake..... | 1 |
| 23 | 90240-06079-00 | PIN, clevis | 1 |
| 24 | 92906-06200-00 | WASHER, plain | 1 |
| 25 | 91401-20015-00 | PIN, cotter (91401-20012)..... | 1 |
| 26 | 90501-10609-00 | SPRING, compression | 1 |
| 27 | 90249-12143-00 | PIN | 1 |
| 28 | 90179-06324-00 | NUT..... | 1 |
| 29 | 90508-45446-00 | SPRING, torsion | 1 |
| 30 | 90101-06494-00 | BOLT..... | 1 |
| 31 | 92906-06100-00 | WASHER, spring..... | 1 |
| 32 | 90153-06031-00 | SCREW, hexagon | 1 |
| 33 | 90170-06273-00 | NUT..... | 1 |
| 34 | 4W5-27442-00-00 | BRACKET 2 | 1 |
| 35 | 4W5-27443-00-00 | BRACKET 3 | 1 |
| 36 | 95826-10030-00 | BOLT, flange..... | 3 |
| 37 | 3H3-27414-00-00 | DAMPER, footrest..... | 2 |

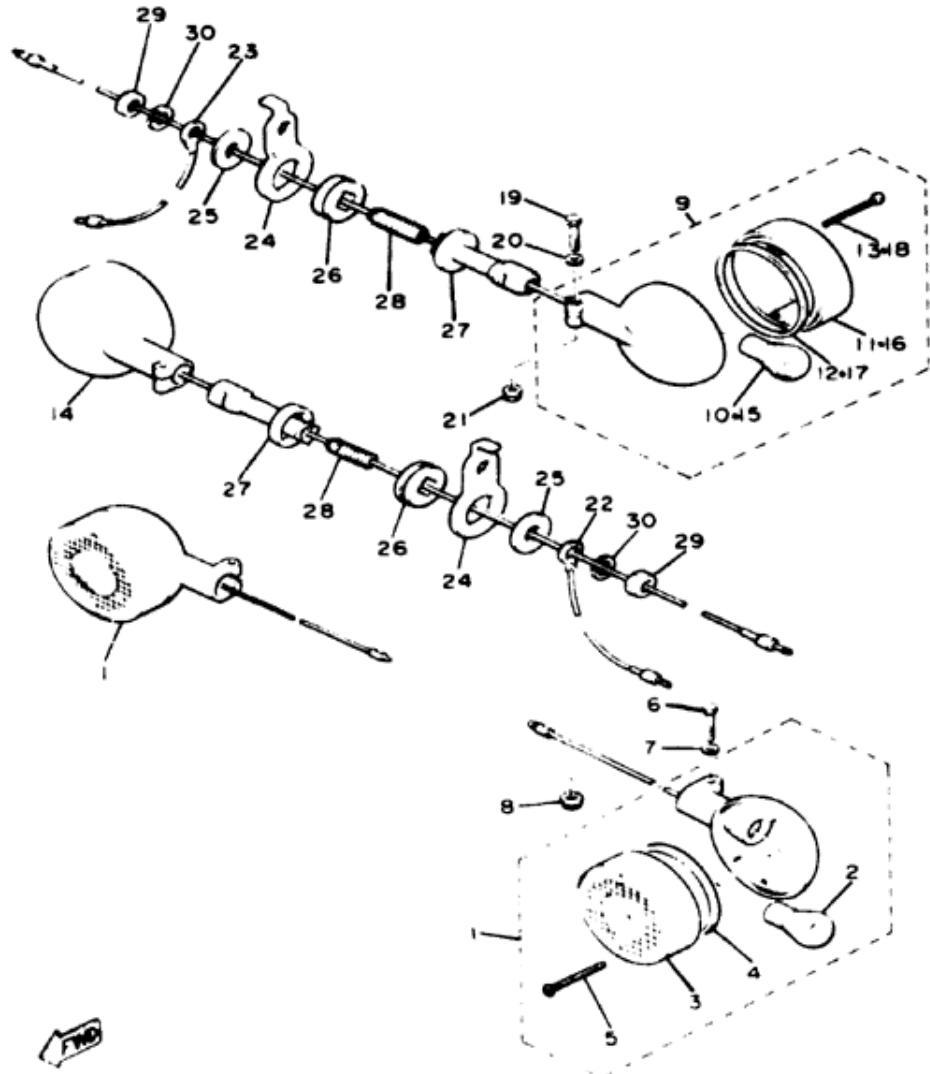
FLASHER LIGHT



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-----------------------------|------|
| 1 | 4W5-83310-K0-00 | FRONT FLASHER LIGHT ASS'Y 1 | 2 |
| 2 | 256-83311-70-00 | . BULB (12V-27W) | 1 |
| 3 | 4H7-83312-00-00 | . LENS, flasher | 1 |
| 4 | 4H7-83313-00-00 | . GASKET, flasher lens | 1 |
| 5 | 98502-03030-00 | . SCREW, pan head | 2 |
| 6 | 97306-06030-00 | BOLT | 2 |
| 7 | 92906-06600-00 | WASHLR. plate | 2 |
| 8 | 95706-06100-00 | NUT, flange | 2 |
| 9 | 4W5-83330-K0-00 | REAR FLASHER LIGHT ASS'Y 1 | 1 |
| 10 | 256-83311-70-00 | . BULB (12V-27W) | 1 |
| 11 | 4H7-83312-00-00 | . LENS, flasher | 1 |
| 12 | 4H7-83313-00-00 | . GASKET, flasher lens | 1 |
| 13 | 98502-03030-00 | . SCREW, pan head | 2 |

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

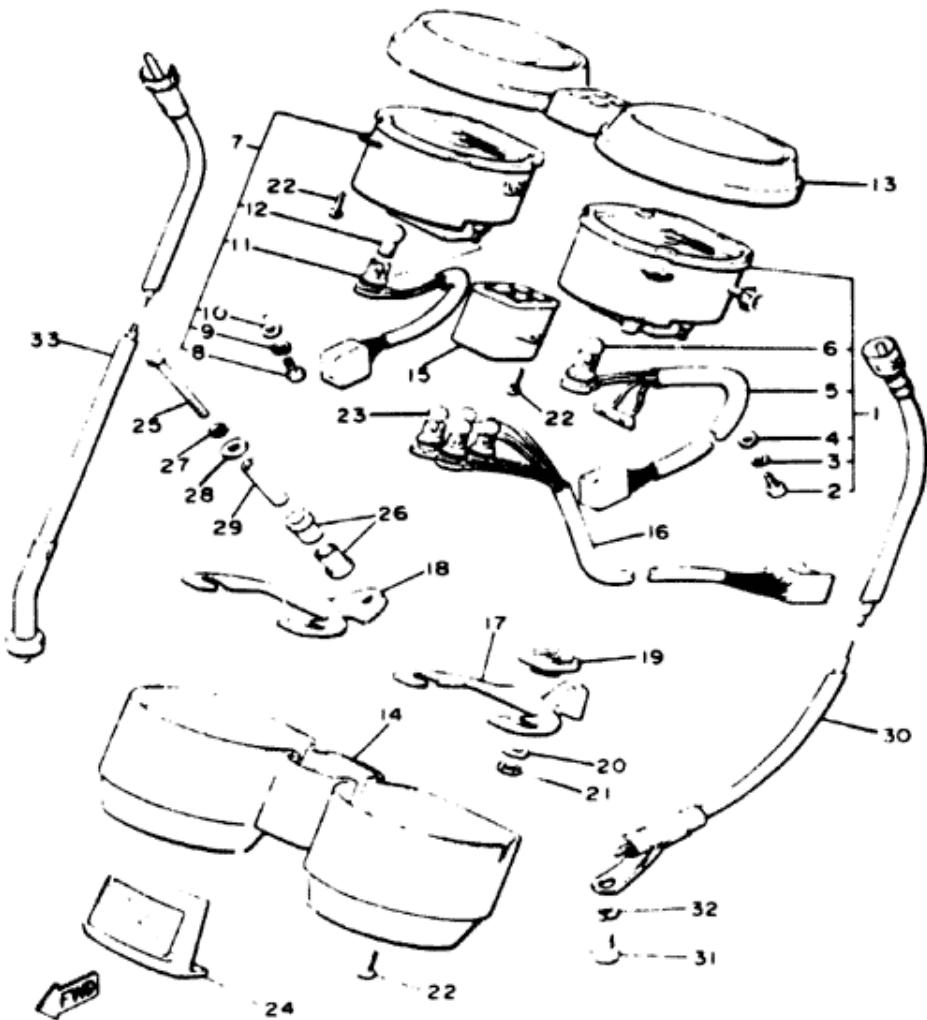
FLASHER LIGHT



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|----------------------------|------|
| 14 | 4W5-83340-K0-00 | REAR FLASHER LIGHT ASS'Y | 1 |
| 15 | 256-83311-70-00 | BULB (12V-27W) | 1 |
| 16 | 4H7-83312-00-00 | LENS, flasher | 1 |
| 17 | 4H7-83313-00-00 | GASKET, flasher lens | 1 |
| 18 | 98501-03030-00 | SCREW, pan head | 2 |
| 19 | 97306-06030-00 | BOLT | 2 |
| 20 | 92906-06600-00 | WASHER, plate | 2 |
| 21 | 95706-06100-00 | NUT, flange | 2 |
| 22 | 4H7-83364-00-00 | WIRE, earth lead 2 | 1 |
| 23 | 4H7-83354-00-00 | WIRE, earth lead 1 | 1 |
| 24 | 4W5-83318-00-00 | STAY, flasher 1 | 2 |
| 25 | 90201-104A3-00 | WASHER, plate | 2 |
| 26 | 341 83321-01-00 | DAMPER, flasher 1 | 2 |
| 27 | 4W5-83328-00-00 | STAY, flasher 2 | 2 |
| 28 | 2H7-83325-00-00 | BOLT, flasher stay fitting | 2 |
| 29 | 95306-10600-00 | NUT | 2 |
| 30 | 92906-10100-00 | WASHER, spring | 2 |

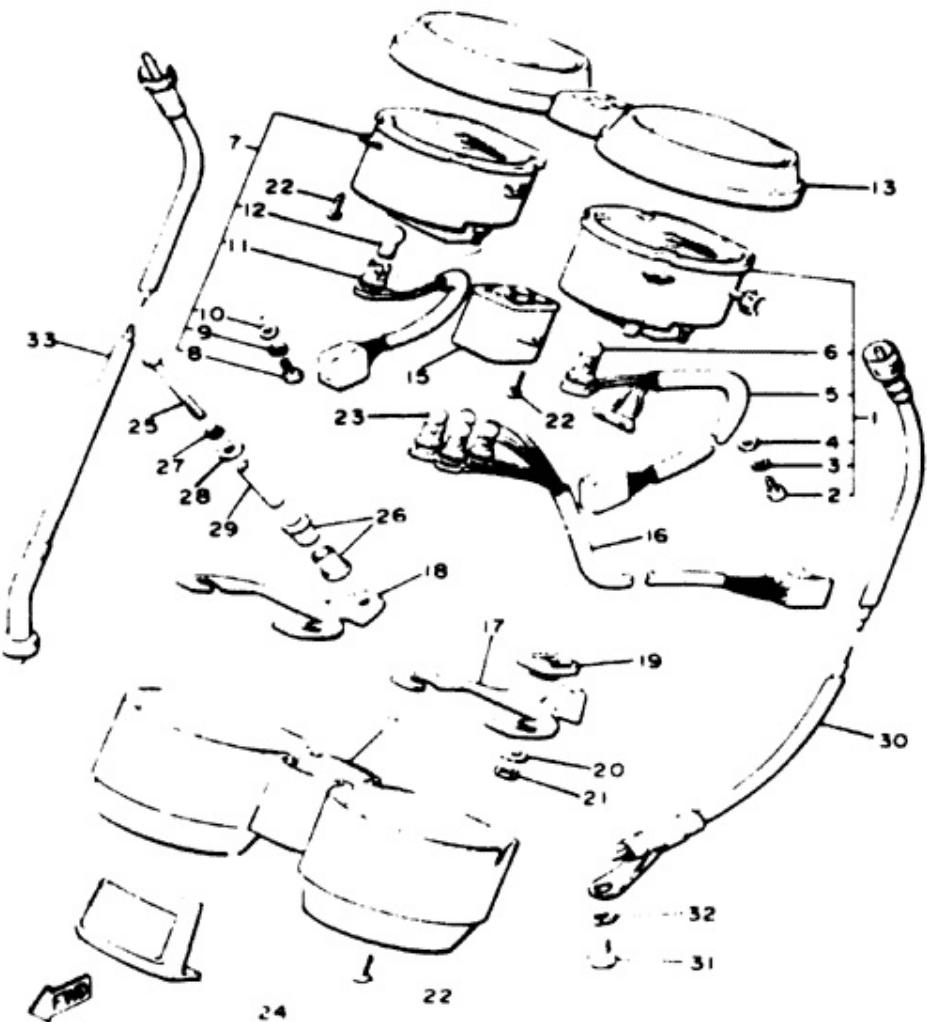
| LIGHTING SYSTEM | | | 12V50-40W | 12V27-8W | 12V27W |
|-----------------|-----------|---------------|-----------|----------|--------|
| Headlight | Taillight | Signal Rating | | | |
| | | | | | |

SPEEDOMETER - TACHOMETER



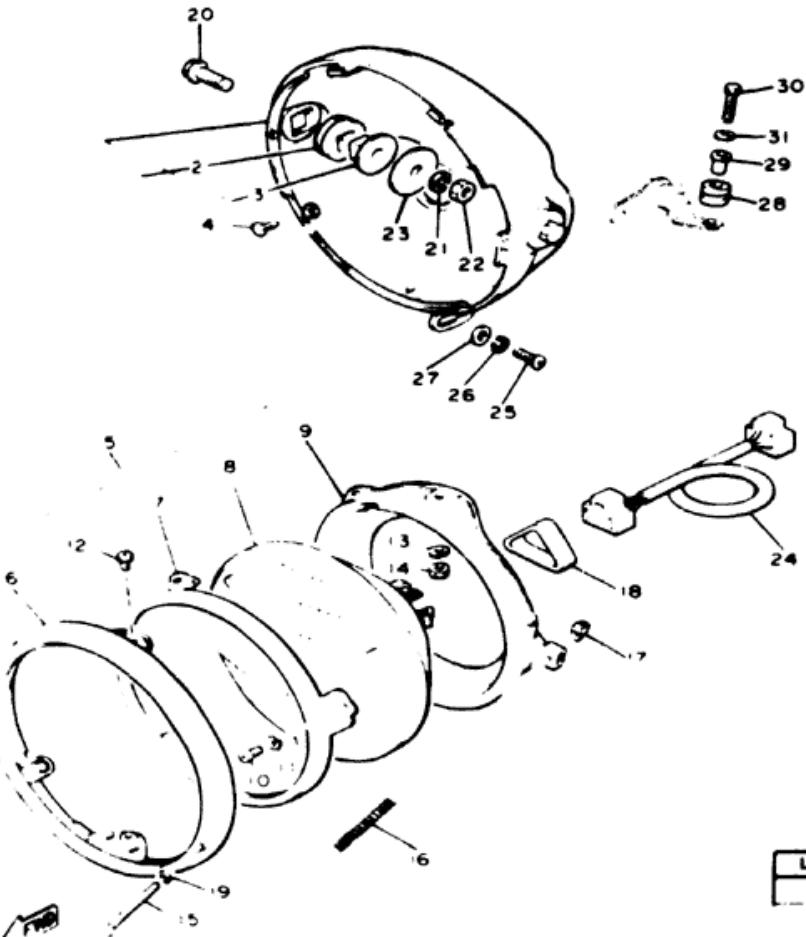
| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|-----------------------------|------|
| 1 | 4H7-83570-A0-00 | SPEEDOMETER ASS'Y | 1 |
| 2 | 98501-04008-00 | SCREW, pan head | 2 |
| 3 | 92901-04100-00 | WASHER, spring | 2 |
| 4 | 92901-04600-00 | WASHER, plate | 2 |
| 5 | 4H7-83536-00-00 | SOCKET, meter. | 1 |
| 6 | 123-83516-21-00 | BULB (12V-3.4W). | 1 |
| 7 | 4H7-83540-00-00 | TACHOMETER ASS'Y | 1 |
| 8 | 98501-04008-00 | SCREW, pan head | 2 |
| 9 | 92901-04100-00 | WASHER, spring | 2 |
| 10 | 92901-04600-00 | WASHER, plate | 2 |
| 11 | 4H7-83520-00-00 | SOCKET ASS'Y. | 1 |
| 12 | 123-83516-21-00 | BULB (12V-3.4W). | 1 |
| 13 | 4H7-83559-A0-00 | COVER, meter | 1 |
| 14 | 4W5-83579-00-00 | COVER, meter 2 | 1 |
| 15 | 4H7-83587-00-00 | BODY, pilot light | 1 |

SPEEDOMETER - TACHOMETER



| Ref. No. | Part Number | Description | Qty |
|-------------|-----------------|------------------------------|-----|
| 16 | 4H7-83509-00-00 | SOCKET CORD ASS'Y | 1 |
| 17 | 4H7-83519-00-00 | BRACKET, meter..... | 1 |
| 18 | 4H7-83545-00-00 | BRACKET, tachometer..... | 1 |
| 19 | 4H7-83523-00-00 | DAMPER | 4 |
| 20 | 1E6-83524-60-00 | WASHER, special | 4 |
| 21 | 95301-05600-00 | NUT..... | 4 |
| 22 | 4H7-83616-00-00 | SCREW, tapping | 10 |
| 23 | 123-83516-21-00 | BULB (12V-3.4W) | 4 |
| 24 | 4W5-21787-00-00 | EMBLEM 7..... | 1 |
| 25 | 97306-06045-00 | BOLT | 2 |
| 26 | 584-83541-00-00 | DAMPER | 4 |
| 27 | 92906-06100-00 | WASHER, spring | 2 |
| 28 | 90201-06067-00 | WASHER, plate | 2 |
| 29 | 90387-06249-00 | COLLAR | 2 |
| 30 | 4W3-83550-00-00 | SPEEDOMETER CABLE ASS'Y | 1 |
| 31 | 90153-06004-00 | SCREW, hexagon | 1 |
| 32 | 92903-06100-00 | WASER, spring (92901-06100) | 1 |
| 33 | 4W5-83560-00-00 | TACHOMETER CABLE ASS'Y | 1 |

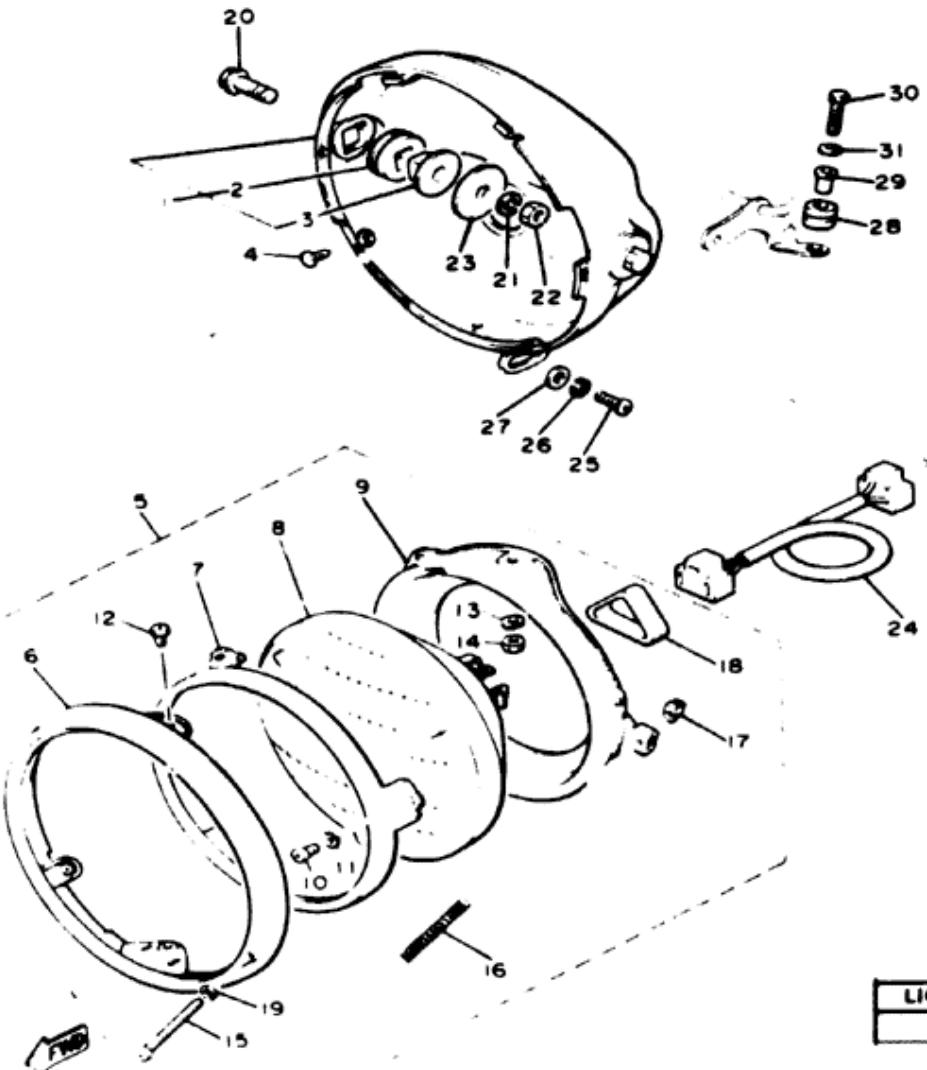
HEADLIGHT



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|------------------------------|------|----------------|
| 1 | 3J6-84330-00-6G | BODY ASS'Y | 1 | New Yamaha Blk |
| 2 | 584-84345-60-00 | DAMPER, headlight..... | 2 | |
| 3 | 584-84338-60-00 | COLLAR, body fitting..... | 2 | |
| 4 | 90152-05005-00 | SCREW, countersunk..... | 2 | |
| 5 | 4W5-84310-60-00 | HEADLIGHT UNIT ASS'Y..... | 1 | |
| 6 | 4H1-84315-00-00 | RIM, headlight | 1 | |
| 7 | 2F9-84395-00-00 | RING, retaining..... | 1 | |
| 8 | 341-84320-60-00 | LENS ASS'Y (12V-50/40W) ... | 1 | |
| 9 | 2F9-84394-00-00 | RING, mounting | 1 | |
| 10 | 98501-04008-00 | SCREW, panhead (98502-04008) | 3 | |
| 11 | 92901-04100-00 | WASHER, spring (92903-04100) | 3 | |
| 12 | 98501-05010-00 | SCREW, pan head | 2 | |
| 13 | 92903-05100-00 | WASHER, spring (92902-05100) | 2 | |
| 14 | 95301-05600-00 | NUT (95302-05600)..... | 2 | |
| 15 | 4H1-84331-00-00 | SCREW, rim adjusting | 1 | |
| 16 | 341-84332-60-00 | SPRING, screw..... | 1 | |

| LIGHTING SYSTEM | | | 12V50/40W | 12V27.8W | 12V27W |
|-----------------|-----------|---------------|-----------|----------|--------|
| Headlight | Taillight | Signal Rating | | | |

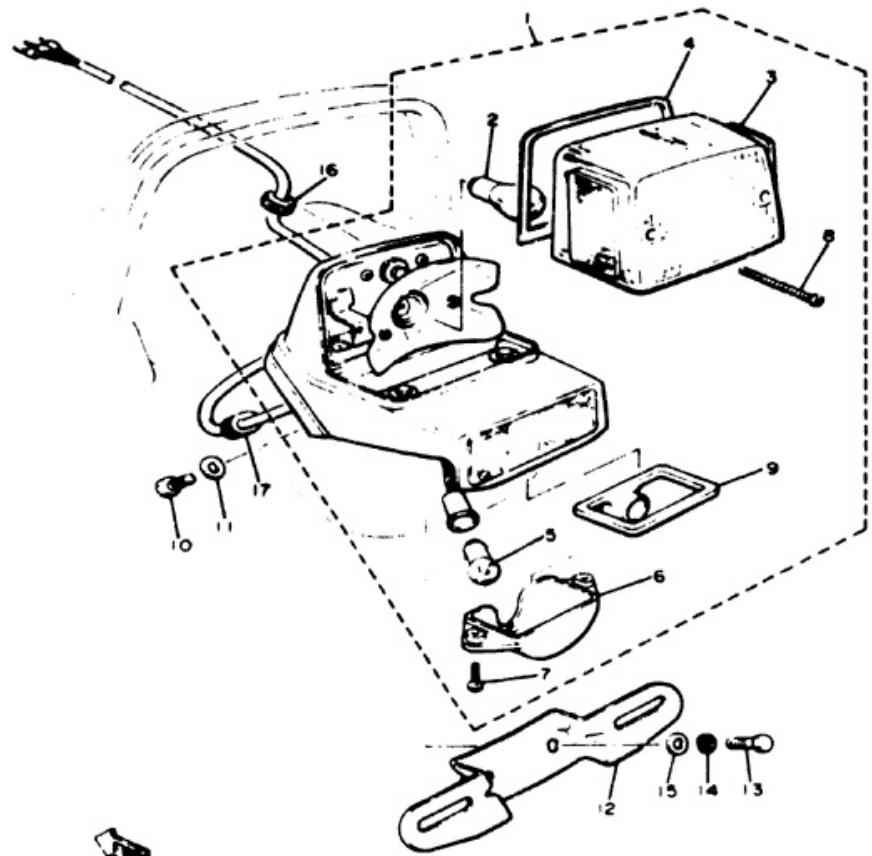
HEADLIGHT



| Ref. No. | Part Number | Description | Qty. |
|-------------|-----------------|------------------------------|------|
| 17 | 198-84334-60-00 | NUT, adjusting | 1 |
| 18 | 341-84397-61-00 | COVER, socket..... | 1 |
| 19 | 233-84127-60-00 | WASHER, special..... | 1 |
| 20 | 90105-08172-00 | BOLT, washer based | 2 |
| 21 | 92903-08100-00 | WASHER, spring (92901-08100) | 2 |
| 22 | 95301-08600-00 | NUT..... | 2 |
| 23 | 90209-08098-00 | WASHER | 2 |
| 24 | 2H7-84359-00-00 | CORD, headlight | 1 |
| 25 | 92506-06016-00 | SCREW, pan head..... | 1 |
| 26 | 92906-06100-00 | WASHER, spring | 1 |
| 27 | 90201-06552-00 | WASHER, plate | 1 |
| 28 | 90480-14101-00 | GROMMET..... | 1 |
| 29 | 90387-063E6-00 | COLLAR | 1 |
| 30 | 97206-06025-00 | BOLT | 1 |
| 31 | 92906-06600-00 | WASHER, plate | 1 |

| LIGHTING SYSTEM | | 12V50-40W / 12V27-8W | 12V27W |
|-----------------|---------------------------|----------------------|--------|
| Headlight | Taillight / Signal Rating | | |

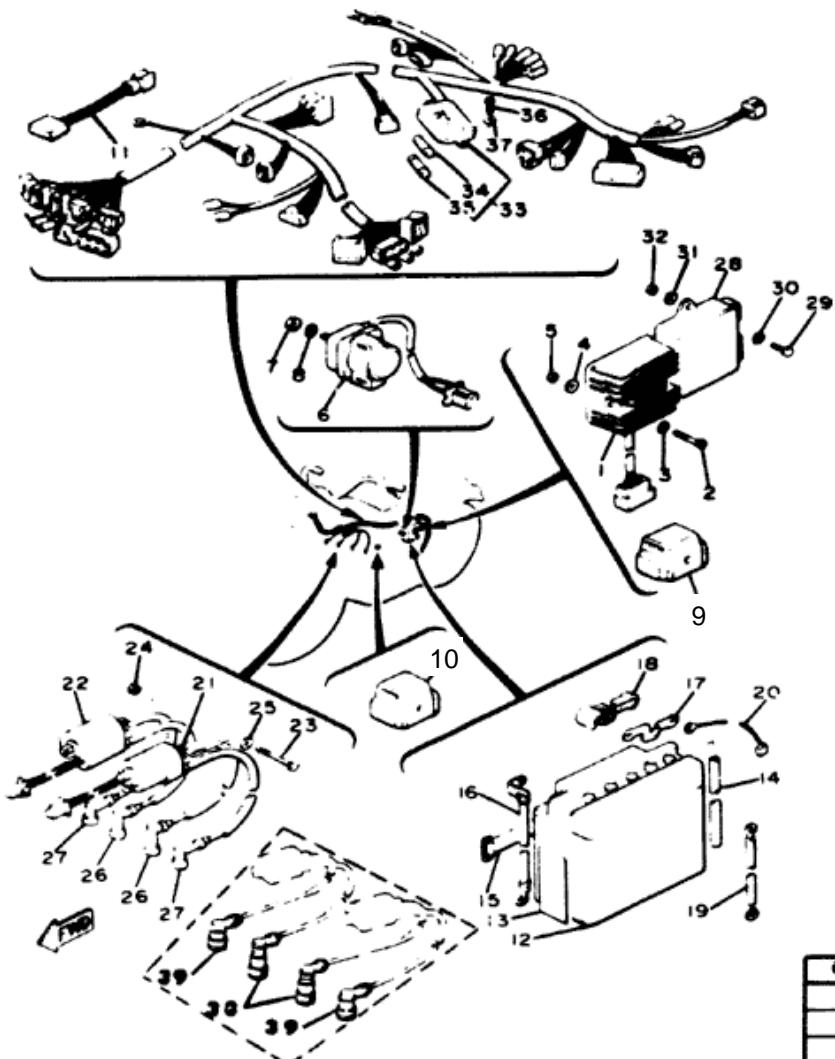
TAILLIGHT



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|------------------------------|------|----------------|
| 1 | 4W5-84700-60-6G | TAILLIGHT ASS'Y..... | 1 | New Yamaha Blk |
| 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, panhead (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 | 4W5-84751-00-00 | BRACKET, license..... | 1 | New Yamaha Blk |
| 13 | 97306-06016-00 | BOLT..... | 2 | |
| 14 | 92906-06100-00 | WASHER, spring..... | 2 | |
| 15 | 92906-06600-00 | WASHER, plate..... | 2 | |
| 16 | 90480-16112-00 | GROMMET..... | 1 | |
| 17 | 90480-15061-00 | GROMMET..... | 1 | |

| LIGHTING SYSTEM | | |
|---------------------------------------|--|-------------------------------|
| Headlight / Taillight / Signal Rating | | 12V50-40W / 12V27-8W / 12V27W |

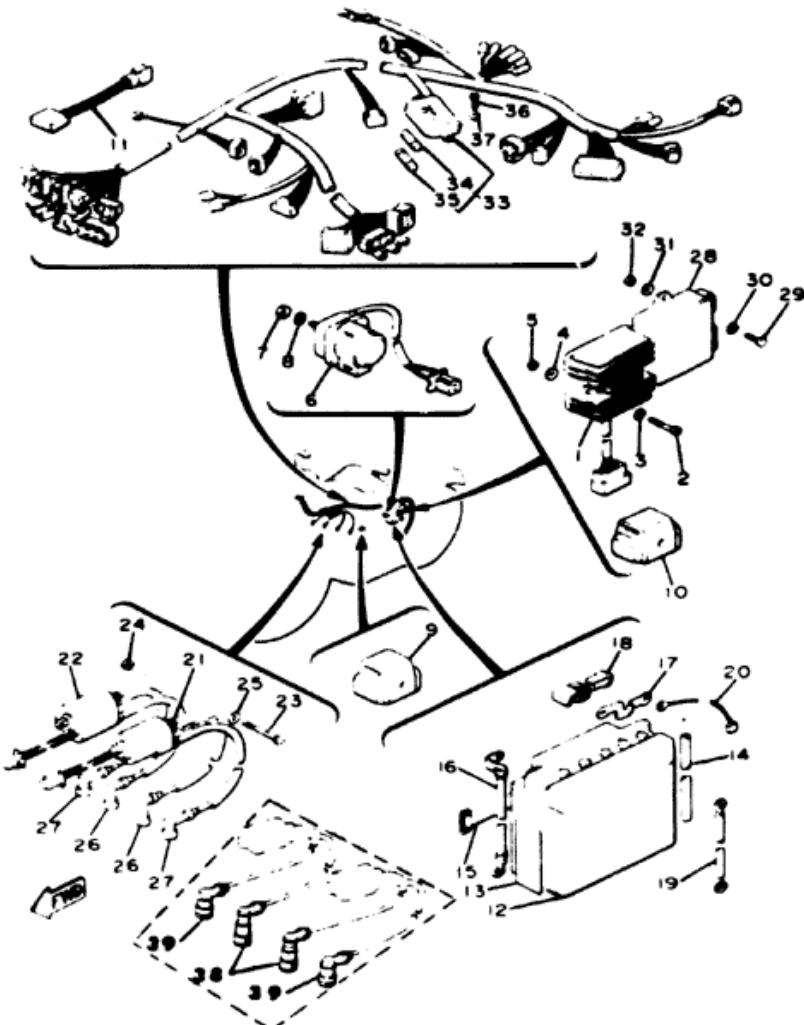
ELECTRICAL 1



| Ref. No. | Part Number | Description | Qty. | Remarks |
|----------|-----------------|--|------|---------|
| 1 | 4H7-81960-50-00 | RECTIFIER & REGULATOR ASS'Y | 1 | |
| 2 | 92501-06030-00 | SCREW, pan head..... | 2 | |
| 3 | 92903-06100-00 | WASHER, spring (92902-06100) | 2 | |
| 4 | 92901-06600-00 | WASHER (92902-06600)..... | 2 | |
| 5 | 95301-06700-00 | NUT (95302-06700) | 2 | |
| 6 | 3H5-81940-00-00 | STARTER SWITCH ASS'Y..... | 1 | |
| 7 | 95301-06700-00 | NUT..... | 2 | |
| 8 | 92903-06100-00 | WASHER, spring (92901-06100) | 2 | |
| 9 | 3H5-81950-00-00 | HEADLIGHT RELAY ASS'Y | 1 | |
| 10 | 12R-81950-00-00 | STARTER CIRCUIT CUT-OFF RELAY (4H7-81950-01) | 1 | |
| 11 | 4H7-81980-M0-00 | DIODE..... | 1 | |
| 12 | 366-82110-79-00 | BATTERY ASS'Y (12N12A-4A) | 1 | |
| 13 | LIT-82141-09-00 | LABEL, battery (118-82141-09) | 1 | |
| 14 | 90445-08336-00 | HOSE | 1 | |
| 15 | 137-82131-01-00 | BAND, battery | 1 | |
| 16 | 4H7-82115-00-00 | WIRE, minus lead | 1 | |
| 17 | 4H7-82103-00-00 | TERMINAL 1 | 1 | |
| 18 | 4H7-82119-00-00 | COVER, lead wire | 1 | |
| 19 | 4H7-82519-00-00 | WIRE, earth lead | 1 | |
| 20 | 4H7-82116-00-00 | WIRE, plus lead..... | 1 | |

| 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 | Roter 0m~Bm : 4.8 Ω ± 10% Stator: Wm~Wm : 8.0 Ω ± 10% | |
| Charge Coil Color Code / Ω | @ | |
| IGNITION SYSTEM | | Transistor-Controlled Ignition |
| Ignition Timing | 10° Mark | |
| Ignition Coil Test Gap / Primary Ω / Secondary Ω | Std: 10° @ 1050 rpm Adv: 37.5 ± 2° @ 4100 rpm | |
| Pulser Coil or Pickup Coil Color Code / Ω | 6mm / 2.5 Ω ± 10% / 11K Ω ± 20% | |
| | Org ~ Blk, Gry ~ Brn / 650 Ω ± 20% | |

ELECTRICAL 1



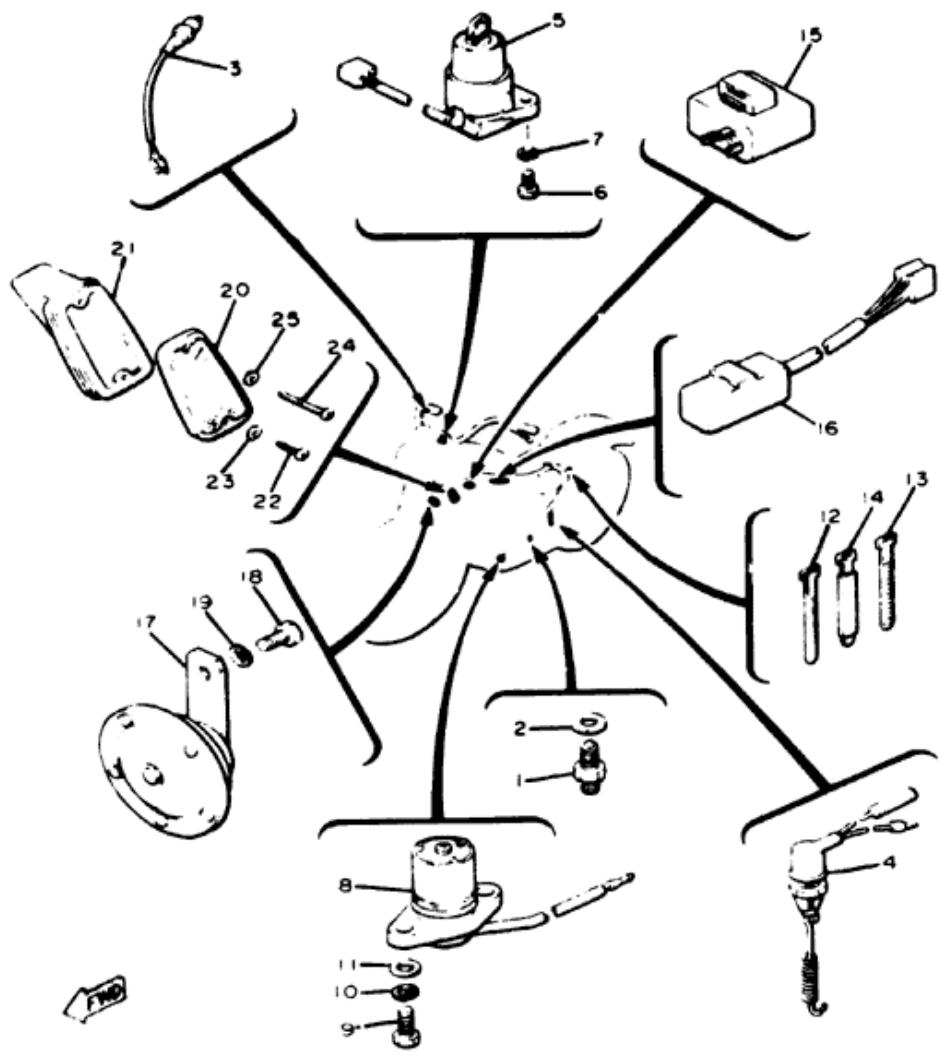
| Ref. No. | Part Number | Description | Qty. | Remarks |
|----------|-----------------|------------------------------|------|---------|
| 21 | 4H7-82310-60-00 | IGNITION COIL ASS'Y..... | 1 | |
| 22 | 4H7-82320-60-00 | IGNITION COIL ASS'Y..... | 1 | |
| 23 | 97301-06080-00 | BOLT..... | 2 | |
| 24 | 95302-06600-00 | NUT..... | 2 | |
| 25 | 92903-06200-R0 | WASHER, plain (92901-06200) | 2 | |
| 26 | 1J7-82370-00-00 | PLUG CAP ASS'Y | 2 | |
| 27 | 256-82370-00-00 | PLUG CAP ASS'Y | 2 | |
| 28 | 4H7-82305-10-00 | IGNITOR UNIT ASS'Y..... | 1 | |
| 29 | 92503-06015-00 | SCREW, panhead (92502-06016) | 2 | |
| 30 | 92903-06100-00 | WASHER, spring (92902-06100) | 2 | |
| 31 | 92901-06600-00 | WASHER (92902-06600)..... | 2 | |
| 32 | 95301-06700-00 | NUT (95302-06700) | 2 | |
| 33 | 4H7-82590-50-00 | WIRE HARNESS ASS'Y..... | 1 | |
| 34 | 1A0-82151-00-00 | FUSE (12V-10A)..... | 3 | |
| 35 | 1A0-82161-00-00 | FUSE (12V-20A)..... | 1 | |
| 36 | 97701-50516-00 | SCREW, pan head tapping..... | 2 | |
| 37 | 92901-05600-00 | WASHER, plate | 2 | |

ALTERNATE PARTS

| | | | | |
|----|-----------------|----------------------|---|--------------------|
| 38 | 1J7-82370-10-00 | PLUG CAP ASS'Y | 2 | w/noise suppressor |
| 39 | 2H8-82370-10-00 | PLUG CAP ASS'Y | 2 | w/noise suppressor |

| CHARGING SYSTEM | AC Generator / 3-Phase / Full Wave |
|---|--|
| Battery: Model / Specific Gravity / Charge Rate | Lead 12N12A-4A-1 (12V 12AH) / 1.28 / 1.2A |
| Maximum Output | 14V 18A @ 5000 rpm |
| TROUBLESHOOTING | |
| Field Coil Color Code / Ω | Rater: Gra~Bm : 4.8 Ω ± 10% Stator: Gra~Wm : 8.8 Ω ± 10% |
| Charge Coil Color Code / Ω | @ |
| IGNITION SYSTEM | Transistor-Controlled Ignition |
| Ignition Timing | 10° Mark |
| Ignition Coil Test Gap Primary Ω / Secondary Ω | Std: 10° @ 1050 rpm Adv: 37.5 ± 2° @ 4100 rpm |
| Pulser Coil or Pickup Coil Color Code / Ω | 6mm / 2.5 Ω ± 10% / 11K Ω ± 20% |
| | Org ~ Blk, Gry ~ Bm / 650 Ω ± 20% |

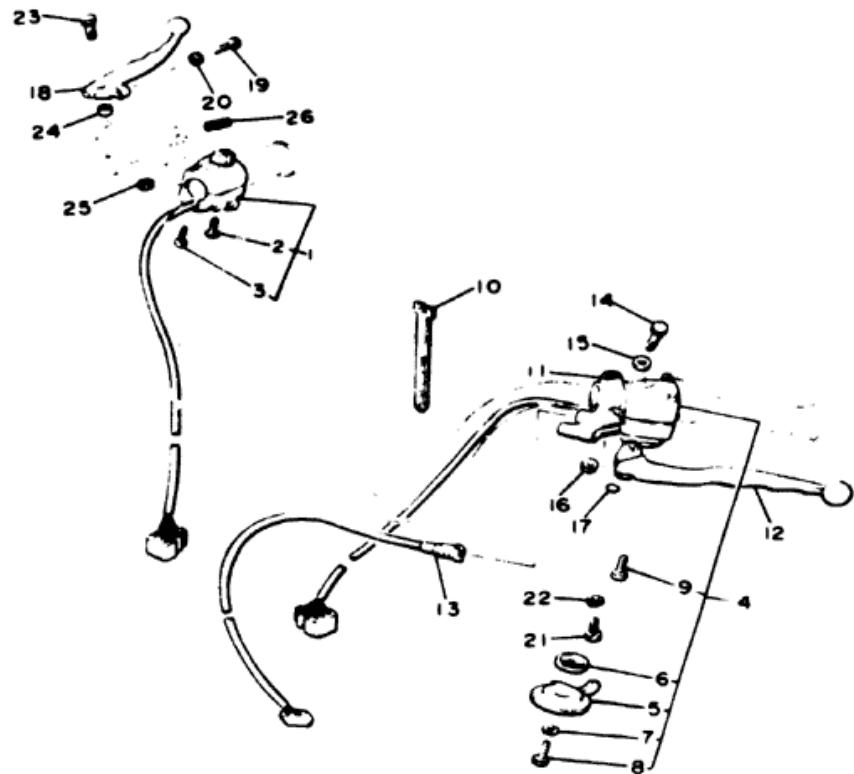
ELECTRICAL 2



| Ref. No. | Part Number | Description | Qty |
|----------|-----------------|------------------------------|-----|
| 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 (92901-06100) | 2 |
| 11 | 92901-06600-00 | WASHER, plate..... | 2 |
| 12 | 437-83936-10-00 | BAND, switch cord | 2 |
| 13 | 447-82591-00-00 | BAND | 1 |
| 14 | 341-26397-01-00 | BAND | 1 |
| 15 | 4H7-83350-70-00 | FLASHER RELAY ASS'Y..... | 1 |
| 16 | 1A0-83395-03-00 | FLASHER CANCELLING UNIT | 1 |
| 17 | 1J7-83371-22-00 | HORN | 1 |
| 18 | 97306-08014-00 | BOLT..... | 1 |
| 19 | 92906-08100-00 | WASHER, spring | 1 |
| 20 | 4H1-85110-00-00 | FRONT REFLECTOR ASS'Y..... | 2 |
| 21 | 4H7-85127-01-00 | BASE, reflector | 2 |
| 22 | 98501-04018-00 | SCREW, pan head..... | 2 |
| 23 | 92901-04600-00 | WASHER, plate | 2 |
| 24 | 97602-04114-00 | SCREW, panhead (98502-04040) | 2 |
| 25 | 92901-04600-00 | WASHER, plate | 2 |

| | |
|--|--|
| Field Coil Color Code / Ω | Refer: 8m ~ 8m / 4.8 Ω ± 10% Refer: Ww ~ Ww / 8.48 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 / 28 in-lbs / Dkt. 164 Nm Ø : 11/16Dkt. 263 Nm Ø : 11/16 |
| 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 / 880 Ω ± 20% |

HANDLE SWITCH - LEVER



| Ref. No. | Part Number | Description | Qty. | Remarks |
|-------------|-----------------|-----------------------------|------|---------------|
| 1 | 2H7-83975-01-00 | SWITCH, handle 2..... | 1 | Low Gloss Blk |
| 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 | 2H0-83912-20-00 | LEVER 1 | 1 | |
| 13 | 3Y6-82917-00-00 | SWITCH | 1 | |
| 14 | 2H7-83945-00-00 | BOLT, lever..... | 1 | |
| 15 | 90201-08083-00 | WASHER, plate | 1 | |
| 16 | 95601-06100-00 | NUT, u | 1 | |
| 17 | 93210-11368-00 | O-RING..... | 1 | |
| 18 | 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 | 95601-06100-00 | 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 MOTORCYCLE - 650 SECTION

DATE 10/3/80 BUL M80-050

XJ650LH 1981 SERVICE DATA

| MODEL - IBM I.D. NUMBER | XJ650LH | 4W5 |
|---|--|-----|
| Initial Engine Number / Frame Number | 4W5-000001 / 4W5-000001 | |
| Basic Color(s) | New Yamaha Black | |
| 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 / 7.0 ~ 10.0 kg/cm ² | |
| Piston Skirt Clearance New / Max | 0.030 ~ 0.060mm / 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 | 2960cc | |
| Oil Change | 2360cc | |
| 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 / 4W5-00 | |
| 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 | 1060 rpm | |
| Max CO* / Max HC* / Set CO | 6.0 % / 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) | P3.25H19 (1.8 kg/cm ² /26 psi R130/90-18 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 M80-050 |
|--|---|-------------|
| 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: Brn~Brn / 4.8 Ω ± 10% Stator: Wht~Wht / 8.48 Ω ± 10% | |
| Charge Coil Color Code / Ø | Ø | |
| IGNITION SYSTEM | Transistor-Controlled Ignition | |
| Ignition Timing | 10° Mark | |
| | Std: 10° @ 1060 rpm Adv: 37.5 ± 2° @ 4100 rpm | |
| Spark Plug Type | NGK BP7ES or Nippon Denso W22EP | |
| Spark Plug Gap / Torque / Cap Ø | 0.7~0.8mm/2.8 m-kg/Cyl 164.5K Ω ± 10%/Cyl 263.10K Ω ± 10% | |
| 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 / 650 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

NA = Information Not Available

*Available From Yamaha Parts Distributors Inc.

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