YAMAHA

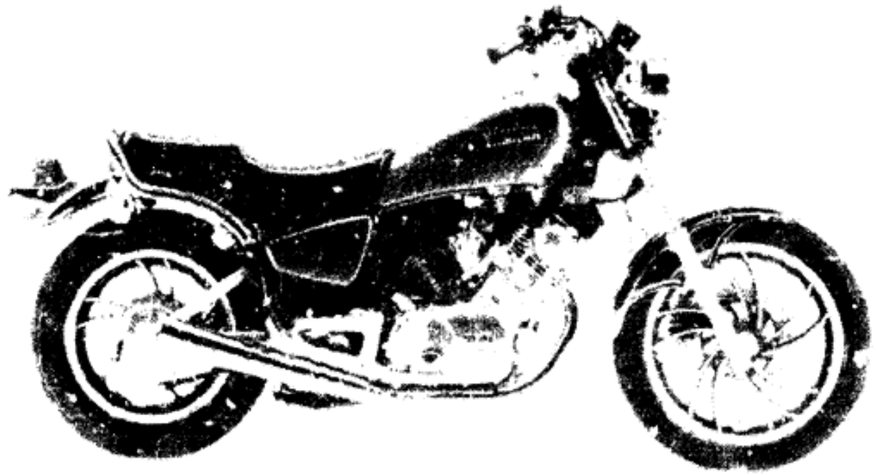
PARTS CATALOGUE
XV750J (4X7)
MODEL YEAR 1982

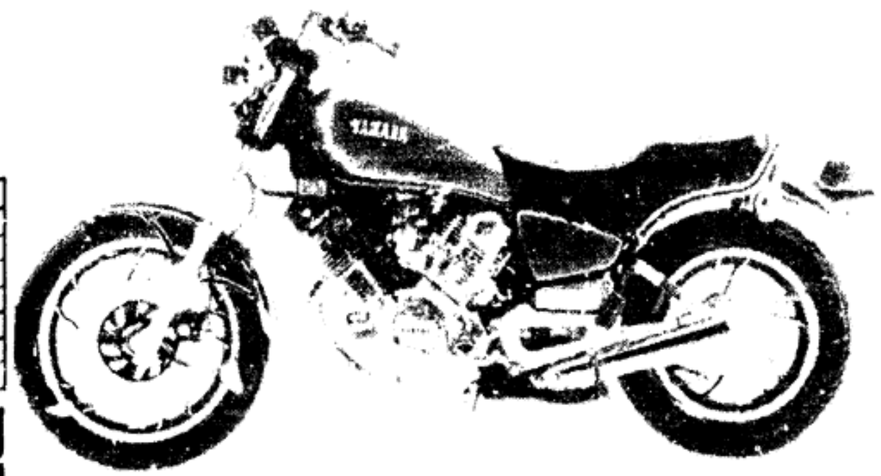
Initial Serial No. and Color Code

A	Frame Serial No.	4X7-0200101 and following
B	Engine Serial No.	4X7-0200101 and following

MODEL - IBM I.D. NUMBER	XV750J-B XV750J-S 4X7
Initial Engine Number Frame Number	4X7-200101 4X7-200101
Basic Color(s)	New Yamaha Black (B) Star Silver (S)
Fuel Type Fuel Tank Capacity Reserve Capacity	Regular 12 Lit 2.6 Lit
Dry Vehicle Weight	212 kg
ENGINE TYPE	4-Stroke, Air-Cooled SOHC V-Twin
Bore Stroke Number Cylinders Displacement (cc)	83.0mm 69.2mm 2 748cc
Compression Ratio Compression Pressure Min.-Max.	8.7:1 9.0~11.0 kg/cm²

PUBLICATION	PART NUMBER	REMARKS
OWNER'S MANUAL	LIT-11626-02-61	
SERVICE MANUAL	LIT-11616-XV-90	USES XV750H
ASSEMBLY MANUAL	LIT-11626-02-59	USES XV750H
CONSUMER MANUAL	LIT-11626-E2-61	





CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	F-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FOREWORD

— INTRODUCTION —
To The Yamaha Parts Fiche

This parts fiche lists parts and sub-assemblies for the XV 750J. When preparing a parts order, please refer to the most recently updated microfiche for this model.

THE YAMAHA PARTS FICHE

SYMBOLS

[ ]	Inactive, no longer available
U.R	Use size (thickness) and/or number as required
U.N	Use as many as you need
T	Number of teeth in a gear
V	Voltage for light bulbs
S	"S" type oil seal or "S" type circlip
SD.SO.SW	"SD", "SO", or "SW" type oil seal
E.R	"E" or "R" type circlip
F/No	Frame No. (Applicable Machine No.)

SUPERSEDED PART NUMBERS

If part 'A' has been superseded by part 'B', the superseding part number "B" will appear in the part number listing with the superseded part number "A" appearing in parentheses immediately following the description.

EXAMPLE:

Ref. No	Part No	Description	Qty
	(Part 'B')	(Part 'A')	
8	123-45678-00-00	CYLINDER (111-12345-00)	1

A part that has been superseded to a kit may be identified by a 99999-00000 part number appearing in the part number column. The old superseded part number will appear in parentheses immediately following the description. Listed directly below the 99999 part number will be those parts making up the kit. The description of the parts making up the kit will be preceded by a small black dot (.) and the description will be indented one letter space.

EXAMPLE:

Ref. No	Part No	Description	Qty
8	99999-12345-00	CYLINDER (111-12345-00)	1
	234-56789-00-00	. HEAD, cylinder	1
	345-67890-00-00	. GASKET, cylinder	1

SIZES

Except for steel balls (ball sizes are indicated in inches), all parts sizes are indicated in millimeters as in the following examples:

Hose (Rubber or Vinyl) ..... Inside Diameter - Length

O-Ring ..... Section Area - Inside Diameter

Washer, Shim, Collar ..... Inside Diameter - Outside Diameter - Thickness (Length)

ASSEMBLIES AND COMPONENT PARTS

Assemblies and their component parts are identified by an indention of one letter space, and the description is preceded by a dot (.). If 2 main assemblies are listed, and have the same basic description (i.e.: left and right sides of the same assembly), one will immediately follow the other. If each of these main assemblies is made up of almost the same components, these component parts will be listed immediately under the second main assembly line and will be indicated, as noted above.

If the component is the same for both main assemblies, the quantity indicated will be the **total** required. If the component is not the same for both main assemblies, the quantity for each separate item will be listed separately.

EXAMPLES:

Description	Qty.
CARBURETOR ASS'Y, left	1
CARBURETOR ASS'Y, right	1
. JET, pilot	2
. NOZZLE, main	2
.	
. LEVER, starter, left	1
. LEVER, starter, right	1

CONTENTS

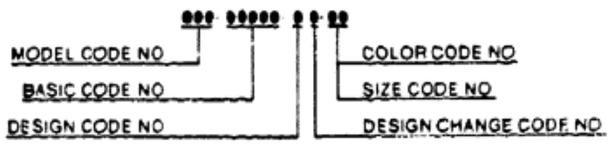
AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FOREWORD

THE YAMAHA PART NUMBER

The Yamaha part number consists of 12 digits. Each number represents a specific piece of information relating to a replacement part. The following is a guide for reading and interpreting the Yamaha part number.

BASIC PART NUMBER CONFIGURATION:



MODEL CODE NUMBER

FIRST THREE DIGITS . . . **###**-00000-00-00

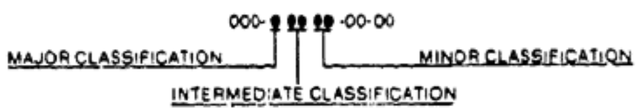
Every model in each Yamaha product line is assigned a model number to identify that particular model. All component parts are given the model code number relating to the model on which they were first used.

EXAMPLE: **2K3**-00000-00-00 identifies the XS750D
2F4-00000-00-00 identifies the GT80E

BASIC CODE NUMBER

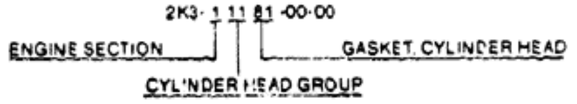
MIDDLE FIVE DIGITS . . 000-**#####**-00-00

These "Middle Five Digits" indicate the type of part i.e., piston, rings, lower units, etc. The five digits are broken down as follows.



The "Major Classification" indicates the section to which the parts belong, i.e., engine, electrical etc. The "Intermediate" and "Minor Classifications" indicate more specific details.

EXAMPLE:



DESIGN CODE NUMBER: 000-00000-**#**0-00

The design code distinguishes like component parts from one another when specification differences are involved. For example, distinguishing a standard size piston ring from an oversized piston ring.

EXAMPLE: 4U8-11610-**0**0-00 Standard Piston Ring Set for XJ550H
4U8-11610-**2**0-00 Oversize Piston Ring Set for XJ550H

DESIGN CHANGE CODE NUMBER: 000-00000-0**#**-00

This code number is used to identify a difference between a new component part and old one when a new part is created by changing the old one.

EXAMPLE:

4U8-11610-0**0**-00 XJ550H Piston Ring Set, std. - ORIGINAL
4U8-11610-0**1**-00 XJ550H Piston Ring Set, std. - FIRST DESIGN CHANGE

Only major changes to performance, durability, quality, appearance, cost or interchangeability will affect a part number change.

COLOR CODE & SIZE CODE NUMBER: 000-00000-00-**##**

When applicable, the last two digits of the part number identify:

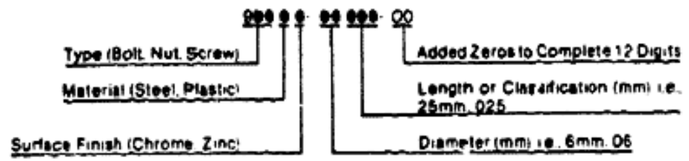
1. Color Code: The painted color or type of plating or surface treatment used on certain parts.
2. Size Code: The last two digits are also used to show the size of parts (mm). Such as the thickness of shims or the size of pistons.

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	[illegible],0
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FOREWORD

HARDWARE (Fastener) PART NUMBER CONFIGURATION:



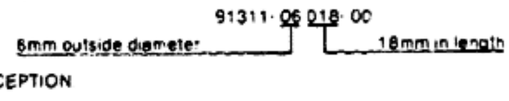
TYPE:

A fastener part number always begins with the number "9" followed by either a 0, 1, 2, 3, 4, 5, 7 or 8 designating one of eight major divisions within this group.

EXAMPLE: 90000-00000-00 "0" designates various types
91000-00000-00 "1" designates bolts, cotter pins, etc.
92000-00000-00 "2" designates screws, nuts, etc.
93000-00000-00 "3" designates oil seals, o-rings, bearings, etc.
94000-00000-00 "4" designates spark plugs.
95000-00000-00 "5" designates bolts and nuts.
97000-00000-00 "7" designates ISO bolts.
98000-00000-00 "8" designates ISO screws and nuts.

The only major divisions which the mechanic should become familiar with are those related to the general hardware (nuts, bolts, and washers), since these are the most commonly used and most often replaced items. By knowing how to interpret the part number, the dimensions of a piece of hardware can be determined. This can be very helpful during major engine repair, and general parts replacement.

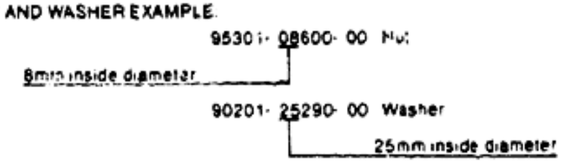
BOLT EXAMPLE:



EXCEPTION

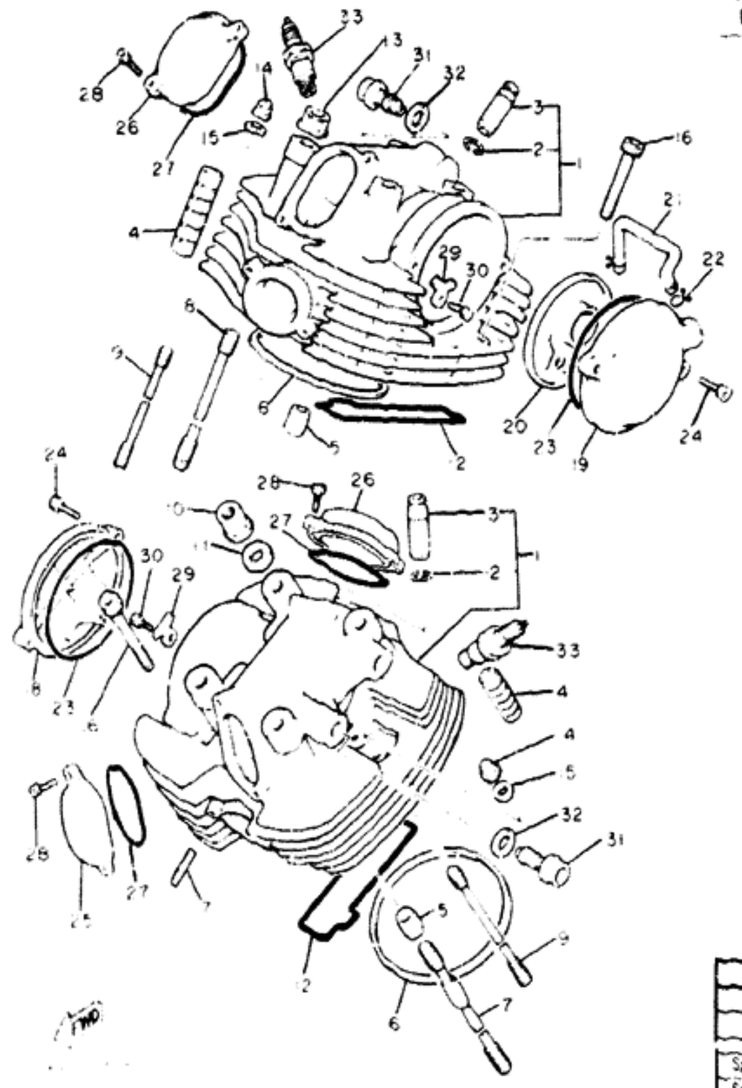
It is NOT possible to identify the LENGTH of bolts having a 901 prefix. Only the bolt diameter can be identified with this number.

NUT AND WASHER EXAMPLE:



CONTENTS

AIR CLEANER	B-3,4
CABLE	F-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12



CYLINDER HEAD

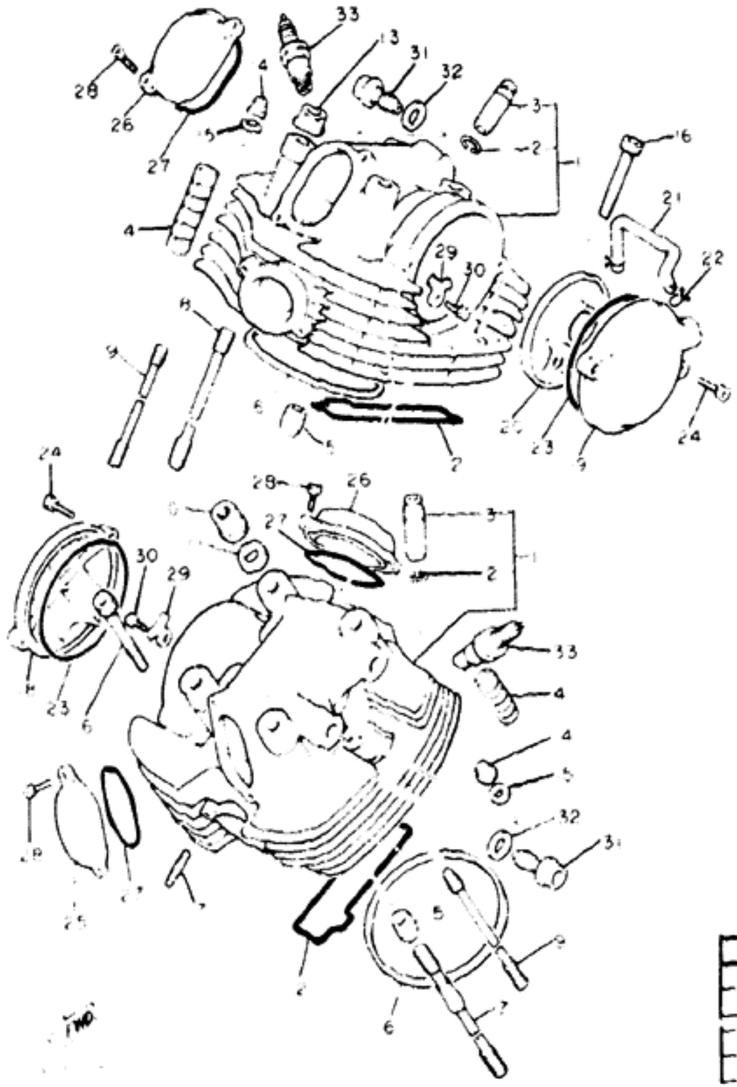
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-11110-01-00	CYLINDER HEAD ASS'Y (4X7-11110-00)	2	
2	93440-14086-00	. CIRCLIP	2	
3	4X7-11133-10-00	. GUIDE, intake valve (1st O/S)	2	
4	4X7-11127-00-00	ABSORBER 3	8	
5	91800-06030-00	PIN, dowel	4	
6	4X7-11181-00-00	GASKET, cylinder head 1	2	
7	4X7-11363-00-00	BOLT, cylinder holding 3	4	
8	90116-12350-00	BOLT, stud	4	
9	90116-10344-00	BOLT, stud	2	
10	90179-12326-00	NUT	4	
11	90201-125A3-00	WASHER, plate	4	
12	4X7-11355-00-00	SEAL, cylinder 1	2	
13	90179-12325-00	NUT	4	
14	90176-10029-00	NUT (90179-10277)	2	
15	90201-101A4-00	WASHER, plate	2	
16	91311-08050-00	BOLT	4	
17	95611-08625-00	BOLT, stud	4	

4X7-W0001-00-XX TOP END GASKET KIT
See Grid H-1 for Gasket Kit.

ENGINE TYPE	4-Stroke, Air-Cooled, SOHC, V-Twin
Bore Stroke Number Cylinders Displacement (cc)	83.0mm 69.2mm 2 748cc
Compression Ratio Compression Pressure Min.~Max.	8.7:1 9.0 ~ 11.0 kg/cm²
Spark Plug Type	NGK BP7ES
Spark Plug Gap Torque Cap'n	0.7 ~ 0.8mm 2.0 m-kg 5K'n ± 10%

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
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FENDER	D-3
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FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12



CYLINDER HEAD

Ref. No.	Part Number	Description	Qty.	Remarks
18	4X7-11185-00-00	COVER, cylinder head side 1	1	
19	4X7-1111H-00-00	COVER, cylinder head side 4	1	
20	4X7-11165-00-00	PLATE, breather	1	
21	4X7-11166-00-00	PIPE, breather 1	1	
22	90467-14015-00	CLIP	2	
23	93210-92448-00	O-RING	2	
24	91311-06025-00	BOLT	4	
25	4X7-11186-00-00	COVER, cylinder head side 2	2	
26	4X7-11187-00-00	COVER, cylinder head side 3	2	
27	93210-62446-00	O-RING	4	
28	91311-06015-00	BOLT	8	
29	4X7-1111F-00-00	PLATE	2	
30	97311-08020-00	BOLT	2	
31	90401-16065-00	BOLT, union	2	
32	90430-17168-00	GASKET	2	
33	NGK-BP7ES-00-00	PLUG, spark (94701-00117)	2	

4X7-W0001-00-XX TOP END GASKET KIT
See Grid H-1 for Gasket Kit.

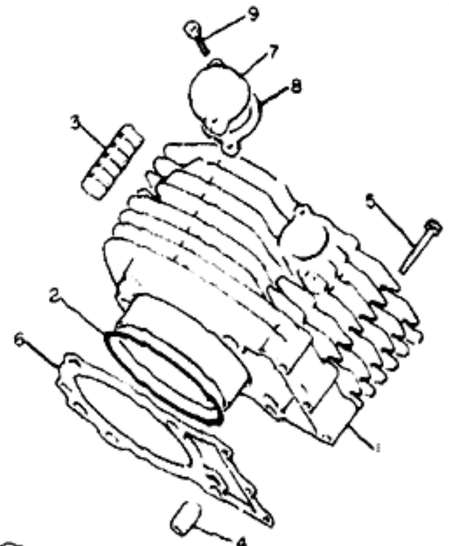
ENGINE TYPE	4-Stroke Air-Cooled SOHC V-Twin
Bore Stroke Number Cylinders Displacement (cc)	83.0mm 69.2mm 2 748cc
Compression Ratio Compression Pressure Min.-Max.	8.7:1 9.0 - 11.0 kg/cm²
Spark Plug Type	NGK BP7E
Spark Plug Gap Torque Cap'n	0.7 - 0.8mm 2.0 m-kg 5K Ω ±15%

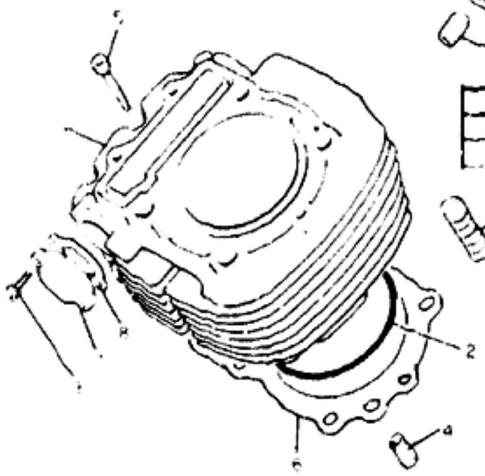
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CARBURETOR	B-5,6
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CLUTCH	C-2,3
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CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
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CYLINDER	A-5,6
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ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CYLINDER

Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-11310-01-00	CYLINDER	2	
2	93210-89447-00	O-RING	2	
3	4X7-11161-00-00	ABSORBER 1	4	
4	90387-087A5-00	COLLAR	4	
5	91311-06040-00	BOLT	6	
6	4X7-11351-00-00	GASKET, cylinder	2	
7	4X7-12215-00-00	CAP, tensioner case	2	
8	4X7-12213-00-00	GASKET, tensioner case	2	
9	91311-06025-00	BOLT	4	





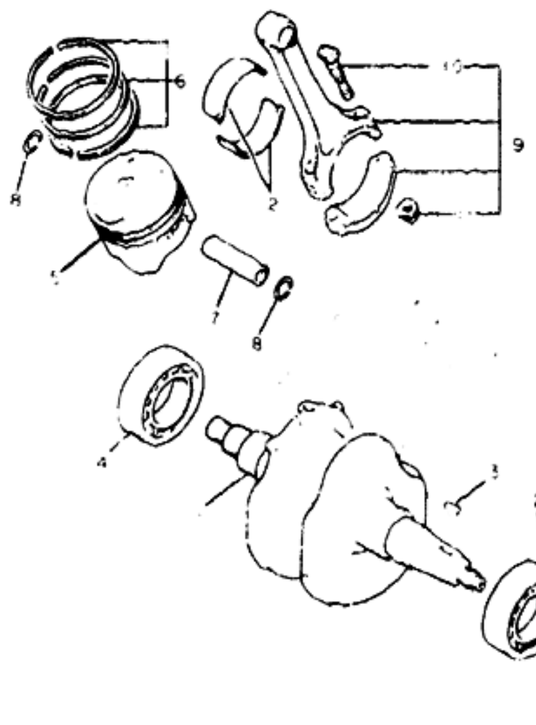
ENGINE TYPE	4 Stroke, Air Cooled, SOHC, [illegible]
Bore Stroke Number Cylinders Displacement	[illegible] 69.2mm 2 248cc
Compression Ratio Compression Pressure Min Max	8.7:1 9.0:1 [illegible] kg/cm²

Cylinder head cover	[illegible]
Cylinder head	[illegible]

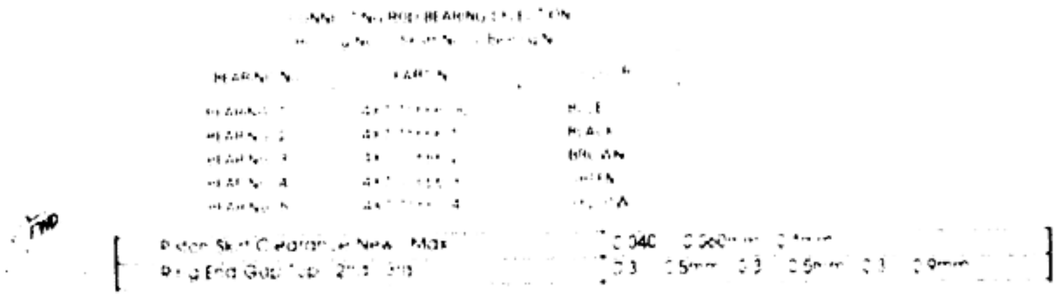
CONTENTS

AIR CLEANER	B-2,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 · F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CRANKSHAFT · PISTON

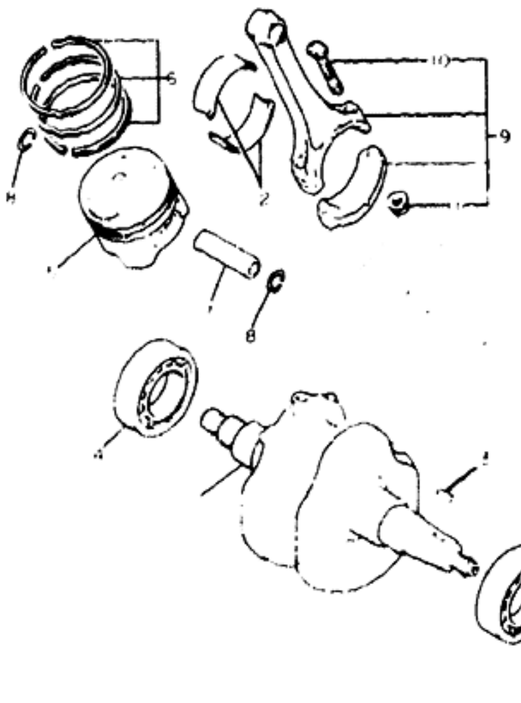


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-11411-00-00	CRANKSHAFT	1	
2	93306-30807-00	BEARING (B6308C4 Special)	1	
3	4X7-13354-00-00	SPROCKET, drive	1	
4	93306-30806-00	BEARING (B6308C3 Special)	1	
5	4X7-11631-00-A0	PISTON (STD)	2	
	4X7-11635-00-00	PISTON (1st O/S 0.25MM)	2	Alternate Part
	4X7-11636-00-00	PISTON (2nd O/S 0.50MM)	2	Alternate Part
	4X7-11637-00-00	PISTON (3rd O/S 0.75MM)	2	Alternate Part
6	4X7-11610-02-00	PISTON RING SET (STD)	2	
	4X7-11610-12-00	PISTON RING SET (1st O/S)	2	Alternate Part
	4X7-11610-22-00	PISTON RING SET (2nd O/S)	2	Alternate Part
	4X7-11610-32-00	PISTON RING SET (3rd O/S)	2	Alternate Part



CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K-L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

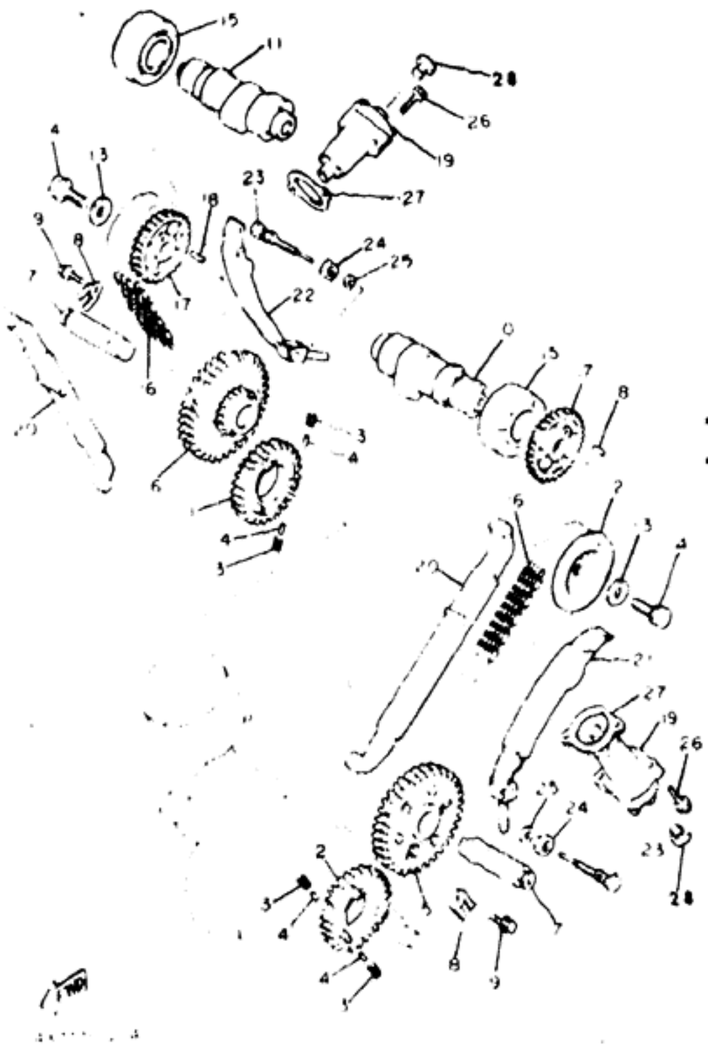


Ref. No.	Part Number	Description	Qty	Remarks
7	4X7-11633-00-00	PIN, piston	2	
8	93450-22027-00	CIRCLIP	4	
9	4X7-Y1165-01-00	CONNECTING ROD ASS'Y	2	
10	4X7-11654-01-00	. BOLT, connecting rod	2	
11	90179-09331-00	. NUT	2	
12	4X7-11656-00-00	PLANE BEARING, connecting rod	4	U.R. Blue
	4X7-11656-10-00	PLANE BEARING, connecting rod	4	U.R. Black
	4X7-11656-20-00	PLANE BEARING, connecting rod	4	U.R. Brown
	4X7-11656-30-00	PLANE BEARING, connecting rod	4	U.R. Green
	4X7-11656-40-00	PLANE BEARING, connecting rod	4	U.R. Yellow
13	90280-05013-00	KEY, woodruff	1	
14	90201-14226-00	WASHER, plate	1	
15	90179-14317-00	NUT	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10 11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7 -9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 - F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E -
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 - F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rev-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CAMSHAFT · CHAIN

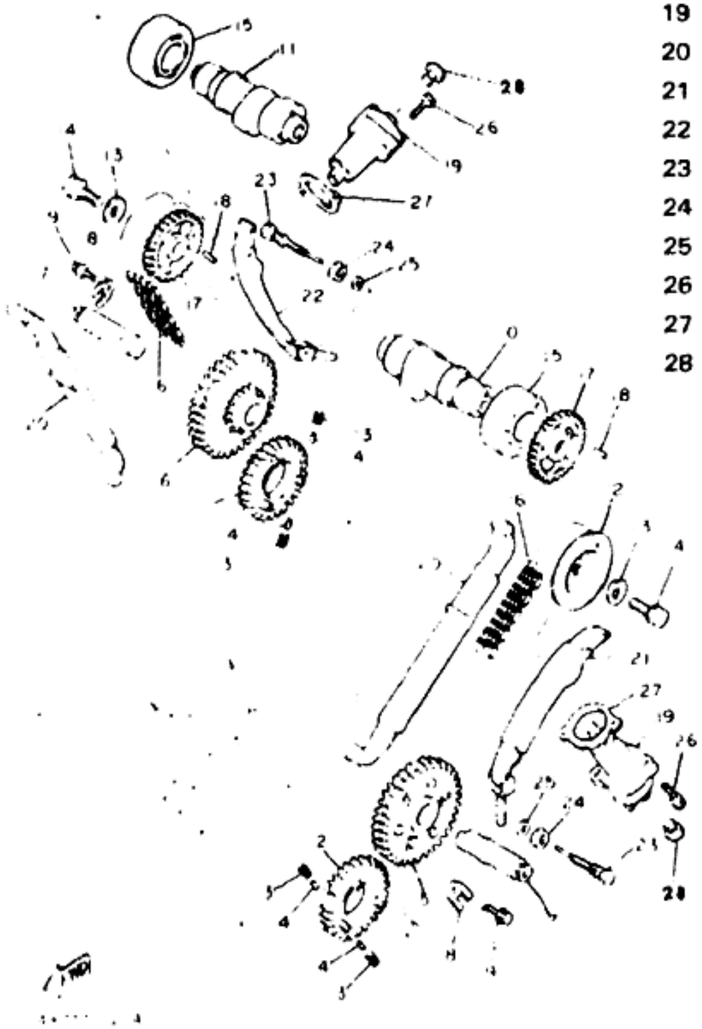


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-11536-00-00	GEAR, drive (35T)	1	
2	4X7-11534-00-00	GEAR, breaker drive (35T)	1	
3	90501-21133-00	SPRING, compression	12	
4	93605-10090-00	PIN, dowel	12	
5	4X7-11540-01-00	CAM CHAIN SPROCKET ASS'Y (20/50T)	1	
6	4X7-11550-00-00	CAM CHAIN SPROCKET ASS'Y (20/50T)	1	
7	4X7-12247-01-00	SHAFT, tensioner	2	
8	90209-06205-00	WASHER	2	
9	90105-06154-00	BOLT, washer based	2	
*10	4X7-12171-01-00	CAMSHAFT 1 (4X7-12171-00)	1	
*11	4X7-12181-01-00	CAMSHAFT 2 (4X7-12181-00)	1	
12	4X7-11145-00-00	PLATE, breather 2	1	
13	90201-10591-00	WASHER, plate	2	
14	90101-10303-00	BOLT	2	
15	90380-25125-00	BUSH, solid	2	
16	94590-46098-00	CHAIN (94590-27098)	2	
17	4X7-12176-00-00	SPROCKET, cam chain (26T)	2	
18	93604-10011-00	PIN, dowel	2	

*Indicates new part numbers activated from March, 1982.

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 -9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-6
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWINGARM	D-9
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

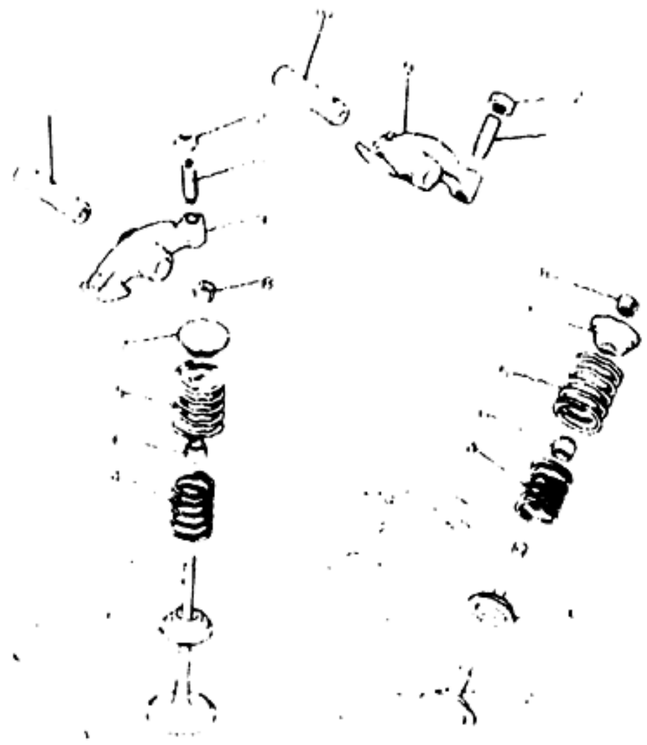


Ref No	Part Number	Description	Qty	Remarks
19	4X7-12210-01-00	TENSIONER ASS'Y, cam chain	2	
20	4X7-12231-00-00	GUIDE, stopper 1	2	
21	4X7-12241-00-00	GUIDE, stopper 2	1	
22	4X7-12221-00-00	GUIDE, stopper 3	1	
23	90109-08592-00	BOLT	2	
24	95301-08700-00	NUT	2	
25	92901-06600-00	WASHER, plate	2	
26	91311-06025-00	BOLT	4	
27	4X7-12213-00-00	GASKET, tensioner case	2	
28	90338-06121-00	PLUG, tensioner	2	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12, F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
[illegible] DRIVE GEAR	C-6,7
[illegible]	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	F-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4*
STAND	F-1, F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	F-1,2
SWING ARM	D-8
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K-1
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

VALVE

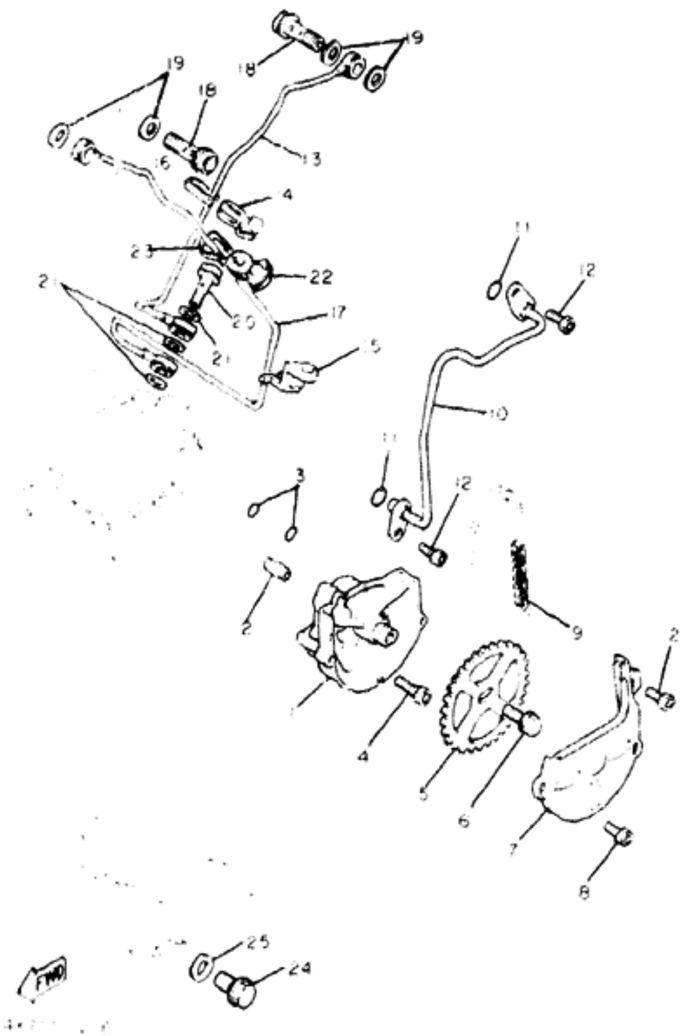


Ref No	Part Number	Description	Qty	Remarks
1	4X7-12111-00-00	VALVE, intake	2	
2	4X7-12121-00-00	VALVE, exhaust	2	
3	4X7-12116-00-00	SEAT, valve spring	4	
4	90501-31454-00	SPRING, compression	4	
5	90501-44455-00	SPRING, compression	4	
6	341-12119-02-00	SEAL, valve stem	4	
7	4X7-12117-00-00	RETAINER, valve spring	4	
8	4X7-12118-00-00	COTTER, valve	8	
9	4X7-12151-00-00	ARM, valve rocker (4X7-12151-09)	4	
10	4X7-12156-01-00	SHAFT, rocker (4X7-12156-00)	4	
11	4X7-12159-00-00	SCREW, valve adjusting	4	
12	90170-08173-00	NUT	4	

CONTENTS

AIR CLEANER	B 3 4
CABLE	E 10
CAMSHAFT	A 10 11
CARBURETOR	B 5 6
CHAIN	A 10 11
CLUTCH	C 2 3
CRANKCASE	B 8
CRANKCASE COVER	B 9 10
CRANKSHAFT	A 8 9
CYLINDER HEAD	A 7
CYLINDER	A 5 6
DRIVE SHAFT	D 7 9
ELECTRICAL 1	G 6 7
ELECTRICAL 2	G 8
EXHAUST	B 7
FENDER	D 3
FOOTREST	F 12 I 2
FRAME	D 1 2
FRONT BRAKE CALIPER	F 7
FRONT FORK	D 11 12
FRONT MASTER CYL	F 11
FRONT WHEEL	F 6
FUEL TANK	E 3 4
GENERATOR	B 11
HANDLEBAR	E 10
HANDLE SWITCH	G 9
HEADLIGHT	G 3
LEVER	G 9
METER	G 1 2
MIDDLE DRIVE GEAR	C 6 7
OIL FILTER	B 2
OIL PUMP	B 1
PISTON	A 8 9
REAR SHOCKS	D 10
REAR WHEEL	E 8 9
SEAT	E 5
SERVICE DATA	J 1
SHIFT CAM	C 8
SHIFT FORK	C 8
SHIFT SHAFT	C 9
SIDE COVER	D 4 5
STAND	F 12 I 2
STARTER CLUTCH	C 1
STARTING MOTOR	B 12
STEERING	E 1 2
SWING ARM	D 6
TAILLIGHT	G 4
TECHNICAL BULLETINS	Row K 1
TOOL	D 4 5
TOP END GASKET KIT	H 1
TRANSMISSION	C 4 5
TURNSIGNAL	G 5
VALVE	A 12

OIL PUMP



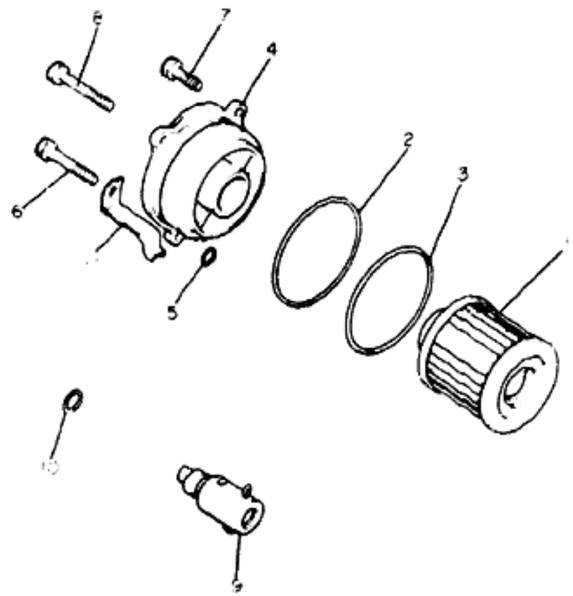
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-13300-00-00	OIL PUMP ASS'Y	1	
2	99510-08016-00	PIN, dowel (91810-18016)	1	
3	93210-07155-00	O-RING	2	
4	91316-06040-00	BOLT	3	
5	4X7-13355-00-00	SPROCKET, driven (35T)	1	
6	90105-06154-00	BOLT, washer based	1	
7	4X7-13327-00-00	COVER, pump gear	1	
8	91316-06010-00	BOLT	2	
9	94580-25066-00	CHAIN	1	
10	4X7-13171-00-00	PIPE, delivery 2	1	
11	93210-07155-00	O-RING	2	
12	91316-06010-00	BOLT	3	
13	4X7-13405-00-00	OIL PIPE COMP. 1	1	
14	4X7-15485-01-00	CLAMP	1	
15	4X7-15484-00-00	CLAMP 2	1	
16	90468-05113-00	CLIP	1	
17	4X7-13406-00-00	OIL PIPE COMP. 2	1	
18	90401-16067-00	BOLT, union	2	
19	90430-17168-00	GASKET	4	
20	90401-10066-00	BOLT, union	1	
21	90430-15169-00	GASKET	3	
22	4X7-15485-01-00	CLAMP	1	
23	90468-05113-00	CLIP	1	
24	90340-14042-00	PLUG, straight screw	1	
25	214-11198-01-00	GASKET	1	

Oil Pressure Hot rpm	NA
Oiling System	Wet Sump
Capacity Dry	3600cc
Oil and Filter Change	3100cc
Oil Change	3000cc
Lubricant Temp Above 5°C (40°F)	SAE 20W-40 or SAE 20W-40
Temp Below 15°C (60°F)	SAE 10W30

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

OIL FILTER



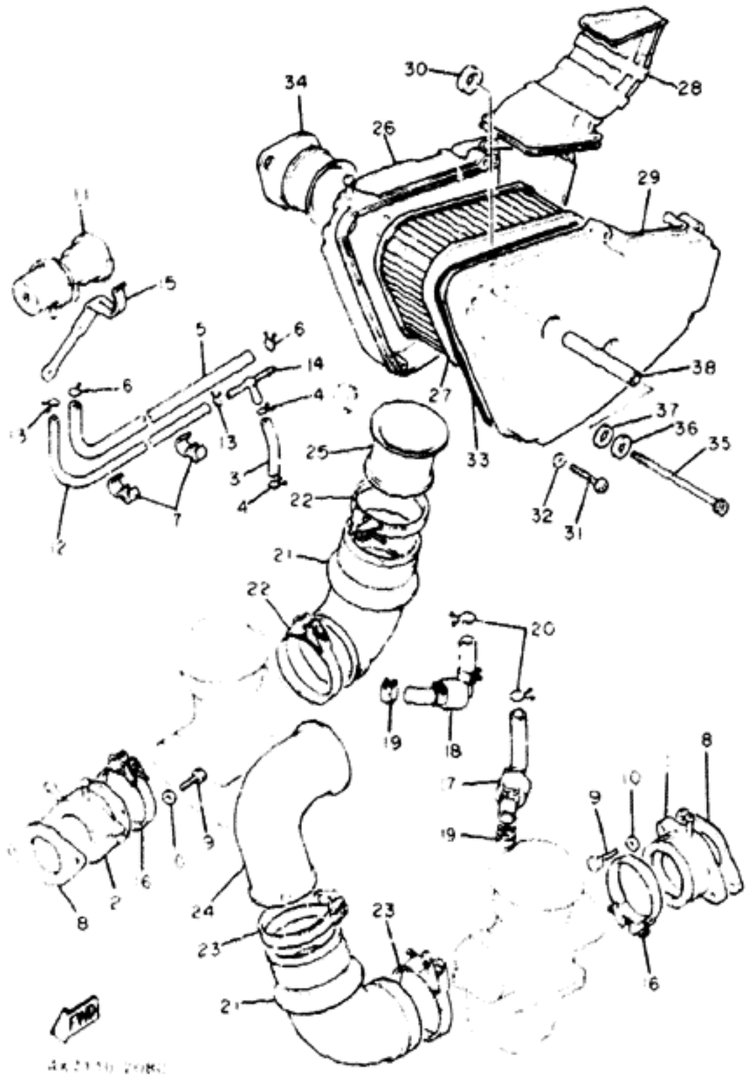
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-13440-90-00	ELEMENT ASS'Y, oil cleaner	1	
2	93210-58346-00	O-RING	1	See Note
3	93210-54452-00	O-RING	1	
4	4X7-13447-01-00	COVER, oil element	1	See Note
5	93210-07155-00	O-RING (93210-07135)	1	
6	90109-06511-00	BOLT (90109-06586)	1	
7	91311-06020-00	BOLT	1	
8	91311-06050-00	BOLT	1	
9	4G0-13490-01-00	RELIEF VALVE ASS'Y	1	
10	93210-10096-00	O-RING	1	
11	90462-10098-00	CLAMP	1	

Note: When replacing oil element cover with new style, *4X7-13447-01-00, reference #2 O-RING, must be changed to *93210-56459-00 (XV750K style). If cover is not replaced, correct O-RING is shown.

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

AIR CLEANER

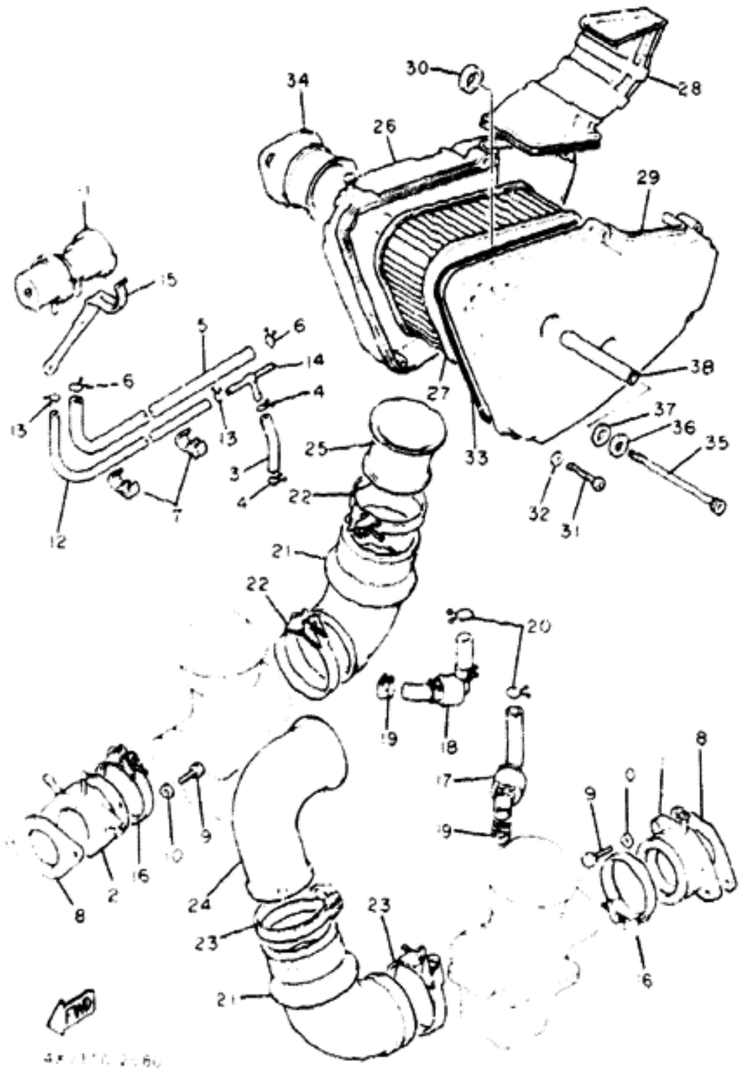


Ref. No.	Part Number	Description	Qty.	Remarks
1	99999-01416-00	JOINT, carburetor 1 (4X7-13586-01)	1	
	10L-13586-01-00	. JOINT, carburetor 1	1	
	90460-59213-00	. CLAMP, hose	1	
	93210-44545-00	. O-RING	1	
2	99999-01417-00	JOINT, carburetor 2 (4X7-13596-00)	1	
	10L-13596-01-00	. JOINT, carburetor 2	1	
	90460-59213-00	. CLAMP, hose	1	
	93210-44545-00	. O-RING	1	
3	4X7-13544-00-00	HOSE, vacuum sensing 2	1	
4	90467-08003-00	CLIP	2	
5	4X7-13543-01-00	HOSE, air	1	
6	90467-10008-00	CLIP	2	
7	90468-02111-00	CLIP	2	
8	4X7-13556-00-00	GASKET, manifold	2	
9	97321-06020-00	BOLT	4	
10	92901-06600-00	WASHER (92901-06600)	4	
11	4X7-13541-00-00	VALVE, mixture control	1	
12	4X7-13542-00-00	HOSE, vacuum sensing 1	1	
13	90467-07029-00	CLIP	2	
14	4X7-13595-00-00	JOINT	1	
15	90462-08092-00	CLAMP	1	
16	90460-60165-00	CLAMP, hose	2	
17	4X7-14197-02-00	PIPE	1	
18	4X7-14987-02-00	HOSE	1	
19	90467-14057-00	CLIP	2	
20	90467-14015-00	CLIP	2	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

AIR CLEANER

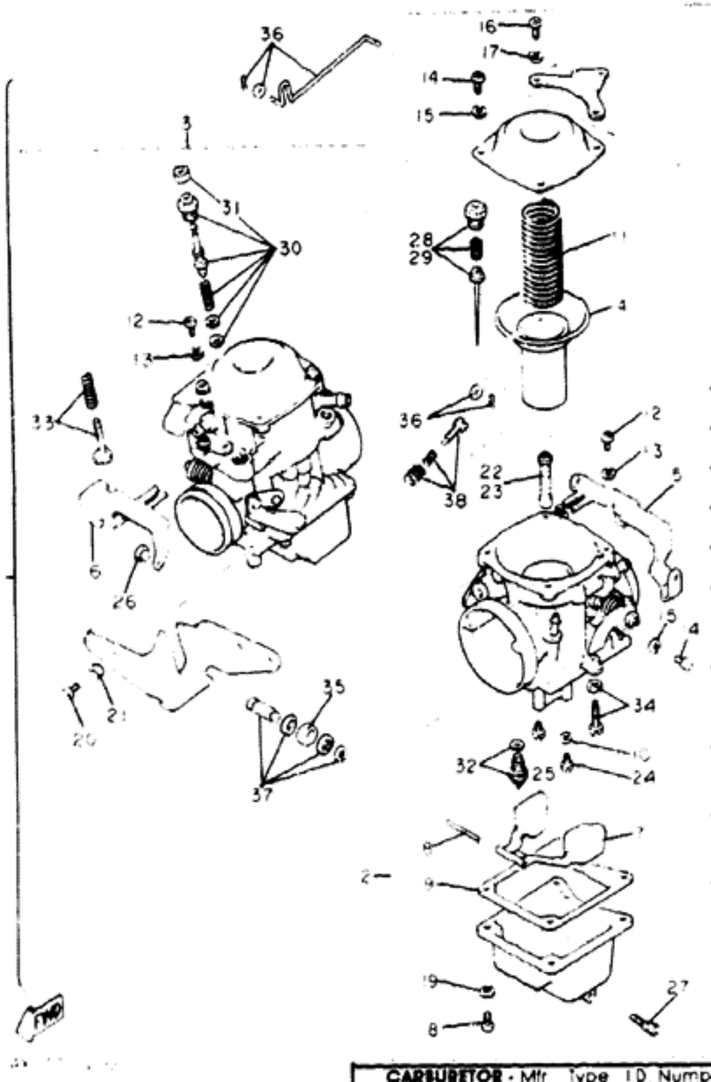


Ref. No.	Part Number	Description	Qty.	Remarks
21	4X7-14453-01-00	JOINT, air cleaner 1	2	
22	90460-65169-00	CLAMP, hose	2	
23	90460-65169-00	CLAMP, hose	2	
24	4X7-14469-00-00	FUNNEL, air	1	
25	4X7-14479-00-00	FUNNEL	1	
26	4X7-14401-00-00	AIR CLEANER CASE ASS'Y	1	
27	4X7-14451-00-00	ELEMENT, air cleaner	1	
28	4X7-14437-00-00	DUCT	1	
29	4X7-14402-00-00	CAP, cleaner case 2	1	
30	4X7-14457-00-00	SEAL	2	
31	98501-05030-00	SCREW, pan head (98502-05030)	5	
32	92901-05600-00	WASHER, plate	5	
33	4X7-14452-00-00	SEAL	1	
34	4X7-1441J-00-00	PIPE, silencer	1	
35	91312-06100-00	BOLT	2	
36	90201-06068-00	WASHER, plate (90201-06008)	2	
37	90202-10120-00	WASHER, plate	2	
38	90560-06203-00	SPACER	2	

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CABLE	E-10
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CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
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STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CARBURETOR



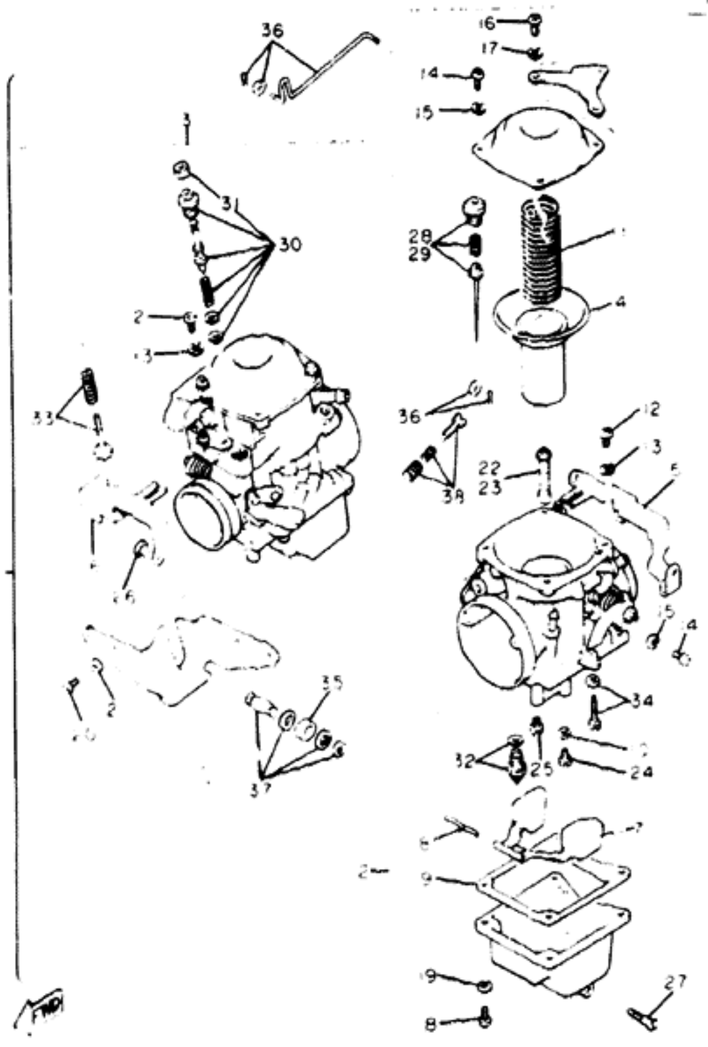
Ref. No.	Part Number	Description	Qty.	Remarks
1	(4X7-14900-01-00)	CARBURETOR ASS'Y	1	N/A
2	4X7-14901-01-00	. CARBURETOR ASS'Y 1	1	
3	4X7-14902-01-00	. CARBURETOR 2	1	
4	4X7-14940-01-00	. . DIAPHRAGM ASS'Y	2	
5	4X7-14975-00-00	. . LEVER, starter 1	1	
6	4X7-14976-00-00	. . LEVER, starter 2	1	
7	4X7-14985-00-00	. . FLOAT	2	
8	4H7-14186-00-00	. . PIN, float (4X7-14186-00)	2	
9	4X7-14984-00-00	. . GASKET, float chamber	2	
10	4H7-14945-00-00	. . WASHER, main jet	2	
11	4X7-14933-00-00	. . SPRING, diaphragm 1	2	
12	98501-04008-00	. . SCREW, pan head	4	
13	92901-04100-00	. . WASHER, spring	4	
14	98501-05010-00	. . SCREW, pan head	5	
15	92990-05100-00	. . WASHER, spring (92903-05100)	5	
16	98580-05012-00	. . SCREW, pan head (98503-05012)	4	
17	92903-05100-00	. . WASHER, spring (92901-05100)	4	
18	98580-05016-00	. . SCREW, pan head (98501-05016)	8	
19	92903-05100-00	. . WASHER, spring (92901-05100)	8	

CARBURETOR - Mfr Type I.D. Number	[illegible] #SC40 4X7-00
Main Jet Pilot Jet	#22 #4
Needle Jet Jet Needle-Clip Position	[illegible] #1 Y-23 #2 Y-22 Fixed
Side Cutaway or Throttle Valve	[illegible]
Float Level Fuel Level	N/A #1 [illegible] ± [illegible]mm #2 2.0 ± 1.0mm
Idle rpm	1000
Max CO* Max HC* Set CO	[illegible] % 500 ppm [illegible] Air Settings [illegible] deg

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CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~ 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CARBURETOR

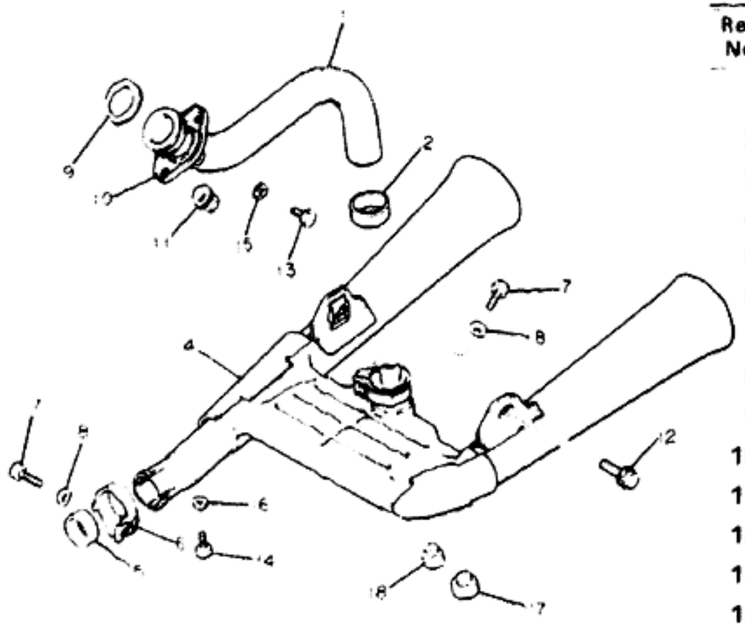


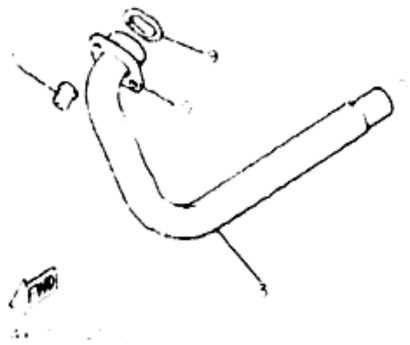
Ref. No.	Part Number	Description	Qty.	Remarks
20	92501-06014-00	. . SCREW, pan head	4	
21	92990-06100-00	. . WASHER, spring (92903-06100)	4	
22	4X7-14921-07-00	. . NOZZLE, main	1	
23	4X7-14321-32-00	. . NOZZLE, main	1	
24	4X7-14925-22-00	. . JET, main (#122)	2	
25	4X7-14948-41-00	. . JET, pilot (#41)	2	
26	4X7-14998-00-00	. . BUSH	2	
27	4X7-14191-01-00	. . PLUG, drain	2	
28	4X7-14916-23-00	. . NEEDLE SET 1	1	
29	4X7-14916-22-00	. . NEEDLE SET 2	1	
30	4X7-14371-01-00	. . STARTER PLUNGER KIT	2	
31	4H7-14173-00-00	. . . COVER, plunger cap	2	
32	4X7-14390-00-00	. . NEEDLE VALVE ASS'Y	2	
33	4X7-14121-00-00	. . THROTTLE SCREW W/SPRING 1	1	
34	4X7-14321-01-00	. . THROTTLE SCREW W/SPRING 2	1	
35	4X7-14267-00-00	. ROLLER	1	
36	4X7-14188-00-00	. CONNECTOR SET	1	
37	4X7-14962-00-00	. WASHER SET	1	
38	4X7-14522-00-00	. ADJUST SCREW SET	1	

CARBURETOR - Mfr Type ID Number	[illegible] 5C4C 4X7-00
Main Jet Pilot Jet	#122 #41
Needle Jet Jet Needle Clip Position	#1 #2 x 23 #2 x 22 Fixed
Slide Cutaway of Throttle Valve	[illegible]
Float Level Fuel Level	NA #1 10 ± 1.0mm #2 20 ± 1.0mm
Idle rpm	1300
Max CO% Max HC% Set CO	7% 500 ppm 3% (At Settings Listed)

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AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rev. K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12





EXHAUST

Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-14611-00-00	PIPE, exhaust 1	1	
2	1T1-14714-00-00	GASKET, muffler (1T1-14714-01)	1	
3	4X7-14621-00-00	PIPE, exhaust 2	1	
4	4X7-14711-01-00	MUFFLER 1	1	
5	1J7-14714-00-00	GASKET, muffler	1	
6	26H-14796-00-00	BAND, muffler (2H9-14725-00)	1	
7	97311-08025-00	BOLT	2	
8	92901-08600-00	WASHER, plate	2	
9	4X7-14613-00-00	GASKET, exhaust pipe	2	
10	4X7-14612-00-00	NUT, ring	2	
11	90179-08210-00	NUT	4	
12	95821-10035-00	BOLT, flange	2	
13	91316-06012-00	BOLT	1	
14	91316-06012-00	BOLT	1	
15	92990-06600-00	WASHER, plate	1	
16	92990-06600-00	WASHER, plate	1	
17	1A0-27114-00-00	STOPPER, main stand	1	
18	341-27314-02-00	STOPPER	1	

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

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AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
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SERVICE DATA	J-1
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SHIFT SHAFT	C-9
SIDE COVER	D-4,5
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TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CRANKCASE



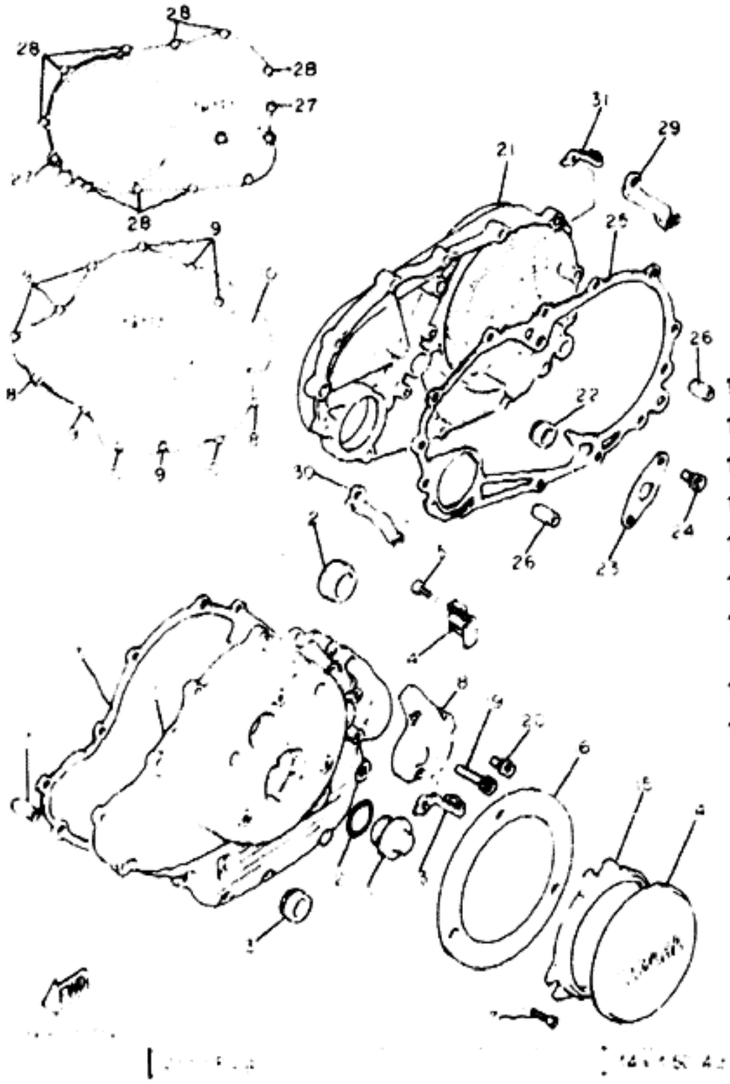
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-15100-03-00	CRANKCASE ASS'Y (4X7-15100-01)	1	
2	99530-14016-00	. PIN, dowel (91830-24016)	3	
3	95611-10660-00	BOLT, stud	1	
4	95611-10630-00	BOLT, stud	1	
5	95611-10690-00	BOLT, stud	1	
6	95611-10635-00	BOLT, stud	1	
7	93210-07155-00	O-RING	1	
8	93210-07135-00	O-RING	1	
9	90387-064E8-00	COLLAR	1	
10	91311-10100-00	BOLT	1	
11	91311-10070-00	BOLT	1	
12	91311-10060-00	BOLT	1	
13	91311-06080-00	BOLT	2	
14	91311-06055-00	BOLT	1	
15	91311-06030-00	BOLT	13	
16	90430-06014-00	GASKET	1	
17	4X7-15363-00-00	PLUG, oil	1	
18	93210-29198-00	O-RING	1	
19	90465-10168-00	CLAMP	1	
20	4X7-15491-00-00	PROTECTOR	1	
21	4X7-13419-00-00	PLUG	1	
22	90480-20302-00	GROMMET	1	

Oiling System	Wet Sump
Capacity Dry	3600cc
Oil and Filter Change	3100cc
Oil Change	3000cc
Lubricant Temp Above 5°C (40°F)	Yamalube 4 or SAE 20W40
Temp Below 5°C (40°F)	SAE 10W30
Engine Mounting Bolts Bracket Front	12 x 1.25 54 N·m
Bolt Front	10 x 1.25 55 N·m
Bolt Rear	10 x 1.25 55 N·m
Bolt Rear Upper	10 x 1.25 55 N·m
Bolt Rear Lower	10 x 1.25 55 N·m
Unit Bolt	14 x 1.5 43 N·m

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FOOTREST	E-12~F-2
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FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
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GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
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OIL PUMP	B-1
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REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K-L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CRANKCASE COVER

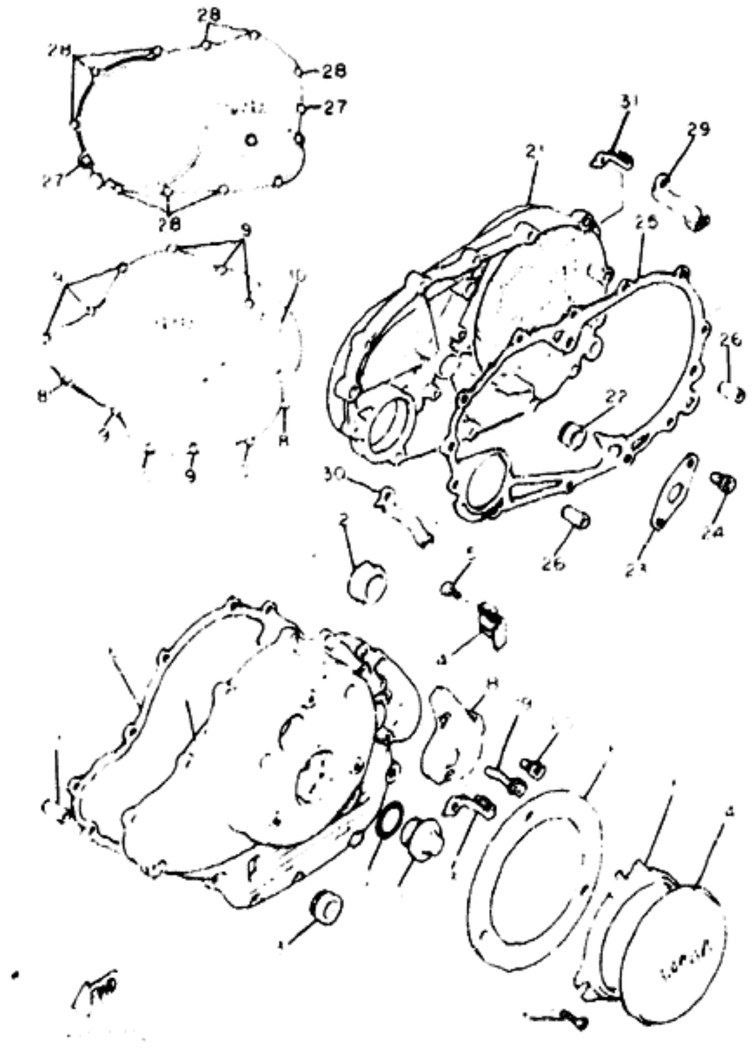


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-15411-02-00	COVER, crankcase 1 (4X7-15411-00)	1	
2	4X7-15361-00-00	GAUGE, level	1	
3	2H7-15361-00-00	GAUGE, level	1	
4	90462-08073-00	CLAMP	1	
5	92580-06010-00	SCREW, pan head (92503-06010)	1	
6	4X7-15451-00-00	GASKET, crankcase cover	1	
7	99530-10014-00	PIN, dowel (91830-21014)	2	
8	91311-06040-00	BOLT	2	
9	91311-06030-00	BOLT	8	
10	91311-06020-00	BOLT	3	
11	1L9-11186-00-00	COVER, cylinder head side 2	1	
12	93210-32172-00	O-RING	1	
13	90462-08076-00	CLAMP	1	
14	4X7-15415-00-00	COVER, generator	1	
15	4X7-15455-00-00	GASKET 1	1	
16	42X-15425-01-00	COVER, generator 2 (4X7-15425-00)	1	
17	92603-06016-00	SCREW, oval head	3	
18	4X7-15417-00-00	COVER, cap	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7 - 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 - F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 - F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CRANKCASE COVER

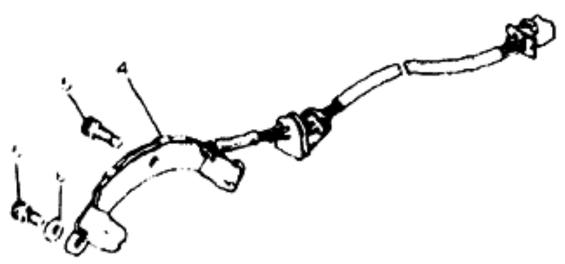


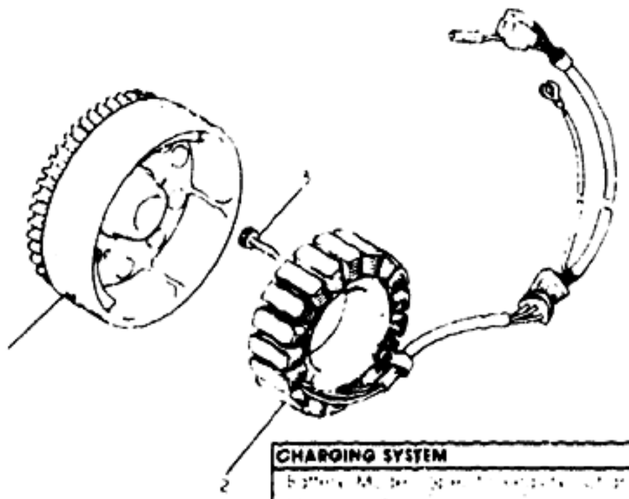
Ref. No.	Part Number	Description	Qty.	Remarks
19	91311-06055-00	BOLT	1	
20	91311-06016-00	BOLT	1	
21	4X7-15421-01-00	COVER, crankcase 2	1	
22	93101-14102-00	OIL SEAL	1	
23	4X7-15388-00-00	PLATE, bearing cover	1	
24	91316-06016-00	BOLT	2	
25	4X7-15462-00-00	GASKET, crankcase cover 3	1	
26	91830-21020-00	PIN, dowel	2	
27	91311-06040-00	BOLT	2	
28	91311-06025-00	BOLT	9	
29	90462-08075-00	CLAMP	1	
30	90462-10085-00	CLAMP	2	
31	90462-08076-00	CLAMP	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~ 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

GENERATOR





Ref No	Part Number	Description	Qty	Remarks
1	4X7-81450-21-00	ROTOR ASS'Y (4X7-81450-20)	1	
2	4X7-81410-20-00	STATOR ASS'Y	1	
3	91316-06040-00	BOLT	3	
4	4X7-81670-20-00	PICK-UP ASS'Y	1	
5	91316-06016-00	BOLT	3	
6	90201-06674-00	WASHER, plate	2	

CHARGING SYSTEM	
IGNITION SYSTEM	

CONTENTS

AIR CLEANER	B 3 4
CABLE	F 10
CAMSHAFT	A 10 11
CARBURETOR	B 5 6
CHAIN	A 10 11
CLUTCH	C 2 3
CRANKCASE	B 8
CRANKCASE COVER	B 9,10
CRANKSHAFT	A 8 9
CYLINDER HEAD	A 7
CYLINDER	A 5 6
DRIVESHAFT	D 7 9
ELECTRICAL 1	G 6 7
ELECTRICAL 2	G 8
EXHAUST	B 7
FENDER	D 3
FOOTREST	F 12 F 2
FRAME	D 1 2
FRONT BRAKE CALIPER	F 7
FRONT FORK	D 11 12
FRONT MASTER CYL	E 11
FRONT WHEEL	E 6
FUEL TANK	E 3 4
GENERATOR	B 11
HANDLEBAR	E 10
HANDLE SWITCH	G 9
HEADLIGHT	G 3
LEVER	G 9
METER	G 1,2
MIDDLE DRIVE GEAR	C 6 7
OIL FILTER	B 2
OIL PUMP	B 1
PISTON	A 8 9
REAR SHOCKS	D 10
REAR WHEEL	E 8 9
SEAT	E 5
SERVICE DATA	J 1
SHIFT CAM	C 8
SHIFT FORK	C 8
SHIFT SHAFT	C 9
SIDE COVER	D 4 5
STAND	E 12 F 2
STARTER CLUTCH	C 1
STARTING MOTOR	B 12
STEERING	E 1,2
SWING ARM	D 6
TAILLIGHT	G 4
TECHNICAL BULLETINS	Row K.I
TOOL	D 4 5
TOP END GASKET KIT	H 1
TRANSMISSION	C 4 5
TURNSIGNAL	G 5
VALVE	A 12



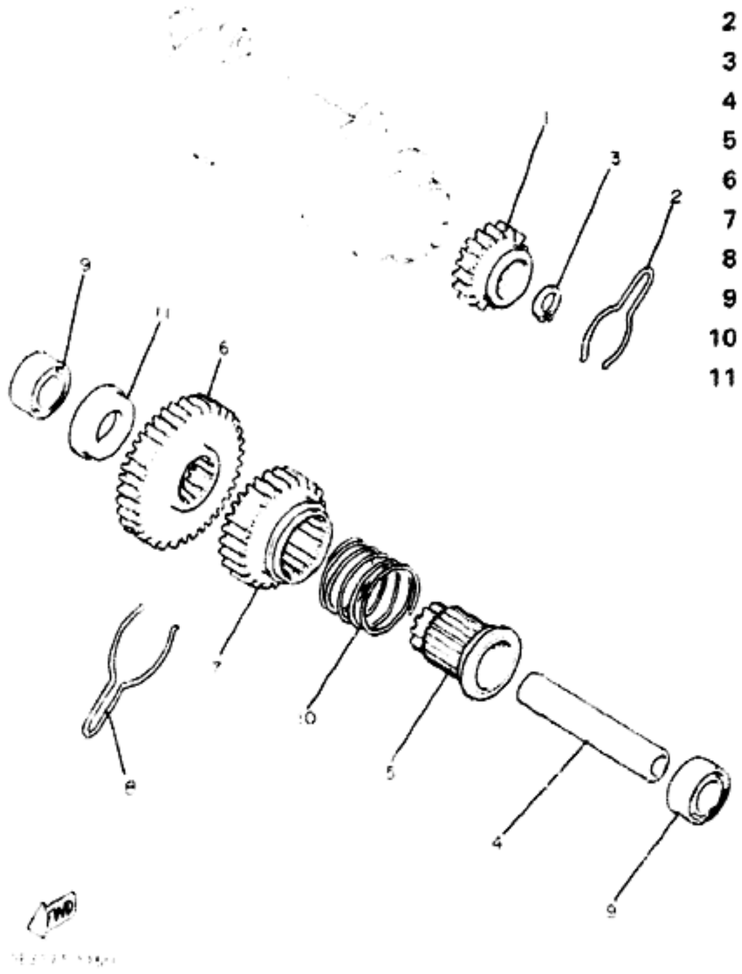
STARTING MOTOR

Ref. No	Part Number	Description	Qty.	Remarks
1	42X-81800-60-00	STARTING MOTOR ASS'Y (4X7-81800-60)	1	
2	371-81826-20-00	. BOLT (4X7-81826-60)	1	
3	371-81809-20-00	. WASHER KIT	1	
4	371-81847-20-00	. O-RING	1	
5	1J7-81840-60-00	. BRUSH HOLDER ASS'Y	1	
6	371-81811-20-00	BRUSH 1	1	
7	371-81812-20-00	. BRUSH 2	1	
8	98501-03008-00	. SCREW, pan head	2	
9	4X7-81830-60-00	. FRONT BRACKET ASS'Y	1	
10	4X7-81844-60-00	. . GASKET	1	
11	371-81847-20-00	. . O-RING	1	
12	1J7-81847-60-00	. . O-RING	1	
13	95821-06025-00	BOLT, flange	2	
14	42X 81815 00 00	WIRE, Starter	1	

CONTENTS

AIR CLEANER	B 3 4
CABLE	F 10
CAMSHAFT	A 10 11
CARBURETOR	B 5 6
CHAIN	A 10 11
CLUTCH	C 2 3
CRANKCASE	B 8
CRANKCASE COVER	B 8 10
CRANKSHAFT	A 8 9
CYLINDER HEAD	A 7
CYLINDER	A 5 6
DRIVE SHAFT	D 7 9
ELECTRICAL 1	G 5 7
ELECTRICAL 2	G 8
EXHAUST	B 7
FENDER	D 3
FOOTREST	E 12 F 2
FRAME	D 1 2
FRONT BRAKE CALIPER	E 7
FRONT FORK	D 11 12
FRONT MASTER CYL	E 11
FRONT WHEEL	F 8
FUEL TANK	E 3 4
GENERATOR	B 11
HANDLEBAR	E 10
HANDLE SWITCH	G 9
HEADLIGHT	G 3
LEVER	G 9
METER	G 1 2
MIDDLE DRIVE GEAR	C 6 7
OIL FILTER	B 2
OIL PUMP	B 1
PISTON	A 8 9
REAR SHOCKS	D 10
REAR WHEEL	E 8 9
SEAT	E 5
SERVICE DATA	J 1
SHIFT CAM	C 8
SHIFT FORK	C 8
SHIFT SHAFT	C 9
SIDE COVER	D 4 5
STAND	E 12 F 2
STARTER CLUTCH	C 1
STARTING MOTOR	B 12
STEERING	E 1 2
SWING ARM	D 8
TAILLIGHT	G 4
TECHNICAL BULLETINS	Rear K 1
TOOL	D 4 5
TOP END GASKET KIT	H 1
TRANSMISSION	C 4 5
TURNSIGNAL	G 5
VALVE	A 12

STARTER CLUTCH

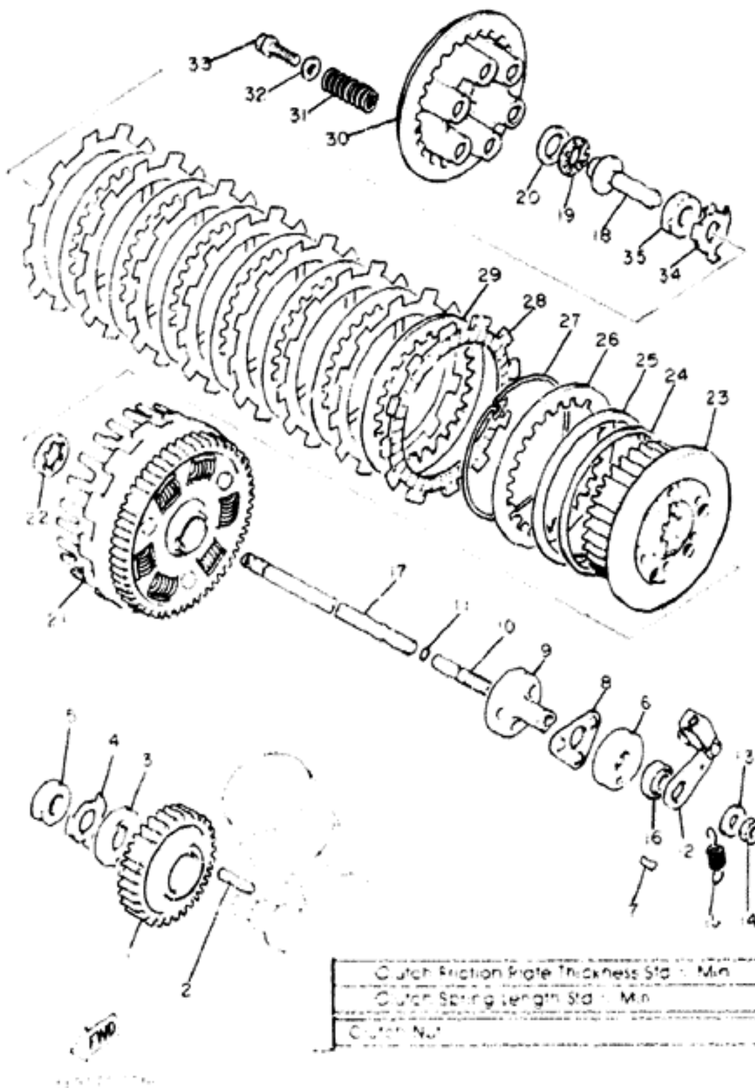


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-15511-00-00	GEAR, starting motor (19T)	1	
2	90468-29105-00	CLIP (90468-29105)	1	
3	99009-13400-00	CIRCLIP	1	
4	4X7-15521-00-00	SHAFT 1	1	
5	4X7-15524-00-00	WHEEL, starter (23T)	1	
6	4X7-15512-00-00	GEAR, idler 1 (35T)	1	
7	4X7-15517-00-00	GEAR, idler 2 (27T)	1	
8	90468-29106-00	CLIP	1	
9	90387-172E5-00	COLLAR	2	
10	90501-15636-00	SPRING, compression	1	
11	90387-170E5-00	COLLAR	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E 10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-8
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CLUTCH



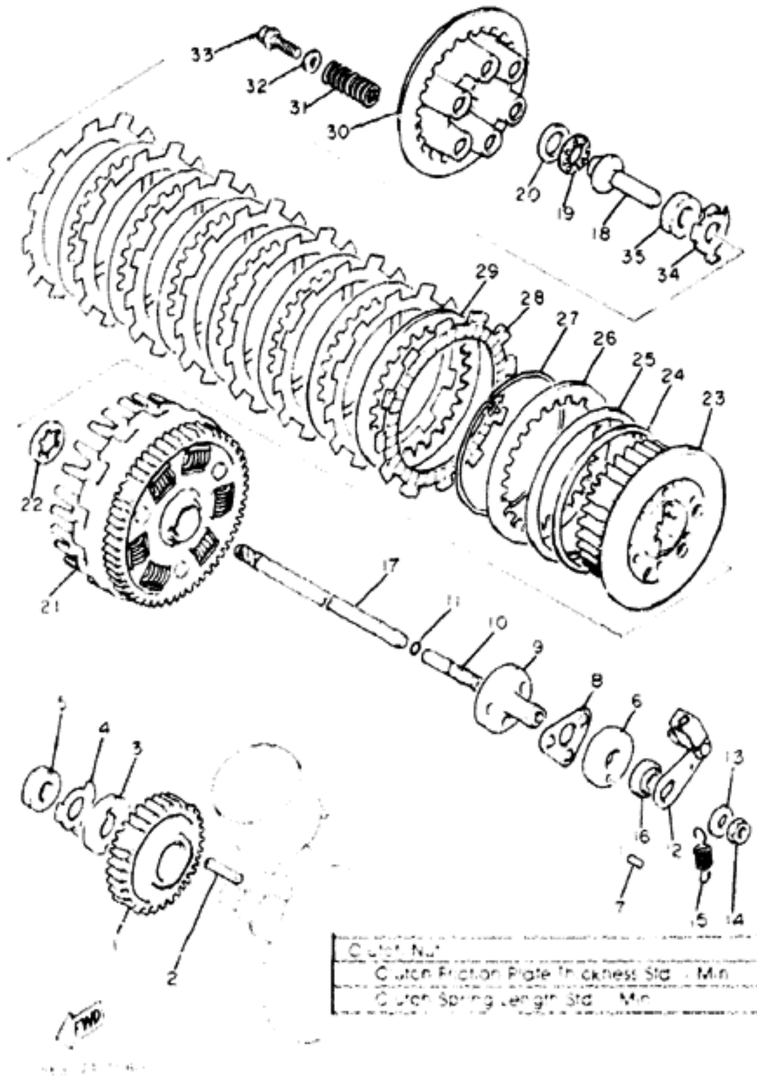
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-16111-00-00	GEAR, primary drive (47T)	1	
2	90282-07042-00	KEY, straight	1	
3	90214-20022-00	WASHER, claw	1	
4	90215-20182-00	WASHER, lock	1	
5	90170-20274-00	NUT	1	
6	2H7-16396-00-00	HOUSING, push screw	1	
7	93606-07082-00	PIN, dowel	1	
8	2H7-16395-01-00	RETAINER, ball	1	
9	2H7-16341-00-00	SCREW, push	1	
10	2H7-16343-00-00	SCREW, adjusting	1	
11	93210-48364-00	O-RING	1	
12	4X7-16340-00-00	PUSH LEVER ASS'Y	1	
13	92903-08200-00	WASHER, plain (92901-08200)	1	
14	9530[illegible]-08700-00	NUT	1	
15	90506-[illegible]0069-00	SPRING, tension	1	
16	93104-14059-00	OIL SEAL	1	
17	4X7-16357-00-00	ROD, push 2	1	
18	4X7-16356-00-00	ROD, push 1	1	
19	93340-21505-00	BEARING	1	
20	90201-151A7-00	WASHER, plate	1	

Clutch Friction Plate Thickness Std : Min	3.0 : 2.9mm
Clutch Spring Length Std : Min	41.2 : 40.2mm
Clutch Nut	2.0 x 150 7.0 m-kg

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

CLUTCH



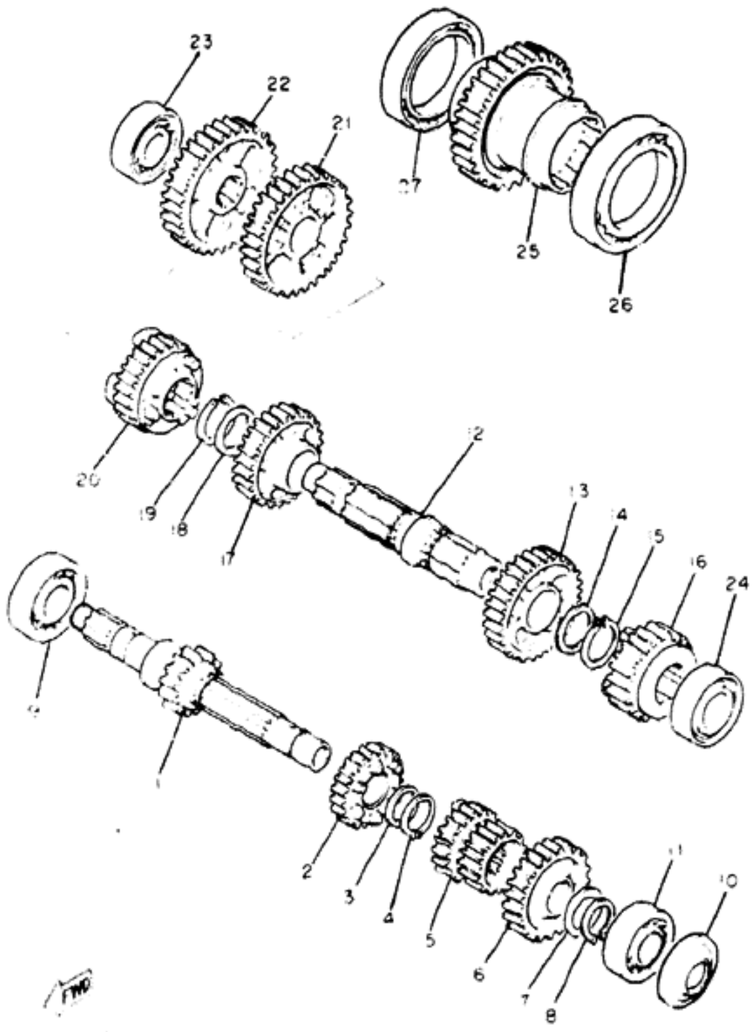
Ref. No.	Part Number	Description	Qty.	Remarks
21	4X7-16150-00-00	PRI. DRIVEN GEAR COMP. (78T)	1	
22	3Y1-16154-00-00	PLATE, thrust 1	1	
23	4X7-16371-00-00	BOSS, clutch	1	
24	4X7-16384-00-00	PLATE, seat	1	
25	4X7-16383-01-00	SPRING, clutch boss	1	
26	4X7-16324-00-00	PLATE, clutch 1	1	
27	4X7-16385-00-00	RING, clutch boss	1	
28	4X7-16321-00-00	PLATE, friction	8	
29	4X7-16325-00-00	PLATE, clutch 2	7	
30	4X7-16351-00-00	PLATE, pressure 1	1	
31	90501-23598-00	SPRING, compression	6	
32	90201-061A5-00	WASHER, plate	6	
33	95821-06025-00	BOLT, flange	6	
34	30215-20231-00	WASHER, lock	1	
35	90170-20327-00	NUT (90170-20257)	1	

Clutch Nut	2.5 × 4.5t 7.0 ~ 9.0 kg-m	
Clutch Friction Plate Thickness Std. : Min.	3.0	2.9mm
Clutch Spring Length Std. : Min.	41.2	40.2mm

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TRANSMISSION



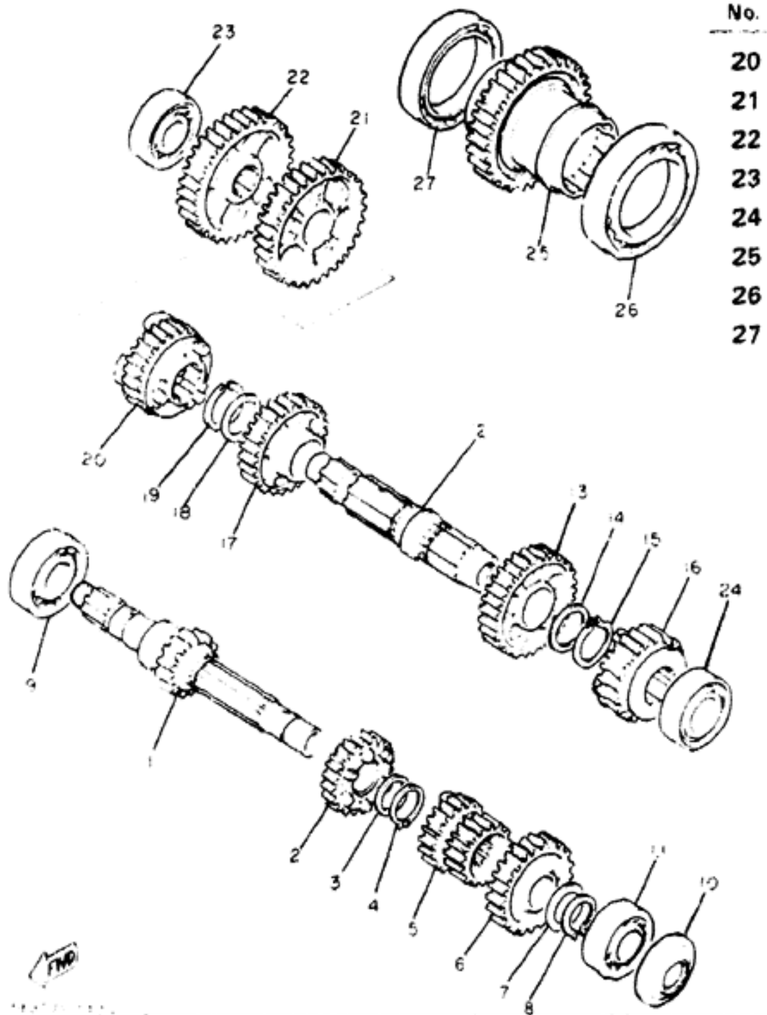
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-17411-00-00	AXLE, main (17T)	1	
2	4X7-17141-00-00	GEAR, 4th pinion (31T)	1	
3	90209-22191-00	WASHER	1	
4	93410-25010-00	CIRCLIP	1	
5	4X7-17121-00-00	GEAR, 2nd/3rd Pinion (24/28T)	1	
6	4X7-17151-01-00	GEAR, 5th pinion (33T)	1	
7	90201-20276-00	WASHER, plate	1	
8	99009-20400-00	CIRCLIP (93410-20009)	1	
9	93306-30525-00	BEARING (B6305)	1	
10	93104-20068-00	OIL SEAL	1	
11	93306-30424-00	BEARING (B6304A3)	1	
12	4X7-17402-00-00	DRIVE AXLE ASS'Y	1	
13	4X7-17221-00-00	GEAR, 2nd wheel (40T)	1	
14	90209-27192-00	WASHER	1	
15	93440-30077-00	CIRCLIP	1	
16	4X7-17251-01-00	GEAR, 5th wheel	1	
17	4X7-17231-00-00	GEAR, 3rd wheel (36T)	1	
18	90209-27192-00	WASHER	1	
19	93440-30077-00	CIRCLIP	1	

TRANSMISSION · Oil Type Qty Chg Qty Reassemble	[redacted]
Primary Drive Type Teeth Ratio	Spur Gear 78-47 1.660
Secondary Drive Type Teeth Chain	Shaft 47-45 x 19-18 x 32-11 [illegible]
Oiling System	Wet Sump
Capacity Dry	3600cc
Oil and Filter Change	3100cc
Oil Change	3000cc
Lubricant Temp Above 5°C (40°F)	Yamalube 4° or SAE 20W40
Temp Below 5°C (40°F)	SAE 10W30

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TRANSMISSION



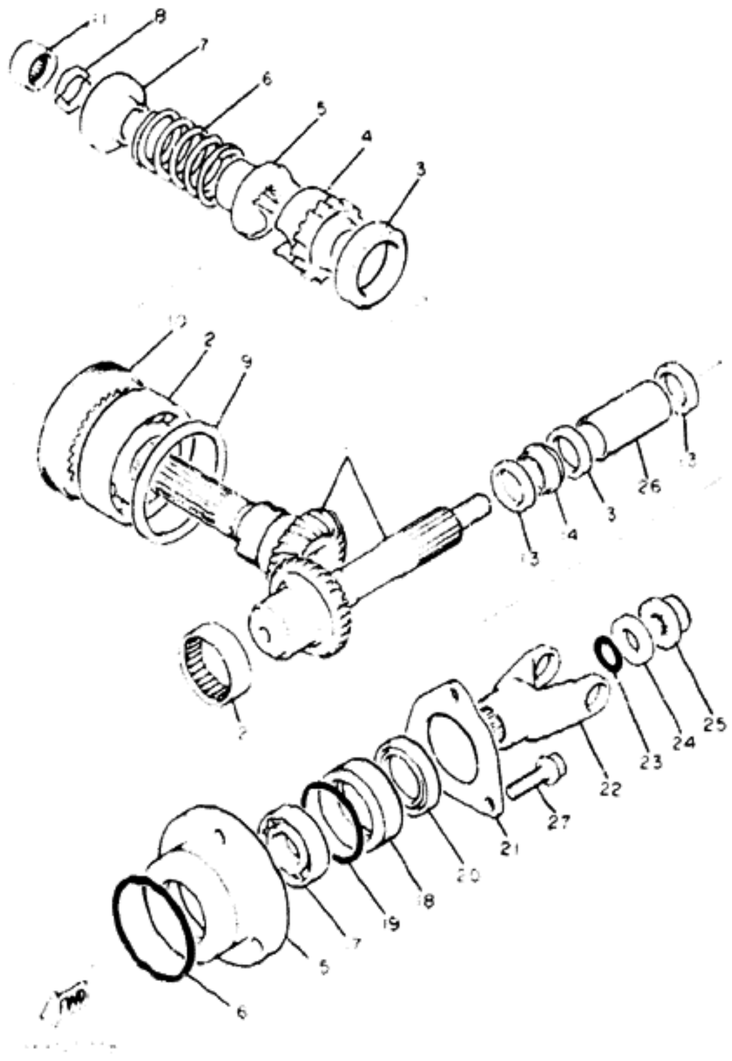
Ref. No.	Part Number	Description	Qty.	Remarks
20	4X7-17241-00-00	GEAR, 4th wheel (32T)	1	
21	4X7-17211-00-00	GEAR, 1st wheel (40T)	1	
22	4X7-17582-01-00	GEAR, middle drive (45T)	1	
23	93306-20401-00	BEARING (B6204)	1	
24	93306-20550-00	BEARING (B6205DU8)	1	
25	4X7-17583-01-00	GEAR, middle driven (47T)	1	
26	93316-01201-00	BEARING (B16012)	1	
27	93306-91201-00	BEARING (B6912)	1	

TRANSMISSION · Oil Type Qty Chg Qty Reassemble	[redacted]
Primary Drive Type Teeth Ratio	Spur Gear 78-47 1.660
Secondary Drive Type Teeth Chain	Shaft 47-15 x 19-18 x 32-14 #530
Oiling System	Wet Sump
Capacity Dry	3600cc
Oil and Filter Change	3400cc
Oil Change	3000cc
Lubricant Temp Above 5°C (40°F)	Yamalube 4 or SAE 20W40
Temp Below 15°C (60°F)	SAE 10W30

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

MIDDLE DRIVE GEAR

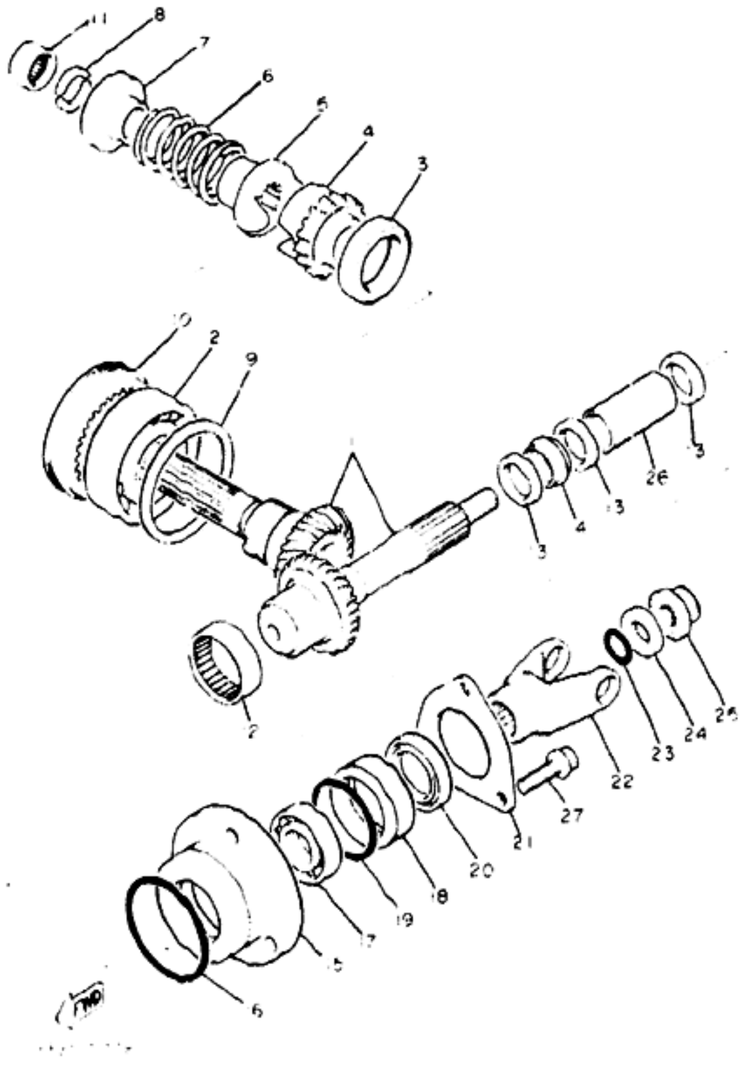


Ref. No.	Part Number	Description	Qty.	Remarks
1	42X-W1751-00-00	MIDDLE GEAR COMP. (4X7-W1751-00)	1	
2	93306-20901-00	BEARING (B6209RSH2-C2)	1	
3	90179-44328-00	NUT	1	
4	4X7-17526-01-00	CAM, drive	1	
5	4H7-17527-00-00	CAM, driven	1	
6	90501-65575-00	SPRING, compression	1	
7	4X7-17524-00-00	HOLDER	1	
8	3H5-17529-00-00	WASHER, thrust	2	
9	4X7-17531-00-15	SHIM, pinion (0.15T)	1	U.R.
	4X7-17531-00-30	SHIM, pinion (0.30T)	1	U.R.
	4X7-17531-00-40	SHIM, pinion (0.40T)	1	U.R.
	4X7-17531-00-50	SHIM, pinion (0.50T)	1	U.R.
10	90179-88336-00	NUT	1	
11	93317-22021-00	BEARING, cylindrical	1	
12	93311-34050-00	BEARING, cylindrical (93311-34043)	1	
13	90201-255A6-00	WASHER, plate	3	
14	1J7-46129-Y1-00	SPACER, expansion	1	
15	4X7-17551-00-00	HOUSING, bearing	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

MIDDLE DRIVE GEAR

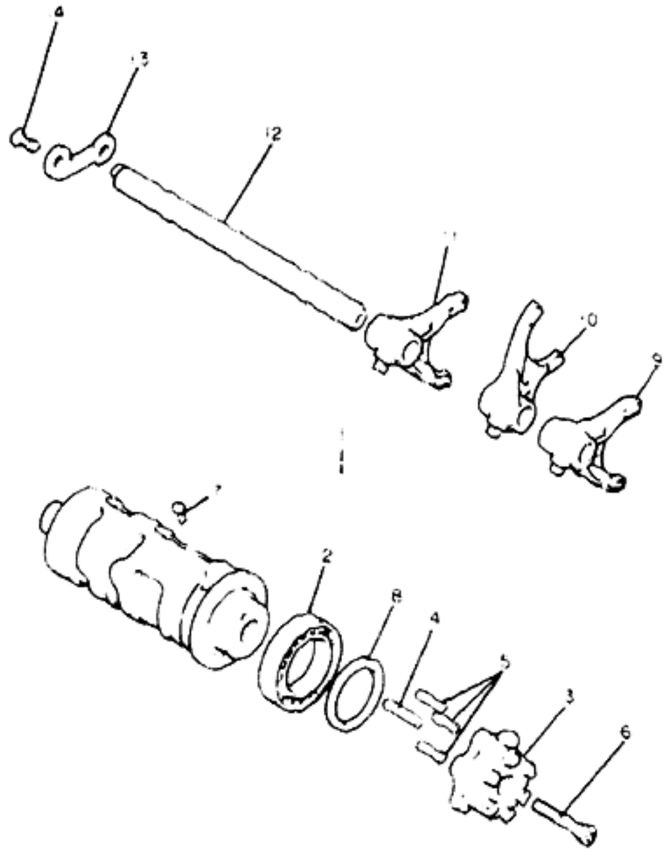


Ref. No.	Part Number	Description	Qty.	Remarks
16	93210-71360-00	O-RING	1	
17	93306-20548-00	BEARING (B6205RC2)	1	
18	4X7-17554-00-00	RETAINER, bearing	1	
19	93210-52449-00	O-RING	1	
20	93101-35099-00	OIL SEAL	1	
21	4X7-17558-00-00	PLATE, bearing	1	
22	4X7-17556-00-00	YOKE, joint	1	
23	93210-14359-00	O-RING	1	
24	90201-14633-00	WASHER, plate	1	
25	90179-14317-00	NUT	1	
26	90387-251E1-00	COLLAR	1	
27	95821-08030-00	BOLT, flange	3	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

SHIFT CAM · FORK

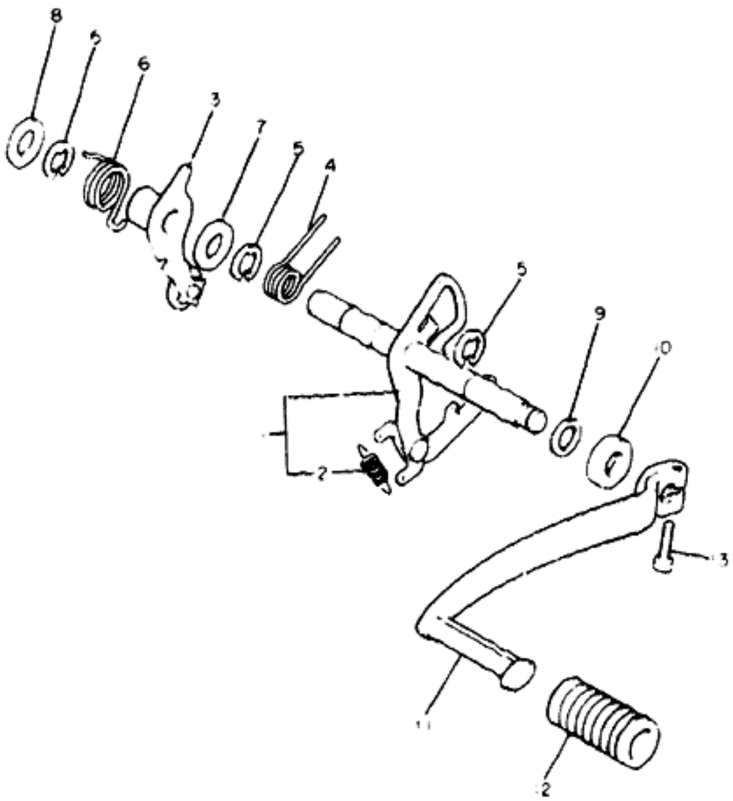


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-18540-01-00	SHIFT CAM ASS'Y	1	
2	93306-90602-00	. BEARING	1	
3	4G0-18185-01-00	. SEGMENT	1	
4	93604-20156-00	. PIN, dowel	1	
5	93604-16092-00	. PIN, dowel	3	
6	98701-05035-00	. SCREW, flat head	1	
7	136-18542-00-00	. POINT, neutral	1	
8	90201-30297-00	. WASHER, plate	1	
9	4X7-18511-00-00	FORK, shift 1	1	
10	4X7-18512-00-00	FORK, shift 2	1	
11	4X7-18513-00-00	FORK, shift 3	1	
12	4X7-1852[illegible]-00-00	BAR, shift fork guide 1	1	
13	4X7-18536-00-00	STOPPER, shift bar	1	
14	92701-06015-00	SCREW, flat head	2	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~ 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D 1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

SHIFT SHAFT · PEDAL

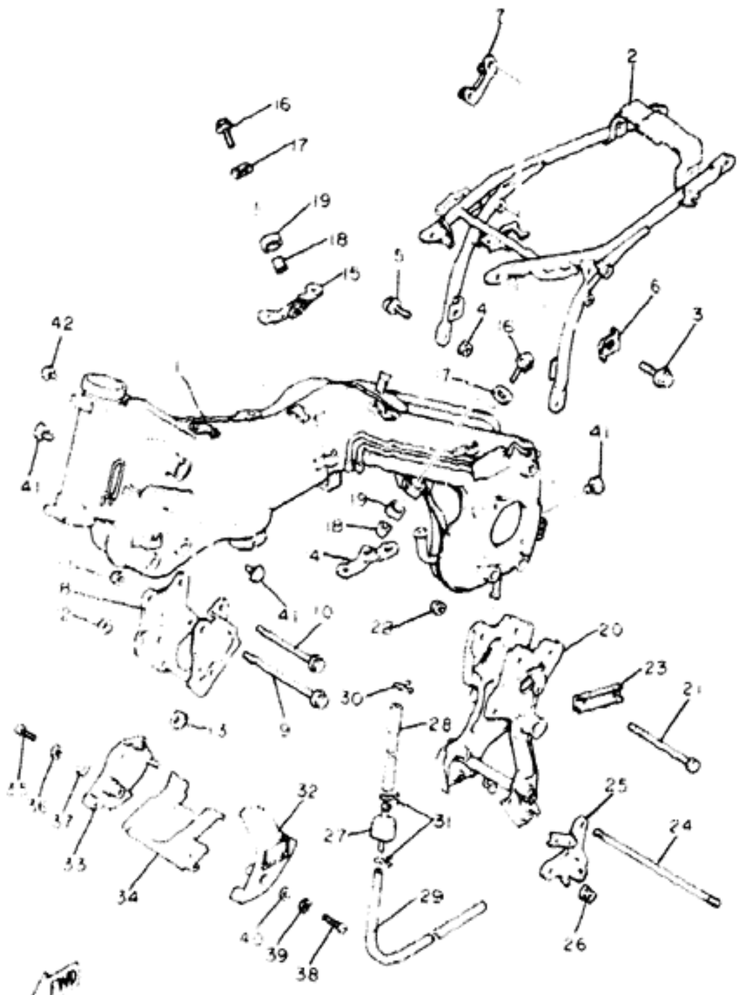


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-18120-00-00	SHIFT LEVER ASS'Y	1	
2	90506-08227-00	. SPRING, tension	1	
3	4X7-18140-00-00	STOPPER LEVER ASS'Y	1	
4	99999-01179-00	SPRING, torsion	1	
	90508-32535-00	. SPRING, torsion	1	
	90387-124F4-00	. COLLAR	1	
5	99001-10600-00	CIRCLIP (93430-10016)	3	
6	90508-29531-00	SPRING, torsion	1	
7	90201-12588-00	WASHER, plate	1	
8	90201-12588-00	WASHER, plate	1	
9	90201-12166-00	WASHER, plate	1	
10	93102-12106-00	OIL SEAL	1	
11	4X7-18111-00-00	PEDAL, shift	1	
12	132-18113-01-00	COVER, shift pedal	1	
13	97321-06020-00	BOLT	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FRAME



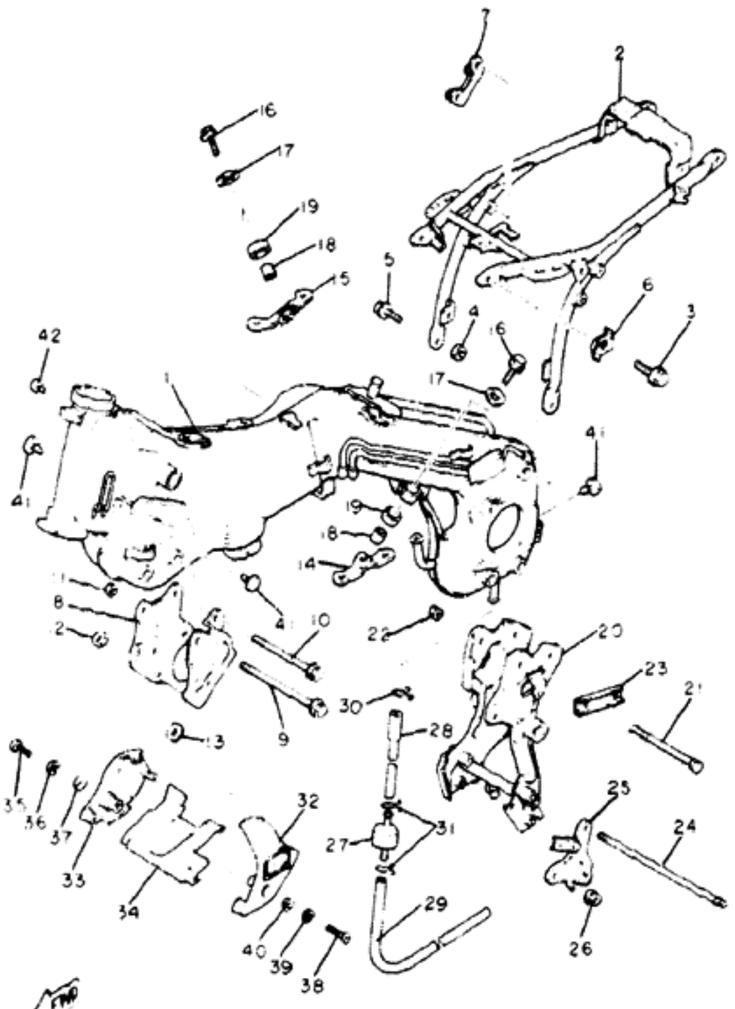
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-21110-00-33	FRAME COMP.	1	Yamaha Black
2	4X7-21190-00-33	REAR FRAME COMP.	1	Yamaha Black
3	95811-10035-00	BOLT, flange	2	
4	90185-10060-00	NUT, self-locking (90185-10035)	2	
5	90101-10524-00	BOLT	2	
6	90215-10192-00	WASHER, lock	2	
7	4X7-2138L-00-00	BRACKET 2	1	
8	4X7-21317-00-00	STAY, engine 4	1	
9	90105-10183-00	BOLT, washer based	1	
10	90105-10105-00	BOLT, washer based	1	
11	90179-10247-00	NUT	2	
12	90179-12421-00	NUT (90179-12248)	4	
13	90201-125A3-00	WASHER, plate	4	
14	4X7-21315-00-00	STAY, engine 2	1	
15	4X7-21316-00-00	STAY, engine 3	1	
16	90105-10186-00	BOLT, washer based	2	
17	90201-10[illegible]47-00	WASHER, plate	2	
18	90387-100E2-00	COLLAR	2	
19	4X7-21485-00-00	DAMPER, rubber 1	2	
20	4X7-21430-00-00	REAR ARM BRACKET COMP.	1	
21	90101-10074-00	BOLT	2	

MODEL - IBM I.D. NUMBER	XV750J-B	XV750J-S	4X7
Initial Engine Number Frame Number	4X7-200101	4X7-200101	
Engine Mounting Bolts Bracket Front	12 x 1.25 5.4 m-kg		
Bolt Front	10 x 1.25 5.5 m-kg		
Bolt Rear	10 x 1.25 5.5 m-kg		
Bolt Rear Upper	10 x 1.25 5.5 m-kg		
Bolt Rear Lower	10 x 1.25 5.5 m-kg		

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FRAME



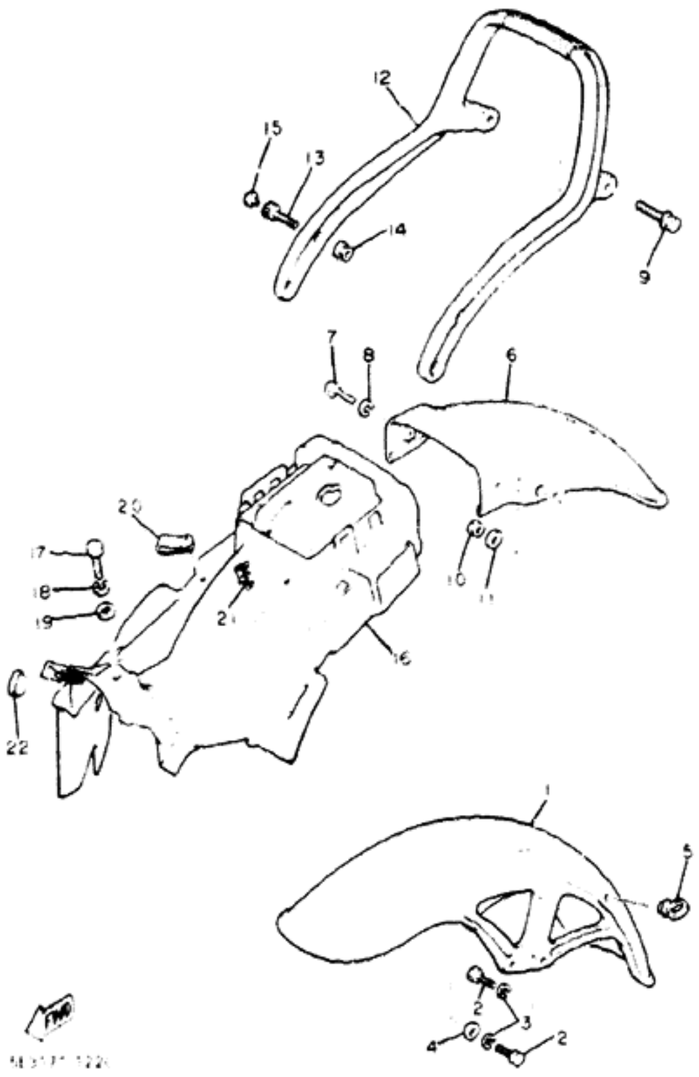
Ref. No.	Part Number	Description	Qty.	Remarks
22	90179-10247-00	NUT	2	
23	4X7-21491-00-00	WASHER, lock	1	
24	90116-10343-00	BOLT, stud	1	
25	4X7-21458-01-00	BRACKET, side stand	1	
26	90179-10247-00	NUT	1	
27	4X7-2149Y-00-00	FILTER ASS'Y	1	
28	90445-11545-00	HOSE	1	
29	90445-11452-00	HOSE	1	
30	90467-13042-00	CLIP	1	
31	90467-11102-00	CLIP (90467-11010)	2	
32	4X7-2137W-00-98	SCOOP, air 1	1	Low Gloss Blk
33	4X7-2137X-00-98	SCOOP, air 2	1	Low Gloss Blk
34	4X7-2137Y-00-98	GUIDE, air	1	Low Gloss Blk
35	92506-06016-00	SCREW, pan head	1	
36	92906-06100-00	WASHER, spring	1	
37	92906-06600-00	WASHER, plate	1	
38	92506-06040-00	SREW, pan head	1	
39	92906-06100-00	WASHER, spring	1	
40	92906-06600-00	WASHER, plate	1	
41	90338-07043-00	PLUG	3	
42	90338-03116-00	PLUG	2	

MODEL · IBM I.D. NUMBER	XV750J-B XV750J-S 4X7
Initial Engine Number Frame Number	4X7-200101 4X7-200101
Engine Mounting Bolts Bracket Front	12 x 1.25 5.4 m·kg
Bolt Front	10 x 1.25 5.5 m·kg
Bolt Rear	10 x 1.25 5.5 m·kg
Bolt Rear Upper	10 x 1.25 5.5 m·kg
Bolt Rear Lower	10 x 1.25 5.5 m·kg

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FRONT FENDER · REAR FENDER

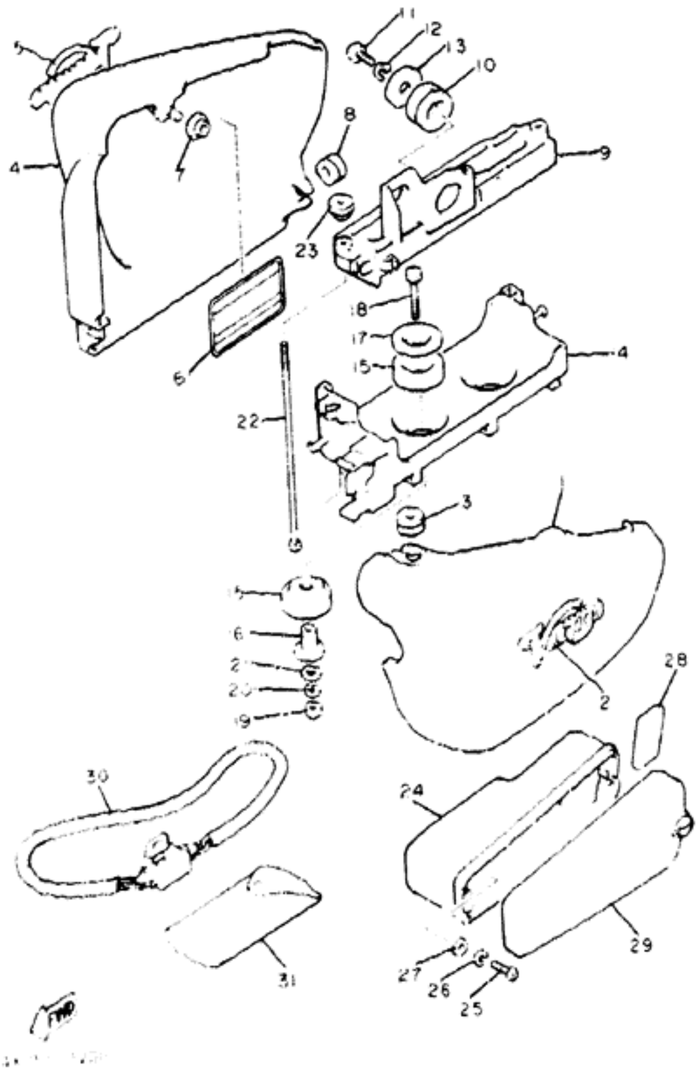


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-21501-00-93	FRONT FENDER COMP.	1	Chrome Plated
2	97301-08020-00	BOLT	4	
3	92990-08100-00	WASHER, spring (92903-08100)	4	
4	92903-08200-00	WASHER, plain (92901-08200)	2	
5	1A0-21518-00-00	HOLDER, cable	1	
6	4X7-21610-01-93	REAR FENDER COMP.	1	Chrome Plated
7	97322-06012-00	BOLT	2	
8	92990-06100-00	WASHER, spring (92903-06100)	2	
9	95821-10030-00	BOLT, flange	2	
10	95380-10600-00	NUT	2	
11	92990-10200-00	WASHER (92903-10200)	2	
12	4X7-21645-00-00	STAY, rear	1	
13	91316-08060-00	BOLT	4	
14	90179-08246-00	NUT	4	
15	341-23469-00-00	CAP, bolt	4	
16	4X7-W2162-01-00	MUD GUARD COMP.	1	
17	97301-06016-00	BOLT (97301-06015)	1	
18	92990-06100-00	WASHER, spring (92903-06100)	1	
19	90201-06067-00	WASHER, plate	1	
20	30464-12027-00	CLAMP	2	
21	90464-16025-00	CLAMP	1	
22	90480-30167-00	GROMMET	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWINGARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear K-L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

SIDE COVER · TOOL

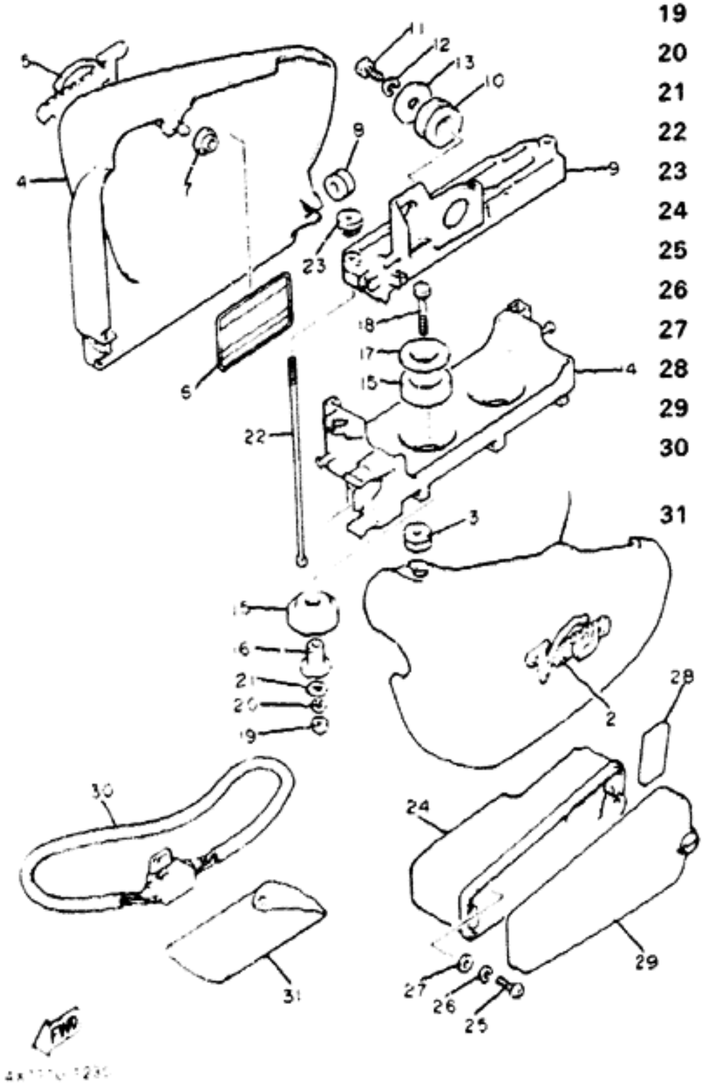


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-21711-00-6G	COVER, side 1	1	U.R. New Yamaha Blk
	4X7-21711-00-6M	COVER, side 1	1	U.R Star Silver
2	4X7-21781-01-00	EMBLEM 1	1	
3	90480-12053-00	GROMMET	3	
4	4X7-21721-00-6G	COVER, side 2	1	U.R. New Yamaha Blk
	4X7-21721-00-6M	COVER, side 2	1	U.R. Star Silver
5	4X7-21782-01-00	EMBLEM 2	1	
6	4X7-21683-10-00	PLATE, specification	1	
7	90480-01141-00	GROMMET	1	
8	90480-12053-00	GROMMET	2	
9	4X7-82136-00-00	PLATE, battery fitting	1	
10	2H7-21747-00-00	DAMPER	1	
11	97301-06012-00	BOLT (97302-06012)	1	
12	92990-06100-00	WASHER, spring (92903-06100)	1	
13	90201-065A1-00	WASHER, plate	1	
14	4X7-21171-00-00	BOX, tool	1	
15	2H7-21746-00-00	DAMPER, battery box	4	
16	90387-060G8-00	COLLAR (90387-06763)	2	
17	90209-07170-00	WASHER	2	
18	97301-06040-00	BOLT	2	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-[illegible]
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE [illegible]	C-6,7
OIL FILTER	[illegible]
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

SIDE COVER · TOOL

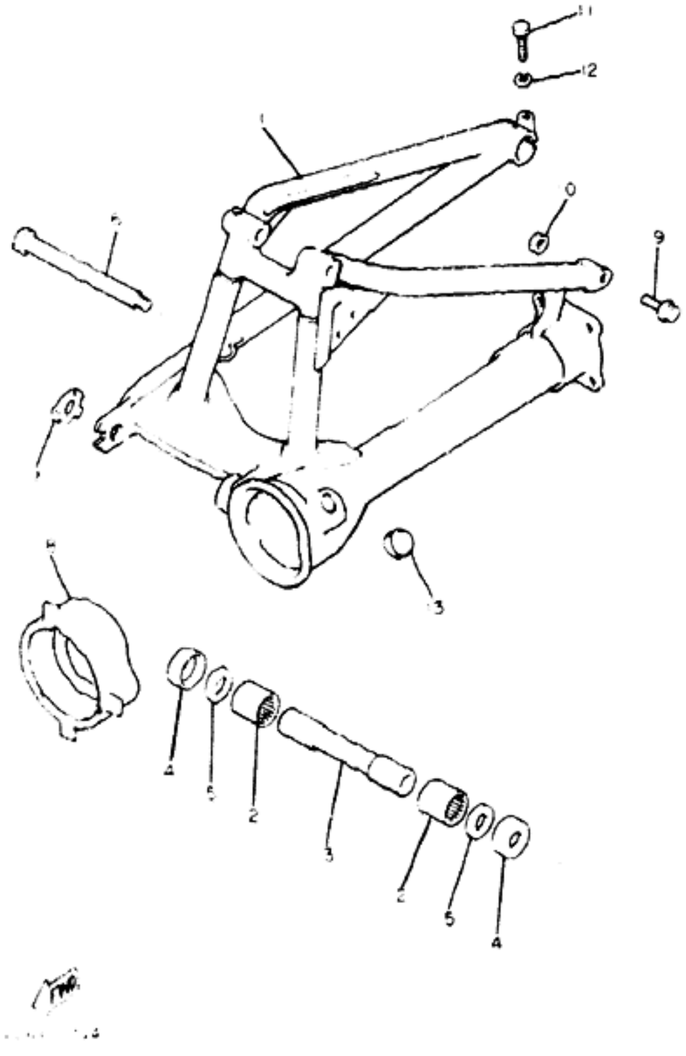


Ref. No.	Part Number	Description	Qty.	Remarks
19	95302-06600-00	NUT	2	
20	92990-06100-00	WASHER, spring (92903-06100)	2	
21	92901-06600-00	WASHER (92902-06600)	1	
22	90101-05496-00	BOLT	2	
23	90179-05322-00	NUT	2	
24	4X7-21248-00-00	BOX	1	
25	92503-06015-00	SCREW, pan head (92502-06016)	1	
26	92990-06100-00	WASHER, spring (92903-06100)	1	
27	90201-06068-00	WASHER, plate (90201-06008)	1	
28	4X7-21719-00-00	GROMMET	1	
29	4X7-2179A-00-00	CAP, tool box	1	
30	4W5-W2171-00-00	WHEEL LOCK ASS'Y (4X7-W2171-00)	1	
31	4X7-28100-00-00	TOOL KIT (4X7-28100-10)	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rev. K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

SWING ARM

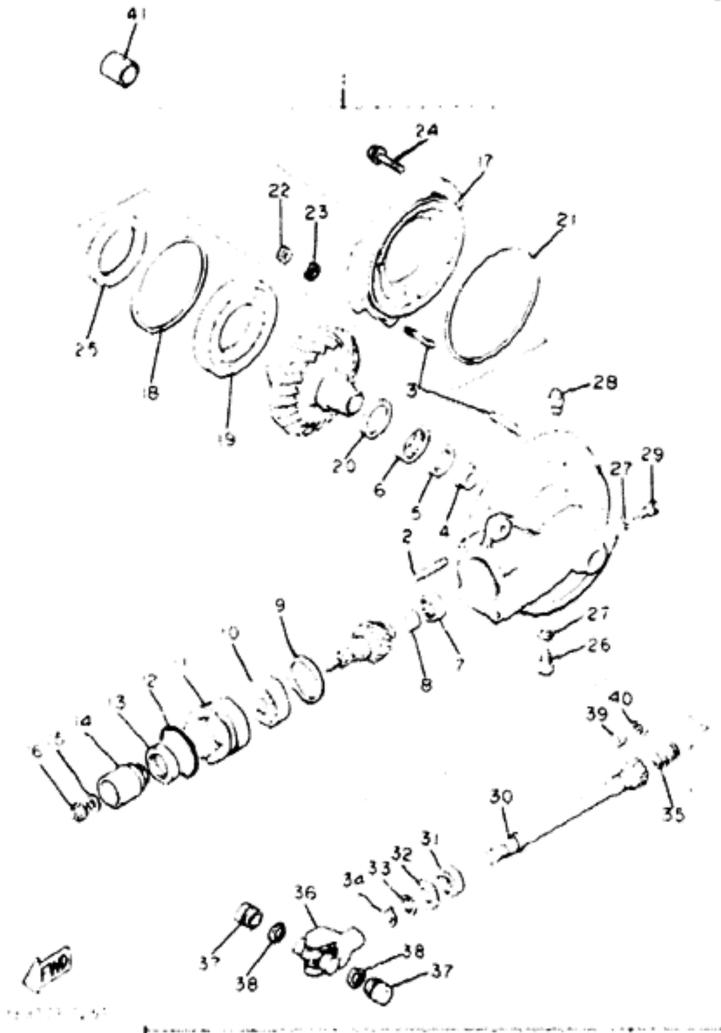


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-22110-01-35	REAR ARM COMP.	1	Silver
2	93320-32403-00	BEARING	2	
3	4X7-22124-00-00	BUSH 2.	1	
4	4X7-22129-00-00	COVER, thrust 2	2	
5	90201-244A8-00	WASHER, plate (1.95T)	2	U.N.
	90201-244A9-00	WASHER, plate (2.05T)	2	U.N.
	90201-245A0-00	WASHER, plate (2.15T)	2	U.N.
6	4X7-22141-00-00	SHAFT, pivot	1	
7	90215-16181-00	WASHER, lock.	1	
8	4X7-22189-00-00	BOOT, rubber	1	
9	95811-10035-00	BOLT, flange.	1	
10	90179-10247-00	NUT	1	
11	97301-08035-00	BOLT	1	
12	92990-08100-00	WASHER, spring (92903-08100)	1	
13	90338-20113-00	PLUG	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

DRIVE SHAFT



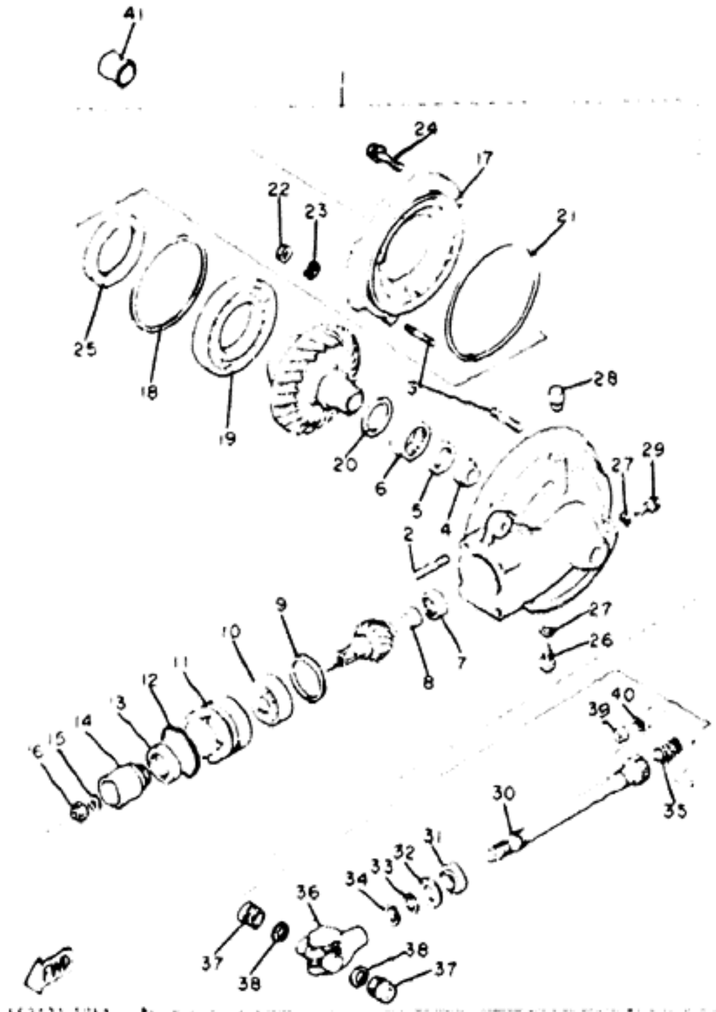
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-46101-01-00	REAR AXLE GEAR CASE ASS'Y	1	
2	90116-10361-00	. BOLT, stud	4	
3	90116-08360-00	. BOLT, stud	6	
4	4H7-46153-00-00	. COLLAR, guide	1	
5	93101-30084-00	. OIL SEAL	1	
6	93311-43729-00	. BEARING, cylindrical	1	
7	93317-41510-00	. BEARING, cylindrical	1	
8	2H7-46122-00-00	. RACE, inner	1	
9	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.
10	93306-30533-00	. BEARING (B6305RB1 Special)	1	
11	4H7-46125-00-00	. RETAINER, bearing	1	
12	93210-60426-00	. O-RING	1	
13	93101-36098-00	. OIL SEAL	1	
14	4H7-46123-00-00	. COUPLING, gear	1	
15	90201-14632-00	. WASHER, plate	1	
16	90185-14070-00	. NUT, self-locking	1	

Gear Case Capacity	0.5 L
Gear Case Lubricant Temp. Above 5°C (40°F)	SAE 90 Hypoid Gear Oil, U, 4
Temp. Below 5°C (40°F)	SAE 80 Hypoid Gear Oil, U, 4
Alternative Condition	SAE 80W/90 Hypoid Gear Oil, U, 4

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

DRIVE SHAFT



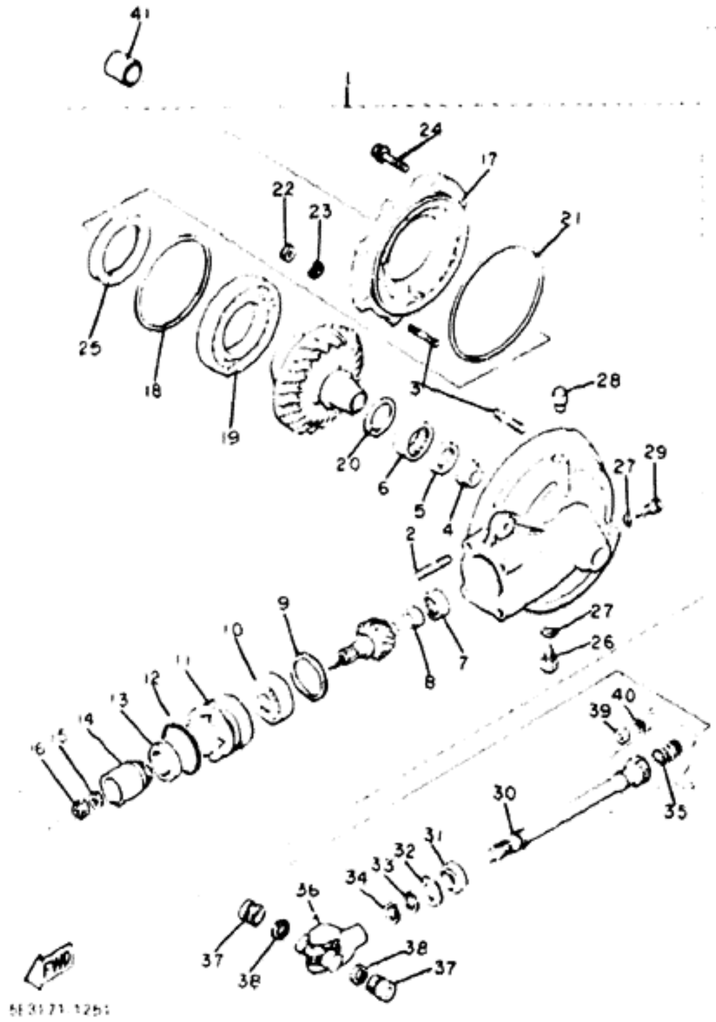
Ref. No.	Part Number	Description	Qty	Remarks
17	4H7-46152-00-00	HOUSING, bearing	1	
18	1J7-46117-Y0-30	SHIM, ring gear (0.30T)	1	U.R.
	1J7-46117-Y0-35	SHIM, ring gear (0.35T)	1	U.R.
	1J7-46117-Y0-40	SHIM, ring gear (0.40T)	1	U.R.
	1J7-46117-Y0-45	SHIM, ring gear (0.45T)	1	U.R.
	1J7-46117-Y0-50	SHIM, ring gear (0.50T)	1	U.R.
19	93316-01403-00	BEARING, cylindrical	1	
20	1J7-46118-Y0-18	WASHER, thrust (1.8T)	1	U.R.
	1J7-46118-Y0-19	WASHER, thrust (1.9T)	1	U.R.
20	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.
21	93211-44348-00	O-RING	1	
22	95311-08600-00	NUT	6	
23	92901-08700-00	WASHER, wave	6	

Final Gear Case Capacity	0.2 L
Gear Case Lubricant Temp. Above 5°C (40°F)	API "SE" Hypoid Gear Oil SAE #90
Temp. Below 5°C (40°F)	SAE 80 Hypoid Gear Oil SAE #80
Alternative Lubricant	API "SE" Hypoid Gear Oil SAE 80W/90

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

DRIVE SHAFT



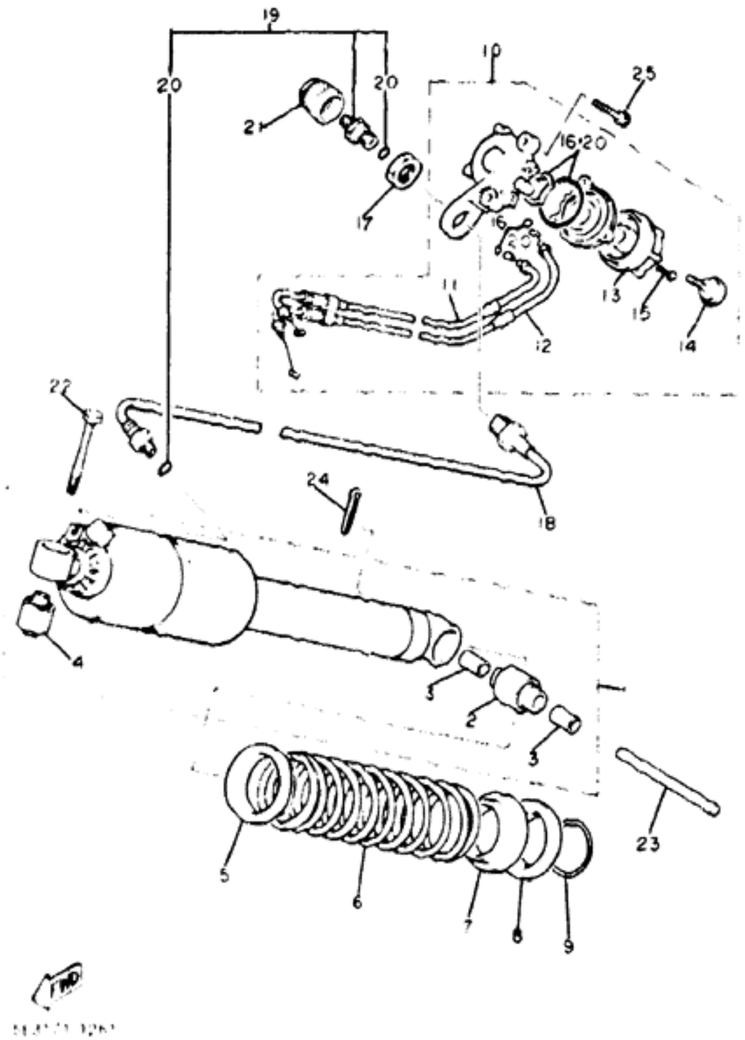
Ref. No.	Part Number	Description	Qty	Remarks
24	95821-10025-00	BOLT, flange	2	
25	93102-70167-00	OIL SEAL	1	
26	11H-13455-00-00	PLUG, straight screw (90340-14009)	1	
27	214-11198-01-00	GASKET	2	
28	2H7-17590-00-00	BREATHER COMP.	1	
29	90340-14042-00	PLUG, straight screw	1	
30	4X7-46172-00-00	SHAFT, drive	1	
31	93108-23007-00	OIL SEAL	1	
32	90201-231A2-00	WASHER, plate	1	
33	93410-23056-00	CIRCLIP	1	
34	93410-22039-00	CIRCLIP	1	
35	90501-16491-00	SPRING, compression	1	
36	4X7-46180-00-00	CROSS JOINT COMP.	1	
37	93311-21044-00	BEARING, cylindrical	2	
38	93440-20088-00	CIRCLIP	2	
39	95311-10600-00	NUT	4	
40	92990-10100-00	WASHER, spring (92903-10100)	4	
41	90387-172A5-00	COLLAR	1	

Final Gear Case Capacity	0.4 L
Gear Case Lubricant Temp. Above 5°C (40°F)	SAE 90 Hypoid Gear Oil GL-4
Temp. Below 15°C (60°F)	SAE 80 Hypoid Gear Oil GL-4
All Weather Lubricant	SAE 80W90 Hypoid Gear Oil GL-4

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

REAR SHOCKS



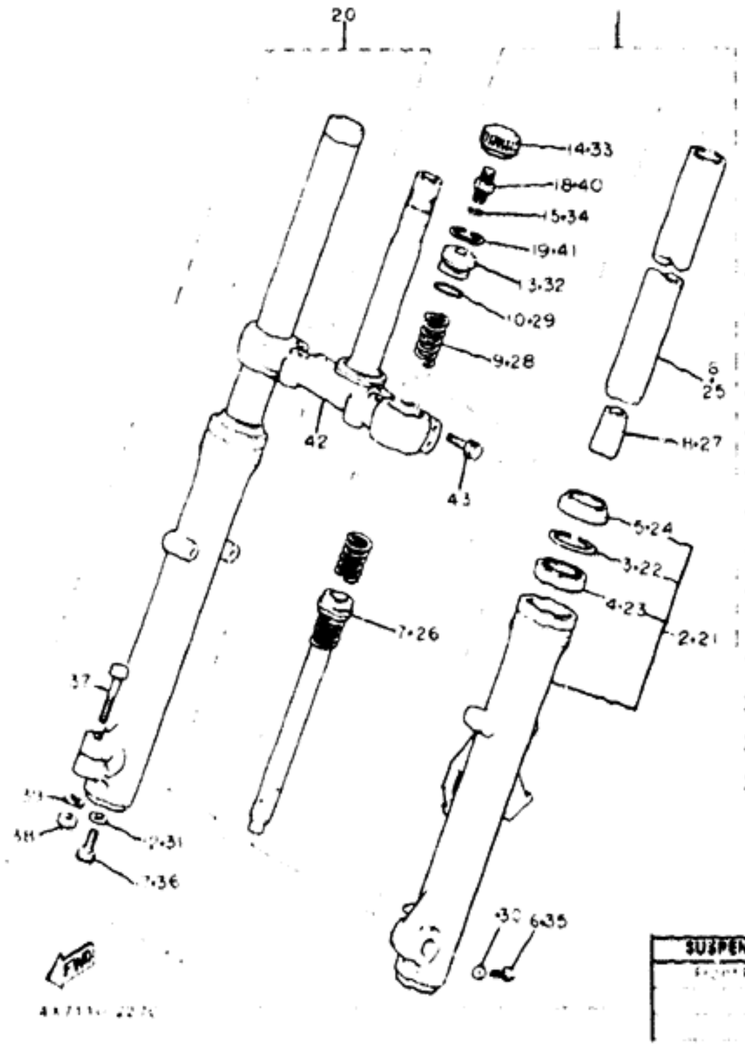
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-22201-00-00	DAMPER SUB ASS'Y	1	
2	3R4-22226-00-00	. BUSH, shock absorber lower	1	
3	90380-12051-00	. BUSH, solid	2	
4	1W1-22216-00-00	. BUSH, rear shock absorber	1	
5	4X7-22213-00-00	SEAT, spring upper	1	
6	4X7-22212-00-00	SPRING	1	
7	4X7-22224-00-00	GUIDE, spring 2	1	
8	3Y1-22223-00-00	SEAT, spring lower	1	
9	93440-48079-00	CIRCLIP	1	
10	4X7-22460-00-00	CONTROL PANEL ASS'Y	1	
11	[4X7-22463-00-00]	. CABLE, control 1	1	
12	4X7-22467-00-00	. CABLE, control 2	1	
13	4X7-22464-00-00	. KNOB, control	1	
14	90157-06021-00	. SCREW, pan head	1	
15	98503-04010-00	. SCREW, pan head	3	
16	4X7-W0005-00-00	. O-RING SET	1	
17	90170-16278-00	NUT	1	
18	4X7-22470-00-00	HOSE, air	1	
19	4X7-W2241-00-00	AIR VALVE ASS'Y	1	
20	93210-08483-00	. O-RING	2	
21	4X7-22493-00-00	CAP, adjust	1	
22	90101-12498-00	BOLT	1	
23	93612-99168-00	PIN, dowel	1	
24	91401-40040-00	PIN, cotter	1	
25	91311-06016-00	BOLT	2	

Not Reusable

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FRONT FORK



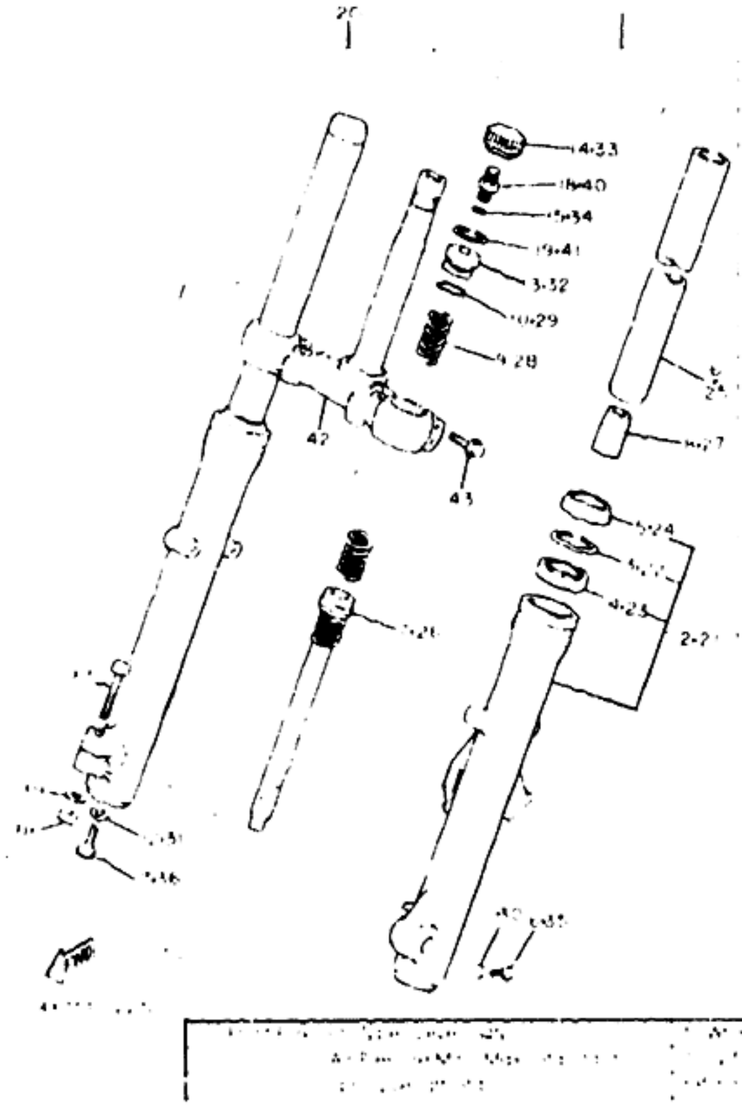
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-23102-00-00	FRONT FORK ASS'Y (L.H.)	1	
2	4H7-23126-00-00	. TUBE, outer 1	1	
3	4A1-23156-00-00	. . CLIP, oil seal	1	
4	15R-23145-00-00	. . COIL SEAL (3J2-23145-00)	1	
5	15R-23144-00-00	. . SEAL, dust (4H7-23144-00)	1	
6	4X7-23110-00-00	. INNER TUBE COMP. 1	1	
7	4K0-23170-00-00	. CYLINDER COMP., front fork	1	
8	1W1-23173-L0-00	. SPINDLE, taper	1	
9	4X7-23141-00-00	. SPRING, front fork	1	
10	3J2-23114-00-00	. O-RING	1	
11	122-23129-00-00	. GASKET, drain plug	1	
12	509-23158-L0-00	GASKET	1	
13	3J2-23111-00-00	. BOLT, cap	1	
14	4X7-23168-00-00	. CAP, front fork	1	
15	3J2-23147-00-00	. O-RING	1	
16	4H7-23119-00-00	. PLUG, drain	1	
17	278-23181-50-00	. BOLT, hexgon socket head	1	
18	4V4-23190-L0-00	. AIR VALVE COMP. (3J2-23190-00)	1	
19	3J2-23183-00-00	. CIRCLIP	1	
20	4X7 23103-00-00	FRONT FORK ASS'Y (R.H.)	1	
21	4H7-23136-00-00	. TUBE, outer 2	1	
22	4A1-23156-00-00	. . CLIP, oil seal	1	

SUSPENSION

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 - 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 - F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 - F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FRONT FORK

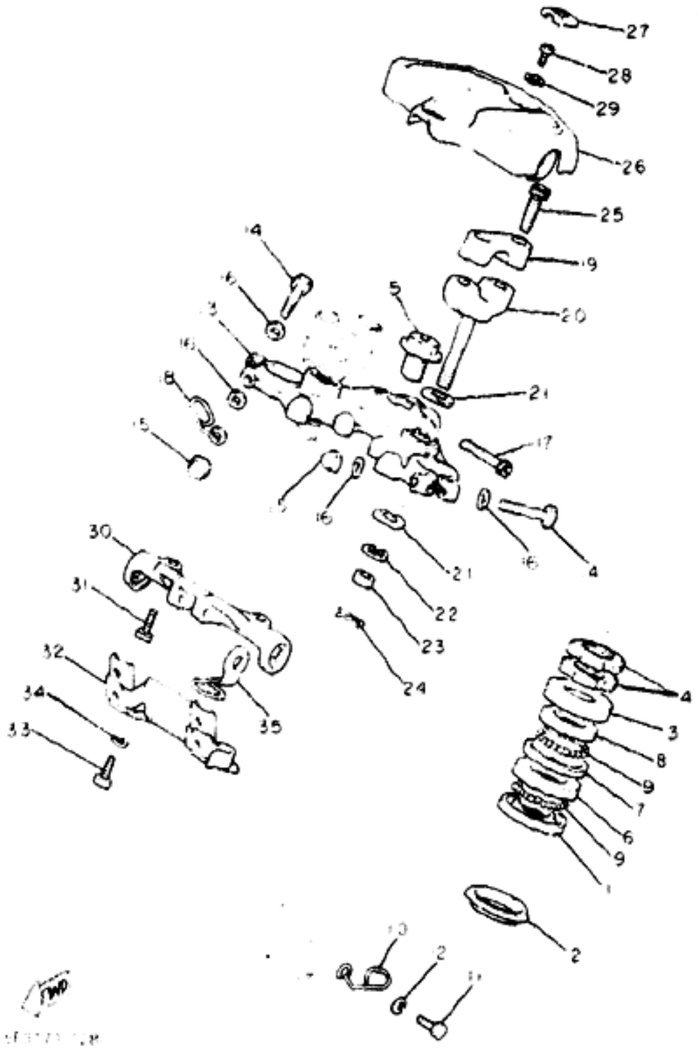


Ref No	Part Number	Description	Qty	Remarks
23	15R-23145-00-00	OIL SEAL (3J2-23145-00)	1	
24	15R-23144-00-00	SEAL, dust (4H7-23144-00)	1	
25	4X7-23110-00-00	INNER TUBE COMP. 1	1	
26	4K0-23170-00-00	CYLINDER COMP., front fork	1	
27	1W1-23173-L0-00	SPINDLE, taper	1	
28	4X7-23141-00-00	SPRING, front fork	1	
29	3J2-23114-00-00	O-RING	1	
30	122-23129-0[illegible]-00	GASKET, drain plug	1	
31	509-23158-L0-00	GASKET	1	
32	3J2-23111-00-00	BOLT, cap	1	
33	4X7-23168-00-00	CAP, front fork	1	
34	3J2-23147-00-00	O-RING	1	
35	4H7-23119-00-00	PLUG, drain	1	
36	278-23181-50-00	BOLT, hexagon socket head	1	
37	97321-08045-00	BOLT	1	
38	95311-08600-00	NUT	1	
39	92990-08100-00	WASHER, spring (92903-08100)	1	
40	4V4-23190-L0-00	AIR VALVE COMP. (3J2-23190-00)	1	
41	3J2-23183-00-00	CIRCLIP	1	
42	4X7-23340-00-33	UNDERBRACKET COMP (4X7-23340-00-33)	1	Yamaha Bl
43	18G-23128-00-00	BOLT, w/washer (90119-08012)	4	

CONTENTS

AIR CLEANER	B 3 4
CABLE	E 10
CAMSHAFT	A 10 11
CARBURETOR	B 5 6
CHAIN	A 10 11
CLUTCH	C 2 3
CRANKCASE	B-8
CRANKCASE COVER	B-9 10
CRANKSHAFT	A 8 9
CYLINDER HEAD	A 7
CYLINDER	A 5 6
DRIVESHAFT	D 7 9
ELECTRICAL 1	G-6 7
ELECTRICAL 2	G-8
EXHAUST	B 7
FENDER	D 3
FOOTREST	E-12 F 7
FRAME	D 1 2
FRONT BRAKE CALIPER	E 7
FRONT FORK	D 11 12
FRONT MASTER CYL	E 11
FRONT WHEEL	E-6
FUEL TANK	E 3 4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G 9
HEADLIGHT	G 3
LEVER	G 9
METER	G 1 2
MIDDLE DRIVE GEAR	C 6 7
OIL FILTER	B 2
OIL PUMP	B 1
PISTON	A-8 9
REAR SHOCKS	D 10
REAR WHEEL	E-8 9
SEAT	E-5
SERVICE DATA	J 1
SHIFT CAM	C 8
SHIFT FORK	C-8
SHIFT SHAFT	C 9
SIDE COVER	D-4 5
STAND	E-12 F-7
STARTER CLUTCH	C 1
STARTING MOTOR	B 12
STEERING	F 1 2
SWING ARM	[illegible]-8
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear K L
TOOL	D-4 5
TOP END GASKET KIT	H 1
TRANSMISSION	C 4 5
TURN SIGNAL	G 5
VALVE	A-12

STEERING

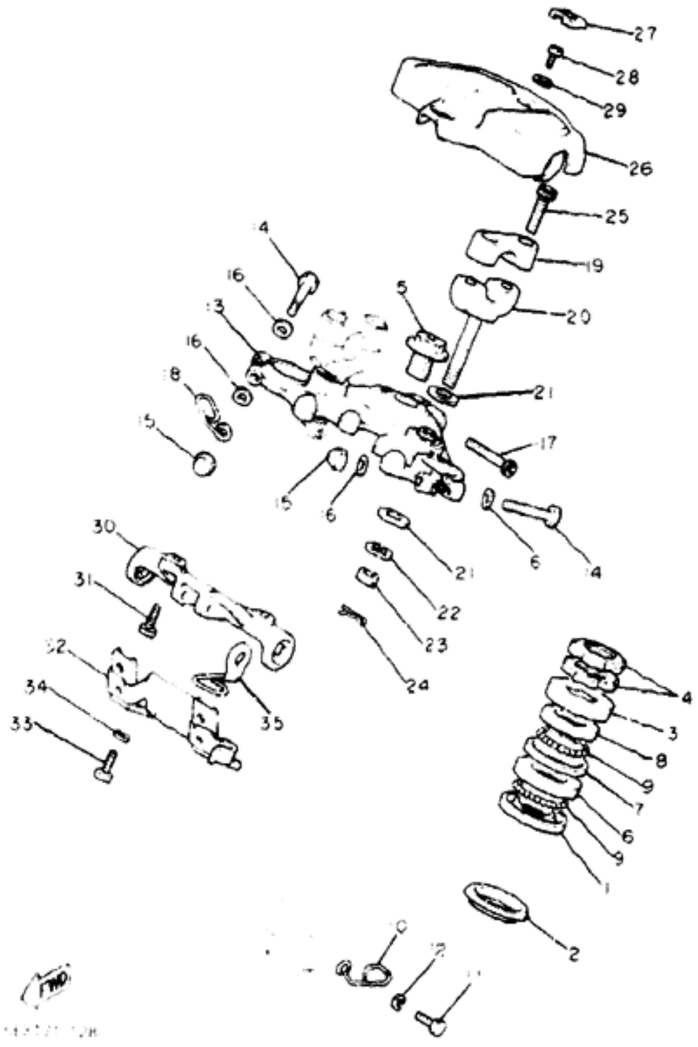


Ref. No.	Part Number	Description	Qty.	Remarks
1	256-23411-00-00	RACE, ball 1	1	
2	164-23462-00-00	SEAL, steering	1	
3	4K0-23415-00-00	COVER, ball race 1	1	
4	4H3-23454-00-00	NUT, fitting 2	2	
5	90109-14602-00	BOLT	1	
6	256-23412-00-00	RACE, ball 2	1	
7	256-23413-00-00	RACE, ball 3	1	
8	256-23414-00-00	RACE, ball 4	1	
9	93501-04011-00	BALL	38	
10	2G2-23318-00-00	HOLDER, cable 1	1	
11	97301-06012-00	BOLT	1	
12	92990-06100-00	WASHER, spring (92903-06100)	1	
13	4X7-W2341-00-98	CROWN, handle	1	Low Gloss Bk
14	97326-08055-00	BOLT	2	
15	95306-08800-00	NUT	2	
16	92906-08600-00	WASHER, plate	4	
17	91316-08040-00	BOLT	1	
18	4X7-23317-00-00	HOLDER, cable	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	F-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

STEERING

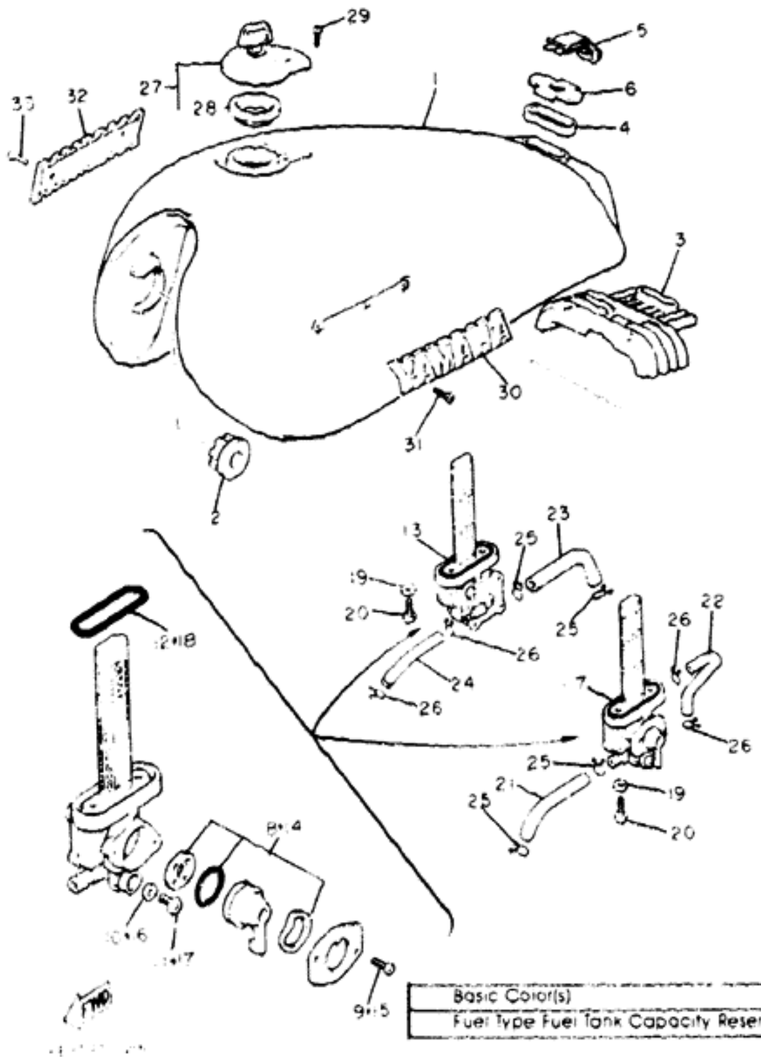


Ref. No.	Part Number	Description	Qty.	Remarks
19	4H7-23441-00-98	HOLDER, handle upper	2	Low Gloss Blk
20	3Y6-23442-00-98	HOLDER, handle lower	2	Low Gloss Blk
21	90201-101A1-00	WASHER, plate (90201-10141)	4	
22	92990-10100-00	WASHER, spring (92903-10100)	2	
23	95301-10700-00	NUT	2	
24	90468-12006-00	CLIP	2	
25	91316-08030-00	BOLT	4	
26	4X7-26213-00-00	COVER, upper	1	
27	4X7-26216-01-00	CAP, handlebar cover	1	
28	92506-06016-00	SCREW, pan head	1	
29	90201-06057-00	WASHER, plate	1	
30	4X7-23174-00-00	STAY, headlight	1	
31	91316-08025-00	BOLT	2	
32	4X7-23377-00-00	BRACKET, horn	1	
33	97326-08020-00	BOLT	2	
34	92906-08100-00	WASHER, spring	2	
35	4X7-23389-01-00	GUIDE, cable	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FUEL TANK



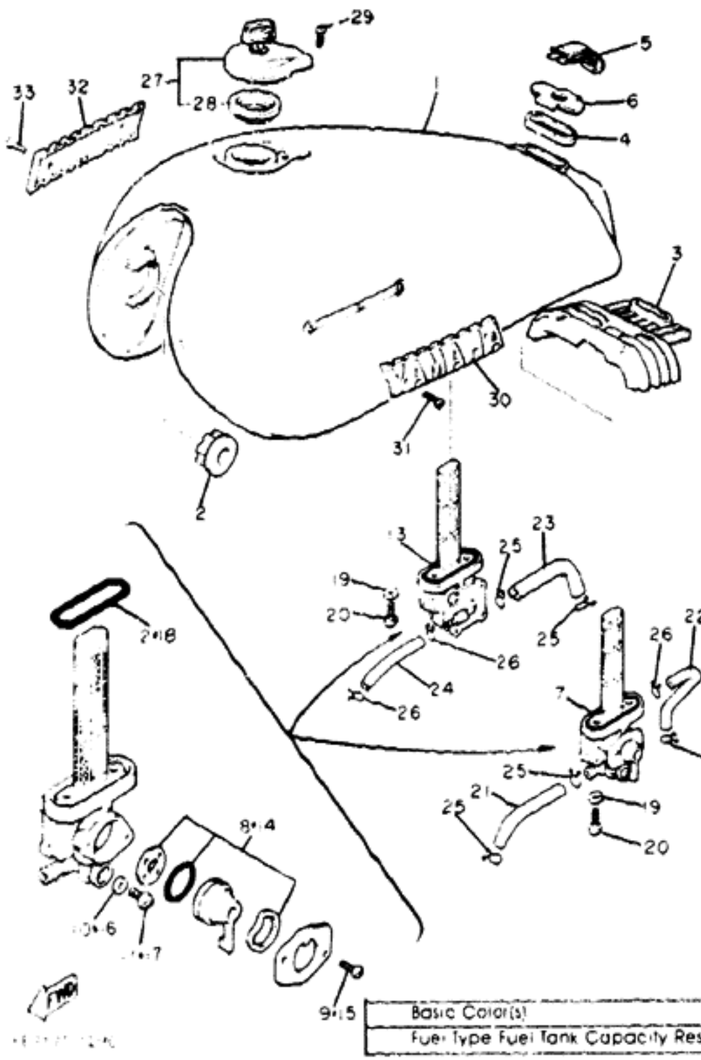
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-24110-01-6G	FUEL TANK COMP.	1	U.R. New Yamaha Blk
	4X7-24110-01-6M	FUEL TANK COMP.	1	U.R. Star Silver
2	4H7-24181-00-00	DAMPER, locating 1	2	
3	4X7-24182-01-00	DAMPER, locating 2	1	
4	4K0-24183-00-00	DAMPER, locating 3	1	
5	4X7-2411M-00-00	CLIP	1	
6	4K0-24186-00-00	WASHER, special	1	
7	4X7-24500-00-00	FUEL COCK ASSY 1	1	
8	3H3-W0092-00-00	. FUEL COCK VALVE SET	1	
9	98501-03008-00	. SCREW, pan head	2	
10	2G2-24522-00-00	. GASKET	1	
11	92501-06008-00	. SCREW, pan head (92501-06008)	1	
12	2W6-24512-00-00	. O-RING	1	
13	4X7-24510-00-00	FUEL COCK ASSY 2	1	
14	3H3-W0092-00-00	. FUEL COCK VALVE SET	1	
15	98501-03008-00	. SCREW, pan head	2	
16	2G2-24522-00-00	. GASKET	1	
17	92501-06008-00	. SCREW, pan head (92501-06008)	1	
18	2W6-24512-00-00	. O-RING	1	

Basic Color(s)	New Yamaha Black (B)	Star Silver (S)
Fuel Type Fuel Tank Capacity Reserve Capacity	Regular 12 Lit	2.6 Lit

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	F-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FUEL TANK



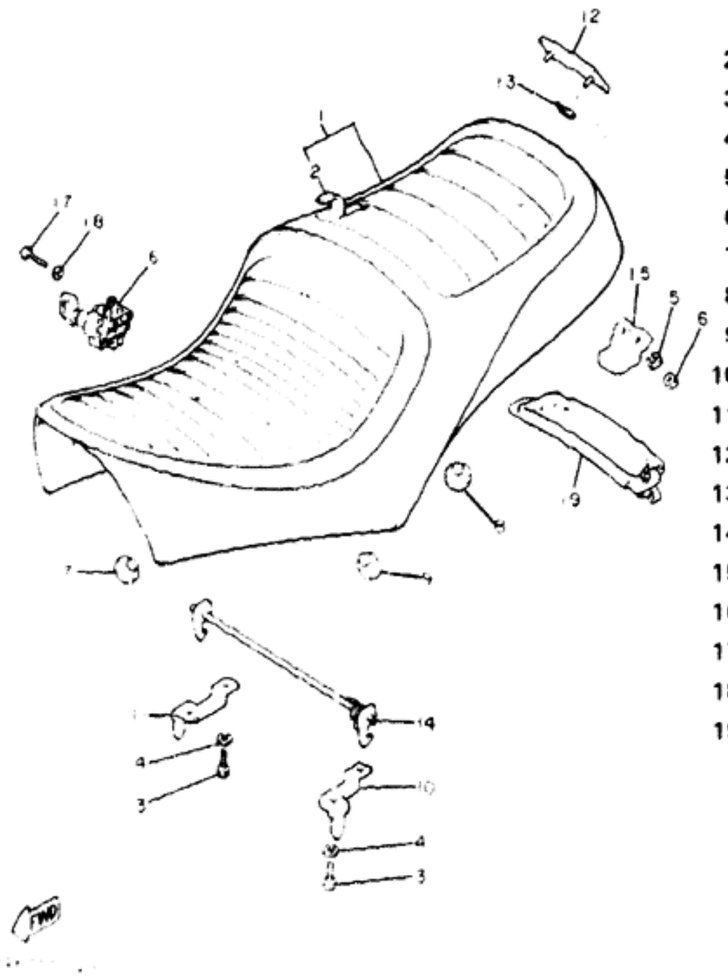
Ref. No.	Part Number	Description	Qty.	Remarks
19	90202-06010-00	WASHER, plate	4	
20	90149-06011-00	SCREW	4	
21	90445-11542-00	HOSE	1	
22	90445-09578-00	HOSE	1	
23	4X7-24311-00-00	PIPE, fuel 1	1	
24	90445-09578-00	HOSE	1	
25	90467-10008-00	CLIP	4	
26	90467-08003-00	CLIP	4	
27	4X7-24602-00-00	CAP ASS'Y	1	
28	4X7-24612-00-00	. GASKET, cap	1	
29	98506-05010-00	SCREW, pan head	1	
30	4X7-24161-00-00	EMBLEM 1	1	
31	90152-04006-00	SCREW, countersunk	2	
32	4X7-24162-00-00	EMBLEM 2	1	
33	90152-04006-00	SCREW, countersunk	2	

Basic Color(s)	New Yamaha Black (B)	Star Silver (S)	
Fuel Type	Fuel Tank Capacity	Reserve Capacity	Regular 12 Lit 2.6 Lit

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-6,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

SEAT

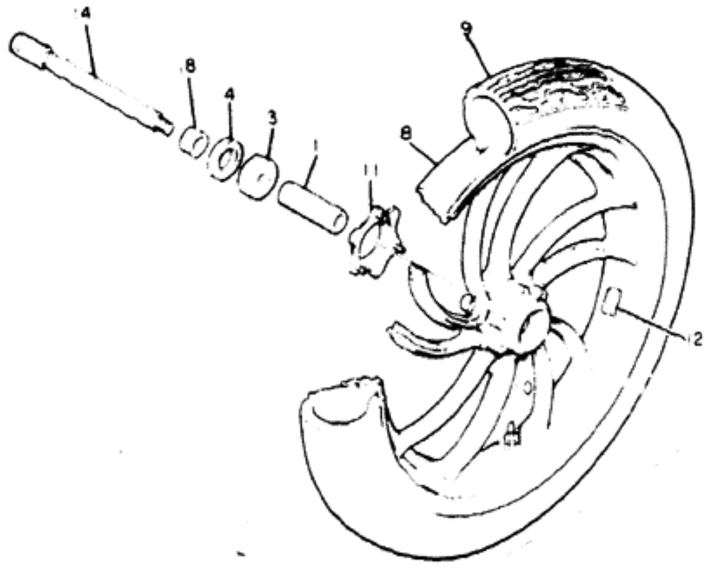


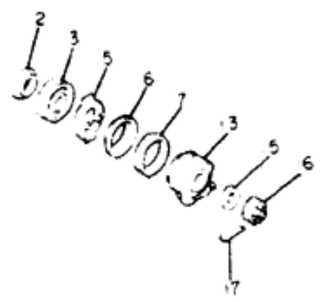
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-W2472-A0-00	DOUBLE SEAT ASS'Y (4X7-W2472-00)	1	
2	4X7-24731-00-00	. COVER, double seat	1	
3	97301-06016-00	BOLT	4	
4	92990-06100-00	WASHER, spring (92903-06100)	4	
5	92990-06100-00	WASHER, spring (92903-06100)	2	
6	95302-06600-00	NUT	2	
7	1L9-24741-00-00	PAD, seat	5	
8	1T4-24741-00-00	PAD, seat	2	
9	371-27114-00-00	STOPPER, main stand	2	
10	4X7-24728-00-00	BRACKET, seat	1	
11	4X7-24738-00-00	BRACKET, seat	1	
12	2H7-24786-02-00	EMBLEM	1	
13	90183-04005-00	NUT, spring	2	
14	4X7-24776-01-00	LEVER, seat (4X7-24776-00)	1	
15	4X7-24748-00-00	BRACKET, seat	1	
16	4X7-24705-00-00	SEAT LOCK ASS'Y	1	
17	92503-06015-00	SCREW, pan head	2	
18	92901-06600-00	WASHER, plate	2	
19	4X7-2473T-02-00	LID 1 (4X7-2473T-01)	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FRONT WHEEL





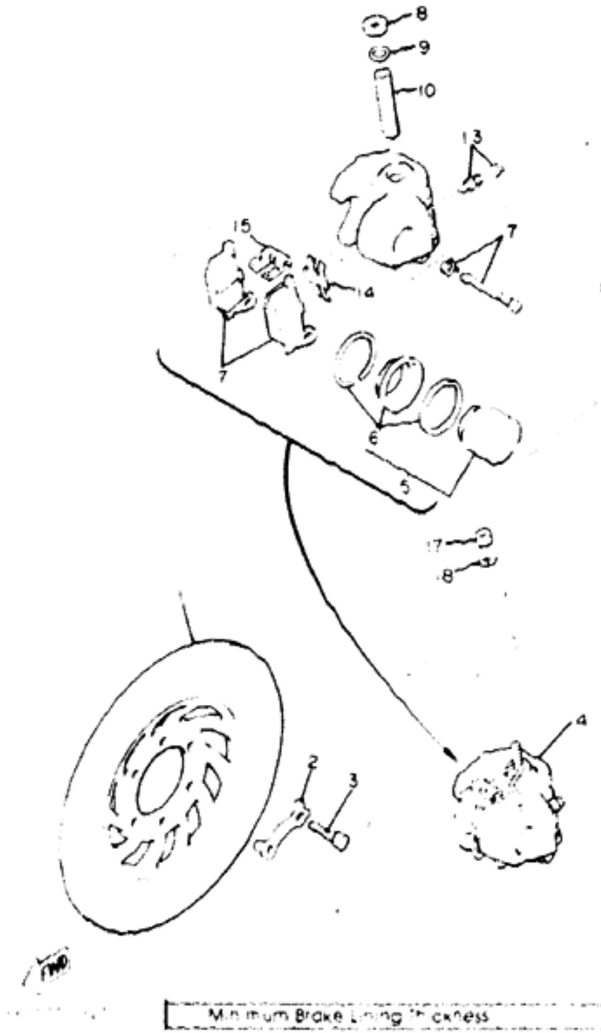
Ref. No.	Part Number	Description	Qty.	Remarks
1	90560-15116-00	SPACER	1	
2	146-25115-00-00	FLANGE, spacer 1	1	
3	93306-30203-00	BEARING (B6302Z)	2	
4	93102-22014-00	OIL SEAL	1	
5	341-25149-00-00	CLUTCH, meter	1	
6	341-25846-00-00	RETAINER, clutch	1	
7	93105-45017-00	OIL SEAL	1	
8	4H7-25168-29-00	CAST WHEEL, front (1.85-19)	1	Low Gloss Blk
9	94135-19445-00	TIRE (3.50-19)	1	Bridgestone
10	93900-00001-00	VALVE, rim	1	Bridgestone
11	1U4-25847-00-00	COVER, housing	1	
12	1A1-25398-01-00	BALANCER, wheel (20G)	1	U.N.
	1A1-25399-00-00	BALANCER, wheel (10G)	1	U.N.
	2M0-25399-00-00	BALANCER, wheel (30G)	1	U.N.
13	4H7-25190-00-00	GEAR UNIT ASS'Y	1	
14	4H7-25181-01-00	AXLE, wheel (4H7-25181-00)	1	
15	92990-14200-00	WASHER, plain (92901-14200)	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 3.50-19 (1.8 kg/cm²) R 4.30/90-16 67H (2.0 kg/cm²)
Front Axle Nut	14 x 1.50 10.7 m-kg
Front Axle Holder Nut	8 x 1.25 2.0 m-kg

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

FRONT BRAKE CALIPER



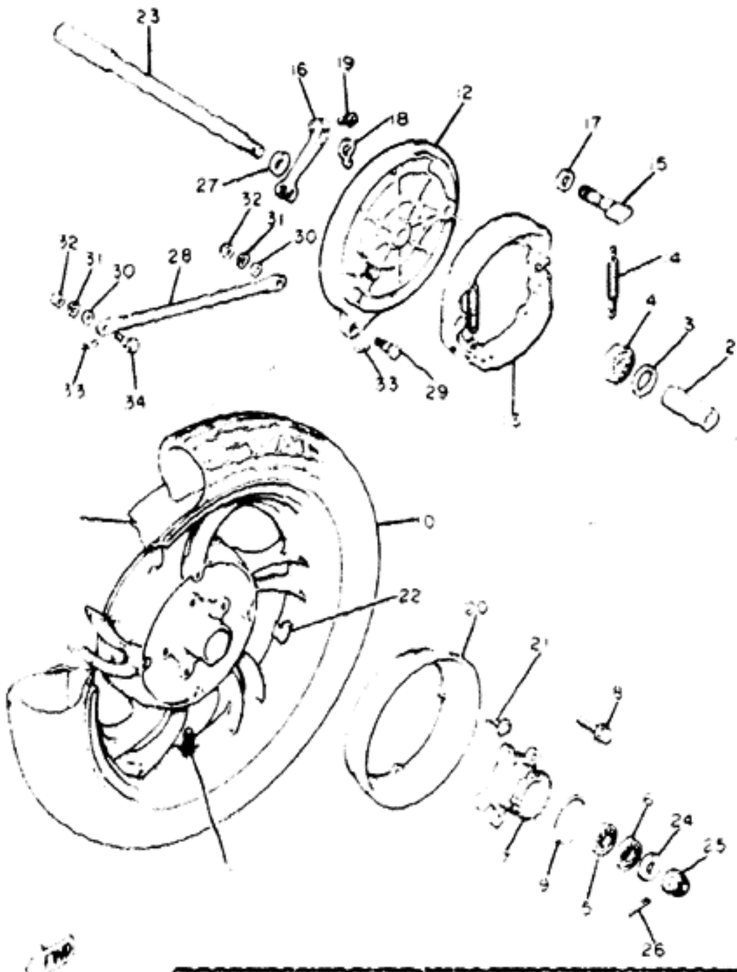
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-25831-00-00	DISC, brake	1	
2	1J3-25834-01-00	WASHER, lock	3	
3	90101-08312-00	BOLT	6	
4	4H7-25810-11-00	CALIPER ASS'Y (left)	1	
5	2G2-W0057-00-00	. PISTON ASS'Y, caliper	1	
6	2G2-W0047-00-00	. . CALIPER SEAL KIT	1	
7	4H7-W0045-10-00	. BRAKE PAD KIT, front	1	
8	90201-08689-00	WASHER, plate	1	
9	2G2-W0044-00-00	. O-RING KIT, caliper	1	
10	2G2-25838-00-00	. SLEEVE, caliper	1	
11	90201-09690-00	. WASHER, plate	1	
12	2G2-25821-00-00	. BOLT 1	1	
13	1J3-W0048-00-00	. BREED SCREW KIT	1	
14	2G2-25919-00-00	. PAD SPRING, caliper	1	
15	2G2-25849-01-00	. RETAINER, caliper	1	
16	2G2-25916-00-00	. CAP, pivot bolt	1	
17	95331-08600-00	NUT (95331-08600)	1	
18	92990-08100-00	WASHER, spring (92903-08100)	1	

Minimum Brake Lining Thickness	Front 1.2mm	Rear 2.0mm

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

REAR WHEEL



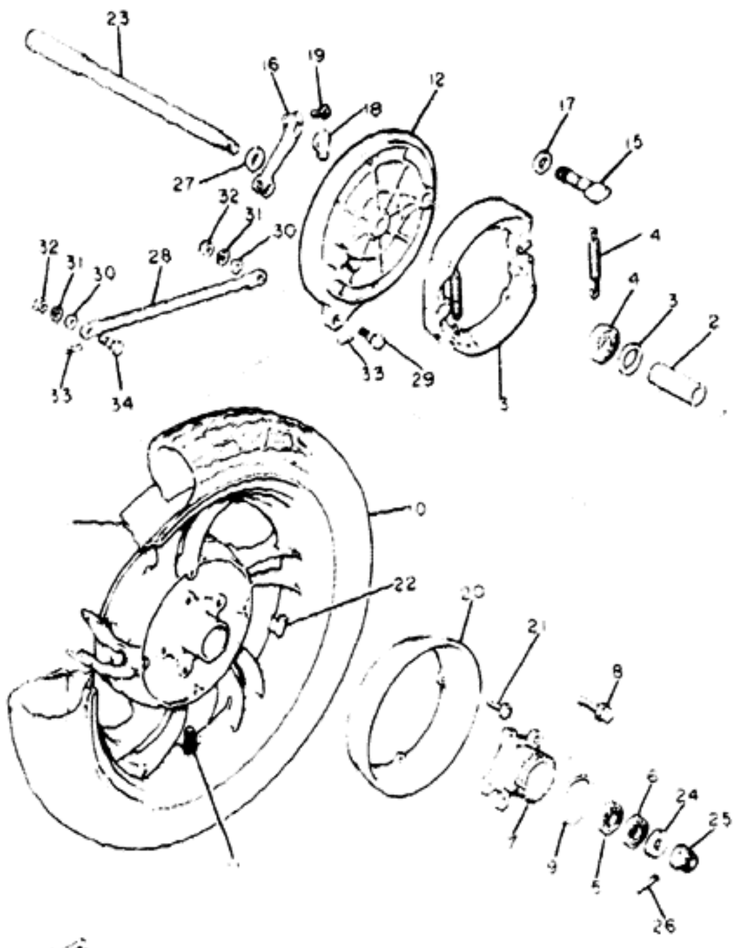
Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-25338-29-98	CAST WHEEL, rear (3.00-16) (4H7-25338-20-98)	1	Low Gloss Blk
2	90560-17125-00	SPACER	1	
3	148-25315-00-00	FLANGE, spacer	1	
5	93306-30306-00	BEARING (B6303)	1	
5	93306-20316-00	BEARING (B6203)	1	
6	93306-20310-00	BEARING (B6203RS)	1	
7	4H7-25366-01-00	CLUTCH, hub	1	
8	90105-10200-00	BOLT, washer based	5	
9	93210-57428-00	O-RING	1	
10	94113-16499-00	TIRE (130/90-16)(94113-16446)	1	Bridgestone
11	93900-00001-00	VALVE, rim	1	Bridgestone
12	4H7-25321-00-00	PLATE, brake shoe	1	
13	4H7-25330-01-00	BRAKE SHOE COMP.	2	
14	90507-20002-00	SPRING, tension	2	
15	4H7-25351-00-00	CAMSHAFT	1	
16	1L9-25355-00-00	LEVER, camshaft	1	
17	90201-14218-00	WASHER, plate (90201-14577)	1	
18	4H7-2533A-02-00	PLATE, indicator	1	

Minimum Brake Lining Thickness	Front 2mm	Rear 2mm
Torque Setting Points	F 3.50~4.18 kg-cm	R 13.00~16.00 kg-cm
Axle Nut	14 x 1.5	
Axle Pinch Bolt	8 x 1.25	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

REAR WHEEL



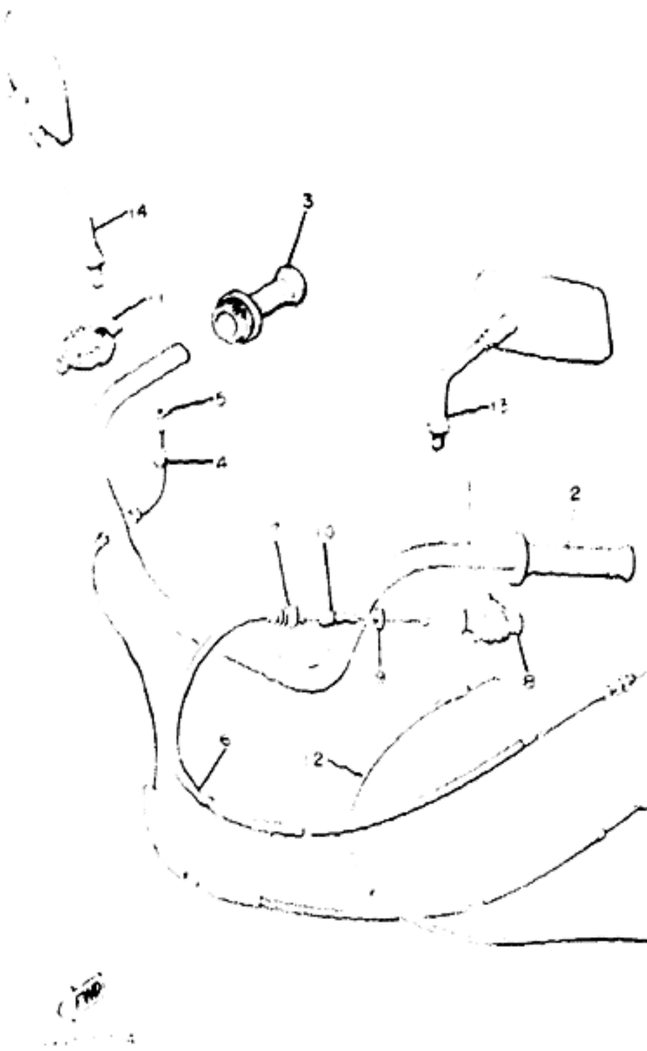
Ref. No.	Part Number	Description	Qty.	Remarks
19	90101-06291-00	BOLT	1	
20	4H7-25327-00-00	COVER, plate	1	
21	90159-05018-00	SCREW, w/washer	4	
22	1A1-25398-01-00	BALANCER, wheel (20G)	1	U.N.
	1A1-25399-00-00	BALANCER, wheel (10G)	1	U.N.
	2M0-25399-00-00	BALANCER, wheel (30G)	1	U.N.
23	4H7-25381-00-00	AXLE, wheel	1	
24	90201-141A3-00	WASHER, plate	1	
25	90171-14031-00	NUT, castel	1	
26	91401-30030-00	PIN, cotter	1	
27	4H7-25377-00-00	COLLAR, wheel	1	
28	4X7-25371-00-00	BAR, tension	1	
29	90109-08406-00	BOLT	1	
30	92901-08600-00	WASHER, plate	2	
31	92990-08100-00	WASHER, spring (92903-08100)	2	
32	95301-08700-00	NUT	2	
33	91401-20015-00	PIN, cotter	2	
34	90109-08368-00	BOLT	1	

Rear Axle Nut	14 x 1.5 [illegible] kg
Rear Axle Pinch Bolt	8 x 1.25 [illegible] kg
Minimum Brake Lining Thickness	Front: 2mm Rear: 2.0mm
Tire Size Normal Pressure	3.50-19 1.8 kg/cm² 4.30/90-16 67 1.20 kg/cm²

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~ 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

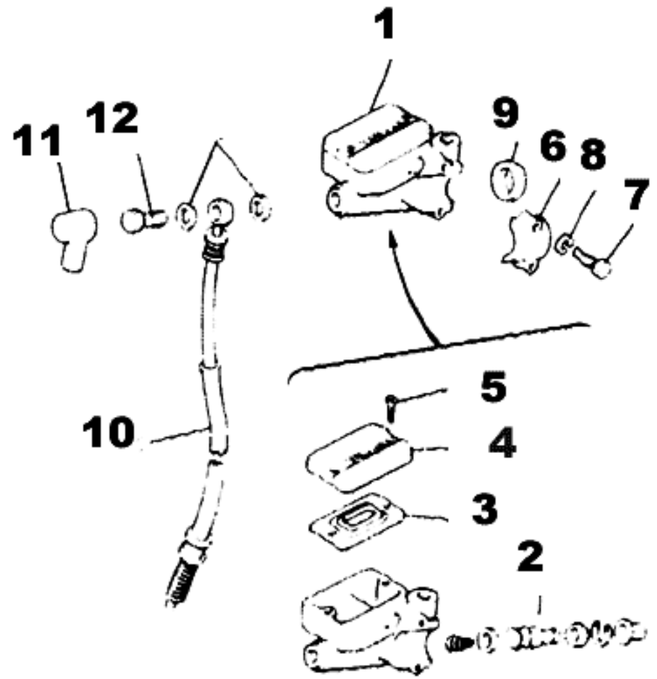
HANDLEBAR · CABLE

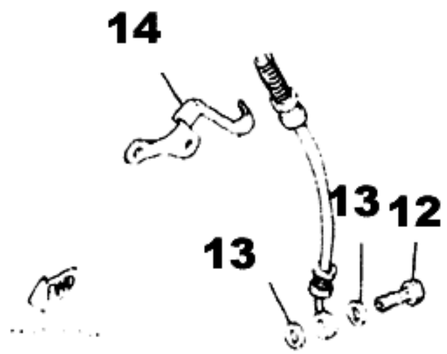


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-W2611-01-00	HANDLEBAR	1	
2	2H7-26241-00-00	GRIP (L.H.)	1	
3	2H7-26240-00-00	GRIP ASS'Y	1	
4	4X7-26311-00-00	CABLE, throttle 1	1	
5	184-26393-02-00	HOLDER	1	
6	4X7-26335-00-00	CABLE, clutch	1	
7	1E6-26342-00-00	BOOT, cable	1	
8	1E6-26372-00-00	COVER, handle lever 1	1	
9	90179-08148-00	NUT	1	
10	90123-08046-00	BOLT	1	
11	1T5-26372-00-00	COVER, handle lever 1	1	
12	4X7-26331-00-00	CABLE, starter 1	1	
13	4H7-26290-10-00	BACK MIRROR ASS'Y	1	
14	4H7-26290-00-00	BACK MIRROR ASS'Y	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-8
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12





FRONT MASTER CYLINDER

Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-25850-01-00	MASTER CYLINDER ASS'Y	1	
2	4H7-W0041-00-00	. CYLINDER KIT, master	1	
3	4L0-25854-00-00	. DIAPHRAGM, reservoir	1	
4	4L0-25852-00-00	. CAP, reservoir	1	
5	98706-04010-00	. SCREW, flat head	2	
6	4L0-25867-00-00	BRACKET, master cylinder	1	
7	97326-06025-00	BOLT	2	
8	92906-06100-00	WASHER, spring	2	
9	90387-22660-00	COLLAR	1	
10	4X7-25872-00-00	HOSE, brake 1	1	
11	306-25862-00-00	BOOT, master cylinder	1	
12	90401-10034-00	BOLT, union	2	
13	90201-10118-00	WASHER, plate	4	
14	4E2-25875-00-00	HOLDER, brake hose 1	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

STAND · FOOTREST

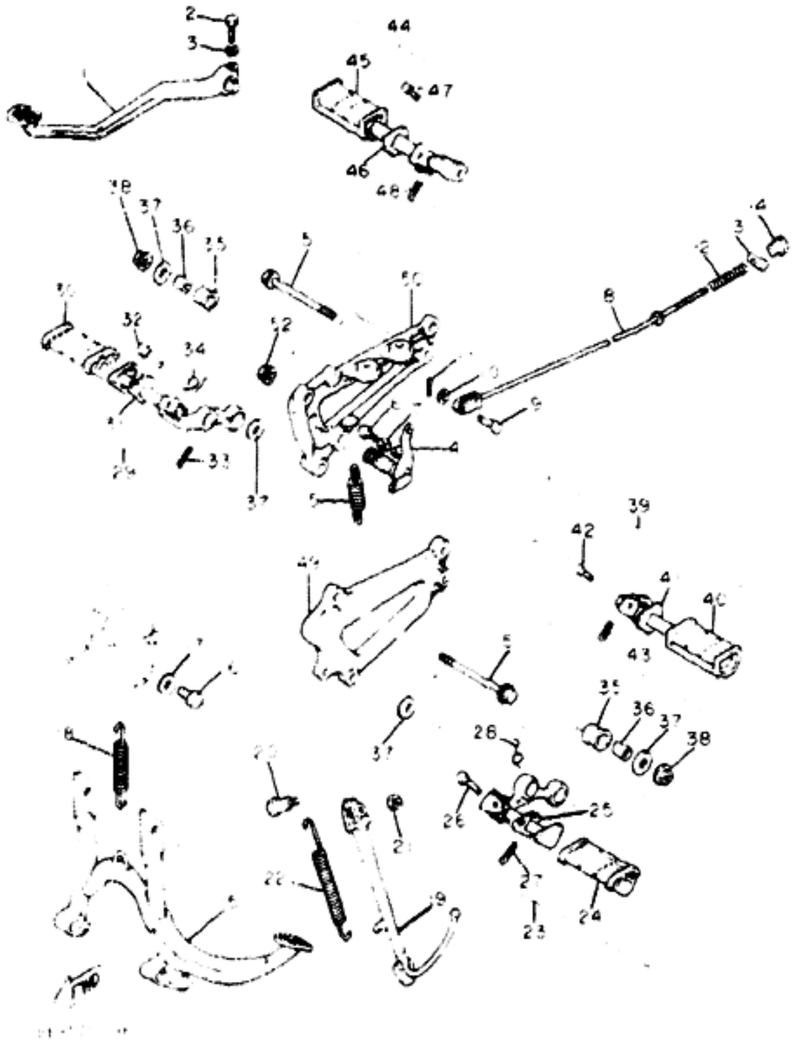


Ref No	Part Number	Description	Qty	Remarks
1	4X7-27211-00-93	PEDAL, brake	1	Chromo Plated
2	90109-06468-00	BOLT	1	
3	92990-06100-00	WASHER, spring (92903-06100)	1	
4	4X7-27212-00-00	SHAFT, brake pedal	1	
5	90506-26178-00	SPRING, tension	1	
6	90153-06018-00	SCREW, hexagon	1	
7	90170-06184-00	NUT	1	
8	4X7-27231-00-00	ROD, brake	1	
9	90240-06040-00	PIN, clevis	1	
10	92990-06200-00	WASHER, plain (92903-06200)	1	
11	91401-20015-00	PIN, cotter	1	
12	90501-10245-00	SPRING, compression	1	
13	90249-12008-00	PIN	1	
14	90179-06176-00	NUT	1	
15	4X7-27111-00-R4	STAND, main	1	Black
16	97302-10016-00	BOLT	2	
17	90201-10752-00	WASHER, plate	2	

CONTENTS

AIR CLEANER B 3,4
CABLE F 10
CAMSHAFT A 10 11
CARBURETOR B 5,6
CHAIN A 10 11
CLUTCH C 2,3
CRANKCASE B 8
CRANKCASE COVER B 9,10
CRANKSHAFT A 8 9
CYLINDER HEAD A 7
CYLINDER A 5,6
DRIVESHAFT D 7 9
ELECTRICAL 1 G 6 7
ELECTRICAL 2 G 8
EXHAUST B 7
FENDER D 3
FOOTREST E 12 F 2
FRAME D 1 2
FRONT BRAKE CALIPER F 7
FRONT FORK D 11 12
FRONT MASTER CYL E 11
FRONT WHEEL E 6
FUEL TANK E 3,4
GENERATOR B 11
HANDLEBAR E 10
HANDLE SWITCH G 9
HEADLIGHT G 3
LEVER G 9
METER G 1 2
MIDDLE DRIVE GEAR C 6 7
OIL FILTER B 2
OIL PUMP B 1
PISTON A 8 9
REAR SHOCKS D 10
REAR WHEEL E 8 9
SEAT E 5
SERVICE DATA J 1
SHIFT CAM C 8
SHIFT FORK C 8
SHIFT SHAFT C 9
SIDE COVER D 4 5
STAND E 12 F 2
STARTER CLUTCH C 1
STARTING MOTOR B 12
STEERING E 1 2
SWING ARM D 6
TAILLIGHT G 4
TECHNICAL BULLETINS Row K L
TOOL D 4 5
TOP END GASKET KIT H 1
TRANSMISSION C 4 5
TURNSIGNAL G 5
VALVE A 12

STAND · FOOTREST

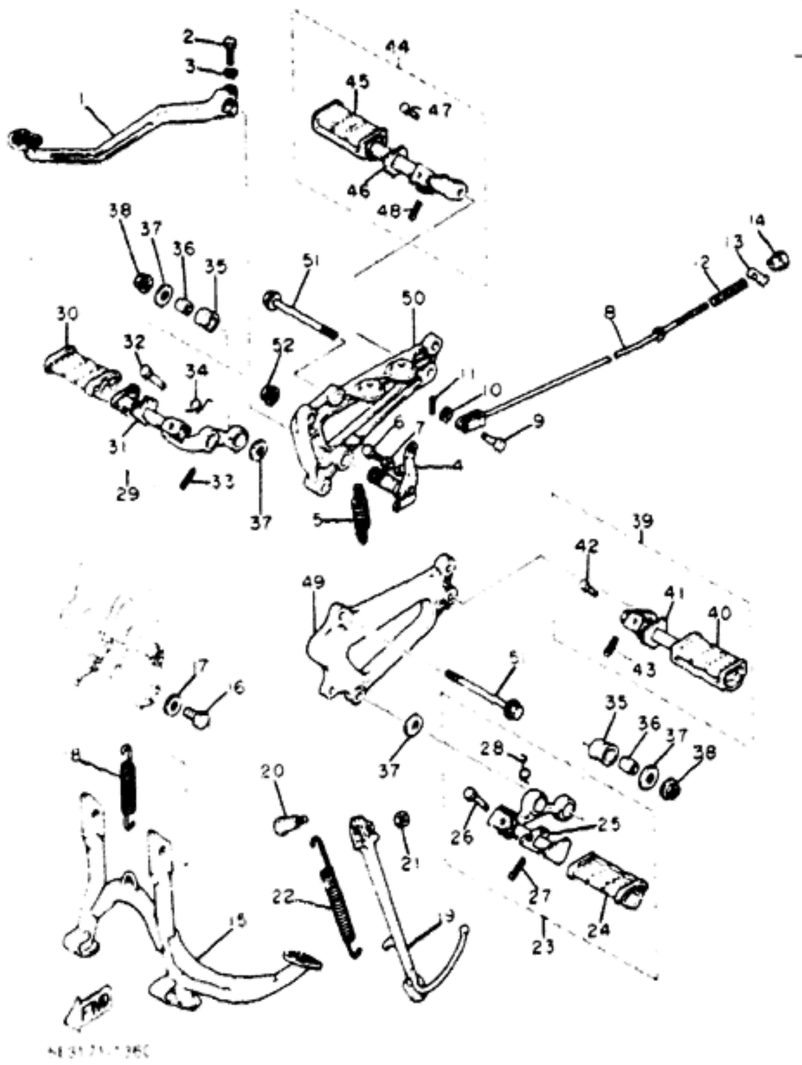


Ref. No.	Part Number	Description	Qty.	Remarks
18	90506-35149-00	SPRING, tension	1	
19	4X7-27311-00-R4	STAND, side	1	Black
20	90109-103A1-00	BOLT (90109-10473)	1	
21	95301-10700-00	NUT	1	
22	90507-29009-00	SPRING, tension	1	
23	4X7-27410-00-93	FRONT FOOTREST ASS'Y (L.H.)	1	Chrome Plated
24	4X7-27413-00-00	. COVER, footrest	1	
25	4X7-27417-00-00	. WASHER, footrest	1	
26	90240-08084-00	. PIN, clevis	1	
27	91401-25015-00	. PIN, cotter	1	
28	90508-20023-00	. SPRING, torsion	1	
29	4X7-27420-00-93	FRONT FOOTREST ASS'Y (R.H.)	1	Chrome Plated
30	4X7-27413-00-00	. COVER, footrest	1	
31	4X7-27417-00-00	. WASHER, footrest	1	
32	90240-08063-00	. PIN, clevis	1	
33	91401-30015-00	. PIN, cotter	1	
34	90508-20155-00	. SPRING, torsion	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K-L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

STAND – FOOTREST

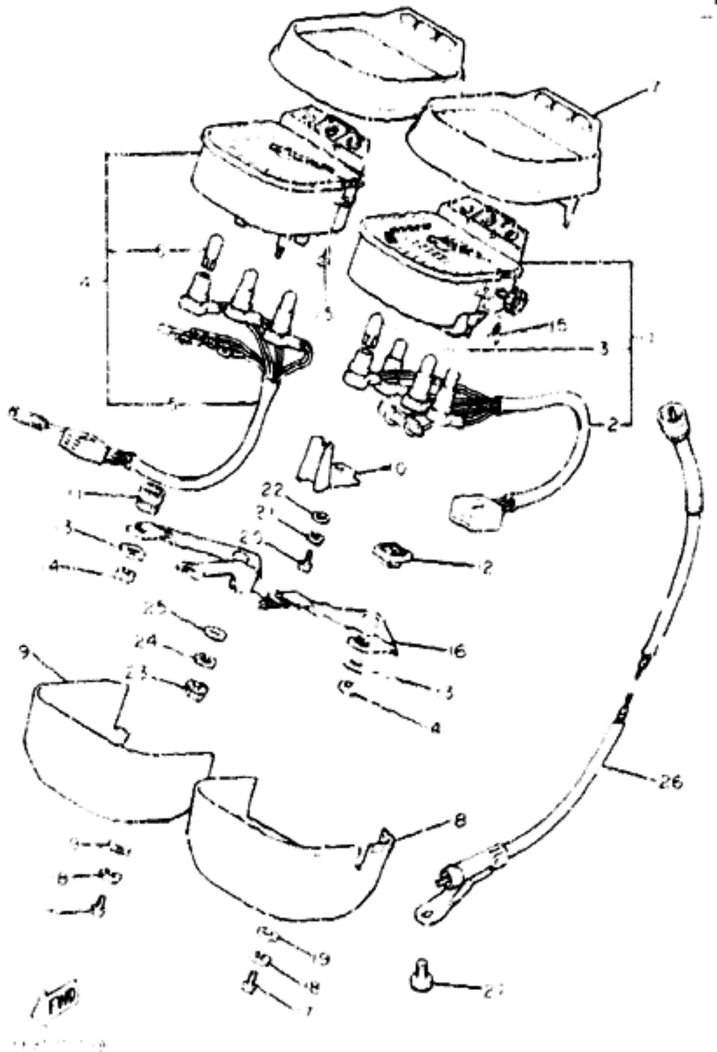


Ref. No.	Part Number	Description	Qty.	Remarks
35	4X7-27414-00-00	DAMPER, footrest	4	
36	90387-107A7-00	COLLAR	4	
37	90201-105A2-00	WASHER, plate	8	
38	90179-10247-00	NUT	4	
39	4X7-27430-00-00	REAR FOOTREST ASS'Y 1	1	
40	3H5-27433-00-00	. COVER, rear footrest	1	
41	90209-18190-00	. WASHER	1	
42	91701-06035-00	. PIN, clevis	1	
43	91401-16015-00	. PIN, cotter (91401-16012)	1	
44	4X7-27440-00-00	REAR FOOTREST ASS'Y 2	1	
45	3H5-27444-00-00	. COVER, rear footrest	1	
46	90209-18190-00	. WASHER	1	
47	91701-06035-00	. PIN, clevis	1	
48	91401-16015-00	. PIN, cotter (91401-16012)	1	
49	4X7-27442-00-00	BRACKET 2	1	
50	4X7-27443-00-00	BRACKET 3	1	
51	90105-10184-00	BOLT, washer based	2	
52	90179-10247-00	NUT	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

METER

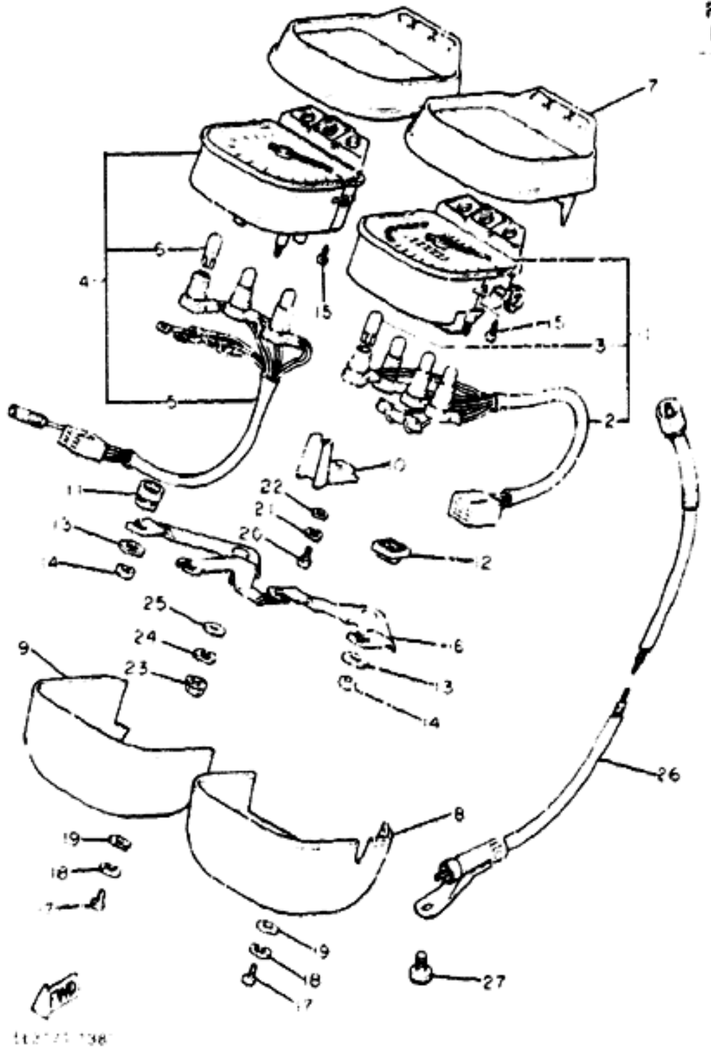


Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-83570-A0-00	SPEEDOMETER ASS'Y	1	
2	4X7-83536-00-00	. SOCKET, meter	1	
3	4G1-84744-00-00	. BULB (12V-3.4W) (4R0-83517-00)	4	
4	5E5-83540-00-00	TACHOMETER ASS'Y (4X7-83540-00	1	
5	4X7-83520-00-00	. SOCKET CORD ASS'Y	1	
6	4G1-84744-00-00	. BULB (12V-3.4W) (4R0-83517-00)	3	
7	4X7-83559-A0-00	COVER, meter	1	
8	4X7-83507-00-00	COVER, speedometer	1	
9	4X7-83508-00-00	COVER, tachometer	1	
10	4X7-83579-00-00	COVER, meter 2	1	
11	4X7-83523-00-00	DAMPER	2	
12	4H7-83523-00-00	DAMPER	2	
13	90201-05252-00	WASHER, special (156-83524-60)	4	
14	95301-05600-00	NUT	4	
15	4H7-83616-00-00	SCREW, tapping	4	
16	4X7-83519-00-00	BRACKET, meter	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rev-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

METER

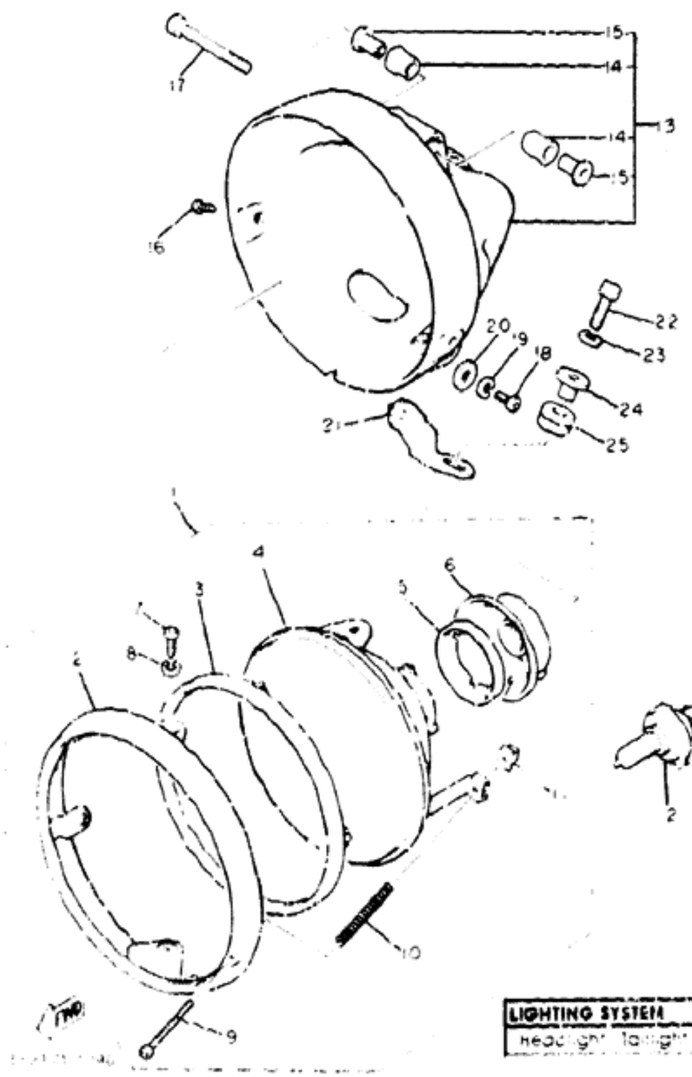


Ref. No.	Part Number	Description	Qty.	Remarks
17	98503-04010-00	SCREW, pan head	4	
18	92901-04100-00	WASHER, spring	4	
19	92901-04600-00	WASHER, plate	4	
20	98506-04008-00	SCREW, pan head	1	
21	92906-04100-00	WASHER, spring	1	
22	92906-04600-00	WASHER, plate	1	
23	95316-06600-00	NUT (95306-06600)	2	
24	92906-06100-00	WASHER, spring	2	
25	92906-06200-00	WASHER, plain	2	
26	4X7-83550-00-00	SPEEDOMETER CABLE ASS'Y	1	
27	90153-06004-00	SCREW, hexagon	1	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	D-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-5
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-11
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	F-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

HEADLIGHT



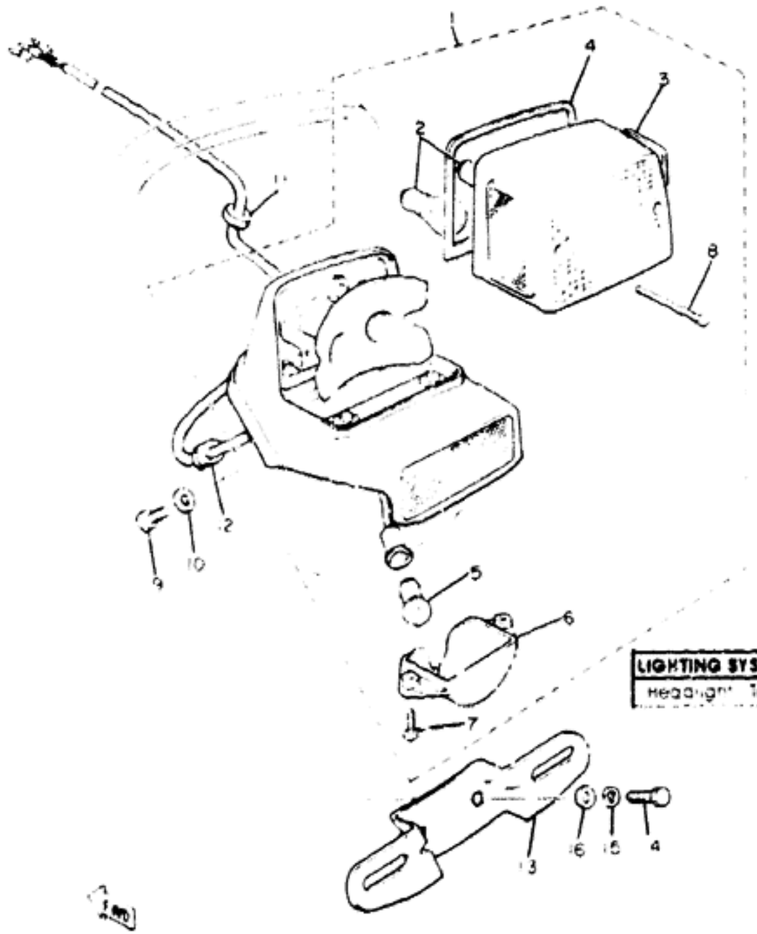
Ref No.	Part Number	Description	Qty	Remarks
1	4X7-84303-A0-00	HEADLIGHT UNIT ASS'Y	1	
2	4X7-84315-00-00	. RIM, headlight	1	
3	4X7-84395-00-00	. RING, retaining	1	
4	4X7-84321-A0-00	. LENS, headlight	1	
5	2F9-84375-00-00	. FITTING PLATE, bulb	1	
6	2F9-84397-01-00	. COVER, socket	1	
7	98501-05010-00	. SCREW, pan head	2	
8	92903-05100-00	. WASHER, spring (92902-05100)	2	
9	341-84331-60-00	. SCREW, rim adjusting	1	
10	1A0-84332-60-00	. SPRING, screw	1	
11	198-84334-60-00	. NUT, adjusting	1	
12	5V2-84314-00-XX	BULB (12V-60/55W) (2F9-84314-00)	1	
13	4X7-84330-00-9?	BODY ASS'Y	1	Chrome Plated
14	4X7-84345-00-00	. DAMPER, headlight	2	
15	4X7-84338-00-00	. COLLAR, body fitting	2	
16	98501-05010-00	SCREW, pan head (98503 05010)	2	
17	91316-08060-00	BOLT	1	
18	92506-06016-00	SCREW, pan head	1	
19	92906-06100-00	WASHER, spring	1	
20	90201-06067-00	WASHER, plate	1	
21	4X7-84318-00-00	STAY, headlight 1	1	
22	97306-06020-00	BOLT	1	
23	92906-06100-00	WASHER, spring	1	
24	90387-065E2-00	COLLAR	1	
25	90480-15235-00	GROMMET	1	

LIGHTING SYSTEM	
Headlight, Taillight, Signal Rating	12v60-55W 12v27-8W 12v27W

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-5,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TAILLIGHT



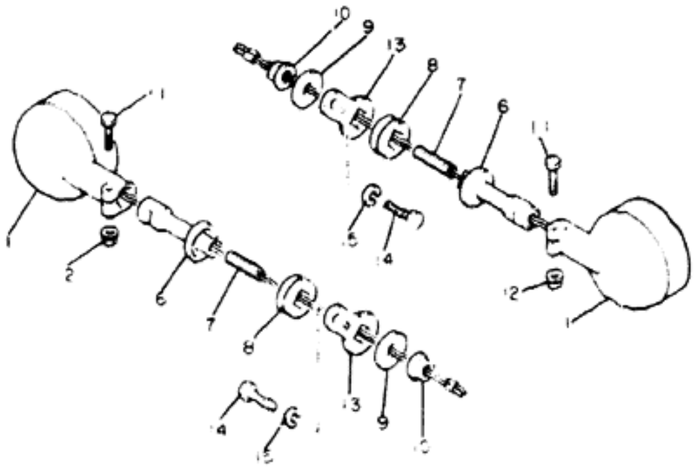
Ref. No.	Part Number	Description	Qty.	Remarks
1	5K5-84700-60-00	TAILLIGHT ASS'Y	1	
2	256-84714-61-00	. BULB (12V-27/8W)	2	
3	5K5-84721-60-00	. LENS, taillight	1	
4	4H7-84723-00-00	. GASKET, tail lens	1	
5	4H7-84744-00-00	. BULB (12V-8W)	1	
6	4H7-84743-00-00	. LENS, license light	1	
7	98503-04014-00	. SCREW, pan head (98503-04015)	2	
8	5K5-84724-00-00	. SCREW, lens fitting	2	
9	97301-06016-00	BOLT	3	
10	92901-06600-00	WASHER, plate	3	
11	90480-16112-00	GROMMET	1	
12	90480-15061-00	GROMMET	1	
13	4H7-84751-01-93	BRACKET, license	1	Chrome Plated
14	97301-06016-00	BOLT	2	
15	92990-06100-00	WASHER, spring (92903-06100)	2	
16	92901-06600-00	WASHER, plate	2	

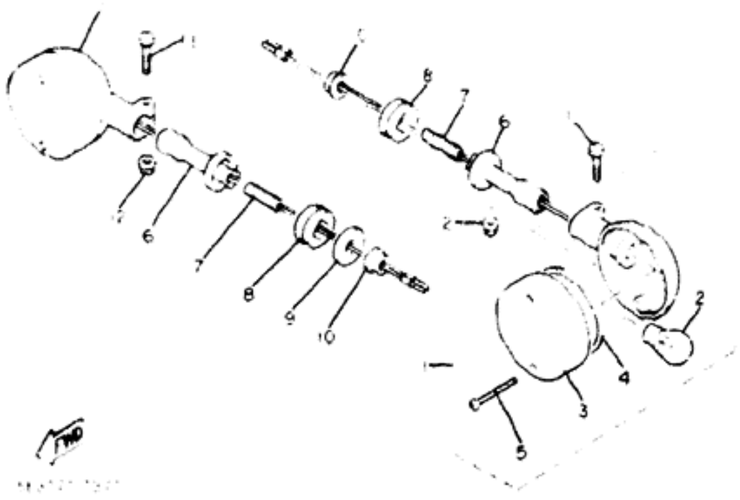
LIGHTING SYSTEM	
Headlight Taillight Signal Rating	12V-60/55W 12V-27/8W 12V-27W

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TURNSIGNAL





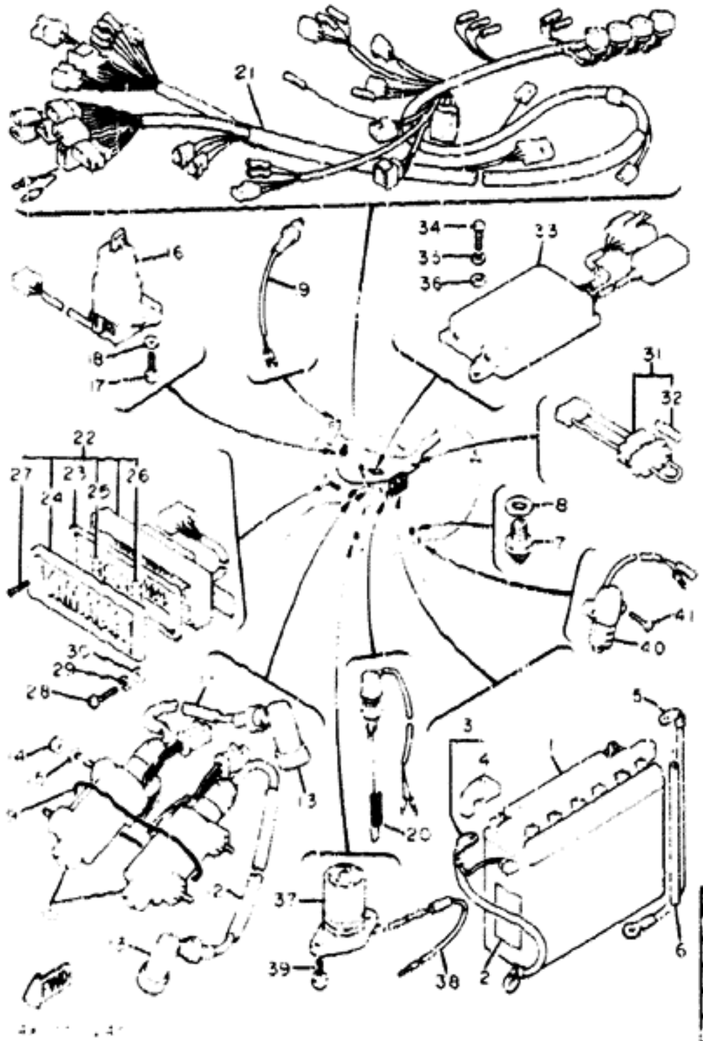
Ref. No.	Part Number	Description	Qty.	Remarks
1	5H1-83330-K0-00	REAR FLASHER LIGHT ASS'Y 1 (4X7-83310-K0)	4	
2	256-83311-70-00	. BULB (12V-27W)	1	
3	4H7-83312-00-00	. LENS, flasher	1	
4	4H7-83313-00-00	. GASKET, flasher lens	1	
5	98501-03030-00	. SCREW, pan head	2	
6	4X7-83328-00-00	STAY, flasher 2	4	
7	4X7-83325-00-00	BOLT, flasher stay fitting	4	
8	341-83321-01-00	DAMPER, flasher 1	4	
9	90201-127A1-00	WASHER, plate	3	
10	95706-12100-00	NUT, flange	4	
11	97321-06030-00	BOLT (97301-06030)	4	
12	95701-06500-00	NUT, flange (95701-06100)	4	
13	4X7-83318-00-00	STAY, flasher 1	2	
14	97302-08016-00	BOLT	2	
15	92990-08100-00	WASHER, spring (92903-08100)	2	

LIGHTING SYSTEM	
Headlight/Taillight/Signal Rating	12V-60/55W 12V-27/8W 12V-27W

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

ELECTRICAL 1

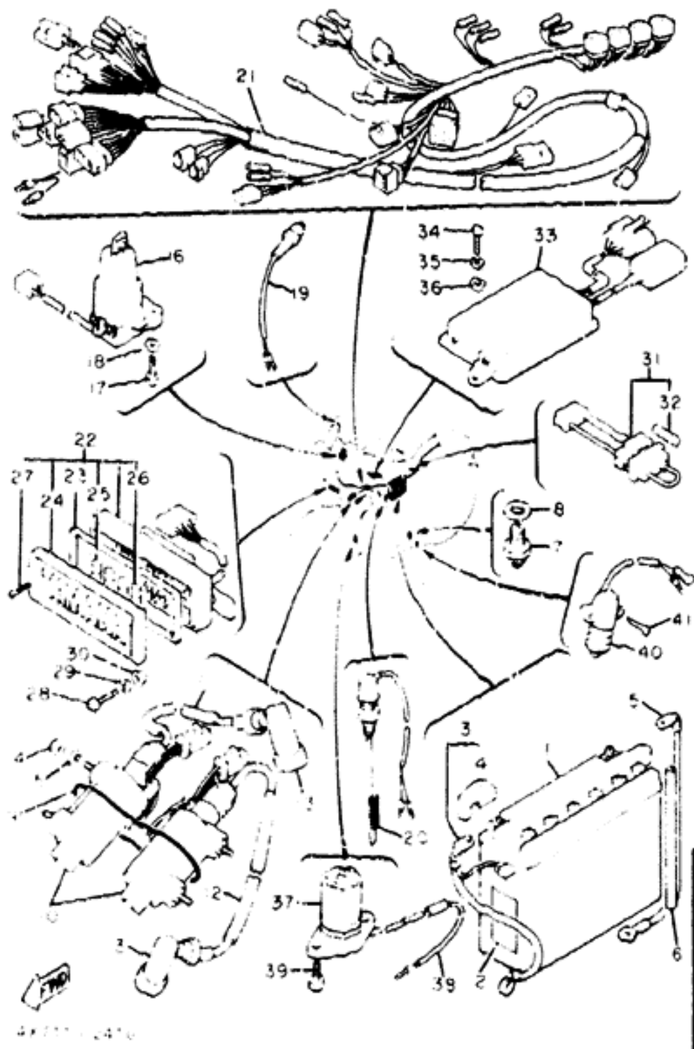


Ref. No.	Part Number	Description	Qty.	Remarks
1	5E3-82110-80-00	BATTERY ASS'Y (YUASA YB16AL)	1	
2	118-82141-09-00	LABEL, battery (LIT-82141-09)	1	
3	4X7-82115-00-00	WIRE, plus lead	1	
4	4X7-82119-00-00	COVER, lead wire	1	
5	4X7-82116-01-00	WIRE, minus lead	1	
6	90445-08046-00	HOSE	1	
7	2H7-82540-00-00	NEUTRAL SWITCH ASS'Y	1	
8	90430-10027-00	GASKET (90430-10148)	1	
9	93210-64297-00	O-RING	1	
10	4X7-82310-70-00	IGNITION COIL ASS'Y	2	
11	4X7-82341-00-00	CORD, high tension 1	1	
12	3Y6-82341-00-00	CORD, high tension 2 (4X7-82342-00)	1	
13	1J7-82370-00-00	PLUG CAP ASS'Y (STD)	2	
	1J7-82370-10-00	PLUG CAP ASS'Y (Optional)	2	w/noise suppressor
14	95302-06600-00	NUT	4	
15	92990-06100-00	WASHER, spring (92903-06100)	4	
16	47M-82501-50-00	MAIN SWITCH ASS'Y (4H7-82508-50)	1	
17	97301-06016-00	BOLT (97301-06015)	2	
18	92901-06600-00	WASHER (92902-06600)	2	
19	1A0-83980-30-00	FRONT STOP SWITCH ASS'Y	1	
20	4X7-82530-00-00	STOP SWITCH ASS'Y	1	
21	4X7-82590-51-00	WIRE HARNESS ASS'Y (4X7-82590-50)	1	

CHARGING SYSTEM	AC Magneto 3 Phase Full Wave
Battery Model Specific Gravity Charge Rate	YB16AL 12V 16Ah 1.28 1.6A
Maximum Output	14V 16A / 5000 rpm
TROUBLESHOOTING	
Field Coil Color Code	Stator Wire (W) 0.5Ω ± 10%
Charge Coil Color Code	Ω
IGNITION SYSTEM	Transistor Controlled Ignition
Ignition Timing	Sta. 10° / 1000 rpm Adv. 35° / 3600 rpm
Ignition Coil Test Gap Primary Ω Secondary Ω	6mm 2.7Ω ± 5% 8.5kΩ ± 15%
Pulser Coil or Pickup Coil Color Code Ω	Brn Grn Red Blu 155Ω ± 20%

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-8,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-3
VALVE	A-12



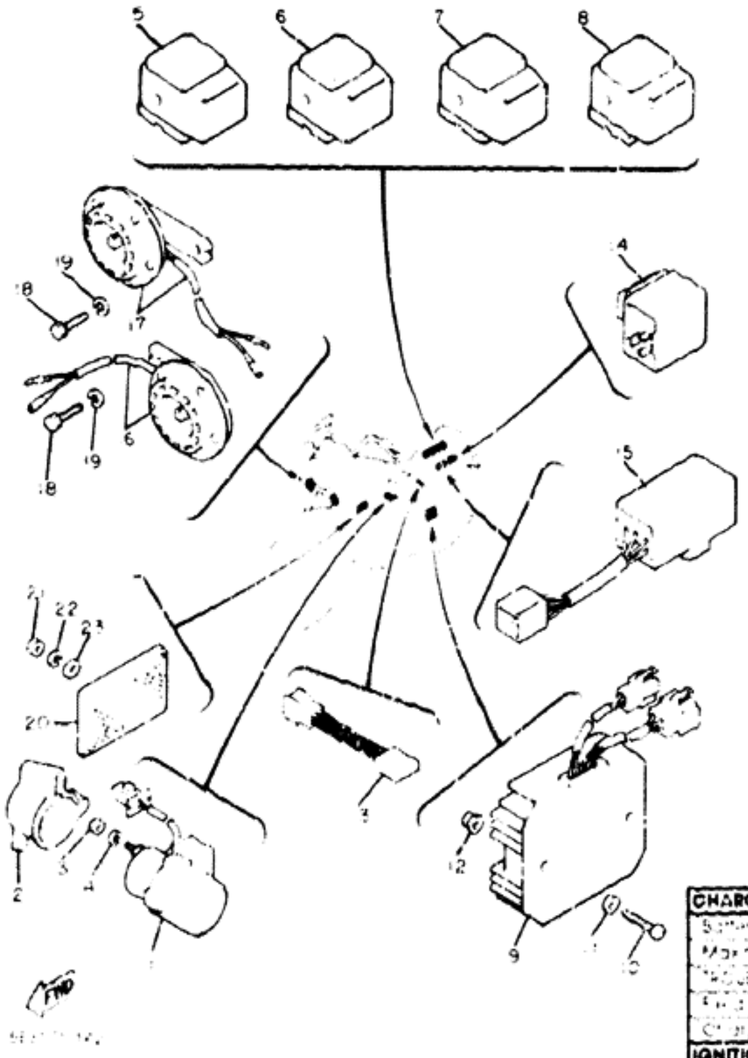
Ref. No.	Part Number	Description	Qty.	Remarks
22	4X7-82170-00-00	FUSE BOX ASS'Y	1	
23	4X7-82175-00-00	. GASKET	1	
24	4X7-82172-00-00	. COVER, fuse box	1	
25	4X7-82151-00-00	. FUSE (12V-15A)	1	
26	116-82151-00-00	. FUSE (12V-10A)	3	
27	98606-04010-00	. SCREW, oval head	2	
28	92501-06030-00	SCREW, pan head (92502-06030)	2	
29	92990-06100-00	WASHER, spring (92903-06100)	2	
30	90201-06048-00	WASHER, plate	2	
31	4X7-82150-00-00	FUSE HOLDER ASS'Y	1	
32	1A0-82161-00-00	. FUSE (12V-20A)	2	
33	4X7-82305-21-00	IGNITOR UNIT ASS'Y (4X7-82305-20)	1	
34	92580-06012-00	SCREW, pan head (92503-06012)	2	
35	92990-06100-00	WASHER, spring (92903-06100)	2	
36	92901-06600-00	WASHER (92902-06600)	2	
37	4X7-85720-02-00	OIL LEVEL GAUGE ASS'Y (4X7-85720-00)	1	
38	4X7-85721-00-00	WIRE, lead	1	
39	91311-06016-00	BOLT	2	
40	336-82566-00-00	SWITCH, side stand (4X7-82566-00)	1	
41	98706-05016-00	SCREW, flat head	2	

CHARGING SYSTEM	AC Magneto 3 Phase Full Wave
Battery Model Specific Gravity Charge Rate	YB10A-A 12V 10AH 1.28 1.0A
Maximum Output	14V 16A / 5000 rpm
TROUBLESHOOTING	
Exciting Coil Color Code	Starter White - White 0.5Ω ± 10%
Charging Coil Color Code	-
IGNITION SYSTEM	Transistorized ignition
Ignition Timing	Std 10° / 1000 rpm Adv 35° / 3600 rpm
Ignition Coil Test Gap Primary / Secondary	6mm 2.7Ω ± 15% 8.5kΩ ± 15%
Pulser Coil Color Code / Exciter Coil Color Code	Brn - Grn Red - Blu 155Ω ± 20%

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

ELECTRICAL 2



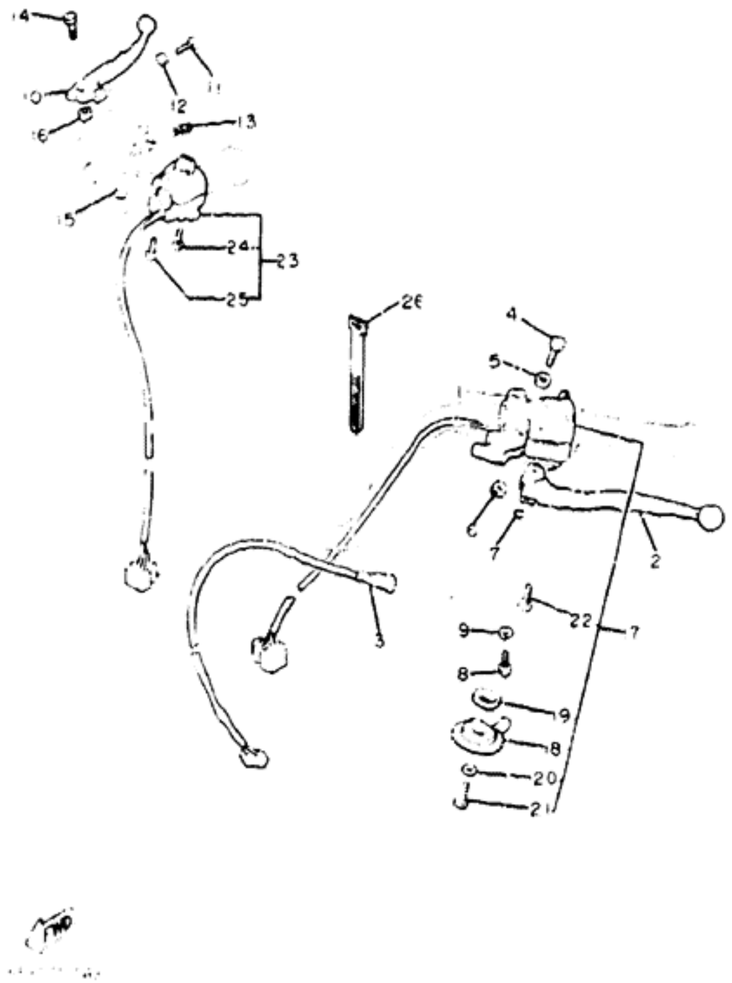
Ref. No.	Part Number	Description	Qty.	Remarks
1	4X7-81940-00-00	STARTER SWITCH ASS'Y	1	
2	4X7-81942-00-00	COVER	1	
3	95301-06700-00	NUT (95302-06700)	2	
4	92990-06100-00	WASHER, spring (92903-06100)	2	
5	3H5-81950-00-00	HEADLIGHT RELAY ASS'Y	1	
6	4U8-81950-01-00	SIDE STAND RELAY ASS'Y	1	
7	4U8-81950-01-00	STARTER CUTOUT RELAY ASS'Y	1	
8	12R-81950-00-00	STARTER CIRCUIT CUT-OFF RELAY	1	
9	4X7-81960-A0-00	RECTIFIER & REGULATOR ASS'Y	1	
10	92502-06035-00	SCREW, pan head	2	
11	90201-06068-00	WASHER, plate	2	
12	95701-06500-00	NUT, flange	2	
13	4U8-81980-M0-00	DIODE	1	
14	4E6-83350-70-00	FLASHER RELAY ASS'Y	1	
15	1A0-83395-03-00	FLASHER CANCELLING UNIT	1	
16	4X7-83371-20-00	HORN	1	High Tone
17	4X7-83371-30-00	HORN	1	Low Tone
18	97306-08014-00	BOLT	2	
19	92906-08100-00	WASHER, spring	2	
20	4X7-85110-00-00	FRONT REFLECTOR ASS'Y	2	
21	95301-05700-00	NUT (95302-05700)	2	
22	92903-05100-00	WASHER, spring (92902-05100)	2	
23	92901-05200-00	WASHER (92902-05200)	2	

CHARGING SYSTEM	AC Magneto, 3-Phase, Full-Wave
System, Model, Stator Coil Resistance, Charge Rate	Y6T6A, 12V 16AH, 0.28 Ω/AC
Maximum Output	14V 16A / 5000 rpm
Regulator/Rectifier	Shunt, Wire Wound, Full-Wave
Exciting Coil Resistance	0.5 Ω ± 10%
Charging Coil Resistance	0.3 Ω ± 10%
IGNITION SYSTEM	Battery and Coil Assisted
Timing Advance	5° BTDC / 1000 rpm Adv. 35° / 3600 rpm
Ignition Coil Primary Resistance, Secondary Resistance	0.7 Ω ± 15% 6.5k Ω ± 15%
Pulse Generator Coil Resistance	Blue/White - Red 0.5 Ω ± 20%

CONTENTS

AIR CLEANER	E-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	B-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

HANDLE SWITCH · LEVER



Ref. No.	Part Number	Description	Qty.	Remarks
1	4H7-82911-00-00	HOLDER, lever 1	1	
2	2H0-83912-20-00	LEVER 1	1	
3	3Y6-82917-00-00	SWITCH	1	
4	2H7-83945-00-00	BOLT, lever	1	
5	90201-08083-00	WASHER, plate	1	
6	95601-06100-00	NUT, U	1	
7	93210-11368-00	O-RING	1	
8	97306-06022-00	BOLT	1	
9	92906-06100-00	WASHER, spring	1	
10	2H7-83922-00-00	LEVER 2	1	
11	90149-06131-00	SCREW	1	
12	90170-06010-00	NUT	1	
13	90501-10510-00	SPRING, compression	1	
14	90109-06465-00	BOLT	1	
15	95601-06100-00	NUT, U	1	
16	90386-08094-00	BUSH	1	
17	4H7-83973-00-00	SWITCH, handle 3	1	
18	4H7-83941-00-00	. LEVER, starter	1	
19	90209-10131-00	. WASHER	1	
20	92903-06200-00	. WASHER, plain (92901-06200)	1	
21	97323-06008-00	. BOLT	1	
22	98506-05030-00	. SCREW, pan head	2	
23	2H7-83975-01-00	SWITCH, handle 2	1	
24	98506-05030-00	. SCREW, pan head	1	
25	98506-05040-00	. SCREW, pan head	1	
26	437-83936-00-00	BAND, switch cord	4	

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-2
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-8
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rev-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TOP END GASKET KIT

Ref. No.	Part Number	Description	Qty.	Remarks
	4X7-W0001-00-XX	TOP END GASKET KIT		
	4X7-11181-00-00	CYLINDER HEAD GASKET	2	
	4X7-11355-00-00	CYLINDER HEAD SEAL	2	
	93210-92448-00	HEAD COVER O-RING	2	
	93210-62446-00	HEAD COVER O-RING	4	
	90430-17168-00	UNION BOLT GASKET	6	
	93210-89447-00	CYLINDER BASE O-RING	2	
	4X7-11351-00-00	CYLINDER BASE GASKET	2	
	4X7-12213-00-00	TENSIONER CASE GASKET	4	
	341-12119-02-00	VALVE STEM SEAL	4	
	93210-07155-00	DELIVERY PIPE O-RING	2	
	90430-15169-00	UNION BOLT GASKET	3	
	4X7-13556-00-00	INTAKE GASKET	2	
	4X7-14613-00-00	EXHAUST GASKET	2	

NOTE: For K & MK application, intake o-ring, P/N 93210-44545-0G, quantity 2, must be ordered separately and used in place or intake gasket.

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	B-3,4
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TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

SERVICE DATA

XV750J
1982 SERVICE DATA

MODEL · HMI I.D. NUMBER	XV750J-B XV750J-S 4X7
Initial Engine Number · Frame Number	4X7-200101 4X7-200101
Basic Color(s)	New Yamaha Black (B) Star Silver (S)
Fuel Type · Fuel Tank Capacity · Reserve Capacity	Regular · 22 Lit · 2.6 Lit
Dry Vehicle Weight	242 kg
ENGINE TYPE	4-Stroke, Air-Cooled, SOHC, V-Twin
Bore · Stroke · Number Cylinders · Displacement (cc)	83.0mm × 69.2mm · 2 · 748cc
Compression Ratio · Compression Pressure: Min. – Max.	8.7:1 · 9.0 – 11.0 kg/cm²
Piston Skirt Clearance: New – Max.	0.040 – 0.060mm · 0.1mm
Ring End Gap: Top · 2nd · 3rd	0.3 – 0.5mm · 0.3 – 0.5mm · 0.3 – 0.9mm
Valve Clearance (Cold): Intake · Exhaust	0.10mm · 0.15mm
Oil Pressure: Hot · rpm	N.A.
Oiling System	Wet Sump
Capacity: Dry	3600cc
Oil and Filter Change	3100cc
Oil Change	3000cc
Lubricant: Temp. Above 5°C (40°F)	Yamalube 4 or SAE 20W40
Temp. Below 15°C (60°F)	SAE 10W30
ALTERNATOR · Mfr. · Stator Color Code	Hitachi · Y
Minimum Output @ 2,000 Cycles	2
Maximum Output @ 7,200 Cycles	2
CARBURETOR · Mfr. · Type · ID Number	Hitachi · HSC40 · 4X7-00
Main Jet · Pilot Jet	#122 · #41
Needle Jet · Jet Needle Clip Position	#2 · #4 × 2.5 · #2 × 2.2 · Fixed
Slide Cutaway or Throttle Valve	2
Float Level · Fuel Level	N.A. · #1 1.0 ± 1.0mm · #2 2.0 ± 1.0mm
Idle rpm	1,000
Max. CO* · Max. HC* · Set CO	7%* · 500 ppm · 3% (At Settings ± 1 rpm)
SUSPENSION	
Front Forks: Oil Type · Level · Qty.	10 Wt. Fork Oil · 2 · 278cc
Air Pressure: Min. – Max. · Standard	0 – 2.5 kg/cm² · 0.4 kg/cm²
Spring Length: Std.	635mm
Monoshock: Oil Type · Qty.	Not Reducible
Air Pressure: Min. – Max. · Standard	0.5 – 4.0 kg/cm² · 1.5 kg/cm²
Minimum Brake Lining Thickness	Front – 2mm · Rear – 2.0mm
Tire Size (Normal Pressure)	F 3.50H-19 (1.8 kg/cm²) · R 4.00-18 6PR (2.0 kg/cm²)
TRANSMISSION · Oil Type · Qty. · Chg. Qty. · Reassemble	See ENGINE Above
Primary Drive: Type · Teeth · Ratio	Spur Gear · 78/47 · 1.660
Secondary Drive: Type · Teeth · Chain	Shaft · 47/15 × 19/48 × 32 RH · 2
Clutch: Friction Plate Thickness: Std. – Min.	3.0 – 2.9mm
Clutch Spring Length: Std. – Min.	41.2 – 40.2mm
Middle Gear Case Capacity	2
Final Gear Case Capacity	2.2 L
Gear Case Lubricant: Temp. Above 5°C (40°F)	SAE 90 Hypoid Gear Oil GL-4
Temp. Below 15°C (60°F)	SAE 80 Hypoid Gear Oil GL-4
Arctic Weather Conditions	SAE 80W90 Hypoid Gear Oil GL-4

MOTORCYCLE – 750 SECTION SAE 6 26 81 No. M81-026

CHARGING SYSTEM	AC Magneto · 3-Phase, Full Wave
Battery: Model · Spec. · Capacity · Charge Rate	YB16AL · 12V 16AH · 2.8 · 1.6A
Maximum Output	14V 16A @ 5000 rpm
TROUBLESHOOTING	
Stator Coil: Color Code · Ω	Signal: White – White · 0.5 Ω ± 10%
Charge Coil: Color Code · Ω	Y ·
IGNITION SYSTEM	Transistor-Controlled Ignition
Ignition Timing	5° BTDC @ 1,000 rpm · Adv. 35° @ 3,400 rpm
Ignition Coil: Type	Mitsubishi
Spark Plug: Gap · Torque · Cap Ω	0.7 – 0.8mm · 2.0 m-kg · 5kΩ ± 15%
Pick-up Coil: Sense Gap · Distance	Y · Y
TROUBLESHOOTING	
Pick-up Coil: Test Cycle · Primary Ω · Secondary Ω	Cranking · 2.7 Ω ± 15% · 8.4k Ω ± 15%
Pick-up Coil: Color Code Ω	Blue – Yellow · Red – Black · 155 Ω ± 20%
Pick-up Coil: Air Gap	Y ·
LIGHTING SYSTEM	
Headlight: Bulb · Voltage · Rating	12V 45/40W · 12V 21/5W · 12V 21W
Bulb Type · Socket	Y · Y
Taillight: Bulb Type · Color Code	Y · Y
TORQUE VALUES	
Front Axle Nut	4.0 m-kg
Front Axle Pinch Bolt	1.8 – 2.5 m-kg
Rear Axle Nut	4.0 m-kg
Rear Axle Nut (Taper)	8.0 – 9.5 m-kg
Engine Mounting Bolt	4.0 m-kg
Engine Mounting Nut	4.0 m-kg
Engine Mounting Bracket Bolt	2.5 – 3.5 m-kg
Engine Mounting Bracket

TECHNICAL BULLETIN

XV750/920
CAMSHAFT TIMING

To avoid improper camshaft timing on a V-twin engine, follow the procedure below when reassembling the top ends. It is possible to time each cylinder's camshaft to its piston correctly while having the cylinders out of proper phase with each other. This incorrect timing allows both cylinders to fire on the same engine revolution, to be followed by a "dead" revolution in which neither cylinder fires. Symptoms of this incorrect camshaft timing include an irregular exhaust note, abnormal vibration, and a lack of high-rpm power.

AFFECTED MODELS

All XV750 and XV920

PROCEDURES

Timing the Camshafts

1. Upon timing the camshafts, turn the crankshaft clockwise to align the "T" mark on the flywheel with the stationary pointer, see Photo 1. This places the rear cylinder at top dead center (TDC).

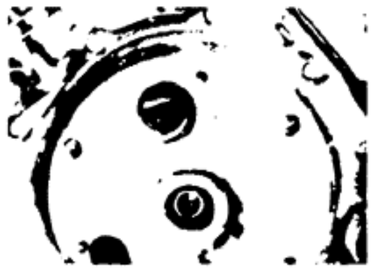


PHOTO 1

2. Turn the camshaft at the rear cylinder so the sprocket locating pin is aligned with the cast-in pointer at the top of the sprocket housing.

3. Install the cam sprocket in the cam chain and slip the sprocket onto the end of the camshaft so that the locating pin in the camshaft fits into the pinhole in the sprocket.

4. With all cam chain slack pulled from the front of the chain, check to make sure the alignment mark on the sprocket is lined up with the pointer in the cam sprocket housing, see Photo 2. The rear cylinder is now timed correctly; complete the assembly of the rear cylinder.



PHOTO 2

5. While keeping the front-cylinder cam chain taut, **rotate the crankshaft clockwise 288°** to align the front-cylinder TDC mark on the flywheel with the stationary pointer, see Photo 3. This will establish the proper timing relationship between the two cylinders.

AT July 14, 1981



PHOTO 3

6. Align the locating pin on the camshaft with the pointer in the cam sprocket housing. Install the sprocket in the cam chain, and slip the sprocket onto the camshaft so the locating pin fits into the sprocket pinhole.

7. Take the slack out of the front of the cam chain, and check the alignment of the sprocket timing mark with the pointer in the sprocket housing, see Photo 4. If it is correctly aligned, complete the assembly of the engine.



PHOTO 4

Checking for Proper Phasing

To recheck the timing relationship, remove the cam sprocket covers and turn the crankshaft clockwise so the rear cylinder is at TDC on the compression stroke. The pointers in the sprocket housings are considered to be 12 o'clock. The cam sprocket timing mark on the front cylinder will point to approximately 7:30 while the rear cylinder sprocket points to 12 o'clock, see Photos 5, 6, and 7.



PHOTO 5



PHOTO 6



PHOTO 7

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CARBURETOR	B-5,6
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CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 - 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 - F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
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OIL PUMP	B-1
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SHIFT FORK	C-8
SHIFT SHAFT	C-9
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STARTER CLUTCH	C-1
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SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TECHNICAL BULLETIN

Date: July 17, 1981

SPECIAL TOOLS
XV750 MIDDLE GEAR CASE TOOL KIT

[illegible] components of a vintage middle gear case [illegible] service. It is not [illegible] It contains the necessary tools to remove and install the bearings, retainers, shafts, and related parts.

This kit does not include a [illegible] drive shaft [illegible]. The XJ650 middle drive shaft holder [illegible] in the XJ650 tool kit (90890-01984-00).



PARTS INFORMATION

PART NUMBER	DESCRIPTION	DEALER COST
[illegible]	★XV750 Middle Drive Gear Tool Kit	
[illegible]	★55mm Offset Wrench	✓
[illegible]	★Middle Drive Shaft Retainer	✓
[illegible]	★Middle Drive Shaft Retainer Wrench	✓
[illegible]	★30 - 50mm Bearing Driver	✓
[illegible]	★Universal Joint Tool	✓
[illegible]	★40mm Bearing Remover Attachment	✓

[illegible] ★ = Special tools are [illegible] available at this time.

PAGE 1 OF 1

Date: October 19, 1981

XV750/920
CARBURETOR TUNING

Due to the unique layout of the carbs and operating linkages on the XV750 and XV920 models, the adjustment and tuning procedures differ somewhat from those of other Yamaha models. They are, however, no less critical. To ensure good performance, use the information in this update as well as that in the service manual to adjust the carbs properly. Follow the sequence presented in the checklist.

AFFECTED MODELS

All XV750 and XV920

CARBURETOR TUNING CHECKLIST

1. Synchronize the starter plungers using the procedure in this update.
2. Adjust the fuel levels.
3. Synchronize the carbs.
4. Set the idle speed.

NOTE: The throttle stop screw on the rear cylinder carburetor is **not** to be used to set the idle. This screw is preset at the factory to prevent the throttle plate from sticking or damaging the venturi. If this screw has been adjusted or if there is no clearance between this screw and the butterfly, refer to the instructions in this update entitled **Rear-Cylinder Throttle Stop Screw Adjustment.**

5. Check the idle mixture using the exhaust gas analyzer (see the EGA manual).

STARTER SYNCHRONIZATION

The starter plungers on both carburetors must be synchronized to ensure proper starting and warmup.

1. Remove the fuel tank.
2. Observe the starter plungers while operating the starter lever. If the plungers do not leave their seats simultaneously, they must be adjusted.
3. Loosen the two screws on either of the carbs which hold the starter linkage brackets to the carb body. This will allow the brackets to move slightly on the carb.
4. Move the starter linkage brackets until the plungers engage simultaneously.
5. Tighten the screws and recheck. It may be necessary to adjust the linkage brackets on both carbs to achieve synchronization.

REAR-CYLINDER THROTTLE STOP SCREW ADJUSTMENT

The stop screw on the left-hand rear cylinder carburetor must **not** be used to adjust the idle speed of the engine. The stop screw on the right-hand front cylinder carb adjusts the idle for both cylinders. The purpose of the screw on the left side is to prevent the throttle plate in that carburetor from sticking and damaging the venturi and the plate if the screw on the left-rear carb is [illegible]

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CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
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SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~F-2
STARTER CLUTCH	C-1
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SWING ARM	D-6
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TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TECHNICAL BULLETIN

Date: October 19, 1981

...ewer mower, or if the screw touches the throttle-plate arm at idle, it must be reset properly. Follow these steps to readjust the screw.

2. Loosen the locknut on the rear-cylinder carburetor and turn the screw out several turns.

3. Synchronize the carburetors with the carb synchronizing screw; follow the procedure in the service manual.

4. Adjust the idle speed using the throttle stop screw on the front-cylinder carburetor.

5. Turn in the screw on the rear-cylinder carburetor until it just touches the throttle-plate arm, back the screw off 1/4 to 1/2 turn, and retighten the locknut on the stop screw.

Date: December 2, 1981

XV750/920
CARBURETOR VENT BLOCKAGE

The carburetor vent passages on the affected models can become blocked if spiders or insects choose to reside there. These passages, consisting largely of metal tubes welded to the side of the frame, provide atmospheric pressure to the bottom of the slide diaphragms and to the float bowls. If a passage is blocked, the carburetor slide will not rise properly and the related cylinder will respond poorly or not at all above idle. If an affected model exhibits this symptom, remove the vent hoses from the carburetors and check for proper operation. If the machine then runs correctly, a vent passage is blocked and must be reopened.

AFFECTED MODELS

All XV750 and XV920

PROCEDURE

1. Remove the seat, fuel tank, side cover, and air filter case (rear).

2. Remove the vent hoses which connect the diaphragm chambers of the carburetors to the frame passages.

3. Insert a piece of welding rod or coat hanger into both ends of each passage to dislodge the foreign material; see the illustration.

NOTE: Using compressed air alone may not be sufficient to remove the material.

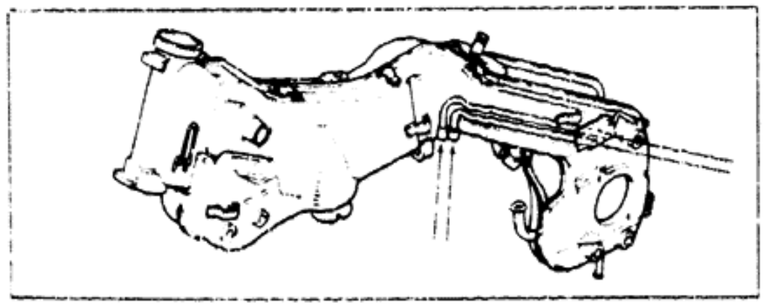
4. To prevent bugs from returning to the passage, squirt a small amount of chain lube into the rear end of the vent passages.

5. Gently blow through the vent hoses to determine if the filter in the plastic housings are dirty. If so, flush the hose with solvent and blow it dry with compressed air.

6. Reinstall the vent hose assemblies.

7. Reinstall the air filter assembly, the side cover, the fuel tank, and the seat.

8. Check the machine for proper operation.



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CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
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CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
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SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
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SWING ARM	D-8
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TECHNICAL BULLETIN

MOTORCYCLE	DATE 12-9-83	No. M82-019B

XV750/920
STARTER DRIVE SHIMMING

This bulletin replaces M82-019A, please replace M82-019A with your files and destroy it.

The starter drive assembly (front bracket assembly) on some affected units may slip during operation. To correct this problem, three shims must be placed in the starter drive as shown in the following procedures. Installation of these shims will increase starter torque and alleviate starter slipping.

AFFECTED MODELS

All XV750H	All XV750MK	All XV920RJ
All XV750J	All XV920J	All XV920K
All XV750K	All XV920RH	All XV920RK

PROCEDURES

NOTE: Before beginning these procedures, check the battery and the charging system of each affected unit. A fully charged battery is necessary for proper starter operation.

1. Disconnect the solenoid cable from the starter.
2. Remove the two 6 x 25mm starter mounting bolts, see the arrows in the photo.
3. Remove the two long starter bolts, see the arrows in the photo.



4. Holding the starter motor by its center section, remove the starter motor from the front bracket assembly. Make sure the rear section containing the brushes stays in place.
5. As the starter motor is removed, be sure that the small locating rib situated along the inside rim of the front bracket assembly stays in place. The arrow in the photo shows the locating tab's position. This tab is critical for correct reassembly of the starter motor. Take care that it is not misplaced.



6. Place three shims on the starter motor as shown in the photo. Coat each shim with a thin layer of grease to hold the shims in place during reassembly.



7. Reinstall the starter motor onto the front bracket assembly, making sure that the small locating tab stays in place. Align the notch on the outer edge of the starter motor with the locating tab for proper positioning.
8. Reinstall the long starter bolts. Tighten them with an impact screwdriver.

9. Reinstall the 6 x 25mm starter mounting bolts, and tighten to specification.

TIGHTENING TORQUE: 0.6 m-kg

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS	DEALER COST
156-11563-00-00	Shim	3 are needed	

WARRANTY

The warranty labor allowance for this procedure is 0.3 hours. The problem code is 90 EX. To receive credit, follow standard service-per-bulletin procedures.

To cover requests already in process for the procedures in Bulletin M82-019A, the computer cutoff date for the 90 EA problem code will be December 23, 1983. Requests bearing the 90 EA code will be refused after that date. ***The procedures outlined in this bulletin replace the M82-019A procedures; M82-019A is no longer valid.***

90 EX
(OR: Which problem code best describes the failure?)

0 HOUR(S) + 3 TENTHS

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CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
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OIL FILTER	B-2
OIL PUMP	B-1
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REAR SHOCKS	D-10
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SEAT	E-5
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STAND	F-12~F-2
STARTER CLUTCH	C-1
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TECHNICAL BULLETINS	Rear K.L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
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VALVE	A-12

TECHNICAL BULLETIN

DATE June 18, 1982

MOTORCYCLE	DATE 2/83	BULLETIN NO. M83-006

XV750/920
STARTER MOTOR DRIVE GEAR

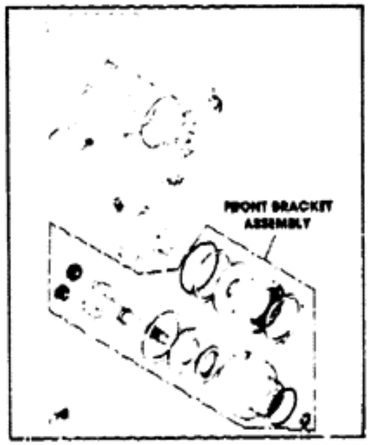
Yamaha Parts Distributors Inc. now stocks a front bracket assembly for the starter motors on the affected models. If your customers complain of starter motor slippage, install a front bracket assembly rather than replacing the entire starter.

AFFECTED MODELS

All XV750H, XV750J, XV920RH, XV920J, XV920RJ

PROCEDURE

1. Remove the starter from the motorcycle.
2. Remove the two bolts from the starter motor, and remove the front bracket assembly.
3. Reassemble the starter with the new front bracket assembly. Be sure to align the mark on the cap with the alignment mark on the starter housing.
4. Reinstall the starter onto the motorcycle.



PARTS INFORMATION

PART NUMBER	DESCRIPTION	DEALER COST
4X7-81830-60-00	Front Bracket Assembly	

V-TWIN MODELS
CAMSHAFT AND ROCKER ARM WEAR

The camshafts and rocker arms on some of the affected models may exhibit premature wear or scoring. Testing has revealed this to be caused by one or a combination of the following: a lack of oil in the top end during initial start-up, an improperly installed oil filter, or a clogged union bolt or oil line.

To eliminate this problem on the new models, the factory is adding more oil to the engine components on the production line. In addition, the factory is installing improved camshafts, rocker arms, and rocker arm shafts. These improved components have a Surfalloy 6A coating on their contact surfaces, providing greater wear resistance under marginal oiling conditions.

The improved components are now available for the affected models. Whenever replacing camshafts, rocker arms, or rocker arm shafts on an affected model, be sure to use improved components. The part numbers are listed in the "Parts Information" section.

AFFECTED MODELS

All XV750H's
All XV750J's
All XV920RH's
All XV920J's
All XV920RJ's

PROCEDURES

If a customer brings in an affected model which makes excessive top-end noise or requires frequent valve adjustment, inspect both cylinder heads for scored or worn cams and rocker arms. If scoring or wear is present, replace the worn camshafts, rocker arms, and rocker arm shafts ***as a set;*** be sure to use the improved components listed under "Parts Information."

REASSEMBLY

Upon reassembly of the top end, use a quality assembly lube or molybdenum disulfide grease on all contact surfaces to prevent scoring upon initial start-up. Prime the oil pump and lines to ensure quick oil delivery to the top end. Turn the engine over for several seconds with the spark plugs removed to circulate oil just before starting.

LOCATE AND SOLVE OILING PROBLEMS

Before returning a machine to the customer, make sure you have done all of the following:

1. Check the oil-line union bolts at the cylinder heads. Remove the bolts and inspect them carefully. Make sure they are properly drilled and there is no foreign material blocking them.
2. Check the cylinder-head oil lines for proper flow. Remove the oil lines and blow through them. Make sure there are no obstructions due to foreign materials or improper machining.
3. Remove the crankcase union bolts. Like the cylinder-head union bolts, these must be machined properly and free of obstructions.
4. Check the oil filter for proper installation. The filter collar must face away from the engine as shown in the photo.



NOTE: Warranty will cover engine damage due to improper oil filter installation ***only if the filter was improperly installed at the factory and the problem was discovered during or before the first filter change.***

5. After reassembling the engine and running it for a short time, briefly loosen the cylinder-head union bolts and verify oil delivery to the top end.

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-3
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	F-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-8
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear of Manual
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TECHNICAL BULLETIN

MOTORCYCLE	DATE 2/83	No. MB3-006

DATE April 22, 1983

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS	DEALER COST
4X7-12151-09-00	Rocker Arm	Improved. Fits all V-twin models	
4X7-12156-01-00	Rocker Arm Shaft		
4X7-12171-01-00	Camshaft 1	XV750H, XV750J, XV920RH, XV920RJ	
4X7-12181-01-00	Camshaft 2		
10L-12171-01-00	Camshaft 1	XV920J	
10L-12181-01-00	Camshaft 2		

WARRANTY

Warranty will cover the cost of replacing the worn components as well as performing the troubleshooting procedures, providing the owner has maintained the oil level in his magazine. The labor allowance and problem code to use depends upon whether one or both cylinder heads were repaired.

- Troubleshooting and one cylinder-head repair: 1.6 hours, 20EE1
- Troubleshooting and two cylinder-head repairs: 2.7 hours, 90EE2

To receive credit, follow standard service-bulletin procedures.

20EE1
(To be used when only one cylinder head is repaired)

1.6
HOURS

90EE2
(To be used when both cylinder heads are repaired)

2.7
HOURS

1980 ~ 1983 4-STROKE MODELS

PILOT SCREW COMPONENTS AND BLIND PLUGS

Part numbers for pilot screw components and blind plugs are listed here for the 1980 through 1983 model years. These parts may be ordered from Yamaha Parts Distributors Inc. Dealer cost is shown.

XV1 2TK, TDK; XJ900RK; XV500K; XC180K, KC

DESCRIPTION	PART NUMBER	DEALER COST
Pilot Screw Kit	12R-14105-00-00	
Pilot Screw	NA	
O-ring	NA	
Washer	NA	
Spring	NA	
Blind Plug	5H0-14518-00-00	

XJ1100J; XS1100G, LJ, SG, H, LH, SH; XS650G, SG, H, SH, SJ, SK; XT500G, H; XS400G, SG, H, SH, SJ; SR250G, H, J

DESCRIPTION	PART NUMBER	DEALER COST
Pilot Screw Kit	NA	
Pilot Screw	3L1-14923-00-00	
O-ring	3H1-14147-00-00	
Washer	3H1-14962-00-00	
Spring	3F7-14134-00-00	
Blind Plug	3F9-14518-00-00	

XV920RH, J, RJ, K, MK; XV750H, J, K, MK

DESCRIPTION	PART NUMBER	DEALER COST
Pilot Screw Kit	4X7-14211-01-00	
Pilot Screw	NA	
O-ring	NA	
Washer	NA	
Spring	NA	
Blind Plug	3J2-14518-00-00	

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CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~ 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURN SIGNAL	G-5
VALVE	A-12

TECHNICAL BULLETIN

TWIN- AND FOUR-CYLINDER MODELS

PREDELIVERY CARBURETOR/FUEL TANK INSPECTION & CLEANING

Effective 10-18-83: this Technical Bulletin replaces M83-007B. Please reproduce and destroy M83-007B. Changes include the elimination of all references to XV500K models.

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

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

SUMMARY OF CHANGES:

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

AFFECTED MODELS:

1981 Models:

All:	XJ550H	XJ550RH	XJ650H	XJ650LH
	XJ750RH	XS1100H	XS1100LH	XS1100SH

1982 Models:

All:	XS400J	XS400RJ	XJ400S	XJ550J
	XJ550RJ	XJ550RJ	XJ650J	XJ650LJ
	XJ650RJ	XS650SJ	XJ750J	XJ750RJ
	XV750J	XV920J	XV920RJ	XJ1100J

1983 Models:

XS400K	12R-100101 – 105321
XS400RK	16M-060101 – 061670
XJ550K	5K5-100101 – 102137
XJ550RK	4J8-100101 – 101156
XZ550RK	All
XJ650X	5N8-050101 – 051302
XJ650LK	16G-100101 – 101106
XS650SK	5V4-100101 – 107648
XJ750K	22R-000101 – 005285
XJ750MK	33N-100101 – 103100
XJ750RK	5G2-150101 – 152209
XV750K	4X7-300101 – 304246
XV750MK	20X-000101 – 003605
XV920K	24M-000101 – 004701
XV920MK	27V-000101 – 003195

SPECIAL TOOLS:

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

Exhaust Gas Analyzer
YICS Shutoff Tool (YM-08025)
Yamaha Carburetor Cleaner
(ACC-11001-43-00)
Fuel Level Gauge (YM-01312)
Fuel Level Gauge Adapter (YM-01329)
Slide Hammer Adapter (YM-33247-17)

PROCEDURES:

Fuel Tank Inspection and Cleaning

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

1. Open the fuel tank cap and inspect the inside of the tank for rust. If no rust is apparent, resume normal predelivery. If rust is present, continue with this procedure.
2. Remove the fuel tank and drain the fuel.
3. Remove the petcock(s).
4. Rinse the tank with parts cleaning solvent to remove loose rust.

NOTE: To remove heavier rust deposits, place a handful of 8mm nuts in the tank with the cleaning solvent, gently shake the tank back and forth until the nuts dislodge the rust deposits. Remove the nuts and rinse.

5. Clean the petcock filter(s).
6. Reinstall the petcock(s), and reinstall the fuel tank.
7. Drain the stale fuel from the carburetor float bowls.
8. Install fresh fuel in the tank, start the engine, and check the machine on the EGA.
9. Test ride the machine to check for proper operation at various throttle openings and all idle.
10. If carburetion problems are diagnosed, follow the procedures in the next section.

Carburetor Disassembly and Cleaning

1. Remove the carburetors. Pay attention to the routing of cables and hoses. A simple sketch will assist you in reinstalling the carbs.
2. Using a 4.8-inch drill bit, drill the brass mixture-screw blind plugs and remove them with the slide hammer and adapter. Take care not to damage the mixture screws while drilling the plugs.
3. For reference, upon reassembly, gently turn the mixture screws in until lightly seated and record the number of turns. Then remove the screws along with their springs, washers, and O-rings.
4. Number each float bowl and carb body for proper matching upon reassembly, and remove the float bowls.
5. Remove the main jet and pilot jet from each carburetor.

CAUTION:

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

CAUTION:

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

6. Remove the float pin, and remove the float and needle as an assembly from each carb.
7. Remove the valve seat from each carburetor, taking care not to damage the attached screen.
8. Remove the carb tops, springs, and slide diaphragm assemblies. Make sure the diaphragms have no cracks or holes.
9. Remove the main nozzles.
10. Remove the enrichener assemblies.



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

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AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
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CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVESHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL.	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear K-L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

13 Immerse the float bowls, jets, nozzles, needle valve assemblies, and mixture screws in the cleaner. Place each slide in its carb body to allow the jet needles to soak. In addition, squirt some cleaner into the mixture screw bores to help dissolve residue in the passages. Again, make sure the mixture doesn't reach the butterfly shafts.

14 Allow the carburetor parts to soak for one hour.

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

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

16 Run the wire through the main jets and main nozzles (and the pilot jets on XV920K and XV920MK models).

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

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

19 Reassemble the carburetors using new pilot jets. Make sure all correct components go into each carburetor. Refer to the chart at the end of this Bulletin. Check all jet, nozzle, and needle sizes with the appropriate service data sheet. Tag and retain the pilot jets for 90 days.

NOTE: The pilot jets in XV920K and XV920MK models are not removable; they must be thoroughly cleaned on the carburetor with a wire, and cleaning must be verified with contact cleaner and compressed air.

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

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

22 Synchronize the carburetors, set the idle speed, and set the mixture screws with the Exhaust Gas Analyzer. A chart containing the HC and CO specifications has been provided at the end of this Bulletin.

23 Install new blind plugs.

24 Test ride the machine and check for proper operation.

TECHNICAL BULLETIN

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS
ACC-11001-43-00	Yamaha Carburetor Cleaner	1 quart
256-14142-42-A0	Pilot Jet #42.5	All XS650; XS400H, SH, SJ
4G0-14142-35-00	Pilot Jet #35	XJ650LJ, LK
4G0-14142-35-A0	Pilot Jet #35	All XJ650
4G0-14142-42-00	Pilot Jet #42.5	All XS1100; XS400J, RJ, K, RK
4G0-14142-47-00	Pilot Jet #47.5	XJ1100J
4G0-14142-60-A0	Pilot Jet #60	All XZ550
4H7-14948-40-00	Pilot Jet #40	XJ650H, LH, J, RJ, K; All XJ750
4X7-14948-41-00	Pilot Jet #41	XV920RH, RJ, J; All XV750
287-14991-90-00	Blind Plug	All XZ550
3P9-14118-00-00	Blind Plug	All XS400, XJ650, XS650, XS1100, XJ1100; XJ650LJ, LK
3J2-14118-00-00	Blind Plug	All XV750, XV920
4L6-14118-10-00	Blind Plug	All XJ750, XJ650H, LH, J, RJ, K

WARRANTY

Fuel Tank and Petcock Cleaning

The Problem Code for cleaning the fuel tank and petcock filters is 49; the job code is 3000. The warranty labor allowances for this procedure are 0.3 hours for twin- and four-cylinder models, and 0.5 for Turbo Secas. To receive credit, follow standard warranty request procedures. **Do not replace a fuel tank without prior Warranty Department authorization.**

Carburetor Disassembly and Cleaning

The Problem Code for carburetor disassembly and cleaning is also 49; the job code is 3050. The warranty labor allowances for this procedure are 1.8 hours for in-line twin-cylinder models, 2.0 hours for V-twins, 3.5 hours for four-cylinder models, and 4.3 hours for Turbo Secas. To receive credit, follow standard warranty request procedures.

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

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AIR CLEANER	B-3,4
CABLE	F-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-6,7
DRIVESHAFT	D-7 - 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 - F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 - F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
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TECHNICAL BULLETINS	Rear-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TECHNICAL BULLETIN

MOTORCYCLE — DATE 11-1983 — No. M83-007C

HC AND CO SPECIFICATIONS

MODEL	MAX. CO (%)	MAX. HC (PPM)	SET CO (%)	IDLE RPM ± 50
XS400J, RJ, K, RK	5.0	500	3.0	1200
XS400H, SH, SJ	5.0	500	2.0	1200
XJ650 (all)*	7.0	500	4.0	1200
XJ650 (all)	6.0	500	2.0	1300
XJ650H, LH, J, LJ*	5.0	500	3.0	1050
XJ650RJ	5.0	500	3.0	1050
XJ650R, LK*	5.0	800	3.0	1050
XJ650 (all)	5.0	500	2.0	1200
XJ750RH, J, RJ*	6.0	500	3.0	1050
XJ750R, MK, RK*	6.0	800	3.0	1050
XV750H, J, K, MK	7.0	500	3.0	1000
XV920RH, J, RJ, K	6.0	500	2.0	1000
XS1100 (all)	3.0	500	2.0	1100
XJ1100J*	6.0	500	3.0	1100

*On these models, the YICS Shutoff Tool (YM-08025) must be used to achieve the correct readings.

MODELS WITH DIFFERING CARBURETOR COMPONENTS

Pay special attention to the following carburetors during reassembly; they have main jets and/or jet needles which vary in size from one cylinder to another.

Main Jets

XV920RH, R, J	Front	124	Rear	126
XV920J, K, MK	Front	128	Rear	126
XJ650L, LK	Cyls. 1 & 4	127.5	Cyls. 2 & 3	132.5
XJ550RJ	Front	122.5	Rear	127.5
XS400J, K	Right	115	Left	115
XS400RJ, RK	Right	117.5	Left	127.5

Jet Needles

XV920K	Front Y-30	Rear Y-31
XV920J	Front Y-24	Rear Y-25
XV750J, K, MK	Front Y-22	Rear Y-23

1983 MODELS

XS400K	42R-100101	*053014
XS400RK	16M-060101	- 061670
XV500K	All	
XJ650K	5K5-100101	- 104737
XJ650RK	4U8-100101	*041456
XJ650RK	All	
XJ650K	5N3-050101	- 051302
XJ650LK	16G-100101	- 101106
XS650SK	5V4-100101	- 107618
XJ750K	22R-000101	- 005285
XJ750MK	33N-100101	- 103100
XJ750RK	5G2-150101	- 152209
XV750K	4X7-100101	- 304246
XV750MK	20X-000101	- 003605
XV920K	24M-000101	- 004701
XJ920MK	27Y-000101	- 003105

MOTORCYCLE — DATE 3-23-84 — No. M84-016

TWIN- AND FOUR-CYLINDER MODELS

FUEL TANK RUST REMOVAL

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

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

AFFECTED UNITS

1981 MODELS

All	XJ650H	XJ650H	XS1100H
	XJ650RH	XJ650LH	XS1100LH
		XJ750RH	XS1100SH

1982 MODELS

All	XS400J	XJ550J	XJ650J
	XS400RJ	XJ550RJ	XJ650LJ
	XS400SJ	XZ550RJ	XJ650RJ
			XS650SJ
	XJ750J	XV920J	XJ1100J
	XJ750RJ	XV920RJ	
	XV750J		

1983 MODELS

XS400K	42R-100101	*053014
XS400RK	16M-060101	- 061670
XV500K	All	
XJ650K	5K5-100101	- 104737
XJ650RK	4U8-100101	*041456
XJ650RK	All	
XJ650K	5N3-050101	- 051302
XJ650LK	16G-100101	- 101106
XS650SK	5V4-100101	- 107618
XJ750K	22R-000101	- 005285
XJ750MK	33N-100101	- 103100
XJ750RK	5G2-150101	- 152209
XV750K	4X7-100101	- 304246
XV750MK	20X-000101	- 003605
XV920K	24M-000101	- 004701
XJ920MK	27Y-000101	- 003105

SPECIAL MATERIALS REQUIRED

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

PROCEDURE

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

WARNING

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

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

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

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7,
CYLINDER	A-5,6
DRIVE SHAFT	D-7~9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12~F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12~F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear-1,2
TOOL	D-4,5
TOP END GASKET KIT	A-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

...ank. Gasoline in a properly treated tank will ...minate this possibility.

NOTE: Some fuel tanks have a small amount of ...w residue accumulated in the very bottom of the tank. This is a black, solid substance caused by evaporated fuel and is not removed by this cleaning procedure. There is no rust under this substance and it is not dissolved by gasoline so it will cause no problems.

PARTS INFORMATION

PART NUMBER	DESCRIPTION	REMARKS	DEALER COST
...90E-44-00	Yamaha Fuel Tank Conditioner Kit	Kits must be ordered in multiples of six; each kit consists of one 16-oz bottle of Yamaha Fuel Tank Rust Remover and one 16-oz. bottle of Yamaha Rust Remover Neutralizer	

WARRANTY

...warranty labor allowance for this procedure ...hours. Enter the time under "Extra Labor". The ...problem code is 49. To receive credit file ... warranty request. This request may be combined with one for the carburetor disassembly and cleaning procedure described in Technical Bulletin ME3-007.

19 ... problem code no.

0.7 ... time

ALL MODELS
TRANSMISSION SHIMMING PROCEDURES

Proper transmission shimming during reassembly is essential for proper operation and long transmission life, particularly on the large-displacement performance models. This bulletin provides information for proper transmission shimming. (This information was originally provided as part of the Powerplants 2 service school.) A listing of available shims is also included for easy reference.

AFFECTED MODELS

All Models

TRANSMISSION SHIMMING

Transmission shimming is a commonly used term which refers to the spacing of the transmission gears and shafts to allow smooth, precise shifting and proper gear engagement. In the past, transmission shimming was a common practice which was performed during any major engine repair. Today's improved machining techniques have greatly reduced the need for this. (However, you should be familiar with the steps which must be performed to do this operation correctly if transmission parts must be replaced. Transmission shimming should be checked. This is assuming, of course, that all external shifting components have been inspected first. Refer to the appropriate service manual for this information.

The drive axle and individual gears must have minimum side-to-side play to insure proper engagement. In many cases, shims are installed at the factory. These can be identified by the codes UR or UN (use as required or use as necessary). A list at the end of this bulletin gives the available shim sizes and their part numbers.

MEASURING INDIVIDUAL GEAR SIDE PLAY

A spinning gear is usually held in place either by 1) a circlip and shim on both sides, or 2) a circlip and shim on one side with a shouldered section of the axle on the other side. Any spinning gear should have between 0.08mm (0.003") to 0.13mm (0.005") side play for maximum efficiency. If there is no side play, the gear will bind up. If there is too much side play, the gear will move over when the sliding gear tries to engage it.

...can cause the engaging dogs to become ...nded. If a shim is needed, measure the axle diameter, select the proper shim from the following list (arranged by shim sizes), and install so the spinning gear is moved toward the sliding gear that engages it (to maintain complete engagement).



WARNING

It is very important that all clearances be within specification and that all gears engage properly. Serious damage and/or injury could be done as a result of improper transmission adjustment.

MAIN AXLE SPACING

Since tightening the clutch retaining nut pulls the main axle completely to one side, adjustment of this axle is normally not necessary. (Axle cannot move from side to side.) That is, however, as long as factory installed shims are kept on place on the right end of the axle. Refer to the parts microfiche to verify size and location.

MEASURING DRIVE AXLE SIDE PLAY

On horizontally split engines, measuring drive axle side play is a relatively easy operation since both transmission shafts can be placed in the lower engine case and the transmission operated. On vertically split engines, however, a slightly more complicated procedure is required.

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~ 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	F-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Rear K, L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

TECHNICAL BULLETIN

CONTENTS

AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 ~ 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 ~ F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	E-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-9
SIDE COVER	D-4,5
STAND	E-12 ~ F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row-K,L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	G-5
VALVE	A-12

- Measure the distance between axle bearings in the case. Measure the depth of each case, from the top of the case down to the transmission bearing inner race. Adding the depth of both case halves (subtracting thickness of flat edge laid across case to assist in measurement) will give total distance between bearings.

- Measure transmission shaft length. Measure transmission axle length from axle bearing contact surface to the other bearing contact surface across gears and circlips, if any on the outer ends; include star lord thim, that are usually included in the engine and listed in the parts book.

- Compare measurements to determine side play (subtract transmission axle length from crankcase depth. The remainder will be the amount of the side play.

EXAMPLE

Crankcase depth	= 155.2mm (6.111")
Axle length	= 150.0mm (6.100")
Determine side play	= 20mm (.041")

RESULTS

.8mm (.041")	is excessive
.3mm (.003")	recommended side play
.2mm (.008")	must be taken up

As a general rule, half the excessive side play should be taken up at each end of the axle. Install proper shims from the parts list combinations as necessary if the model in question is not listed, then measure the diameter of the axle and match it with a shim of similar inner diameter and appropriate thickness.

FINAL TRANSMISSION SPACING CHECK

Whenever possible, install assembled gears and shafts assembly into a case and rotate through all gears. Check that you have 50-75% engagement of the dogs into the slots or into the corresponding dogs.



The amount of engagement can be adjusted, either by shimming the individual gear more toward the sliding gear or shimming the drive axle. As the axle moves over it carries the circlip-held spinning gear (or gears) toward the sliding gear(s).

TROUBLESHOOTING TRANSMISSION PROBLEMS

Less than 50% engagement of the gear dogs and slots can eventually cause the gears to separate under load, which will in turn bend the shift fork that moves the sliding gear. This will lead to frequent gear disengagement. The normal correction procedure is to replace the shift fork, sliding gear and corresponding spinning gear. Check the guide bar for bends (straighten or replace) and shift drum fork groove for scoring or chips (replace if any noticeable damage). Be sure to replace all circlips with new ones, and install them with the rounded edge towards the gear. Next, carefully space the transmission. If all damaged parts are not replaced and tramission spacing corrected, the problem will occur again.

IMPORTANT NOTICE: Disengagement can also occur as the axle moves because of insufficient support at one end. If a transmission bearing circlip is left off, if the left-hand drive axle bearing comes loose in the case, or if a bearing retaining plate becomes bent, then additional parts must be checked and possibly replaced.

MOTORCYCLE YEAR

PARTS INFORMATION

ID (mm)	OD (mm)	THICKNESS (mm)	PART NUMBER
14.8	28.0	1.6	90201-14220-00
16.1	28.0	1.0	90201-161A7-00
16.2	20.0	0.8	164-17417-00-08
16.2	20.0	1.0	164-17417-00-10
16.2	24.0	1.0	90201-16700-00
15.2	30.0	0.4	164-17427-00-04
15.2	30.0	0.6	164-17427-00-06
15.2	30.0	0.8	164-17427-00-08
15.2	30.0	1.0	164-17427-00-10
15.2	30.0	1.2	164-17427-00-12
16.8	22.8	1.8	90201-16701-00
17.0	28.0	0.3	214-17428-00-03
17.0	28.0	0.5	214-17428-00-05
17.0	28.0	0.7	214-17428-00-07
17.0	28.0	0.9	214-17428-00-09
17.0	26.0	0.6	156-17427-00-06
17.0	26.0	0.7	156-17427-00-07
17.0	26.0	0.8	156-17427-00-08
17.5	26.0	1.0	90201-17255-00
17.5	28.0	0.6	90201-17327-00
20.0	31.0	0.1	328-17427-00-01
20.0	31.0	0.5	328-17427-00-05
20.0	31.0	0.6	328-17427-00-06
20.0	31.0	0.7	328-17427-00-07
20.0	31.0	0.8	328-17427-00-08
20.0	25.0	1.0	90201-20266-00
20.2	30.0	1.5	90201-20278-00
20.2	30.1	1.0	90201-20276-00
20.2	33.0	0.6	137-17427-00-06
20.2	33.0	0.9	137-17427-00-09
21.2	27.0	1.0	90201-22793-00
22.6	34.5	1.0	90201-22793-00
23.2	32.0	1.5	90201-232G7-00
24.2	33.0	1.6	137-17427-01-00
24.5	33.0	1.0	90201-241A2-00
25.0	32.0	1.0	90201-25490-00
25.0	34.0	0.3	168-17428-01-03
25.0	34.0	0.5	168-17428-01-05
25.1	31.0	0.1	156-17417-00-01
25.1	31.0	0.2	156-17417-00-02
25.1	31.0	0.3	156-17417-00-03
25.[illegible]	30.0	1.0	90201-253K0-00
25.2	34.0	0.2	170-16154-02-00
27.2	36.0	1.0	90201-25290-00
28.2	35.0	1.2	90201-25740-00
25.4	37.0	0.9	170-16154-02-00
26.2	34.0	1.0	256-17236-00-10
26.2	34.0	1.2	256-17236-00-12
27.2	34.0	1.0	90201-27349-00
28.2	34.0	1.0	90201-28665-00
30.0	44.0	0.3	156-1564-00-03

TECHNICAL BULLETIN

PARTS INFORMATION

ID (mm)	OD (mm)	THICKNESS (mm)	PART NUMBER
30.0	44.0	0.4	156-11364-00-04
30.0	44.0	0.6	156-11364-00-06
30.0	44.0	0.8	156-11364-00-08
30.0	44.0	0.7	156-11364-00-07
30.2	46.0	1.0	90201-30298-00
30.2	46.0	2.0	90201-30601-00
30.2	43.0	2.0	90201-30644-00
30.4	36.8	1.0	90201-30791-00
35.2	46.0	2.0	90201-30648-00

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AIR CLEANER	B-3,4
CABLE	E-10
CAMSHAFT	A-10,11
CARBURETOR	B-5,6
CHAIN	A-10,11
CLUTCH	C-2,3
CRANKCASE	B-8
CRANKCASE COVER	B-9,10
CRANKSHAFT	A-8,9
CYLINDER HEAD	A-7
CYLINDER	A-5,6
DRIVESHAFT	D-7 - 9
ELECTRICAL 1	G-6,7
ELECTRICAL 2	G-8
EXHAUST	B-7
FENDER	D-3
FOOTREST	E-12 - F-2
FRAME	D-1,2
FRONT BRAKE CALIPER	E-7
FRONT FORK	D-11,12
FRONT MASTER CYL	E-11
FRONT WHEEL	E-6
FUEL TANK	E-3,4
GENERATOR	B-11
HANDLEBAR	E-10
HANDLE SWITCH	G-9
HEADLIGHT	G-3
LEVER	G-9
METER	G-1,2
MIDDLE DRIVE GEAR	C-6,7
OIL FILTER	B-2
OIL PUMP	B-1
PISTON	A-8,9
REAR SHOCKS	D-10
REAR WHEEL	E-8,9
SEAT	F-5
SERVICE DATA	J-1
SHIFT CAM	C-8
SHIFT FORK	C-8
SHIFT SHAFT	C-8
SIDE COVER	D-4,5
STAND	E-12 F-2
STARTER CLUTCH	C-1
STARTING MOTOR	B-12
STEERING	E-1,2
SWING ARM	D-6
TAILLIGHT	G-4
TECHNICAL BULLETINS	Row K-L
TOOL	D-4,5
TOP END GASKET KIT	H-1
TRANSMISSION	C-4,5
TURNSIGNAL	J-5
VALVE	A-12