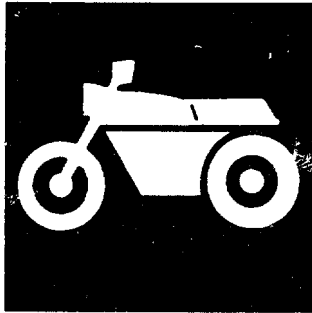




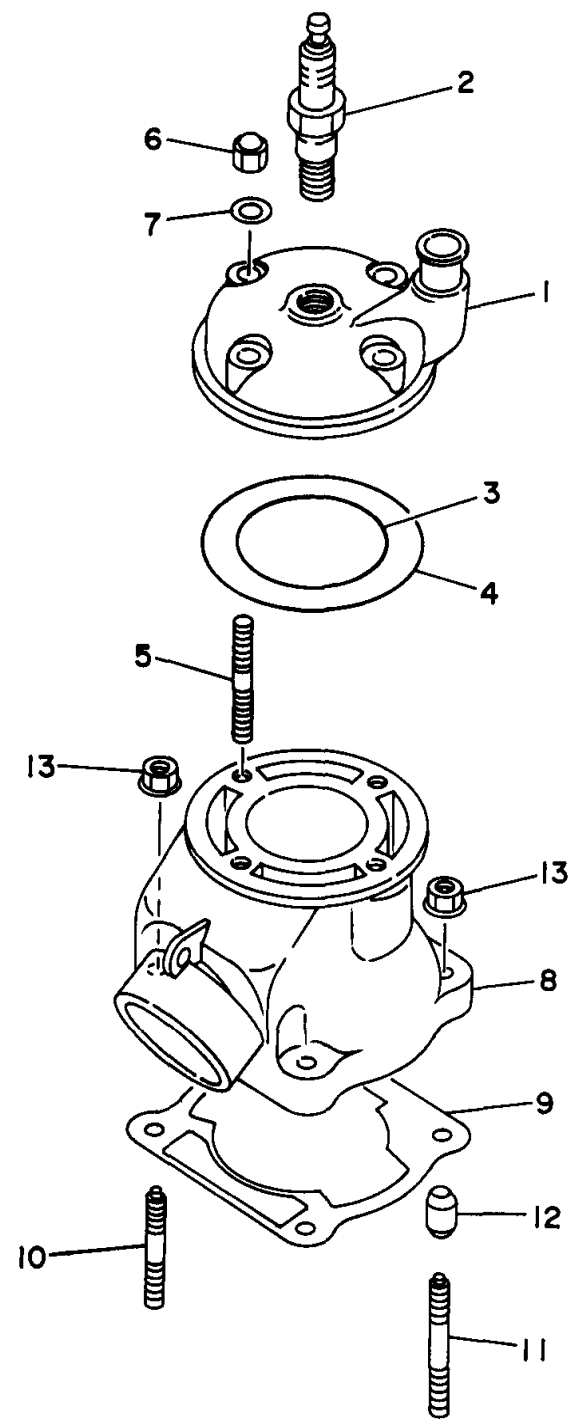
PARTS CATALOGUE

MODEL YEAR 1997

YZ80J1 (4ES6)

PUBLICATION	PART NUMBER	REMARKS
OWNER'S MANUAL	LIT-11626-10-42	
ASSEMBLY MANUAL	LIT-11666-08-88	
SERVICE MANUAL	LIT-11616-10-42	

CYLINDER



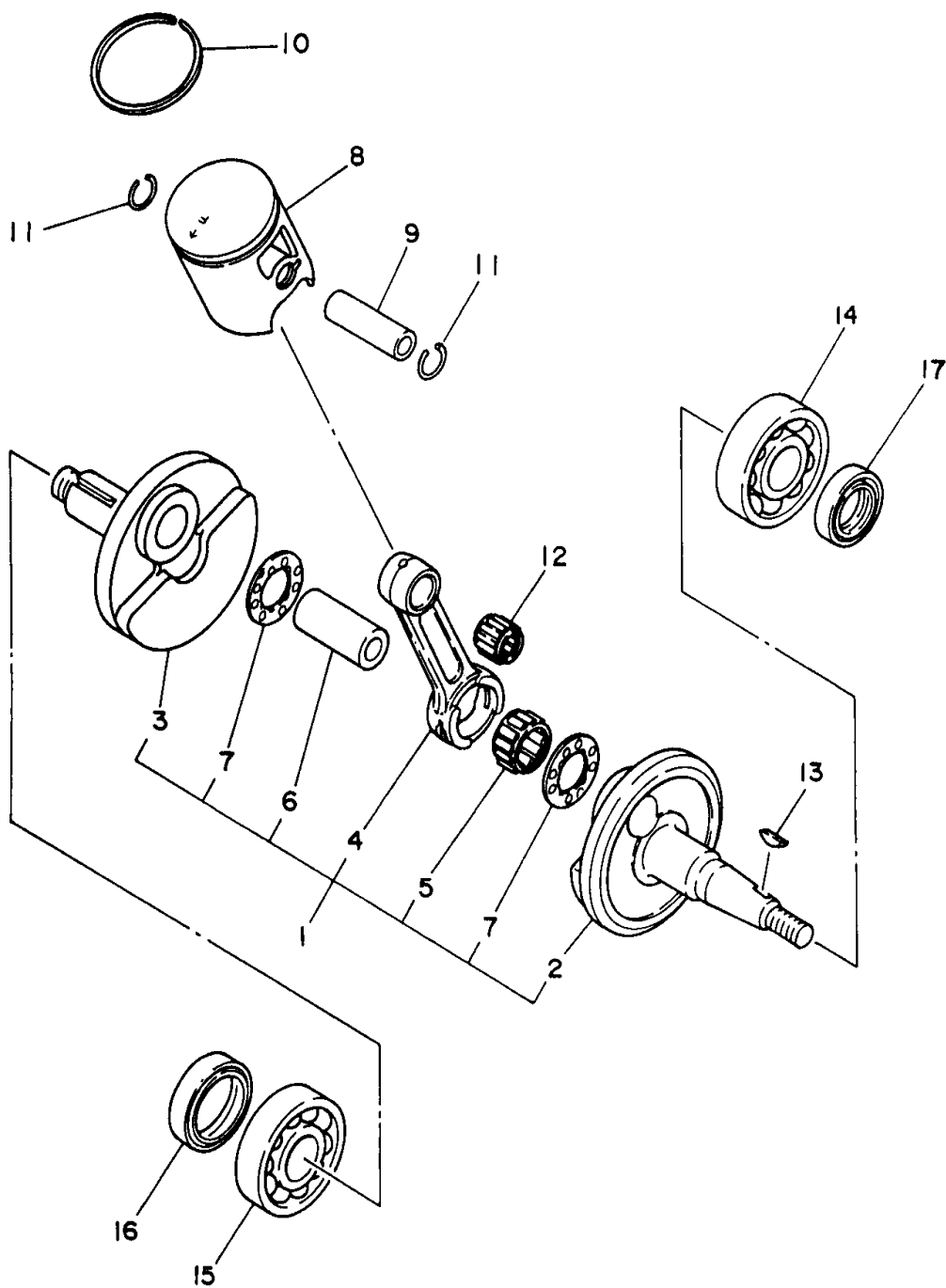
Ref. No.	Part Number	Description	Qty	Remarks
1	4LC-11111-00-00	HEAD, CYLINDER 1	1	
2	NGK-B10EG-00-00	PLUG, SPARK (NGK B10EG) ..	1	UR
3	93210-56459-00	O-RING	1	
4	93210-84724-00	O-RING	1	
5	90116-08394-00	BOLT, STUD	4	
6	90176-08026-00	NUT, CROWN	4	
7	90201-08087-00	WASHER, PLATE	4	
8	4ES-11311-10-00	CYLINDER 1	1	
9	4ES-11351-00-00	GASKET, CYLINDER	1	
10	90116-08318-00	BOLT, STUD	2	
11	90116-08388-00	BOLT, STUD	2	
12	99510-10114-00	PIN, DOWEL	2	
13	90179-08491-00	NUT, FLANGE	4	



4ES1100-3010

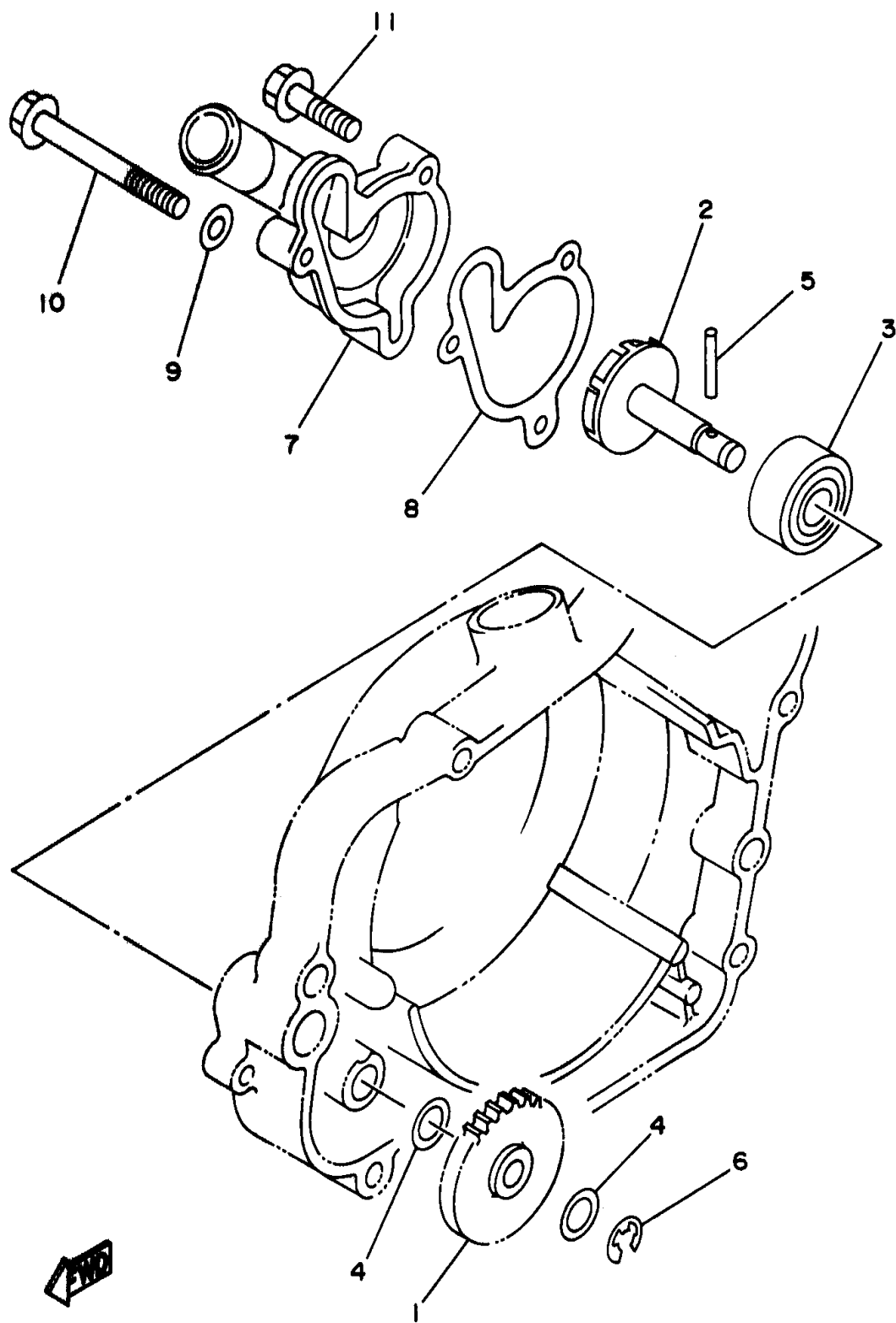
CRANKSHAFT - PISTON

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-11400-02-00	CRANKSHAFT ASSEMBLY ...	1	
2	4ES-11412-00-00	. CRANK 1	1	
3	4ES-11422-00-00	. CRANK 2	1	
4	4ES-11651-01-00	. ROD, CONNECTING	1	
5	93310-320T3-00	. BEARING	1	
6	2RA-11681-00-00	. PIN, CRANK 1	1	
7	90209-20159-00	. WASHER	2	
8	4ES-11631-01-A0	PISTON (STD)	1	UR RED
	4ES-11631-01-B0	PISTON (STD)	1	UR ORANGE
	4ES-11631-01-C0	PISTON (STD)	1	UR GREEN
	4ES-11631-01-D0	PISTON (STD)	1	UR PURPLE
9	4ES-11633-00-00	PIN, PISTON	1	
10	43K-11611-00-00	RING, PISTON	1	
11	93450-16115-00	CIRCLIP	2	
12	93310-21403-00	BEARING	1	KOYO
13	90280-03017-00	KEY, WOODRUFF	1	
14	93306-20468-00	BEARING	1	
15	93306-30439-00	BEARING (93306-30421-00) ..	1	
16	93103-28011-00	OIL SEAL	1	
17	93102-20447-00	OIL SEAL	1	



4ES1100-3020

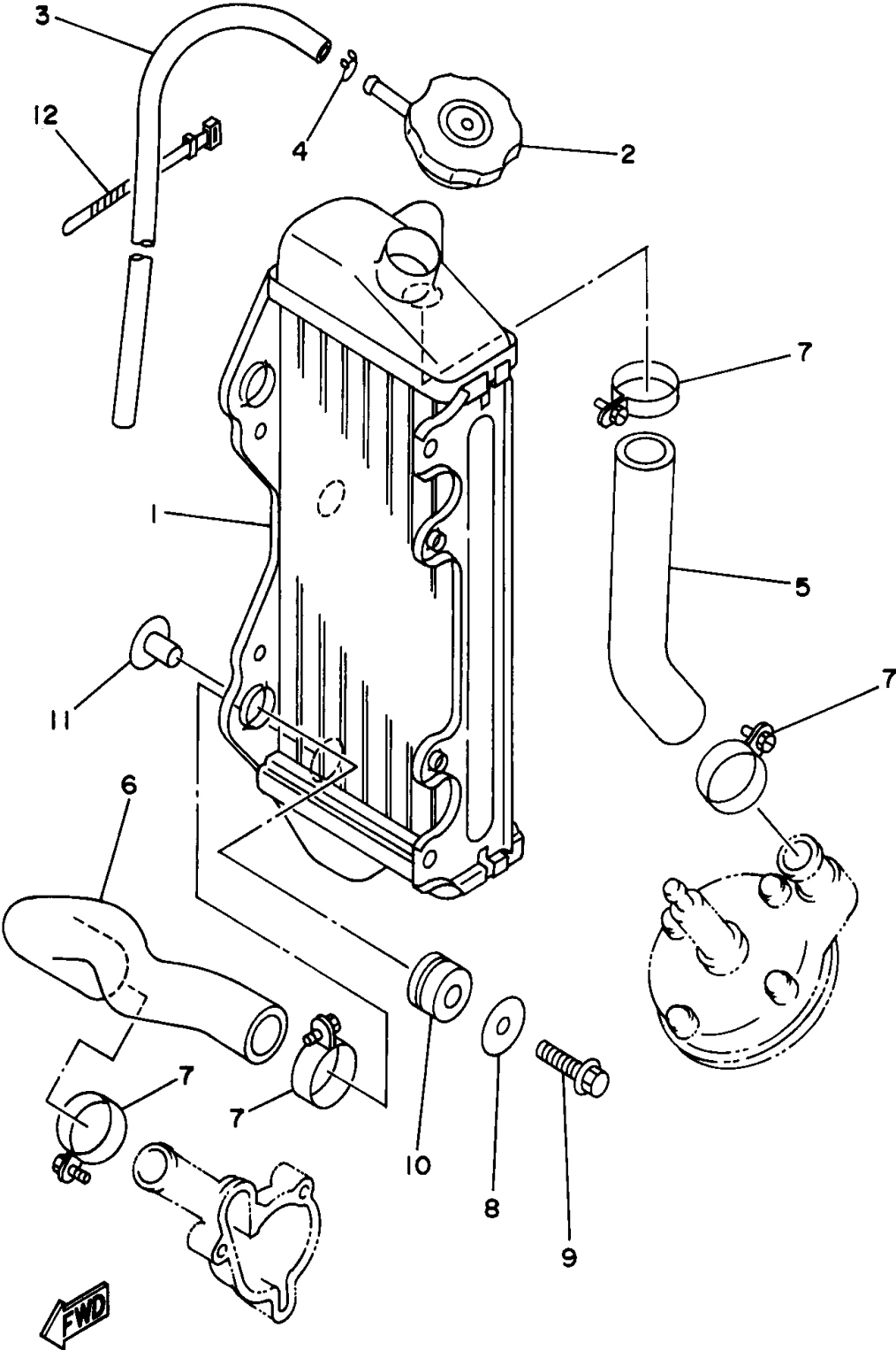
WATER PUMP



Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-12459-00-00	GEAR, IMPELLER SHAFT	1	
2	36F-12450-00-00	IMPELLER SHAFT ASSEMBLY	1	
3	93103-10168-00	OIL SEAL	1	
4	90201-08512-00	WASHER, PLATE	2	
5	93603-22028-00	PIN, DOWEL	1	
6	99080-07600-00	CIRCLIP (E)	1	
7	4BA-12422-00-00	COVER, HOUSING	1	
8	4BA-12428-00-00	GASKET, HOUSING COVER 2 .	1	
9	90430-06166-00	GASKET	1	
10	95827-06060-00	BOLT, FLANGE	1	
11	95027-06025-00	BOLT, FLANGE	2	

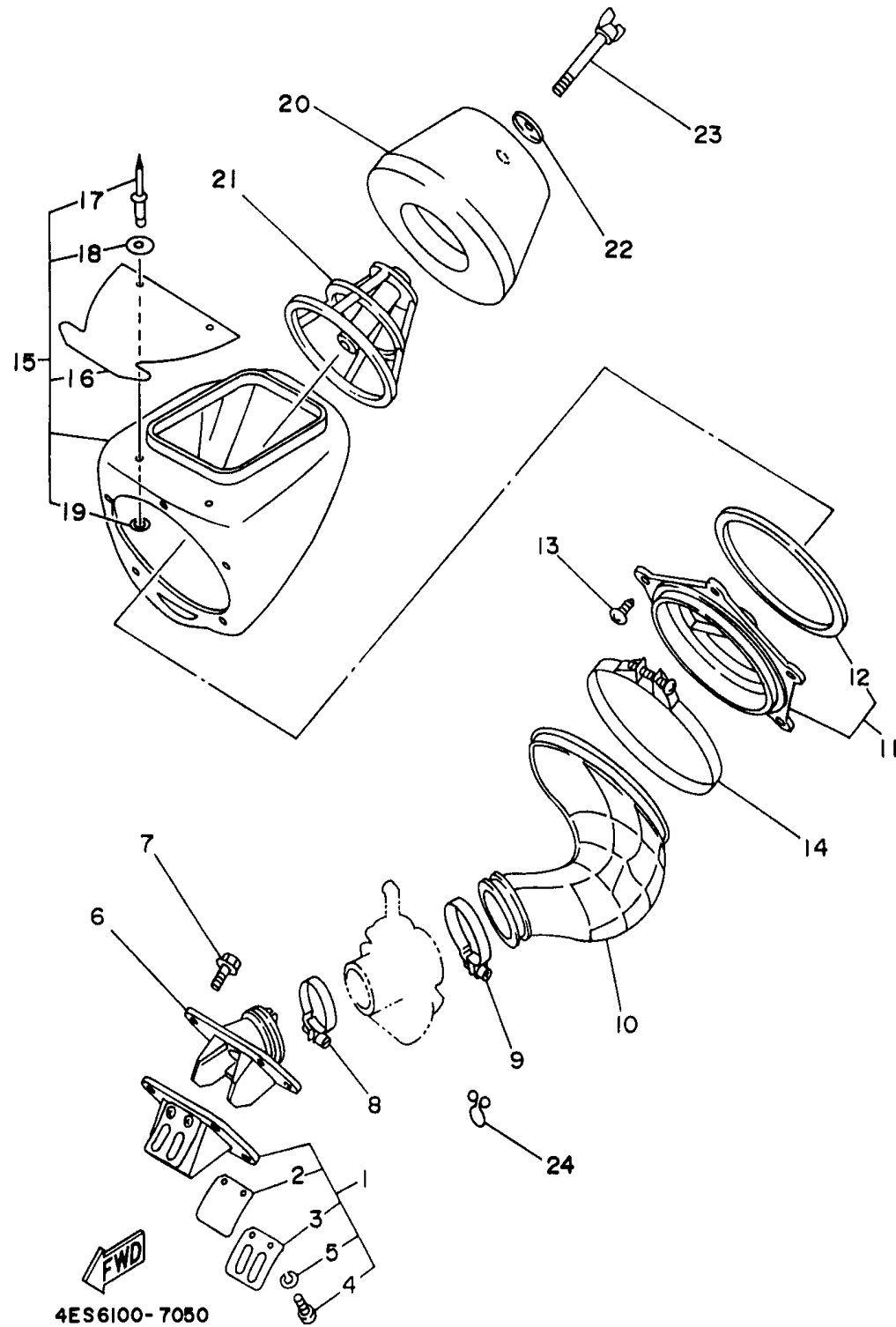

4ES1100-3030

RADIATOR - HOSE



Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-12461-00-00	RADIATOR ASSEMBLY	1	
2	4FL-12462-00-00	CAP, RADIATOR (22W-12462-00-00)	1	
3	22W-12463-00-00	PIPE, BREATHER	1	
4	90467-08004-00	CLIP	1	
5	4ES-12481-00-00	PIPE 1	1	
6	4ES-12482-00-00	PIPE 2	1	
7	90450-28014-00	HOSE CLAMP ASSEMBLY ...	4	
8	90201-063J2-00	WASHER, PLATE	3	
9	95027-06030-00	BOLT, FLANGE	3	
10	90480-15528-00	GROMMET	3	
11	90387-0700G-00	COLLAR	3	
12	437-83936-01-00	BAND, SWITCH CORD	1	

4ES1100-3040



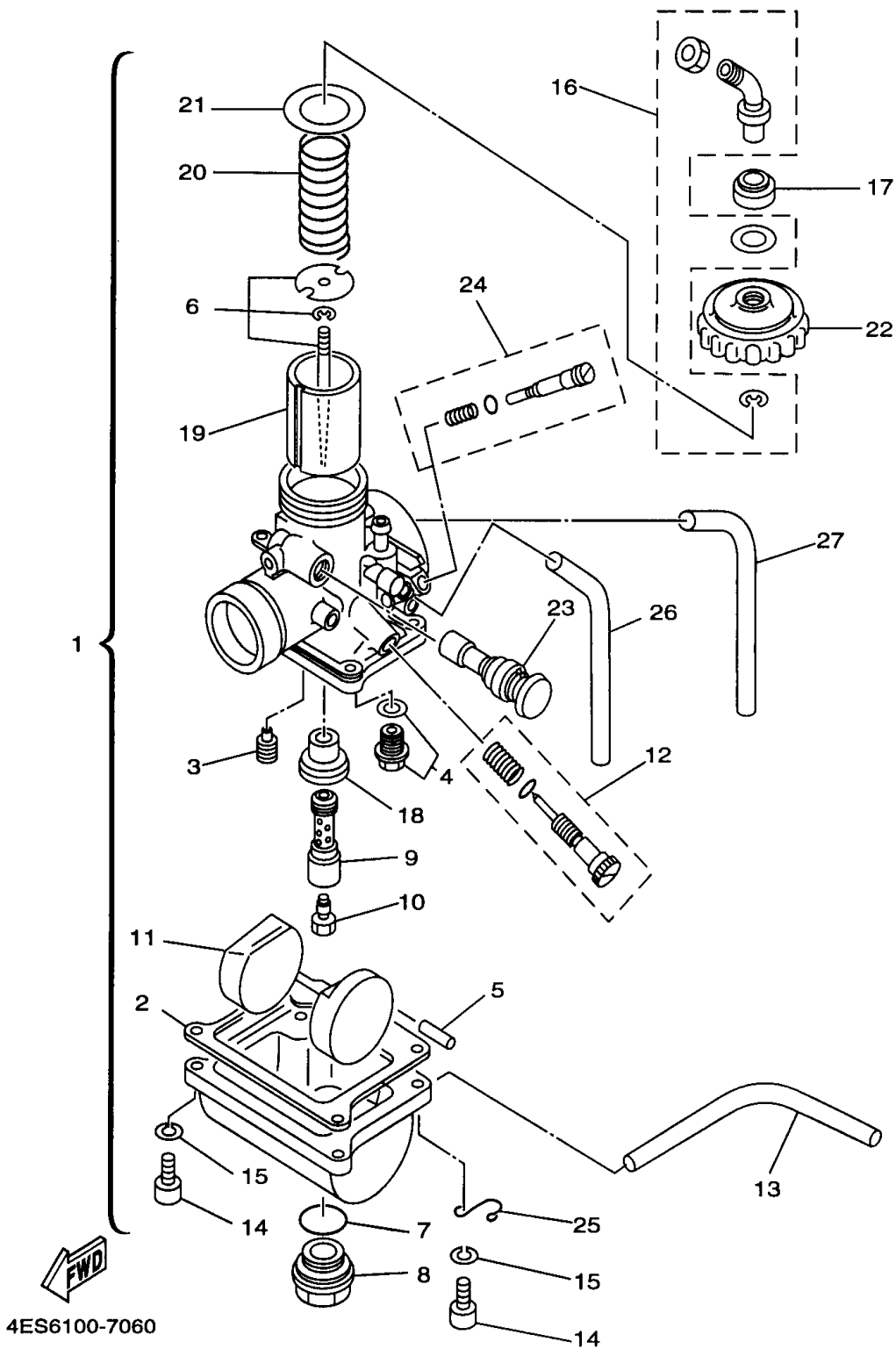
INTAKE

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-13610-00-00	REED VALVE ASSEMBLY	1	
2	4ES-13613-00-00	. REED, VALVE	2	
3	4ES-13616-00-00	. STOPPER, REED VALVE	2	
4	98507-03008-00	. SCREW, PAN HEAD	4	
5	92990-03100-00	. WASHER, SPRING (92901-03100)	4	
6	4ES-13565-00-00	JOINT, CARBURETOR	1	
7	95027-06020-00	BOLT, FLANGE	4	
8	90450-45075-00	HOSE CLAMP ASSEMBLY . . .	1	
9	90460-51059-00	CLAMP, HOSE	1	
10	4ES-14453-00-00	JOINT, AIR CLEANER 1	1	
11	4ES-14459-00-00	HOLDER, GUIDE	1	
12	4ES-14462-00-00	. SEAL	1	
13	97707-50014-00	SCREW, TAPPING	5	
14	90450-99064-00	HOSE CLAMP ASSEMBLY . . .	1	
15	4ES-14411-01-00	CASE, AIR CLEANER 1	1	
16	4ES-14417-00-00	. COVER 1	1	
17	90267-40077-00	. RIVET, BLIND	2	
18	90201-047A2-00	. WASHER, PLATE	2	
19	92907-04600-00	. WASHER	2	
20	4ES-14451-00-00	ELEMENT, AIR CLEANER	1	
21	4ES-14458-00-00	GUIDE	1	
22	90209-06096-00	WASHER	1	
23	90122-06038-00	BOLT, WING	1	
24	90464-16039-00	CLAMP	1	

CARBURETOR

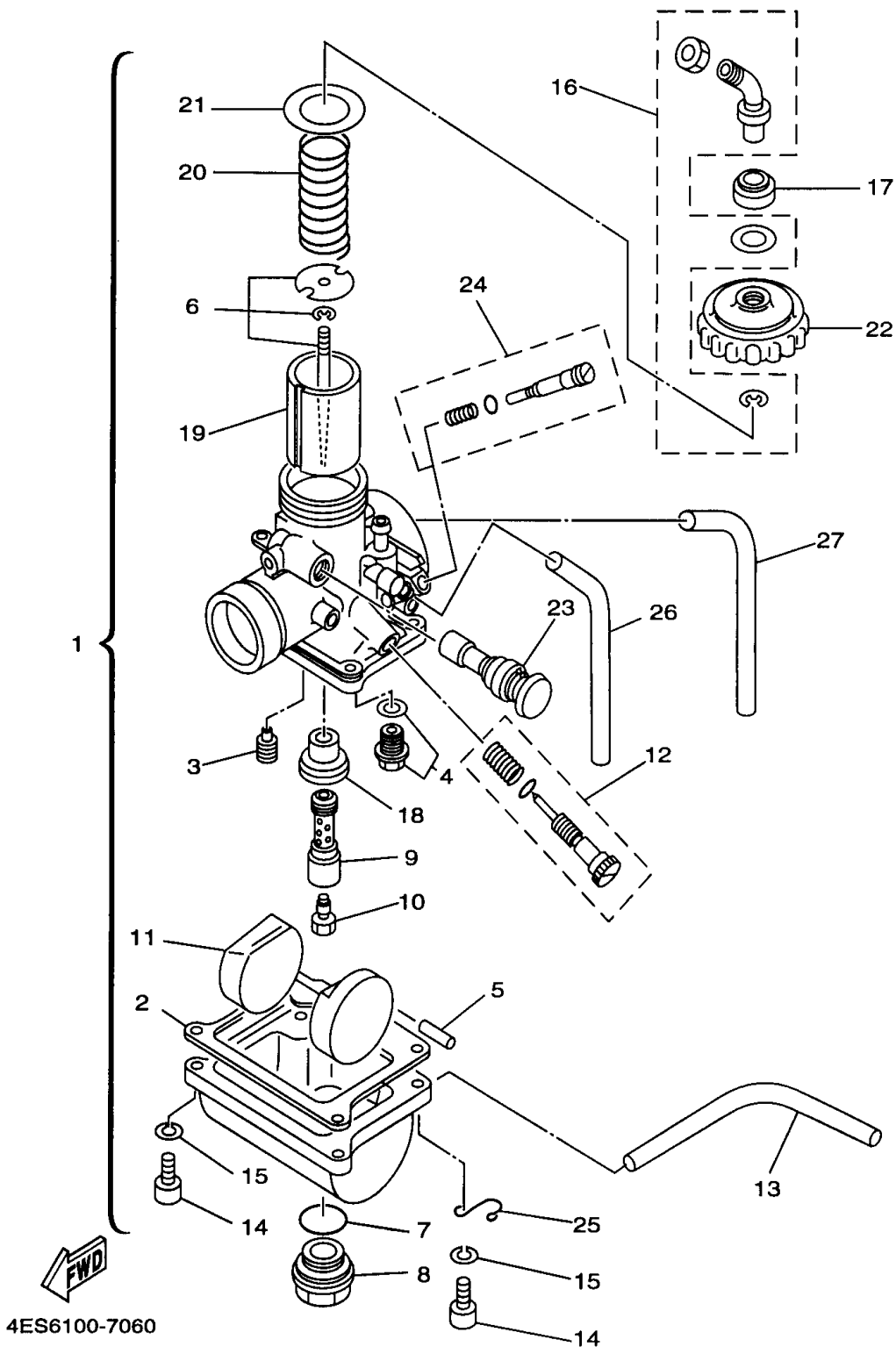
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-14101-10-00	CARBURETOR ASSEMBLY 1 .	1	
2	304-14184-00-00	. GASKET, FLOAT CHAMBER .	1	
3	260-14142-30-00	. JET, PILOT (# 30)	1	AP
	260-14142-32-00	. JET, PILOT (# 32.5)	1	STD
	260-14142-35-00	. JET, PILOT (# 35)	1	AP
4	23L-14107-25-00	. NEEDLE VALVE SET	1	
5	127-14186-00-00	. PIN, FLOAT	1	
6	58T-1490J-00-00	. NEEDLE SET	1	
7	93210-18288-00	. O-RING	1	
8	3R1-14115-00-00	. PLUG, SCREW	1	
9	3R1-14141-50-00	. NOZZLE, MAIN	1	AP
	3R1-14141-52-00	. NOZZLE, MAIN	1	STD
	3R1-14141-54-00	. NOZZLE, MAIN	1	AP
10	137-14143-58-A1	. JET, MAIN (# 290)	1	AP
	137-14143-60-A0	. JET, MAIN (# 300)	1	STD
	137-14143-62-A1	. JET, MAIN (#310)	1	AP
11	314-14185-00-00	. FLOAT	1	
12	31J-14103-00-00	. THROTTLE SCREW SET	1	
13	278-14197-00-00	. PIPE	1	
14	98507-04018-00	. SCREW, PAN HEAD	4	
15	92907-04100-00	. WASHER, SPRING	4	
16	22W-14106-00-00	. CABLE ADJUST SCREW SET	1	
17	3X3-14169-00-00	. CAP	1	
18	39K-14153-00-00	. WASHER, MAIN JET	1	
19	2X6-14112-25-00	. VALVE, THROTTLE 1	1	AP
	2X6-14112-30-00	. VALVE, THROTTLE 1	1	STD
	2X6-14112-35-00	. VALVE, THROTTLE 1	1	AP
20	248-14131-00-00	. SPRING, THROTTLE VALVE .	1	
21	2A6-14126-00-00	. GASKET	1	

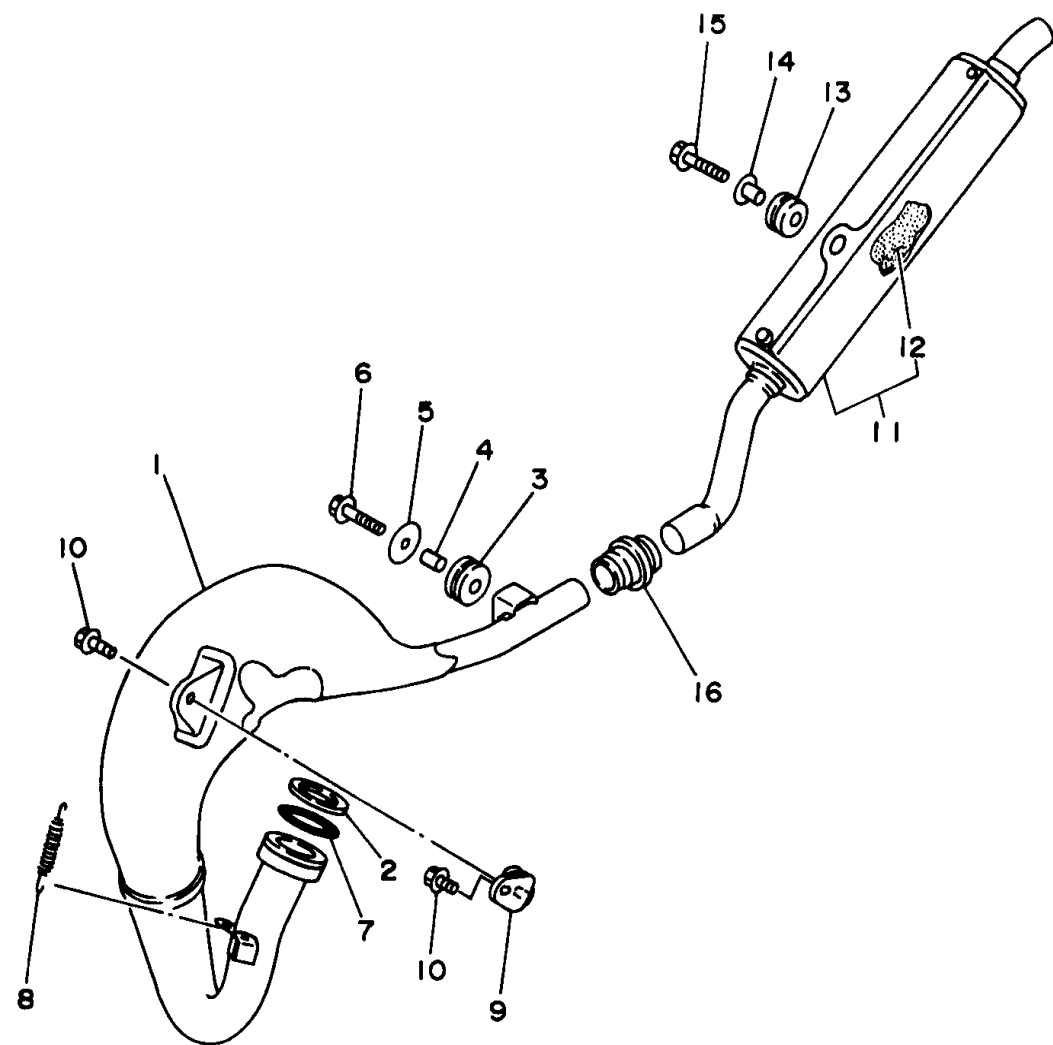
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CARBURETOR

Ref. No.	Part Number	Description	Qty	Remarks
22	2A6-14158-00-00	. TOP, MIXING CHAMBER	1	
23	3SB-14171-00-00	. PLUNGER, STARTER	1	
24	10W-14104-00-00	. AIR SCREW SET	1	
25	25G-14937-00-00	. CLIP	2	
26	3JN-14196-00-00	. PIPE	1	
27	3Y1-14197-00-00	. PIPE	1	

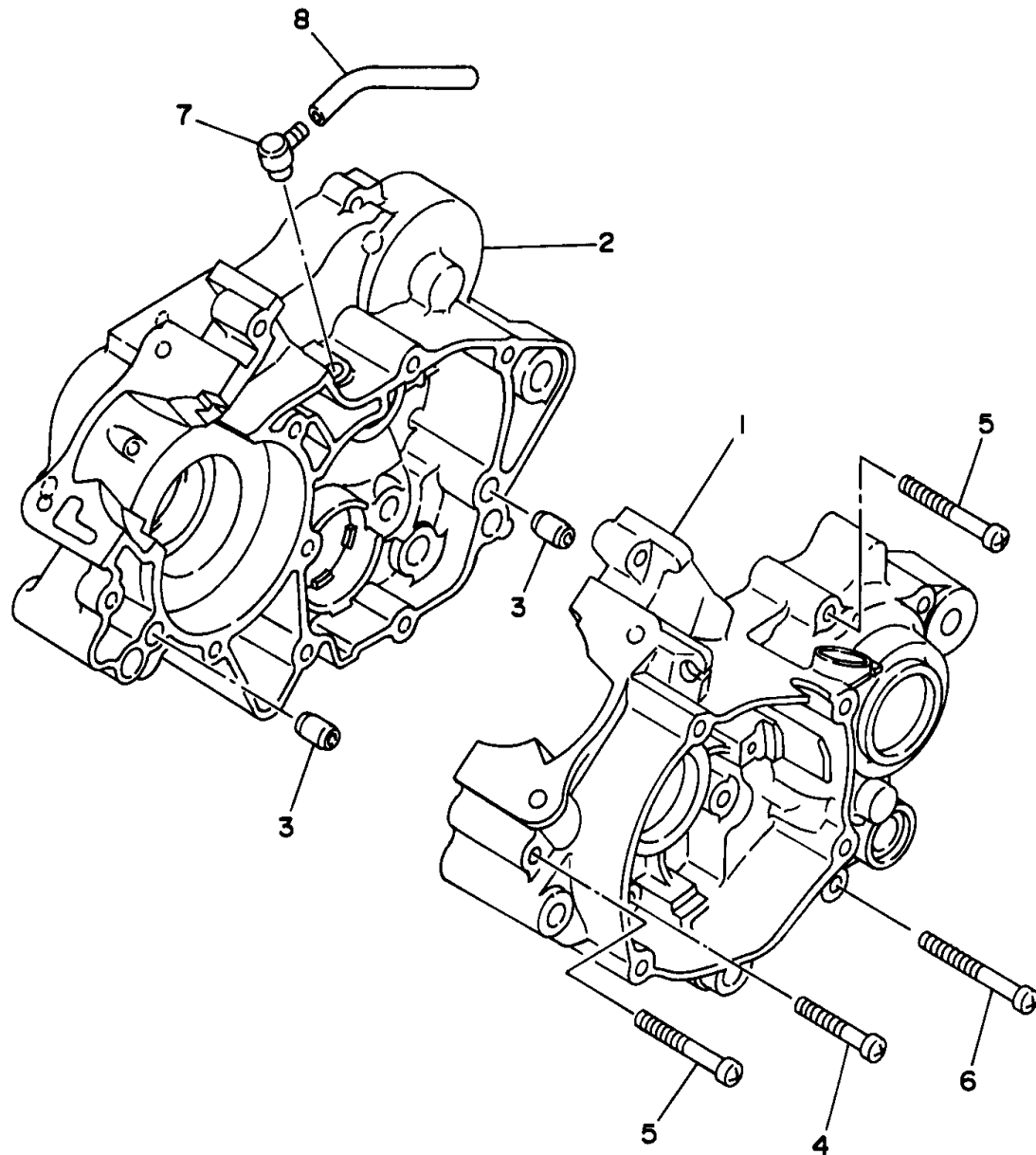




4ES3100-4070

EXHAUST

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-14610-10-00	EXHAUST PIPE ASSEMBLY 1 .	1	
2	90201-34683-00	WASHER, PLATE (90201-33299-00)	1	
3	90480-18411-00	GROMMET	1	
4	90387-105L0-00	COLLAR	1	
5	90201-060A3-00	WASHER, PLATE	1	
6	95027-06025-00	BOLT, FLANGE	1	
7	93210-371A9-00	O-RING	1	
8	90507-20030-00	SPRING, TENSION	1	
9	565-14771-00-00	STAY, MUFFLER 1	1	
10	95027-06012-00	BOLT, FLANGE	2	
11	4ES-14753-00-00	SILENCER, EXHAUST	1	
12	4ES-1469A-00-00	. FIBER	1	
13	90480-16561-00	GROMMET	1	
14	90387-063G3-00	COLLAR	1	
15	95027-06025-00	BOLT, FLANGE	1	
16	17W-14615-00-00	JOINT, EXHAUST 1	1	

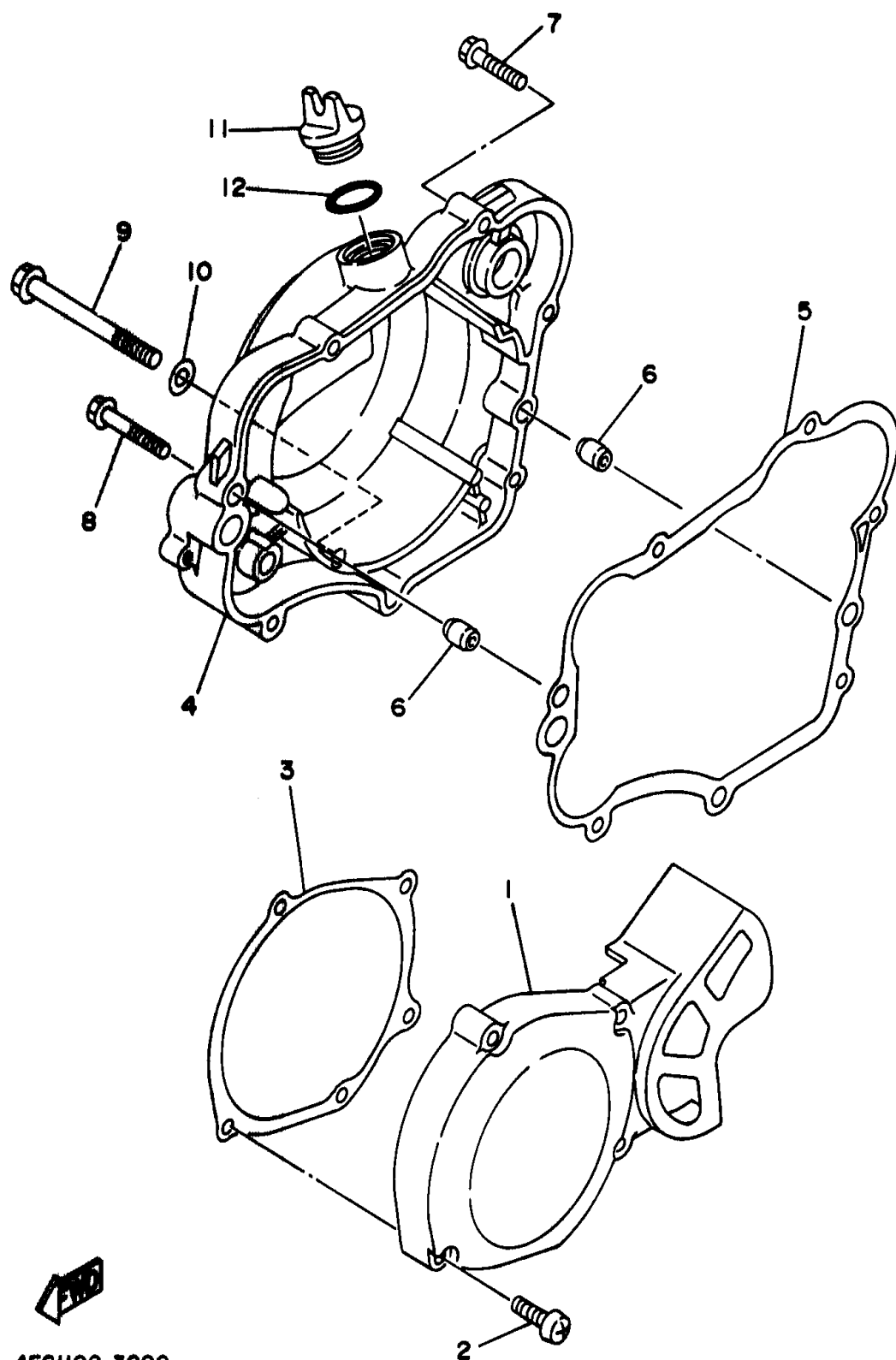


CRANKCASE

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-15111-00-00	CRANKCASE 1	1	
2	4ES-15121-01-00	CRANKCASE 2	1	
3	99530-10014-00	PIN, DOWEL	2	
4	98507-06040-00	SCREW, PAN HEAD	3	
5	98507-06050-00	SCREW, PAN HEAD	5	
6	98507-06060-00	SCREW, PAN HEAD	3	
7	583-15371-00-00	BREATHER	1	
8	90446-07349-00	HOSE	1	



4ES1100-3080

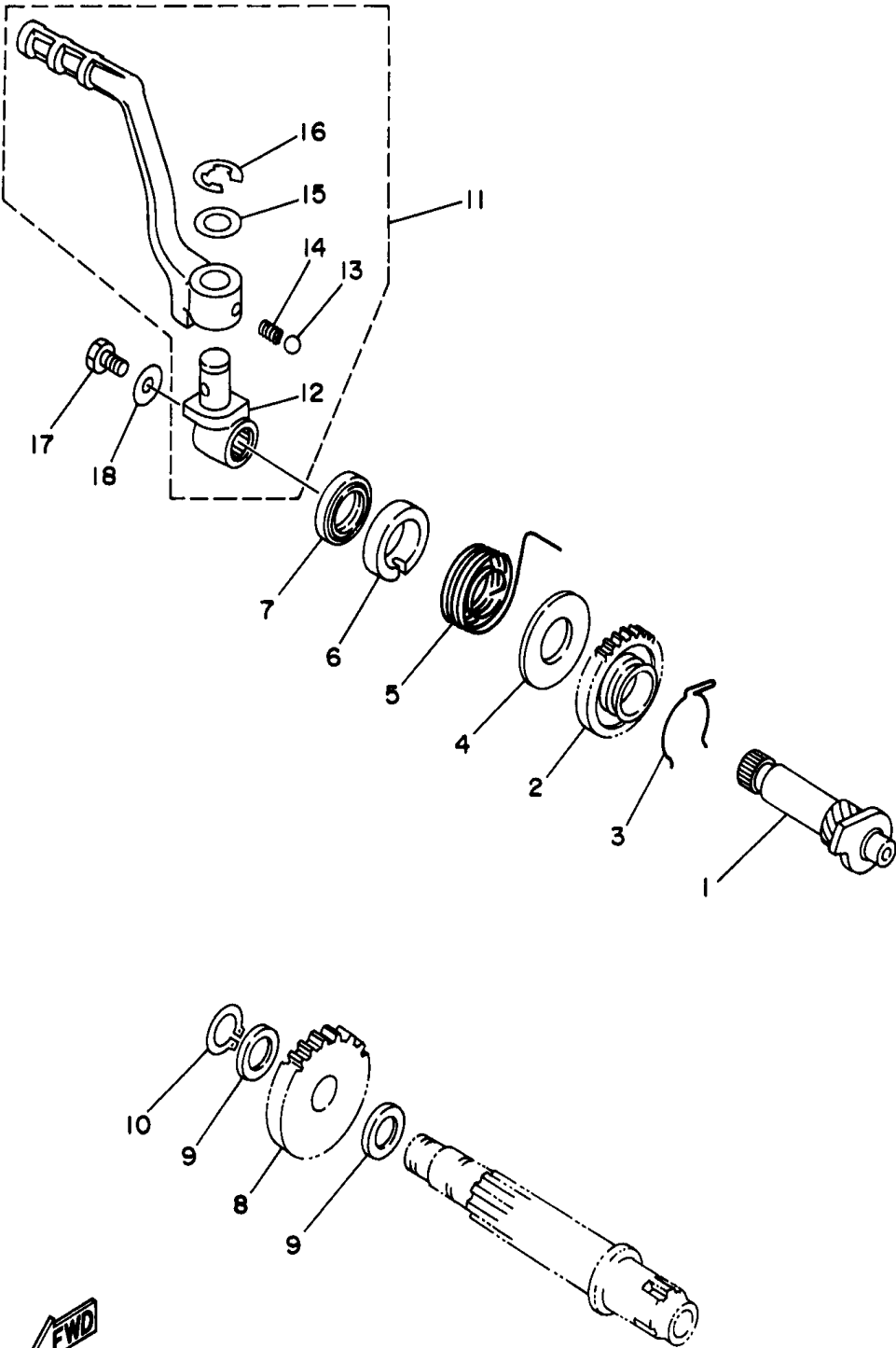


4ES1100-3090

CRANKCASE COVER 1

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-15411-00-00	COVER, CRANKCASE 1	1	
2	98517-06030-00	SCREW, PAN HEAD (98507-06030-00)	4	
3	4ES-15451-00-00	GASKET, CRANKCASE COVER 1	1	
4	4ES-15421-01-00	COVER, CRANKCASE 2	1	
5	4ES-15461-00-00	GASKET, CRANKCASE COVER 2	1	
6	99530-10014-00	PIN, DOWEL	2	
7	95027-06030-00	BOLT, FLANGE	4	
8	95027-06040-00	BOLT, FLANGE	1	
9	95027-08080-00	BOLT, FLANGE	1	
10	90201-08087-00	WASHER, PLATE	1	
11	1RG-15363-00-00	PLUG, OIL	1	
12	93210-19123-00	O-RING	1	

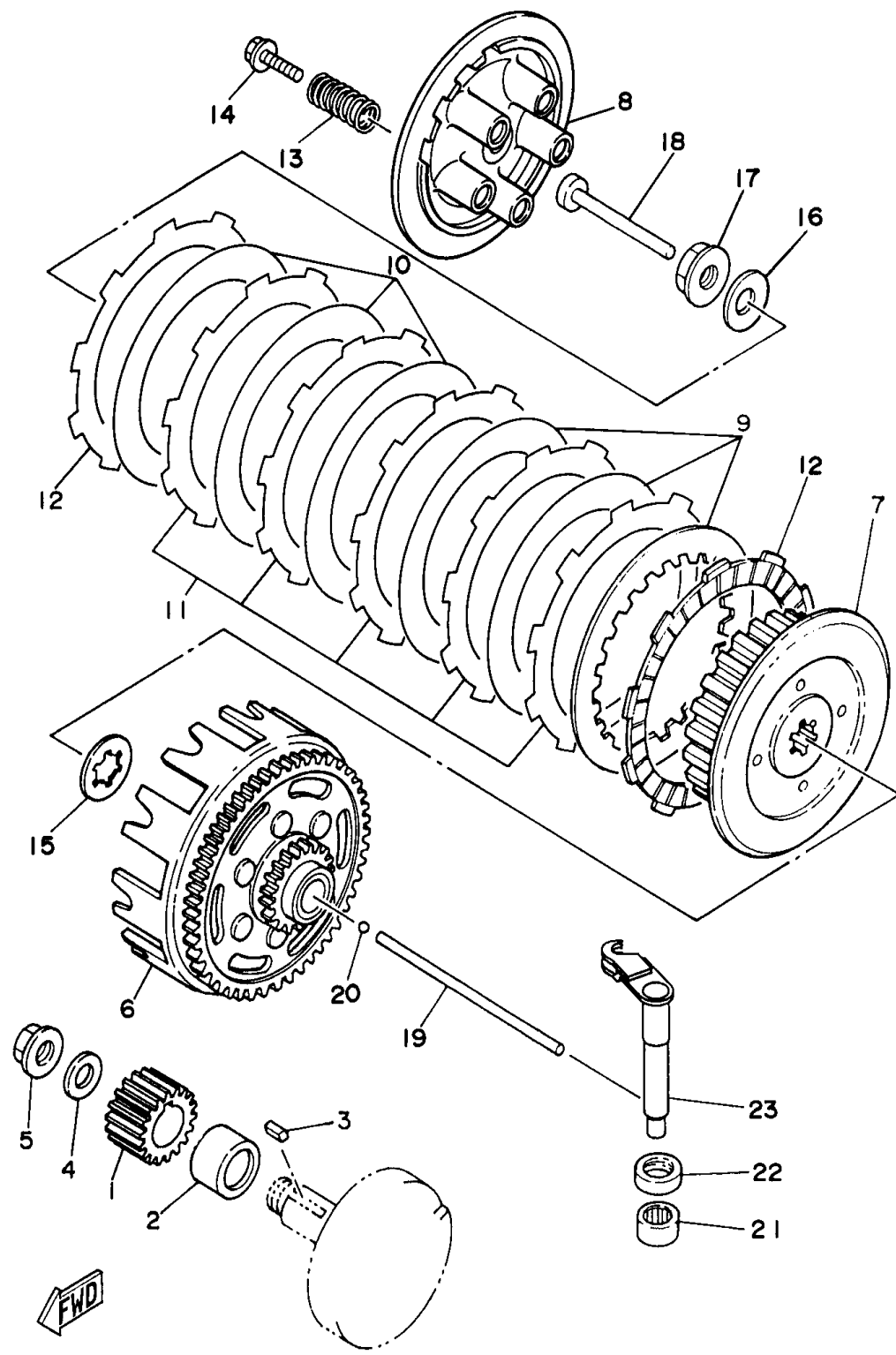
STARTER



Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-15660-00-00	KICK AXLE ASSEMBLY	1	
2	4ES-15641-00-00	GEAR, KICK	1	
3	90468-23194-00	CLIP	1	
4	90201-176L4-00	WASHER, PLATE	1	
5	90508-26750-00	SPRING, TORSION	1	
6	4ES-15664-00-00	GUIDE, SPRING	1	
7	93102-17263-00	OIL SEAL	1	
8	4ES-15651-00-00	GEAR, KICK IDLE	1	
9	90201-124F8-00	WASHER, PLATE	2	
10	99009-12400-00	CIRCLIP	1	
11	4ES-15620-00-00	KICK CRANK ASSEMBLY	1	
12	4ES-15621-00-00	. BOSS, KICK CRANK	1	
13	93507-32031-00	. BALL	1	
14	90501-12081-00	. SPRING, COMPRESSION	1	
15	90201-12631-00	. WASHER, PLATE	1	
16	93430-08007-00	. CIRCLIP	1	
17	95027-06012-00	BOLT, FLANGE	1	
18	90201-065F3-00	WASHER, PLATE	1	

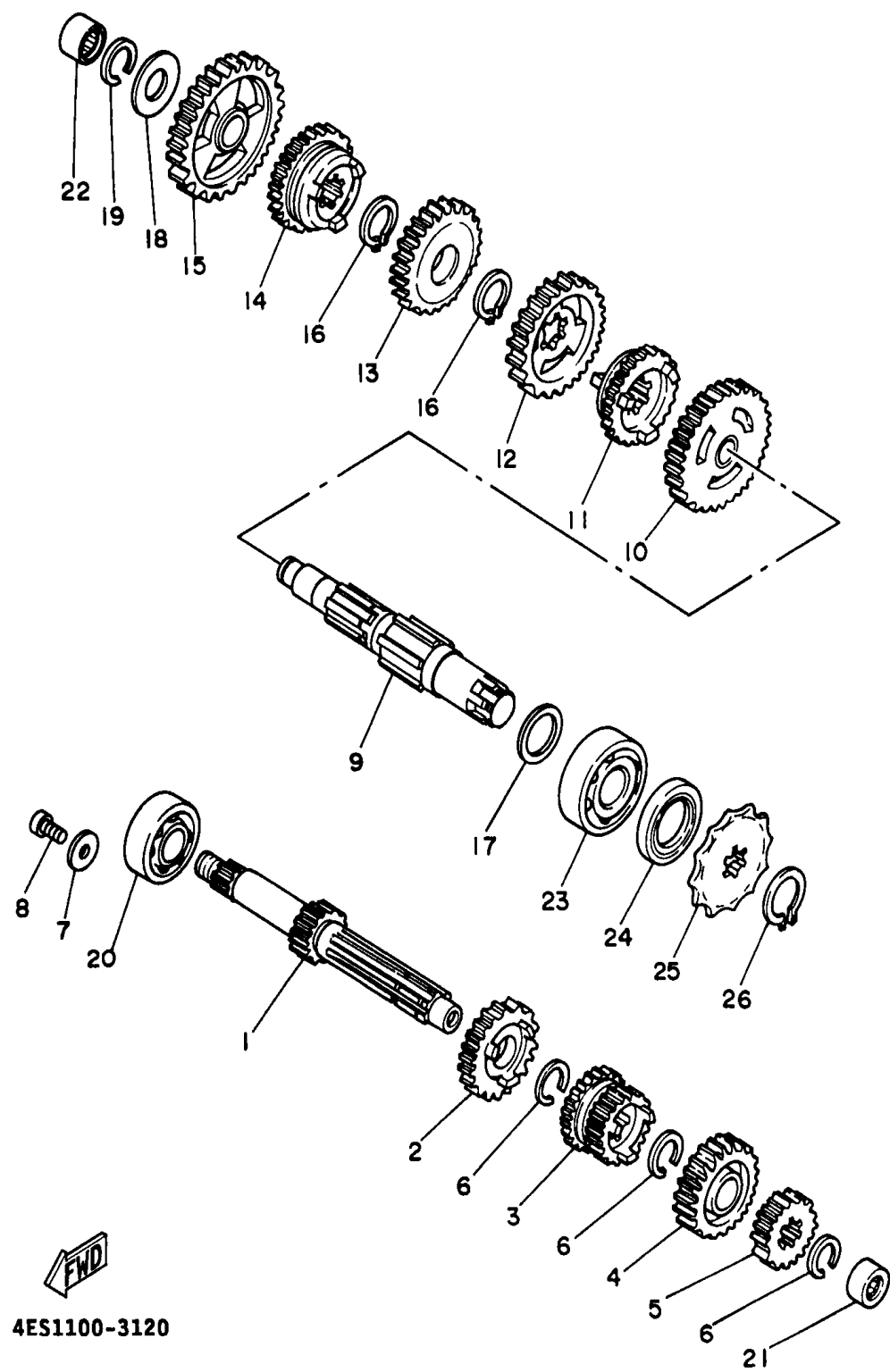
FWD
4ES1100-3100

CLUTCH



Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-16111-00-00	GEAR, PRIMARY DRIVE	1	
2	90387-20488-00	COLLAR	1	
3	90282-05001-00	KEY, STRAIGHT (5MMX16MM)	1	
4	90208-12015-00	WASHER, CONICAL SPRING ..	1	
5	90179-12659-00	NUT	1	
6	4ES-16150-11-00	PRIMARY DRIVEN GEAR COMP.	1	
7	37F-16371-01-00	BOSS, CLUTCH	1	
8	2TK-16351-00-00	PLATE, PRESSURE 1	1	
9	257-16324-00-00	PLATE, CLUTCH 1	3	
10	131-16324-00-00	PLATE, CLUTCH 1	3	
11	4ES-16321-00-00	PLATE, FRICTION	5	
12	21V-16321-00-00	PLATE, FRICTION	2	
13	90501-20735-00	SPRING, COMPRESSION	5	
14	90119-05001-00	BOLT, WITH WASHER	5	
15	4V0-16154-00-00	PLATE, THRUST 1	1	
16	90208-12015-00	WASHER, CONICAL SPRING ..	1	
17	90179-12659-00	NUT	1	
18	4ES-16356-00-00	ROD, PUSH 1	1	
19	2RA-16357-00-00	ROD, PUSH 2	1	
20	93503-16003-00	BALL	1	
21	93315-11206-00	BEARING	1	
22	93102-12224-00	OIL SEAL	1	
23	4ES-16381-00-00	PUSH LEVER COMP.	1	

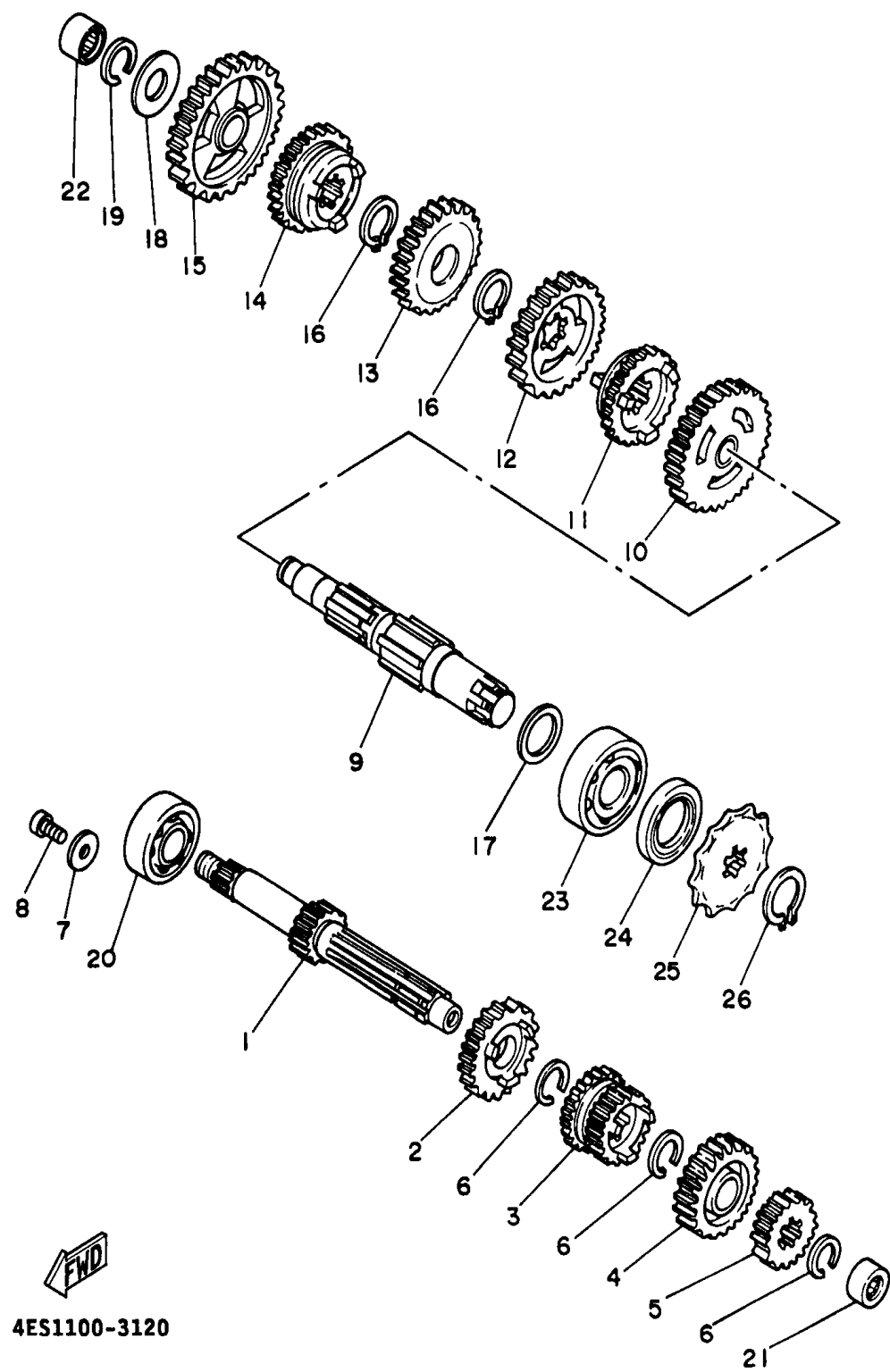
TRANSMISSION



Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-17411-01-00	AXLE, MAIN	1	
2	4ES-17151-00-00	GEAR, 5TH PINION	1	
3	4ES-17131-00-00	GEAR, 3RD PINION	1	
4	4ES-17161-00-00	GEAR, 6TH PINION	1	
5	4ES-17121-01-00	GEAR, 2ND PINION	1	
6	93440-17064-00	CIRCLIP	3	
7	90201-065F3-00	WASHER, PLATE	2	
8	90157-06071-00	SCREW, PAN HEAD	2	
9	4ES-17421-00-00	AXLE, DRIVE	1	
10	4ES-17221-01-00	GEAR, 2ND WHEEL	1	
11	4ES-17261-01-00	GEAR, 6TH WHEEL	1	
12	4ES-17231-01-00	GEAR, 3RD WHEEL	1	
13	4ES-17241-00-00	GEAR, 4TH WHEEL	1	
14	4ES-17251-00-00	GEAR, 5TH WHEEL	1	
15	4ES-17211-01-00	GEAR, 1ST WHEEL	1	
16	93410-20038-00	CIRCLIP	2	
17	90201-203E7-00	WASHER, PLATE	1	
18	164-17427-00-06	SHIM 1 (0.6T)	1	
19	93440-15012-00	CIRCLIP	1	
20	93306-20333-00	BEARING	1	
21	93317-11245-00	BEARING	1	
22	93315-31502-00	BEARING	1	
23	93306-20421-00	BEARING	1	
24	93102-20143-00	OIL SEAL	1	
25	93822-12012-00	SPROCKET, DRIVE 12T (1741746120)	1	AP
	93822-13024-00	SPROCKET, DRIVE 13T (1741746130)	1	AP
	93822-14037-00	SPROCKET, DRIVE 14T (1741746140)	1	STD

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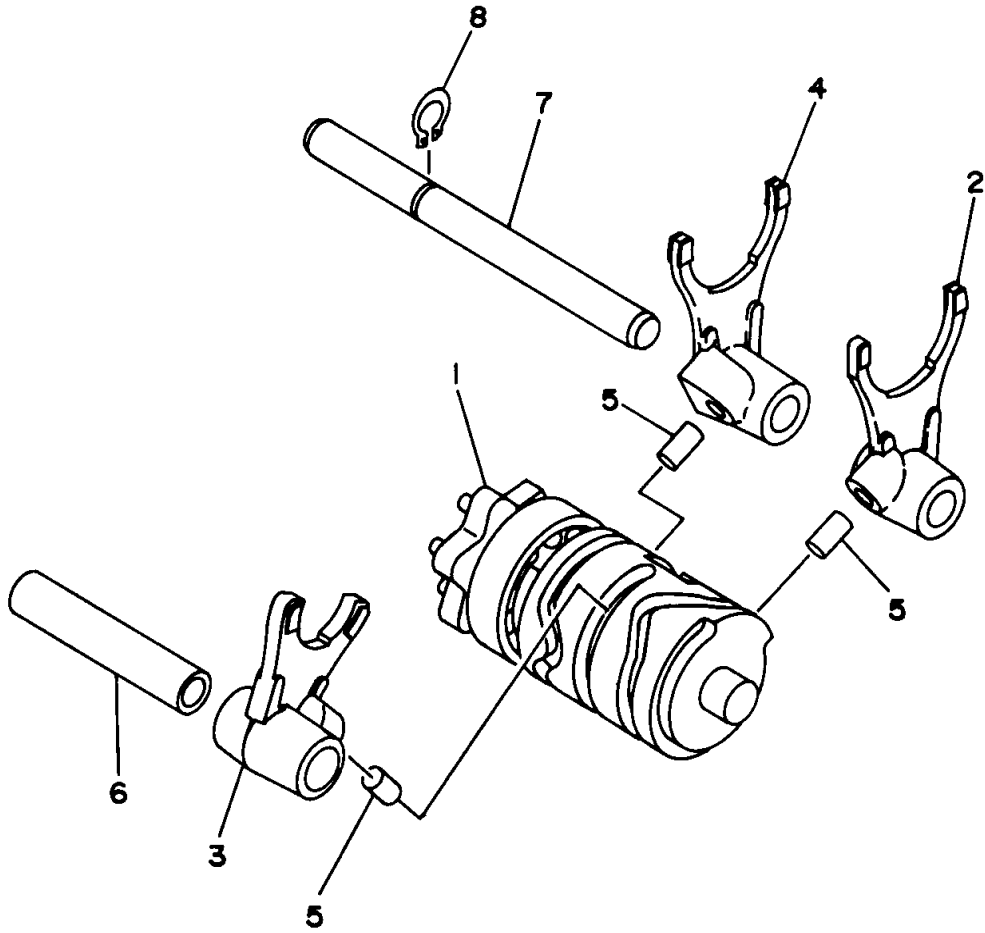
TRANSMISSION



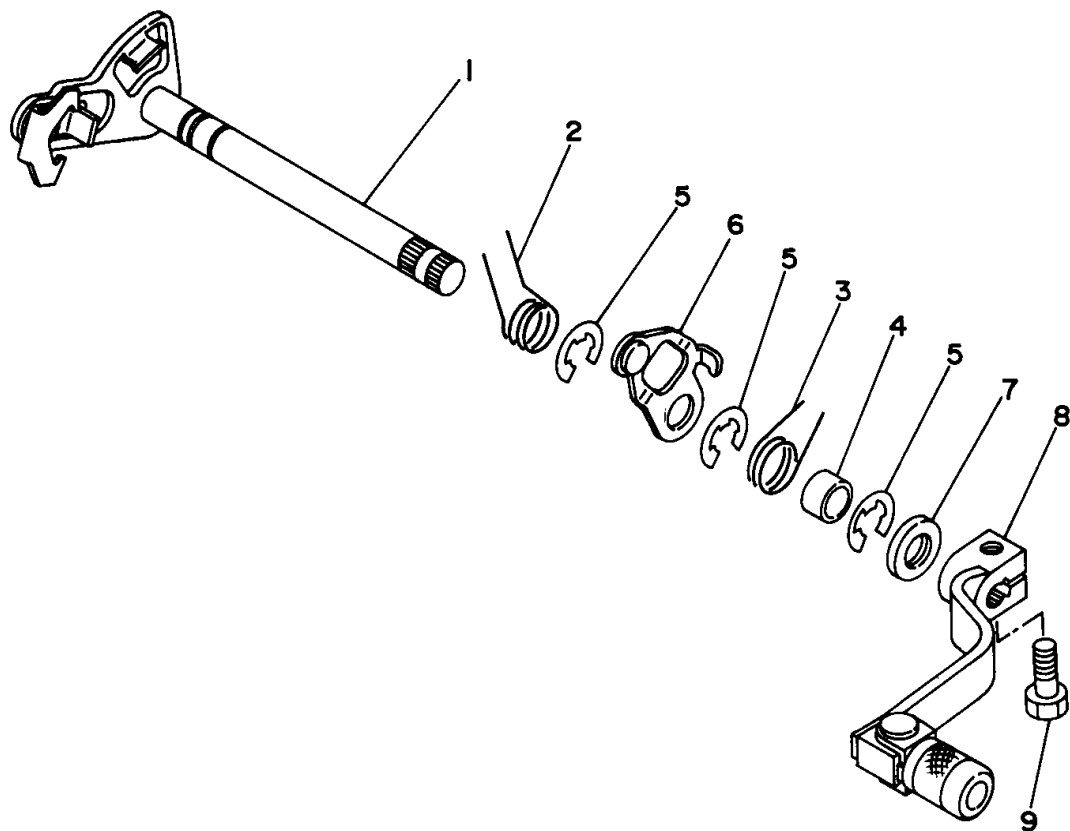
Ref. No.	Part Number	Description	Qty	Remarks
25	93822-15065-00	SPROCKET, DRIVE 15T (1741746150)	1	AP
26	99009-18400-00	CIRCLIP	1	

SHIFT CAM - SHIFT FORK

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-18540-00-00	SHIFT CAM ASSEMBLY	1	
2	4ES-18511-01-00	FORK, SHIFT 1	1	
3	4V0-18512-00-00	FORK, SHIFT 2	1	
4	4ES-18513-01-00	FORK, SHIFT 3	1	
5	90250-06013-00	PIN, STRAIGHT	3	
6	4BA-18531-00-00	BAR, SHIFT FORK GUIDE 1 ...	1	
7	4BA-18535-00-00	BAR, SHIFT FORK GUIDE 2 ...	1	
8	99009-10400-00	CIRCLIP	1	



4ES3100-4130



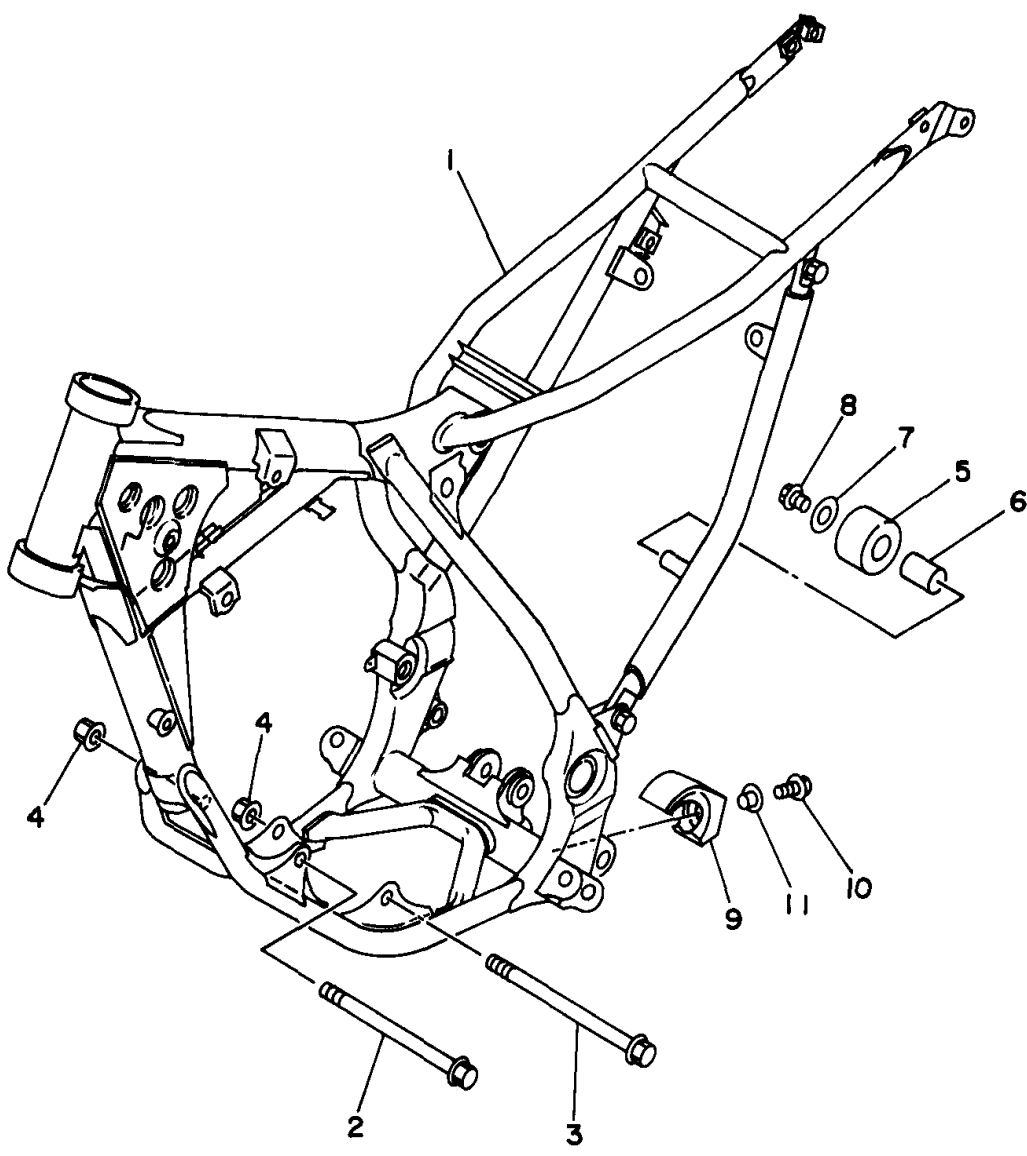
SHIFT SHAFT

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-18101-00-00	SHIFT SHAFT ASSEMBLY	1	
2	90508-32553-00	SPRING, TORSION	1	
3	90508-242A6-00	SPRING, TORSION	1	
4	90387-126Y7-00	COLLAR	1	
5	99006-10600-00	CIRCLIP	3	
6	4BA-18140-00-00	STOPPER LEVER ASSEMBLY .	1	
7	93101-12060-00	OIL SEAL	1	
8	2HF-18110-01-00	SHIFT PEDAL ASSEMBLY	1	
9	97017-06020-00	BOLT	1	


 4ES1100-3140

FRAME

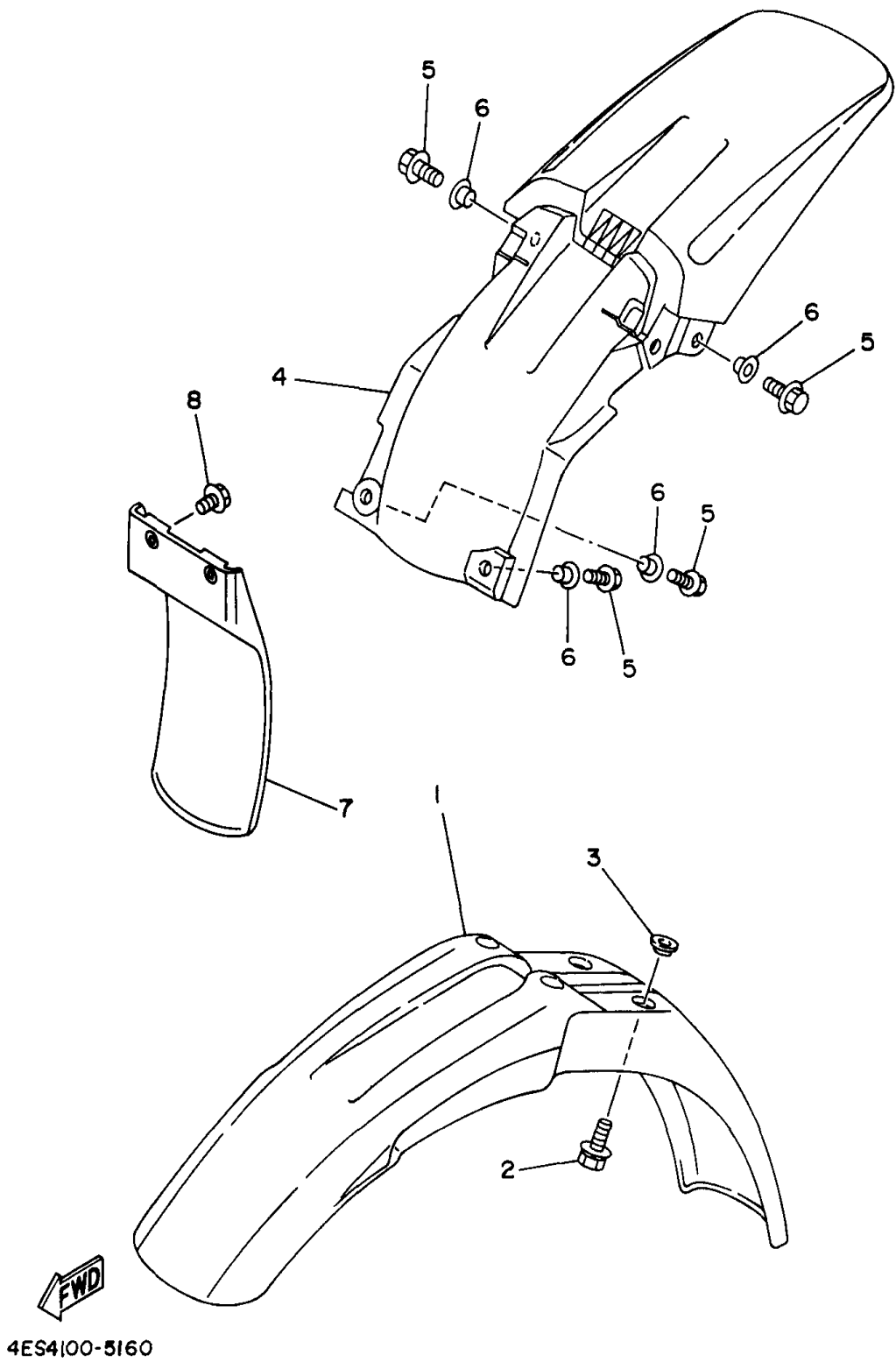
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-21110-01-2F	FRAME COMP.	1	STRONG BLUE (02F)
2	95817-08125-00	BOLT, FLANGE	1	
3	95817-08135-00	BOLT, FLANGE	1	
4	95617-08200-00	NUT, SELF-LOCKING (95607-08200-00)	2	
5	30X-22178-00-00	TENSIONER	1	
6	4V4-22184-00-00	BUSH	1	
7	90201-081R9-00	WASHER, PLATE	1	
8	95027-08012-00	BOLT, FLANGE	1	
9	4ES-22178-00-00	TENSIONER	1	
10	90119-06118-00	BOLT, WITH WASHER	1	
11	90387-06216-00	COLLAR	1	



4ES1100-3150

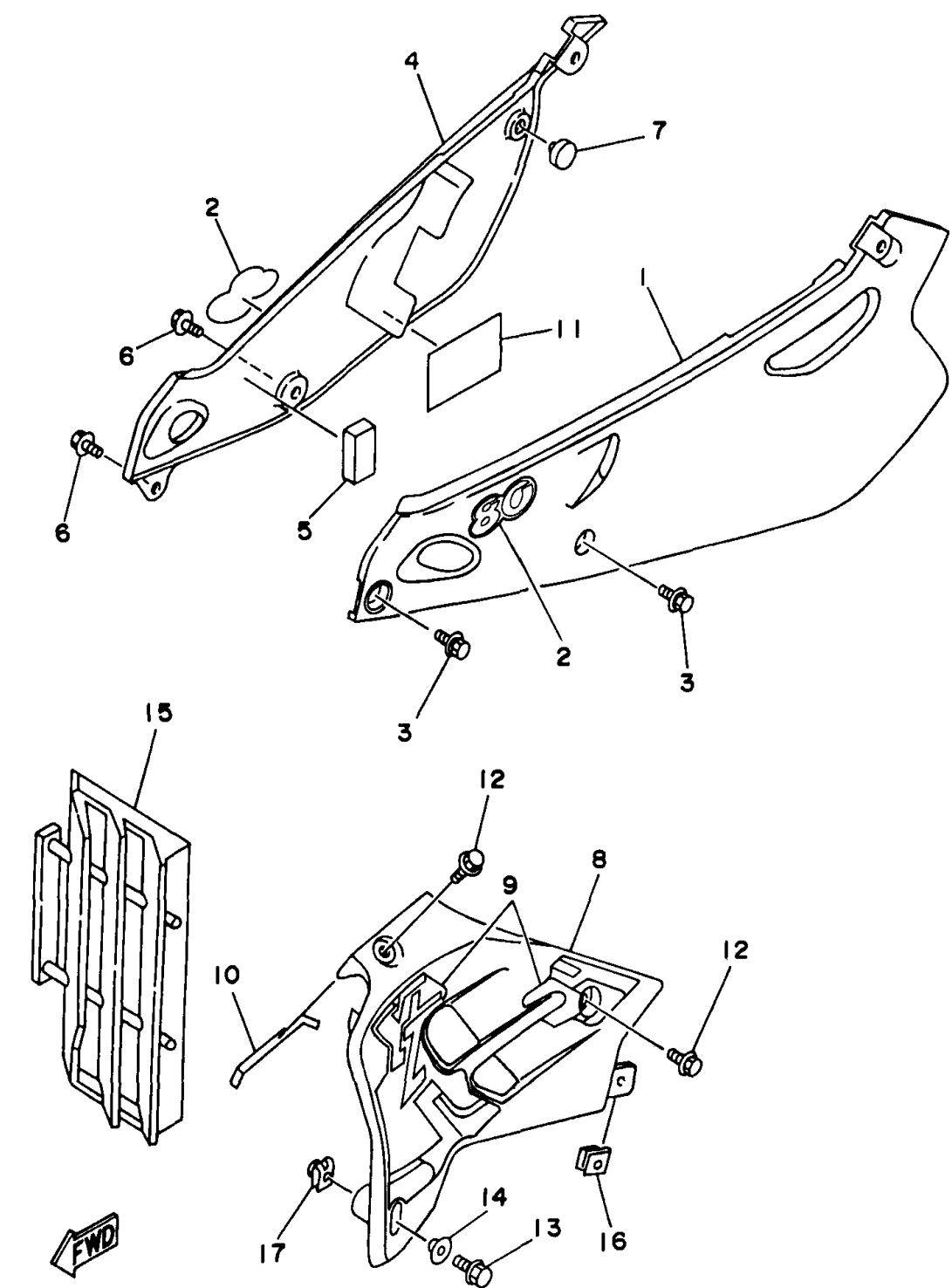
FENDER

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-21511-10-00	FENDER, FRONT	1	
2	90119-06063-00	BOLT, WITH WASHER	4	
3	90209-06187-00	WASHER	4	
4	4ES-21611-00-00	FENDER, REAR	1	
5	95027-06016-00	BOLT, FLANGE	4	
6	90387-064X4-00	COLLAR	4	
7	4ES-21642-00-00	GUARD, FLAP	1	
8	90119-06185-00	BOLT, WITH WASHER	2	

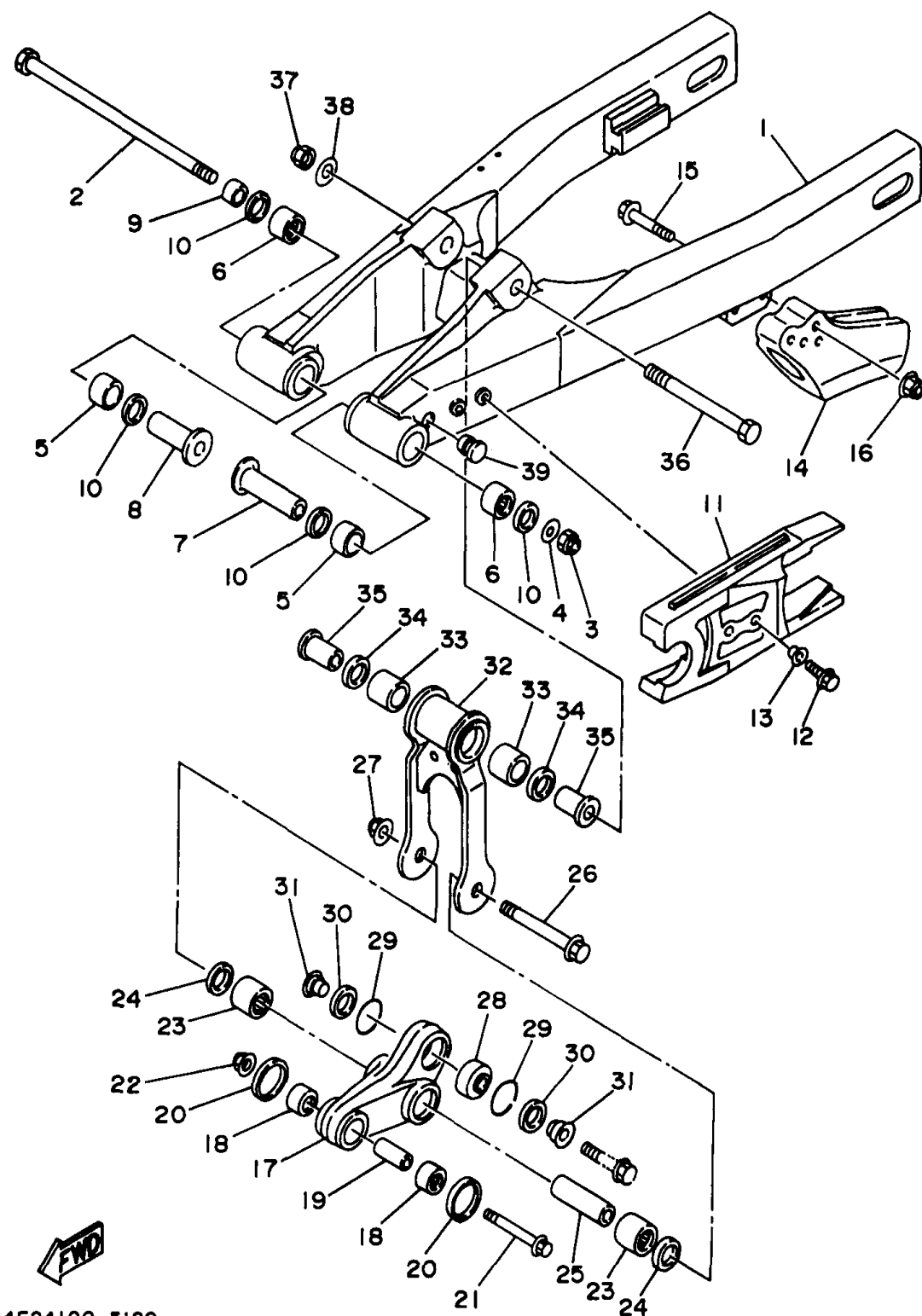


SIDE COVER

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-21711-00-00	COVER, SIDE 1	1	
2	4ES-21781-00-00	GRAPHIC 1	2	
3	90119-06217-00	BOLT, WITH WASHER	2	
4	4ES-21721-00-00	COVER, SIDE 2	1	
5	4ES-21735-00-00	SEAL 2	1	
6	90119-06217-00	BOLT, WITH WASHER	2	
7	22W-24181-00-00	DAMPER, LOCATING 1	1	
8	4ES-21731-10-00	COVER, SIDE 3	1	
9	4ES-21790-00-00	EMBLEM SET	1	
10	4ES-21732-00-00	SEAL 1	1	
11	4DJ-2174A-00-00	INSULATOR, SIDE COVER ...	1	
12	90109-067F4-00	BOLT	2	
13	95027-06016-00	BOLT, FLANGE	1	
14	90387-062M9-00	COLLAR	1	
15	4EW-2172A-10-00	PANEL 1	1	
16	90183-06023-00	NUT, SPRING	1	
17	90183-06069-00	NUT, SPRING	1	



4ES6100-7170



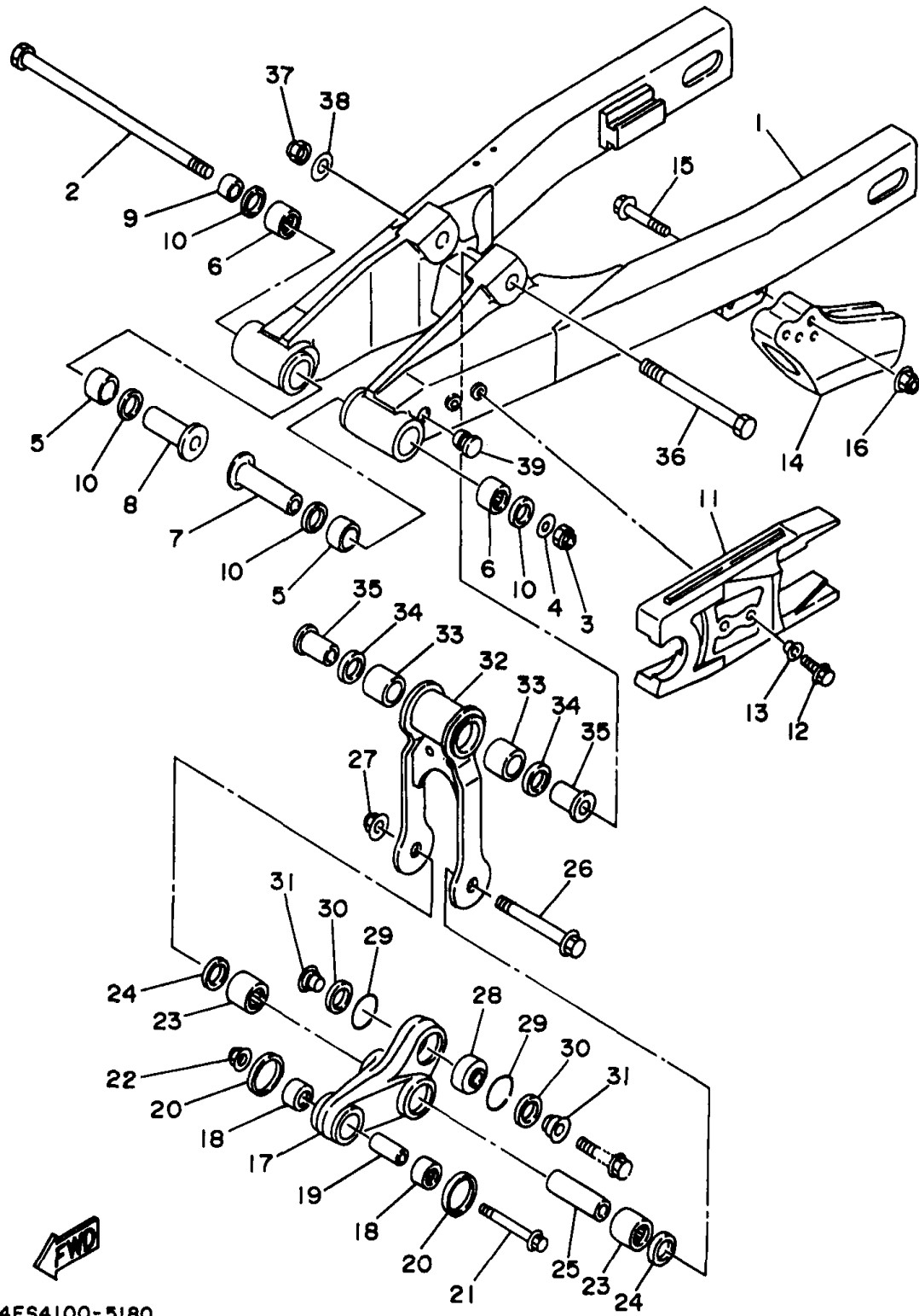
4ES4100-5180

REAR ARM

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-22110-00-00	REAR ARM COMP.	1	UR
2	22W-25181-01-00	AXLE, WHEEL	1	
3	95617-12100-00	NUT, U	1	
4	90201-124G9-00	WASHER, PLATE	1	
5	90385-17042-00	BUSH	2	
6	93317-21746-00	BEARING	2	
7	90387-127J8-00	COLLAR	1	
8	90387-127J7-00	COLLAR	1	
9	90387-1200U-00	COLLAR	1	
10	93109-17048-00	OIL SEAL (SDO 17-24-4)	4	
11	4ES-22151-00-00	SEAL, GUARD	1	
12	95027-06014-00	BOLT, FLANGE	2	
13	90387-062X0-00	COLLAR	2	
14	39K-22199-00-00	SUPPORT, CHAIN	1	
15	90105-08310-00	BOLT, WASHER BASED	2	
16	95617-08200-00	NUT, SELF-LOCKING (95607-08200-00)	2	
17	4ES-2217A-00-00	ARM, RELAY	1	
18	93315-21455-00	BEARING	2	
19	90380-10218-00	BUSH, SOLID	1	
20	4ES-22129-00-00	COVER, THRUST 2	2	
21	90105-10582-00	BOLT, WASHER BASED	1	
22	95617-10200-00	NUT, SELF-LOCKING	1	
23	93317-31771-00	BEARING	2	
24	93101-17062-00	OIL SEAL	2	
25	90380-12219-00	BUSH, SOLID	1	
26	90105-12382-00	BOLT, WASHER BASED	1	
27	95617-12200-00	NUT, SELF-LOCKING	1	
28	93399-99921-00	BEARING	1	

CONTINUED ON NEXT FRAME ►

REAR ARM

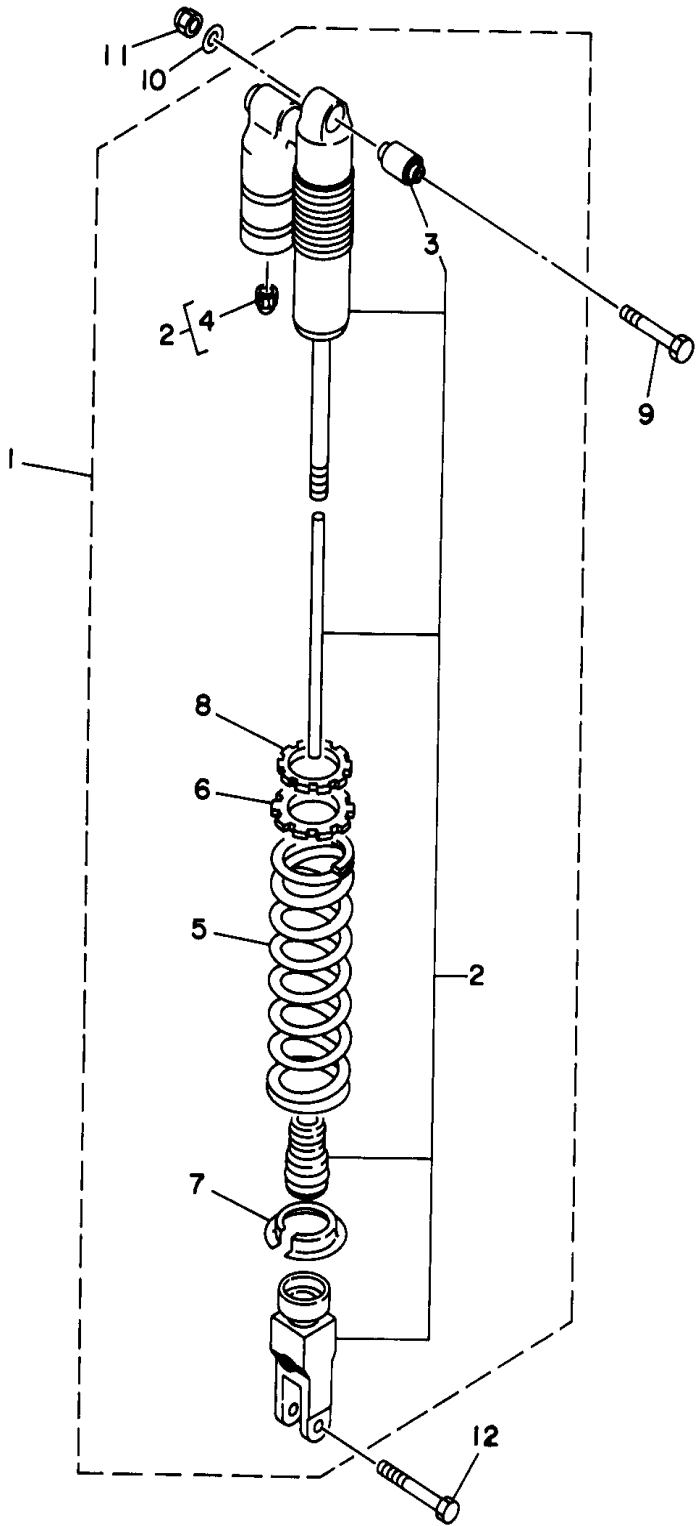


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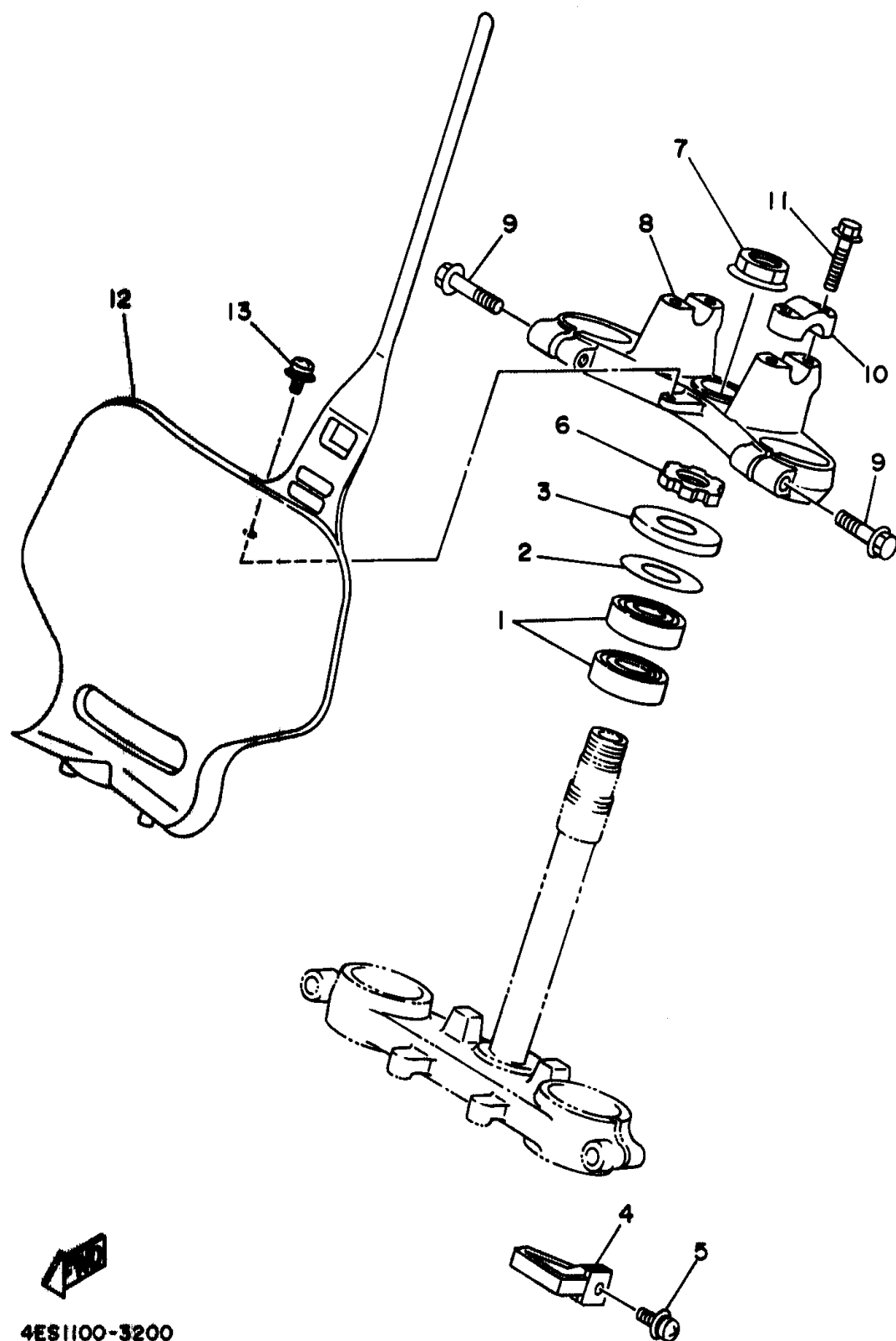
Ref. No.	Part Number	Description	Qty	Remarks
29	93440-30113-00	CIRCLIP	2	
30	3XJ-22475-00-00	SEAL, DUST	2	
31	90387-103X9-00	COLLAR	2	
32	4ES-2217F-00-00	ROD, CONNECTING 1	1	
33	93317-31771-00	BEARING	2	
34	93101-17062-00	OIL SEAL	2	
35	90381-12091-00	BUSH, SOLID	2	
36	90101-12755-00	BOLT	1	
37	90185-12119-00	NUT, SELF-LOCKING	1	
38	90201-122A7-00	WASHER, PLATE	1	
39	90338-10150-00	PLUG	2	

REAR SUSPENSION

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-22210-90-00	SHOCK ABSORBER ASSEMBLY, REAR	1	UR
2	4ES-22201-40-00	. DAMPER SUB ASSEMBLY ..	1	UR
3	4ES-22216-00-00	. . BUSH, REAR SHOCK ABSORBER	1	
4	58T-23184-L0-00	. . CAP, AIR VALVE	1	
5	4ES-22212-B0-00	. SPRING (K=5.0)	1	UR
	4ES-22212-D0-00	. SPRING (K=5.2)	1	UR
6	4ES-22214-00-00	. GUIDE, SPRING 1	1	
7	3JD-22214-00-00	. GUIDE, SPRING 1	1	
8	4ES-22251-00-00	. NUT 1	1	
9	90109-10729-00	BOLT	1	
10	92907-10600-00	WASHER, PLATE	1	
11	90185-10120-00	NUT, SELF-LOCKING	1	
12	90105-10614-00	BOLT, WASHER BASED	1	

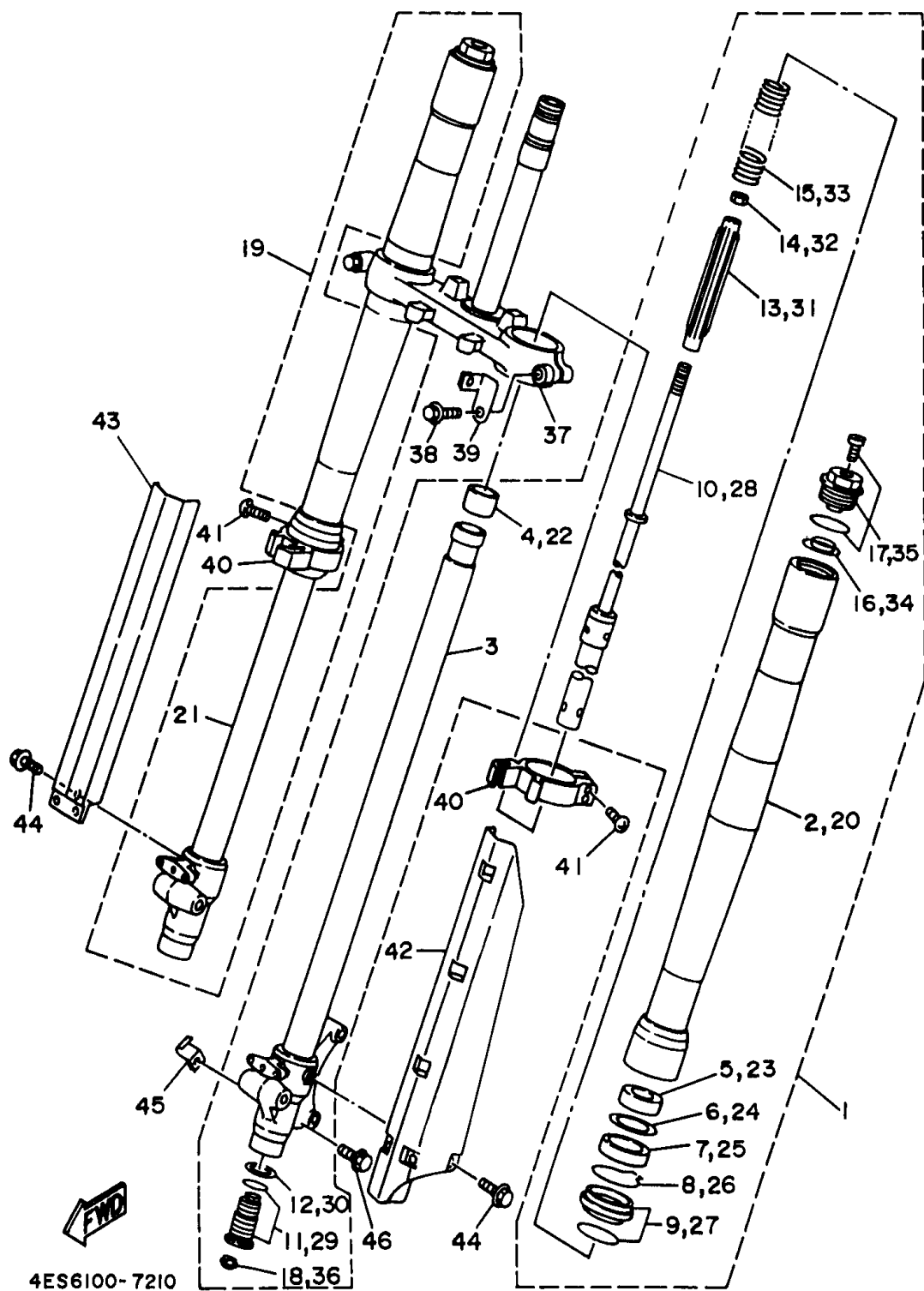



4ES1100-3190



STEERING

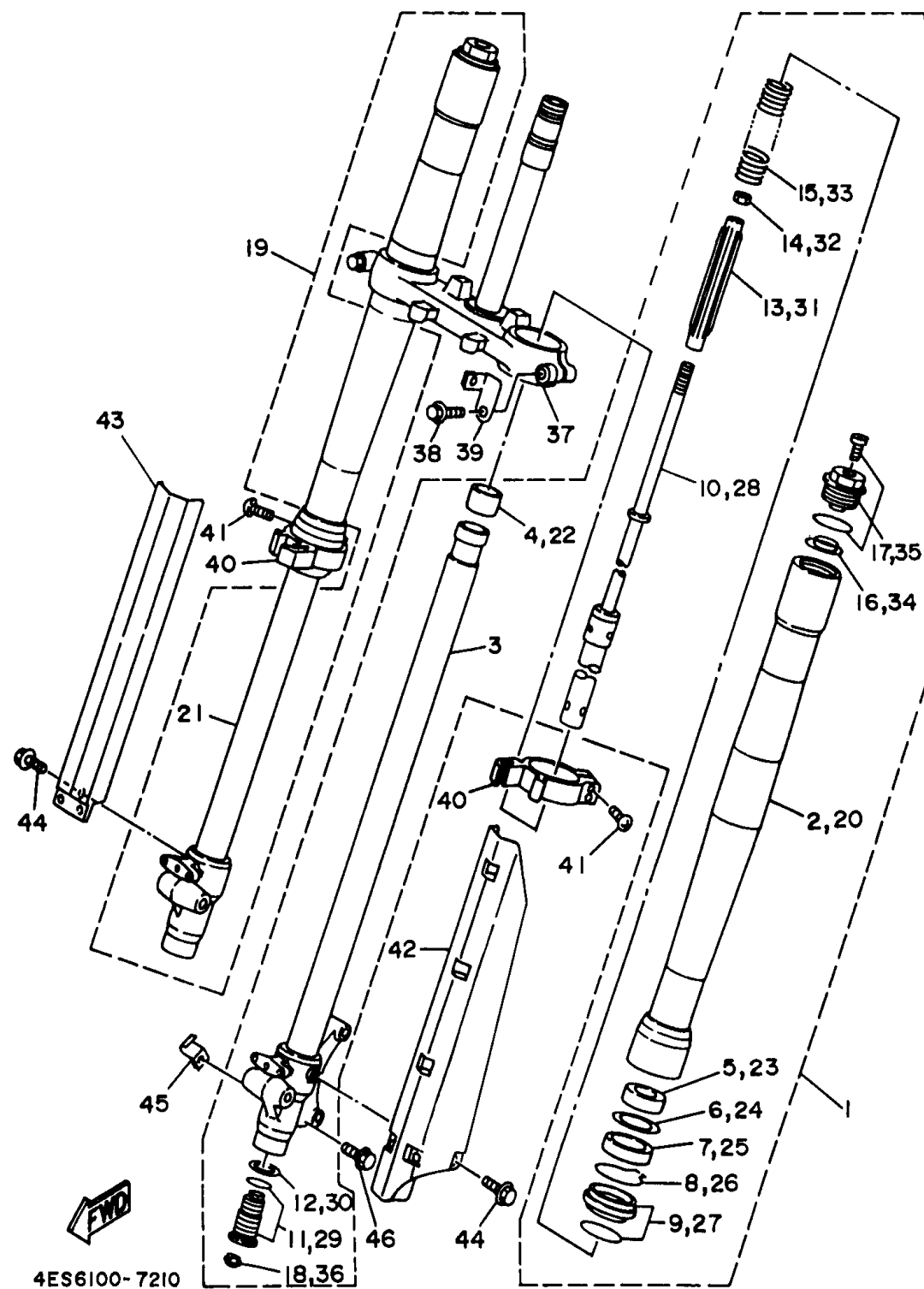
Ref. No.	Part Number	Description	Qty	Remarks
1	93332-00079-00	BEARING	2	
2	90201-256K5-00	WASHER, PLATE (0.5T)	1	
3	1J7-23415-00-00	COVER, BALL RACE 1	1	
4	4DA-23389-00-00	GUIDE, CABLE	1	
5	90157-05079-00	SCREW, PAN HEAD	1	
6	90179-25033-00	NUT	1	
7	90179-22412-00	NUT	1	
8	4ES-23435-00-00	CROWN, HANDLE	1	
9	95817-08035-00	BOLT, FLANGE	2	
10	3SP-23441-00-00	HOLDER, HANDLE UPPER ...	2	
11	95027-08030-00	BOLT, FLANGE	4	
12	4ES-23485-10-00	PLATE, NUMBER	1	
13	95027-06012-00	BOLT, FLANGE	1	



FRONT FORK

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-23102-20-00	FRONT FORK ASSEMBLY (L.H)	1	UR
2	4ES-23136-20-00	. TUBE, OUTER (RIGHT)	1	
3	4ES-23120-00-00	. INNER TUBE COMP 2	1	
4	4ES-23171-00-00	. PISTON, FRONT FORK	1	
5	4ES-23125-00-00	. METAL, SLIDE 1	1	
6	5K5-23149-00-00	. WASHER, SPRING UPPER . . .	1	
7	4ES-23145-00-00	. OIL SEAL	1	
8	4A1-23156-00-00	. CLIP, OIL SEAL	1	
9	4ES-23144-00-00	. SEAL, DUST	1	
10	4ES-23170-10-00	. CYLINDER COMP., FRONT FORK	1	
11	4ES-2316A-10-00	. VALVE COMP.	1	UR
12	2HH-23158-L0-00	. GASKET	1	
13	4ES-23142-00-00	. SEAT, SPRING UPPER	1	
14	3XJ-23357-L0-00	. NUT	1	
15	4ES-23141-40-00	. SPRING, FRONT FORK (K=0.29)	1	UR
16	4V4-23142-L0-00	. SEAT, SPRING UPPER	1	
17	4ES-23111-10-00	. BOLT, CAP	1	
18	3JD-2312G-L0-00	. PLUG	1	
19	4ES-23103-20-00	FRONT FORK ASSEMBLY (R.H)	1	UR
20	4ES-23136-20-00	. TUBE, OUTER (RIGHT)	1	
21	4ES-23110-00-00	. INNER TUBE COMP 1	1	
22	4ES-23171-00-00	. PISTON, FRONT FORK	1	
23	4ES-23125-00-00	. METAL, SLIDE 1	1	
24	5K5-23149-00-00	. WASHER, SPRING UPPER . . .	1	
25	4ES-23145-00-00	. OIL SEAL	1	
26	4A1-23156-00-00	. CLIP, OIL SEAL	1	
27	4ES-23144-00-00	. SEAL, DUST	1	

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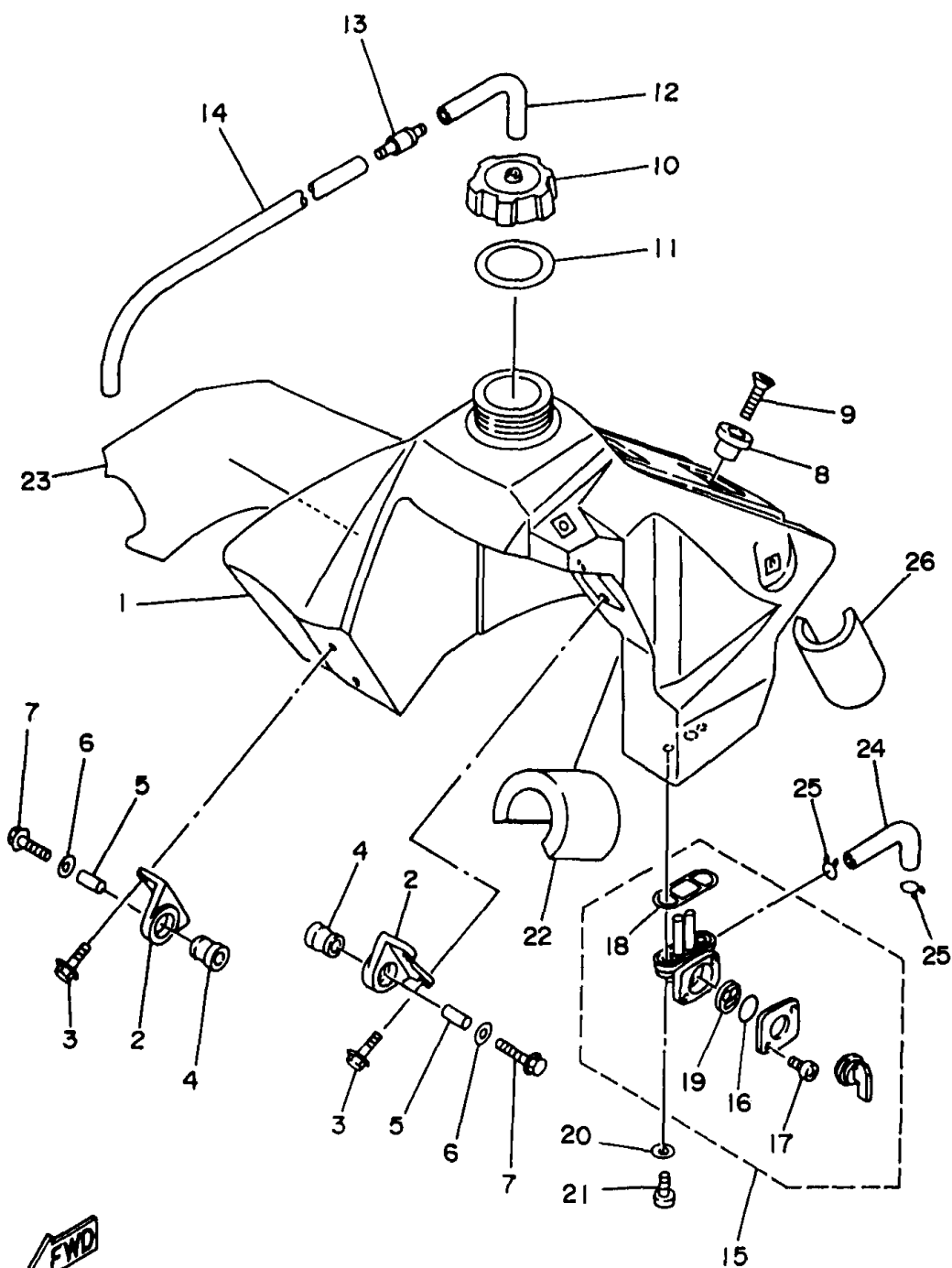


FRONT FORK

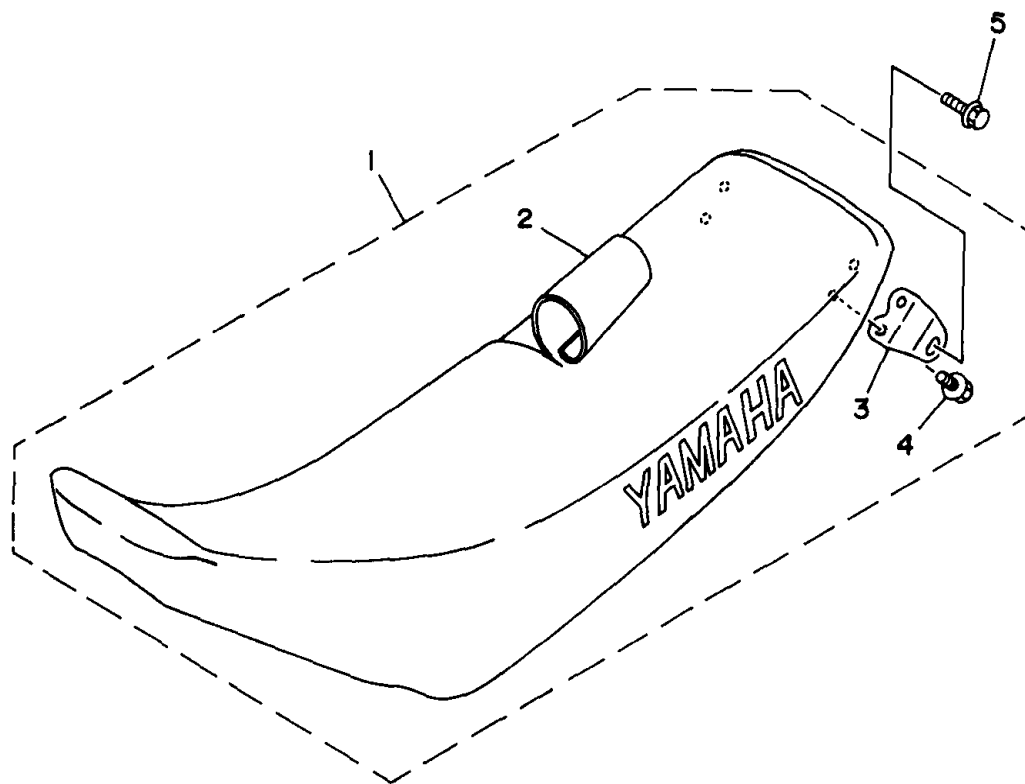
Ref. No.	Part Number	Description	Qty	Remarks
28	4ES-23170-10-00	. CYLINDER COMP., FRONT FORK	1	
29	4ES-2316A-10-00	. VALVE COMP.	1	UR
30	2HH-23158-L0-00	. GASKET	1	
31	4ES-23142-00-00	. SEAT, SPRING UPPER	1	
32	3XJ-23357-L0-00	. NUT	1	
33	4ES-23141-40-00	. SPRING, FRONT FORK (K=0.29)	1	UR
34	4V4-23142-L0-00	. SEAT, SPRING UPPER	1	
35	4ES-23111-10-00	. BOLT, CAP	1	
36	3JD-2312G-L0-00	. PLUG	1	
37	4ES-23340-00-00	UNDER BRACKET COMP.	1	
38	95024-10040-00	BOLT, FLANGE (95021-10040-00)	2	
39	4ES-2331E-00-00	GUIDE, CABLE	1	
40	4ES-2314F-00-00	PROTECTOR GUIDE COMP., 1	2	
41	4V4-23194-L0-00	SCREW, BOOT BAND	4	
42	4ES-2314H-L1-00	PROTECTOR COMP., 1	1	
43	4ES-2314J-L0-00	PROTECTOR COMP., 2	1	
44	4DA-23346-L0-00	BOLT 1	6	
45	4ES-23318-00-00	HOLDER, CABLE 1	1	
46	95027-06016-00	BOLT, FLANGE	1	

FUEL TANK

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-24110-11-00	FUEL TANK COMP.	1	
2	24X-24144-00-00	HOLDER, DAMPER	2	
3	95027-06016-00	BOLT, FLANGE	4	
4	90480-18549-00	GROMMET	2	
5	90387-06027-00	COLLAR	2	
6	90201-06697-00	WASHER, PLATE	2	
7	95027-06030-00	BOLT, FLANGE	2	
8	4EW-2412F-00-00	BRACKET, SEAT	1	
9	98707-06025-00	SCREW, FLAT HEAD	1	
10	5X7-24611-01-00	BODY, CAP	1	
11	5X7-24612-00-00	GASKET, CAP	1	
12	90445-09055-00	HOSE	1	
13	3XJ-24380-00-00	PIPE JOINT ASSEMBLY	1	
14	90445-097F7-00	HOSE	1	
15	4DP-24500-00-00	FUEL COCK ASSEMBLY 1 ...	1	
16	3AJ-24534-00-00	. SEAL, COCK	1	
17	98580-03008-00	. SCREW, PAN HEAD	2	
18	4X8-24512-00-00	. O-RING	1	
19	3AJ-24523-00-00	. VALVE PACKING	1	
20	90202-05187-00	WASHER, PLATE	2	
21	90149-06011-00	SCREW	2	
22	3Y0-24183-00-00	DAMPER, LOCATING 3	1	
23	4ES-24161-40-00	EMBLEM 1	1	
24	4ES-24311-10-00	PIPE, FUEL 1	1	
25	90467-10008-00	CLIP	2	
26	51L-28371-00-00	DAMPER	1	



4ES6100-7220



SEAT

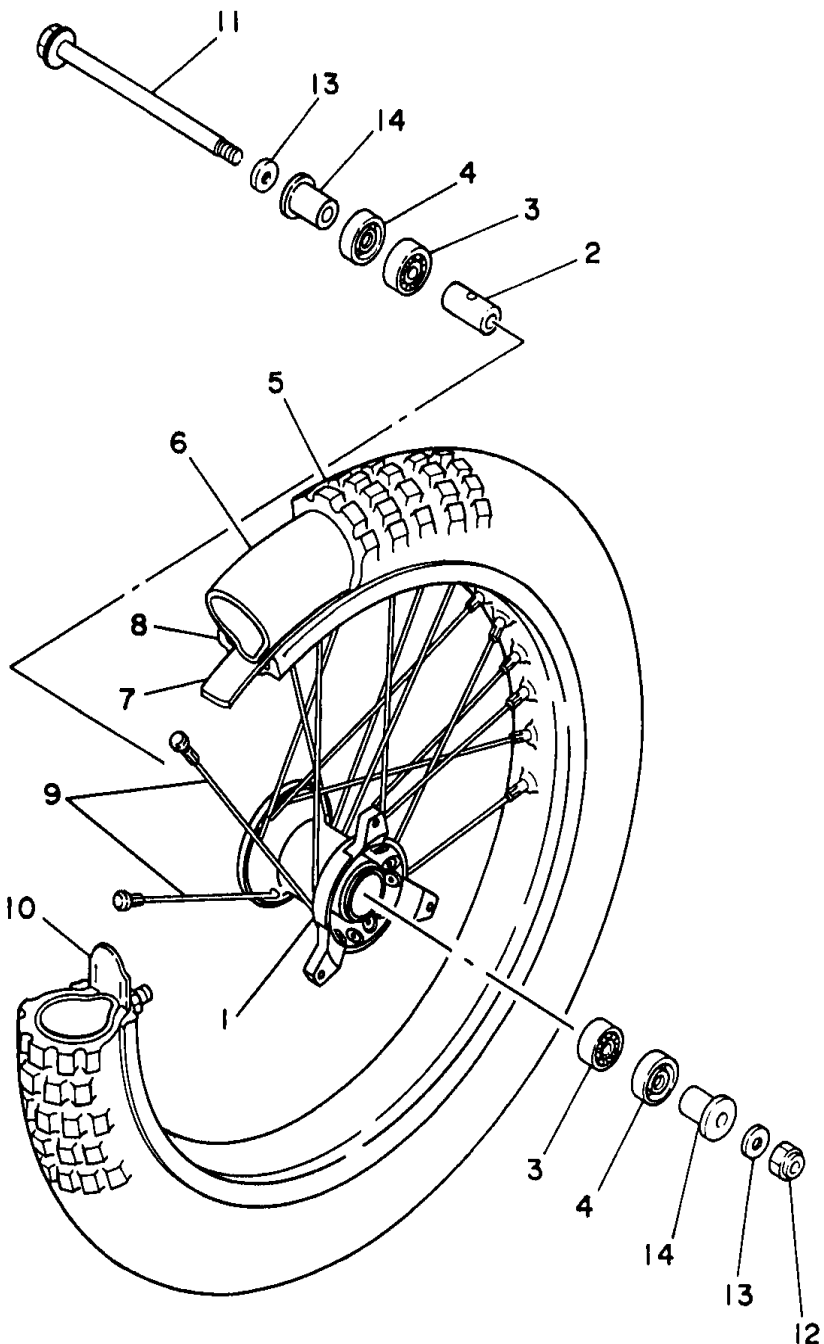
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-24770-20-00	SEMI-DOUBLE SEAT ASSEMBLY	1	
2	4ES-24731-20-00	. COVER, SEAT	1	
3	4ES-24728-00-00	. BRACKET, SEAT	2	
4	95027-06012-00	. BOLT, FLANGE	4	
5	90119-06225-00	BOLT, WITH WASHER	2	



4ES6100-7230

FRONT WHEEL

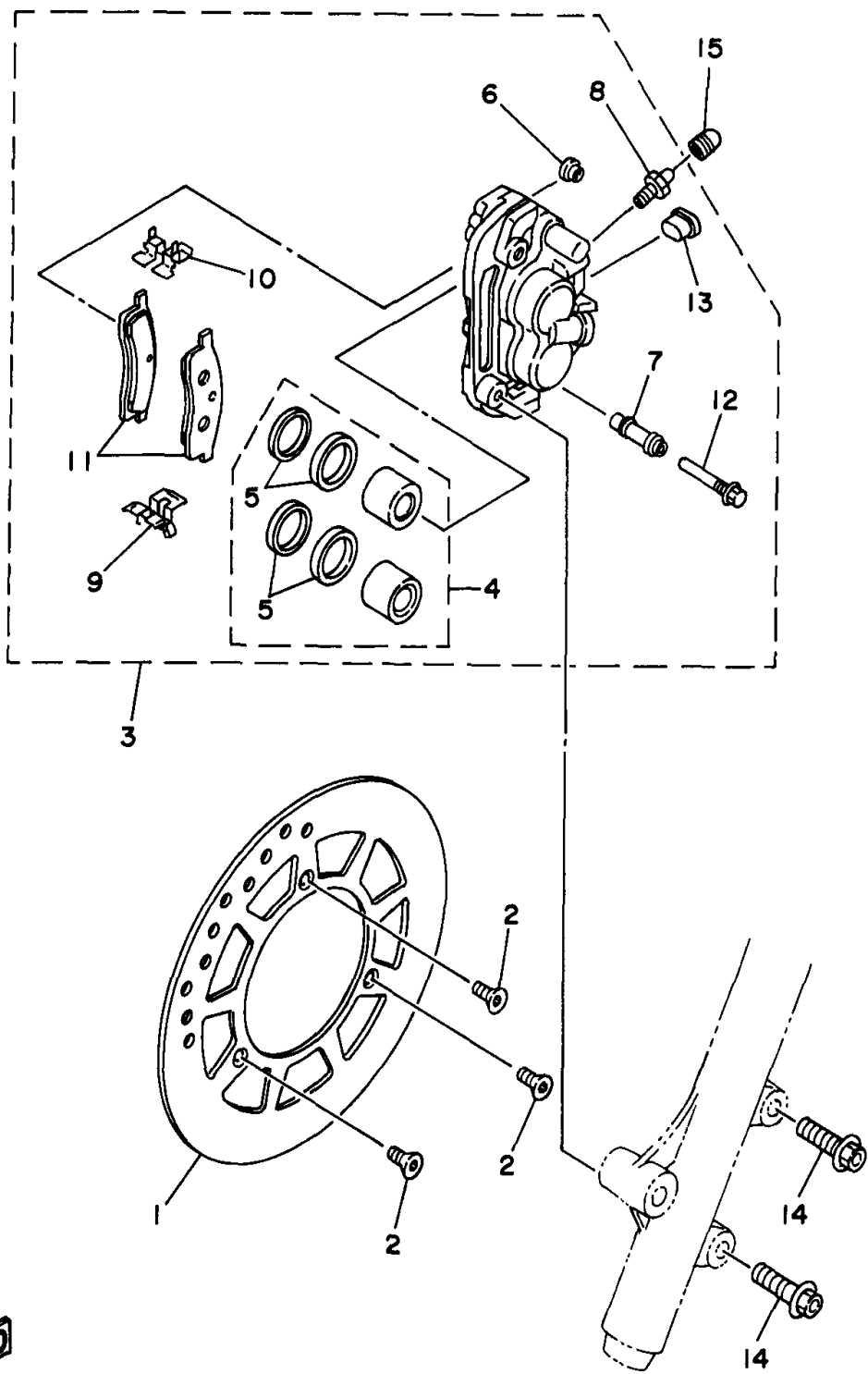
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-25111-00-00	HUB, FRONT	1	
2	90387-124H0-00	COLLAR	1	
3	93306-20117-00	BEARING	2	
4	93106-20031-00	OIL SEAL	2	
5	94170-171K8-00	TIRE (70/100-17 40M K490) (94107-177Y5-00)	1	UR DUNLOP
6	94207-17284-00	TUBE (70/100-17 TR4)	1	UR DUNLOP
7	94307-17166-00	BAND, RIM (80/90, 70/100-17) .	1	UR DUNLOP
8	94414-17530-00	RIM (1.40-17)	1	UR
9	4ES-25104-20-00	SPOKE SET, FRONT	1	UR
10	1T1-25194-00-00	SPACER, BEAD	1	
11	4ES-25181-00-00	AXLE, WHEEL	1	
12	90185-12046-00	NUT, SELF-LOCKING	1	
13	90201-12362-00	WASHER, PLATE	2	
14	4ES-25183-10-00	COLLAR, WHEEL	2	



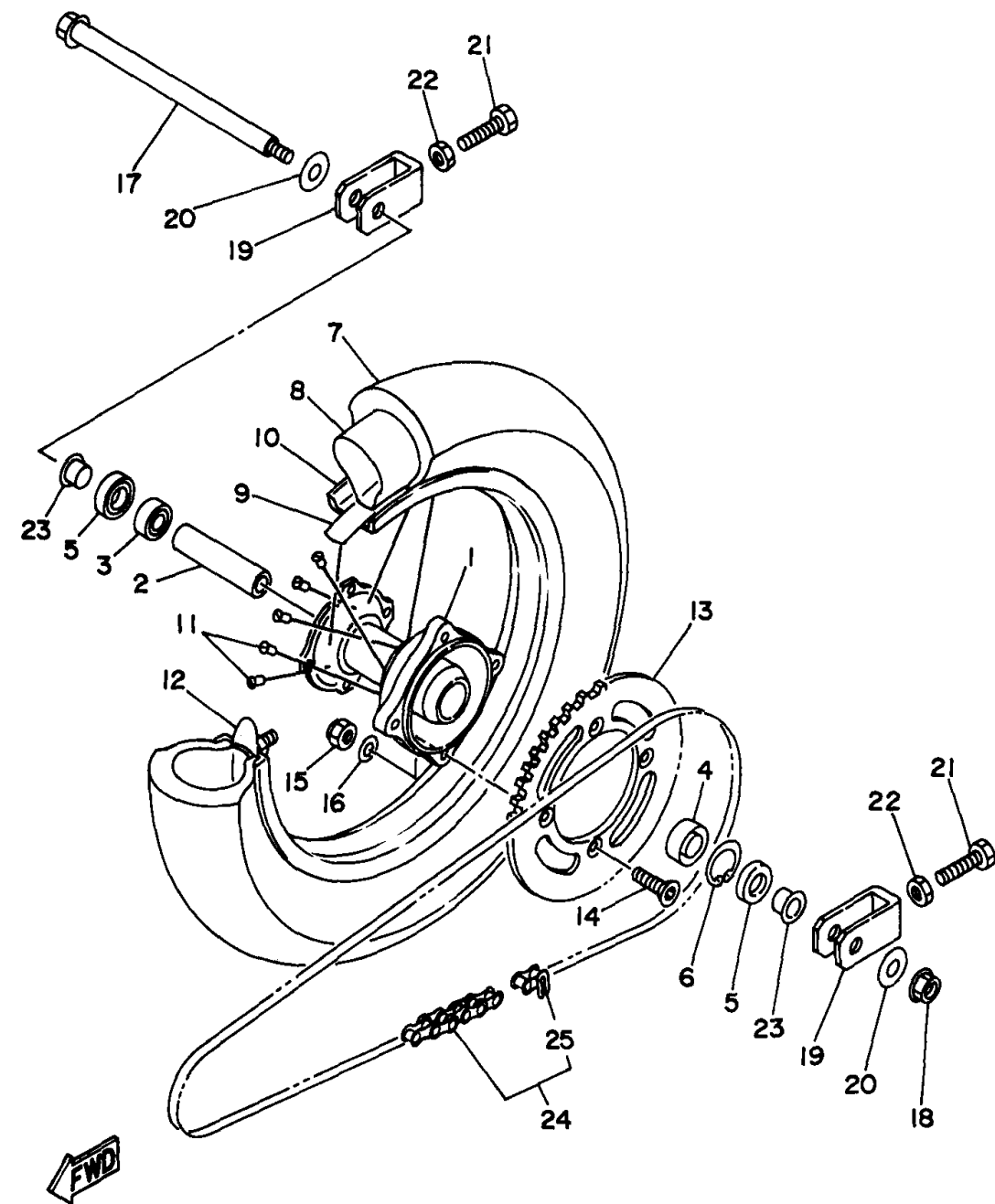

4ES1100-3240

FRONT BRAKE CALIPER

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-2582T-00-00	DISC, BRAKE	1	
2	90149-06272-00	SCREW	3	
3	4ES-2580T-10-00	CALIPER ASSEMBLY (LEFT) ..	1	
4	4ES-W0057-00-00	. PISTON ASSEMBLY, CALIPER	1	
5	4ES-W0047-00-00	. . CALIPER SEAL KIT	1	
6	5R2-25937-00-00	. BOOT 2	1	
7	56A-25937-00-00	. BOOT 2	1	
8	47X-25824-00-00	. SCREW, BLEED	1	
9	56A-25919-00-00	. SUPPORT, PAD	1	
10	56A-25919-10-00	. SUPPORT, PAD	1	
11	4ES-W0045-10-00	. BRAKE PAD KIT	1	
12	56A-25926-00-00	. BOLT	1	
13	34X-25845-00-00	. CAP, INDICATOR	1	
14	90105-08211-00	BOLT, WASHER BASED	2	
15	51L-25825-00-00	CAP	1	



4ES3100-4250



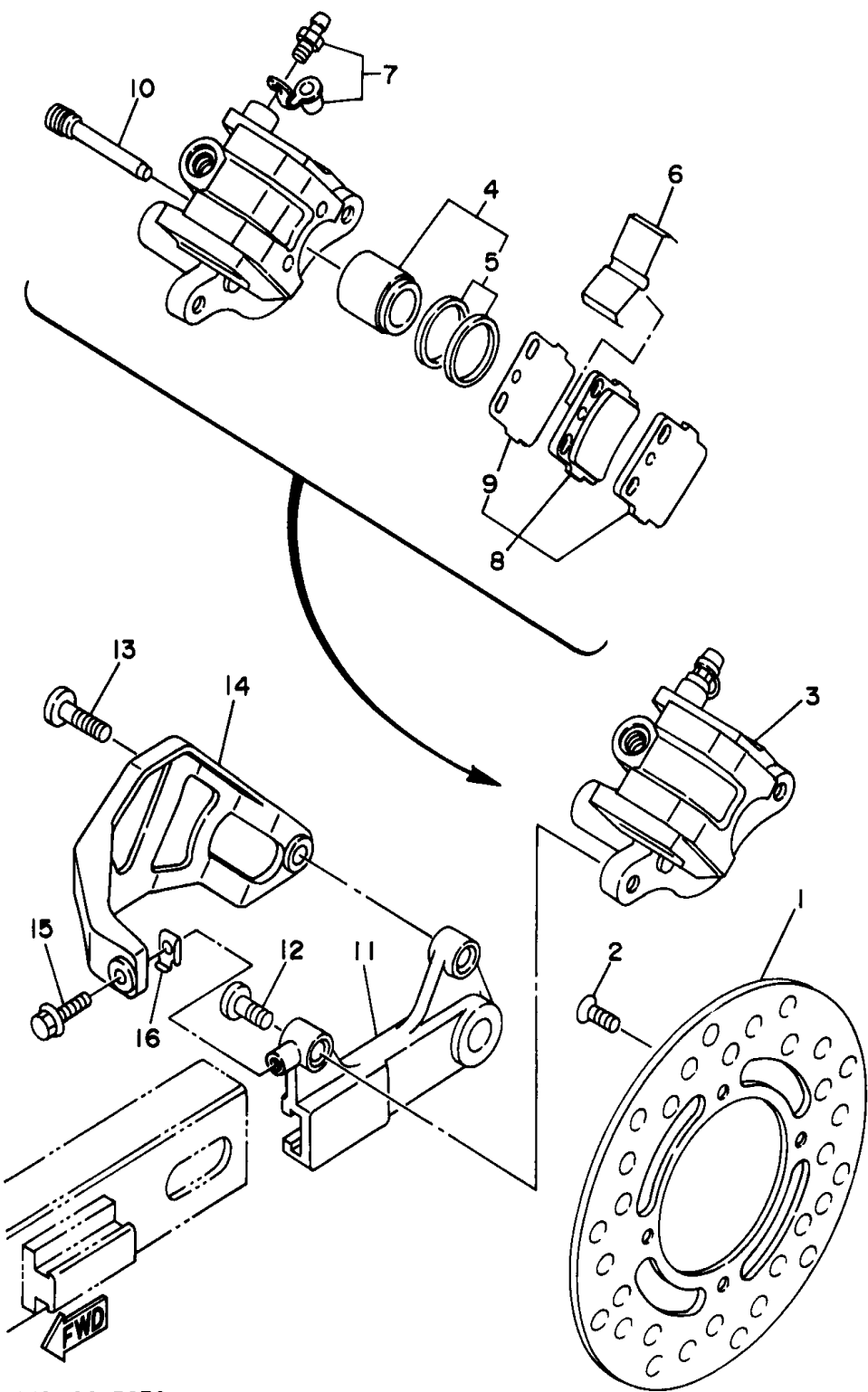
4ES1100-3260

REAR WHEEL

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-25311-00-00	HUB, REAR	1	
2	4ES-25383-00-00	COLLAR, WHEEL	1	
3	93306-00201-00	BEARING (B6002-ZZC3)	1	
4	93306-20204-00	BEARING (B6202Z)	1	
5	93102-20009-00	OIL SEAL	2	
6	99009-35500-00	CIRCLIP	1	
7	94190-141K5-00	TIRE (90/100-14 49M K695) (94109-147Y6-00)	1	UR DUNLOP
8	94208-14285-00	TUBE (80-90/100-14 TR4)	1	UR DUNLOP
9	94308-14165-00	BAND, RIM (80-90/100-14)	1	UR DUNLOP
10	94416-14529-00	RIM (1.60-14)	1	UR
11	4ES-25304-20-00	SPOKE SET, REAR	1	UR
12	5X2-25394-00-00	SPACER, BEAD	1	UR
13	4ES-25446-00-00	SPROCKET, DRIVEN (46T) ...	1	AP
	4ES-25447-20-00	SPROCKET, DRIVEN (47T) ...	1	STD
	4ES-25448-00-00	SPROCKET, DRIVEN (48T) ...	1	AP
14	90109-081G2-00	BOLT	4	
15	95617-08100-00	NUT, U	4	
16	90201-086P8-00	WASHER, PLATE	4	
17	4ES-25381-01-00	AXLE, WHEEL	1	
18	95607-14200-00	NUT, SELF-LOCKING	1	
19	4ES-25388-00-00	PULLER, CHAIN 1	2	
20	90201-161R1-00	WASHER, PLATE	2	
21	90101-08777-00	BOLT	2	
22	95317-08700-00	NUT	2	
23	4ES-25383-10-00	COLLAR, WHEEL	2	
24	9Y581-58117-00	CHAIN (DID428G2 118L)	1	UR
25	94681-58001-00	. JOINT, CHAIN	1	

REAR BRAKE CALIPER

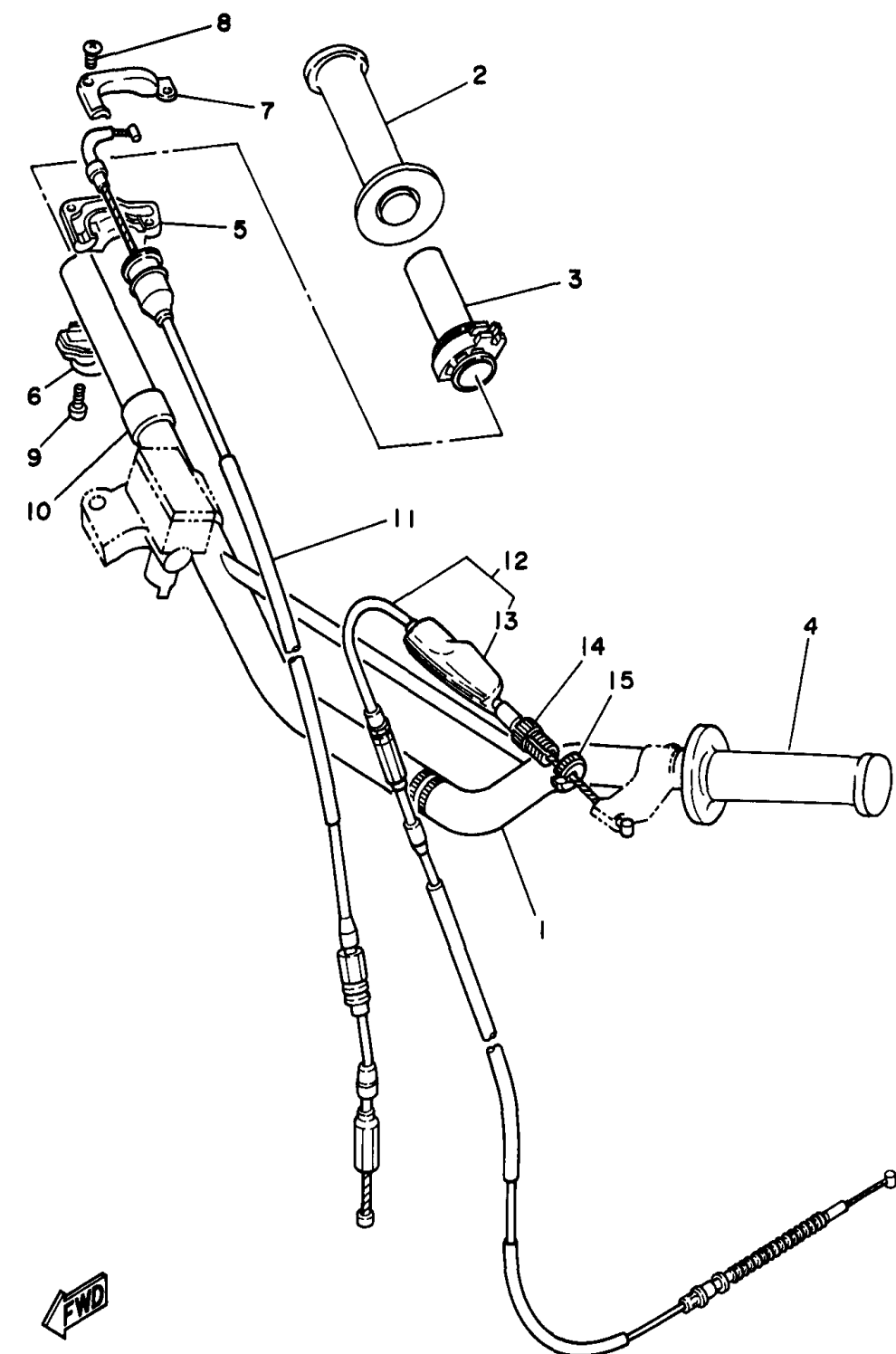
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-2582W-00-00	DISC, REAR BRAKE 2	1	
2	90149-06272-00	SCREW	4	
3	4ES-2580W-00-00	CALIPER ASSEMBLY, REAR 2	1	
4	4ES-W0057-00-00	. PISTON ASSEMBLY, CALIPER	1	
5	4ES-W0047-00-00	. . CALIPER SEAL KIT	1	
6	1UY-25919-51-00	. SUPPORT, PAD	1	
7	36Y-W0048-00-00	. BLEED SCREW KIT	1	
8	4ES-W0046-50-00	. BRAKE PAD KIT 2	1	
9	3GD-25827-00-00	. . SHIM, CALIPER	1	
10	3GD-25933-00-00	. PIN, PAD	2	
11	4ES-25920-00-00	SUPT. BRKT. ASSEMBLY.	1	
12	90110-08096-00	BOLT, HEXAGON SOCKET HEAD	1	
13	90109-08718-00	BOLT	1	
14	4ES-27491-00-00	PROTECTOR	1	
15	95027-06012-00	BOLT, FLANGE	1	
16	4ES-27114-00-00	STOPPER, MAIN STAND	1	



4ES1100-3270

STEERING HANDLE - CABLE

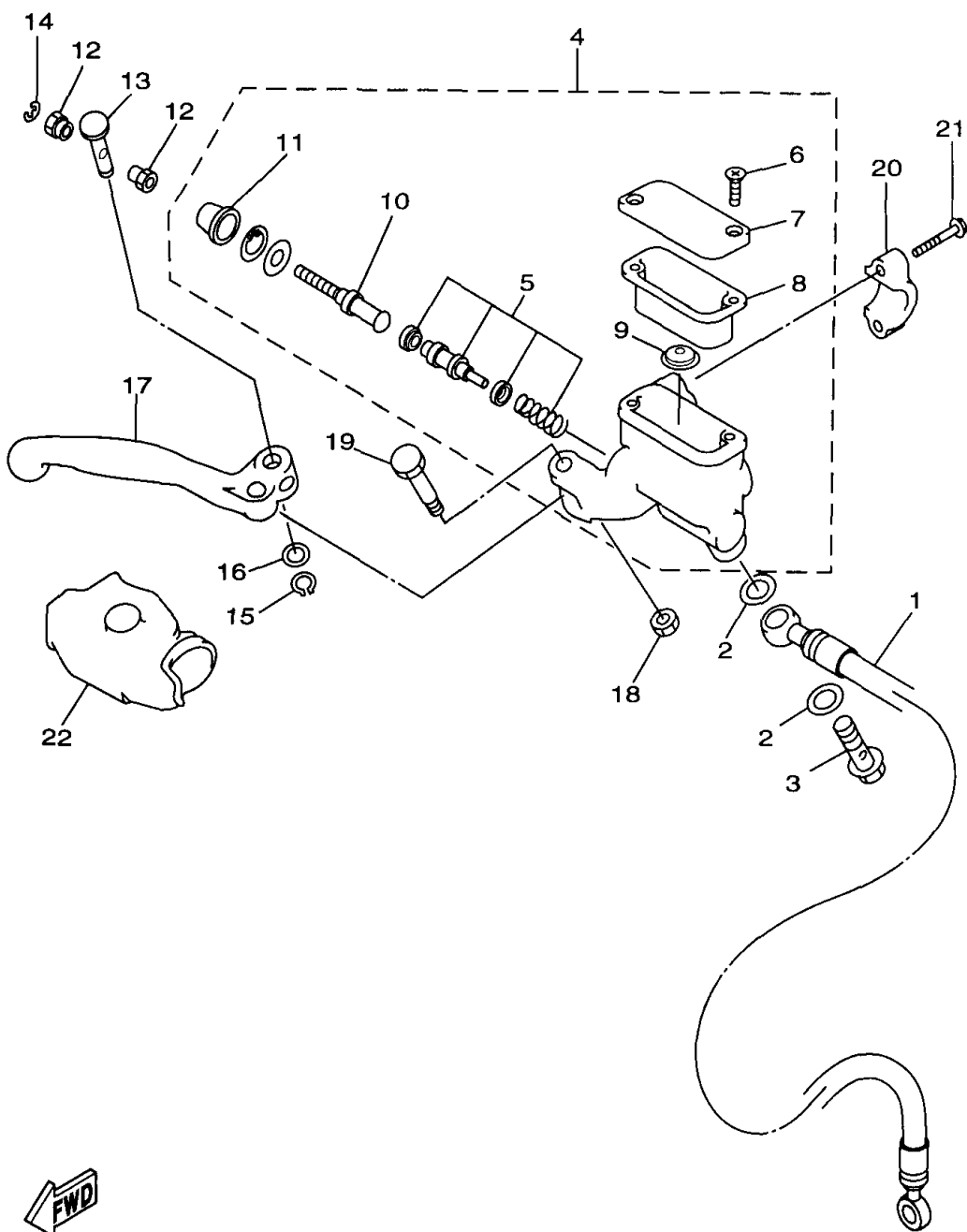
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-26111-30-00	HANDLEBAR	1	
2	4GY-26242-00-00	GRIP (RIGHT)	1	
3	22W-26243-00-00	TUBE, THROTTLE GUIDE	1	
4	4GY-26241-00-00	GRIP (LEFT)	1	
5	5X2-26281-00-00	CAP, GRIP UPPER	1	
6	322-26282-00-00	CAP, GRIP LOWER	1	
7	5X2-2628H-01-00	CAP, WIRE	1	
8	98707-04012-00	SCREW, FLAT HEAD	2	
9	98507-05016-00	SCREW, PAN HEAD	2	
10	90387-220G4-00	COLLAR	1	
11	4ES-26311-00-00	CABLE, THROTTLE 1	1	
12	4ES-26335-11-00	CABLE, CLUTCH	1	
13	498-26372-00-00	. COVER, HANDLE LEVER 1 ..	1	
14	90123-08013-00	BOLT	1	
15	90179-08148-00	NUT	1	



4ES6100-7280

FRONT MASTER CYLINDER

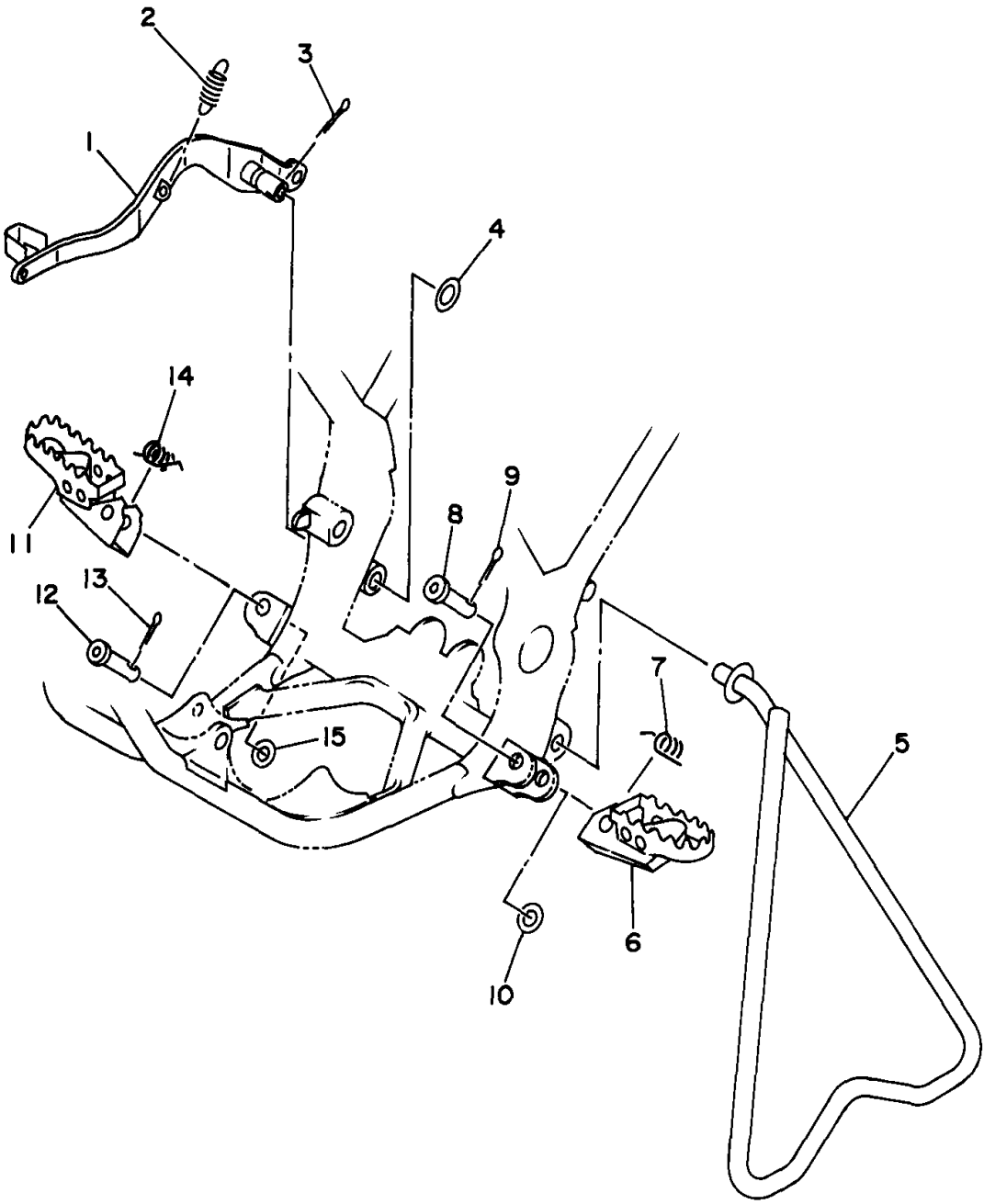
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-25872-02-00	HOSE, BRAKE 1	1	
2	90201-10118-00	WASHER, PLATE	4	
3	90401-10159-00	BOLT, UNION	2	
4	4SS-W2587-00-00	MASTER CYLINDER SUB ASSEMBLY	1	
5	4SS-W0041-00-00	. CYLINDER KIT, MASTER	1	
6	98707-04012-00	. SCREW, FLAT HEAD	2	
7	4SS-25852-00-00	. CAP, RESERVOIR	1	
8	4SS-25854-00-00	. DIAPHRAGM, RESERVOIR ..	1	
9	4SS-25889-00-00	. SEPARATOR ASSEMBLY ...	1	
10	4SS-25880-00-00	. PUSH ROD COMP.	1	
11	4SS-25868-00-00	. BOOT, MASTER CYLINDER ..	1	
12	4SS-2538E-00-00	NUT, ADJUSTING	2	
13	4SS-83913-00-00	COLLAR, LEVER 1	1	
14	3YX-25866-10-00	CIRCLIP	1	
15	4SS-25866-00-00	CIRCLIP	1	
16	4SS-2583G-00-00	WASHER	1	
17	4SS-83922-00-00	LEVER 2	1	
18	95617-06100-00	NUT, U	1	
19	4SS-2589F-00-00	BOLT, LEVER	1	
20	3YK-25867-00-00	BRACKET, MASTER CYLINDER	1	
21	4SS-25833-00-00	BOLT, FITTING	2	
22	4SS-26372-00-00	COVER, HANDLE LEVER 1 ...	1	



4ES6100-7290

STAND - FOOTREST

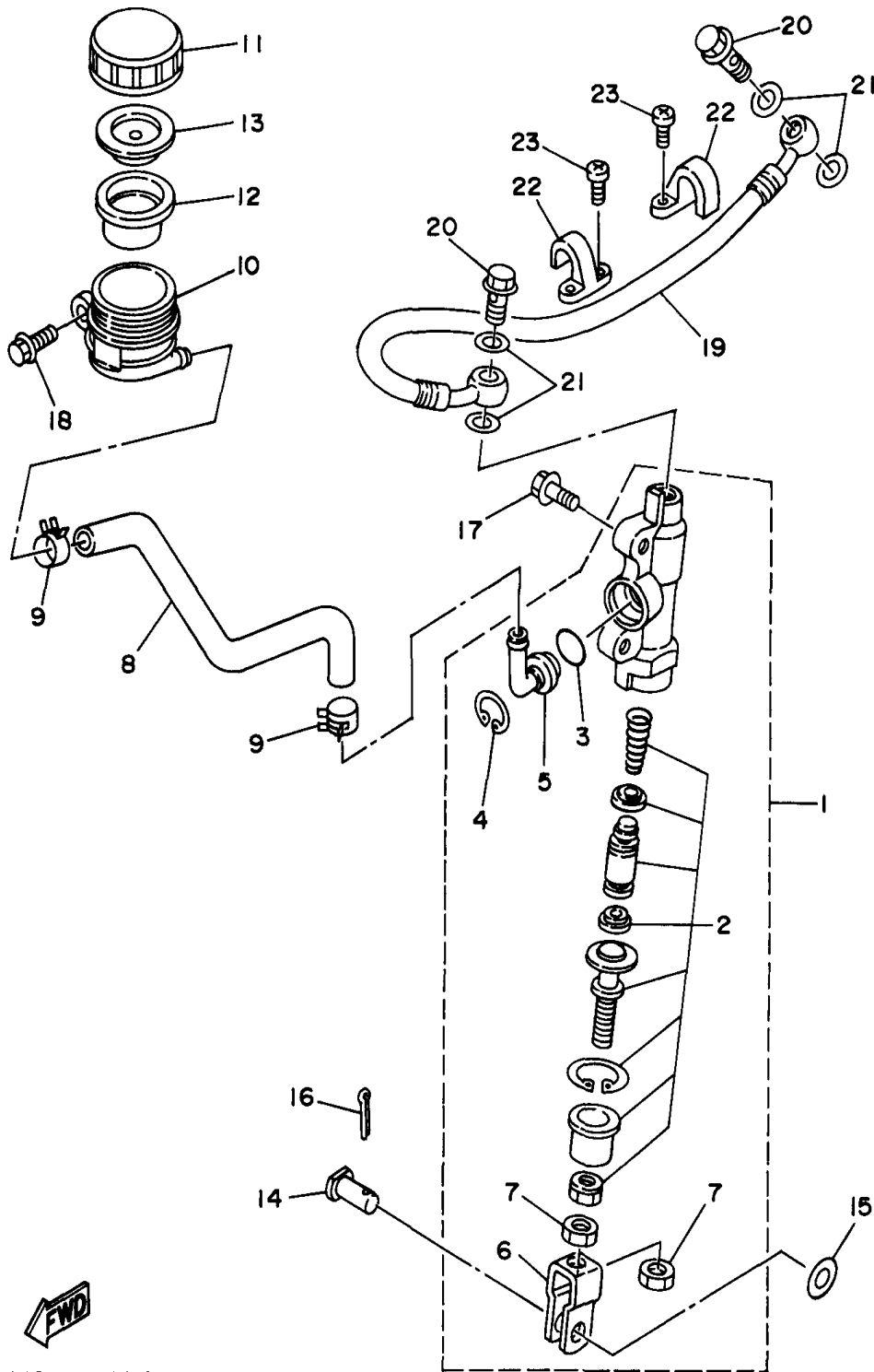
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-27211-00-00	PEDAL, BRAKE	1	
2	90506-15480-00	SPRING, TENSION	1	
3	91490-20035-00	PIN, COTTER (91401-20030-00)	1	
4	90201-154E8-00	WASHER, PLATE (1.0T)	1	
5	4ES-27311-00-00	STAND, SIDE	1	UR
6	3LD-27411-00-00	FOOTREST 1	1	
7	90508-28777-00	SPRING, TORSION	1	
8	90240-10117-00	PIN, CLEVIS	1	
9	91490-25020-00	PIN, COTTER	1	
10	90201-10119-00	WASHER, PLATE	1	
11	4DA-27421-00-00	FOOTREST 2	1	
12	90240-10117-00	PIN, CLEVIS	1	
13	91490-25020-00	PIN, COTTER	1	
14	90508-28777-00	SPRING, TORSION	1	
15	90201-10119-00	WASHER, PLATE	1	



4ES1100-3300

REAR MASTER CYLINDER

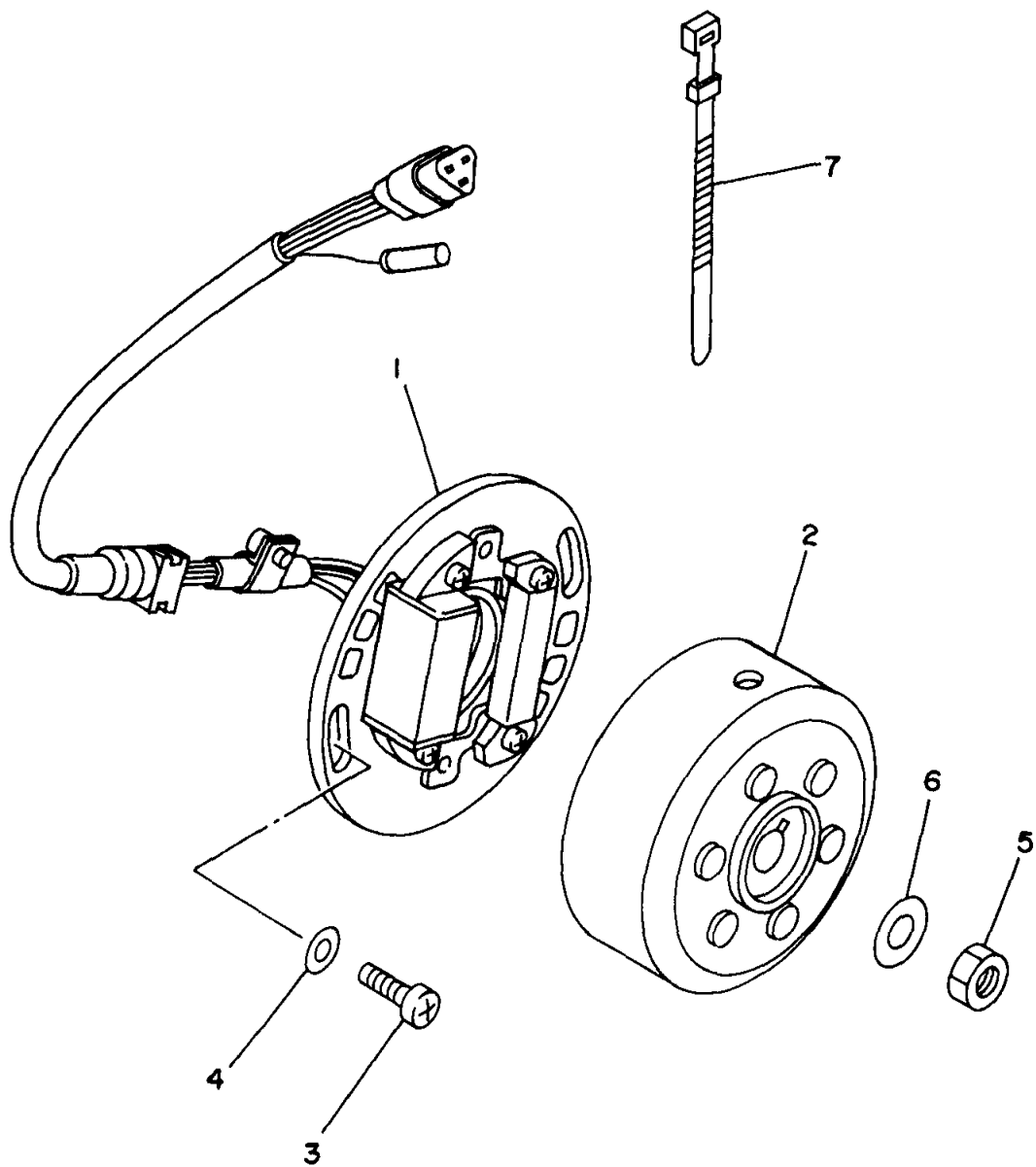
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-2583V-00-00	RR. MASTER CYLINDER ASSEMBLY.	1	
2	1FK-W0042-50-00	. CYLINDER KIT, MASTER	1	
3	93210-15620-00	. O-RING	1	
4	2VN-25866-00-00	. CIRCLIP	1	
5	2VN-2582A-50-00	. JOINT	1	
6	2YK-27222-00-00	. JOINT	1	
7	95337-08600-00	. NUT (95307-08600-00)	2	
8	4ES-25895-00-00	HOSE, RESERVOIR	1	
9	90467-11044-00	CLIP	2	
10	4EW-25894-00-00	TANK, RESERVOIR	1	
11	3XP-25852-50-00	CAP, RESERVOIR	1	
12	2VN-25854-00-00	DIAPHRAGM, RESERVOIR ...	1	
13	2VN-25855-00-00	BUSH, DIAPHRAGM	1	
14	90240-08124-00	PIN, CLEVIS	1	
15	90201-08083-00	WASHER, PLATE	1	
16	91490-16020-00	PIN, COTTER	1	
17	95027-06016-00	BOLT, FLANGE	2	
18	95027-06012-00	BOLT, FLANGE	1	
19	4ES-25873-00-00	HOSE, BRAKE 2 (4ES-25873-01-00)	1	UR
20	90401-10159-00	BOLT, UNION	2	
21	90201-10118-00	WASHER, PLATE	4	
22	2VM-25876-00-00	HOLDER, BRAKE HOSE 2	2	
23	97780-50110-00	SCREW, TAPPING	4	



4ES1100-3310

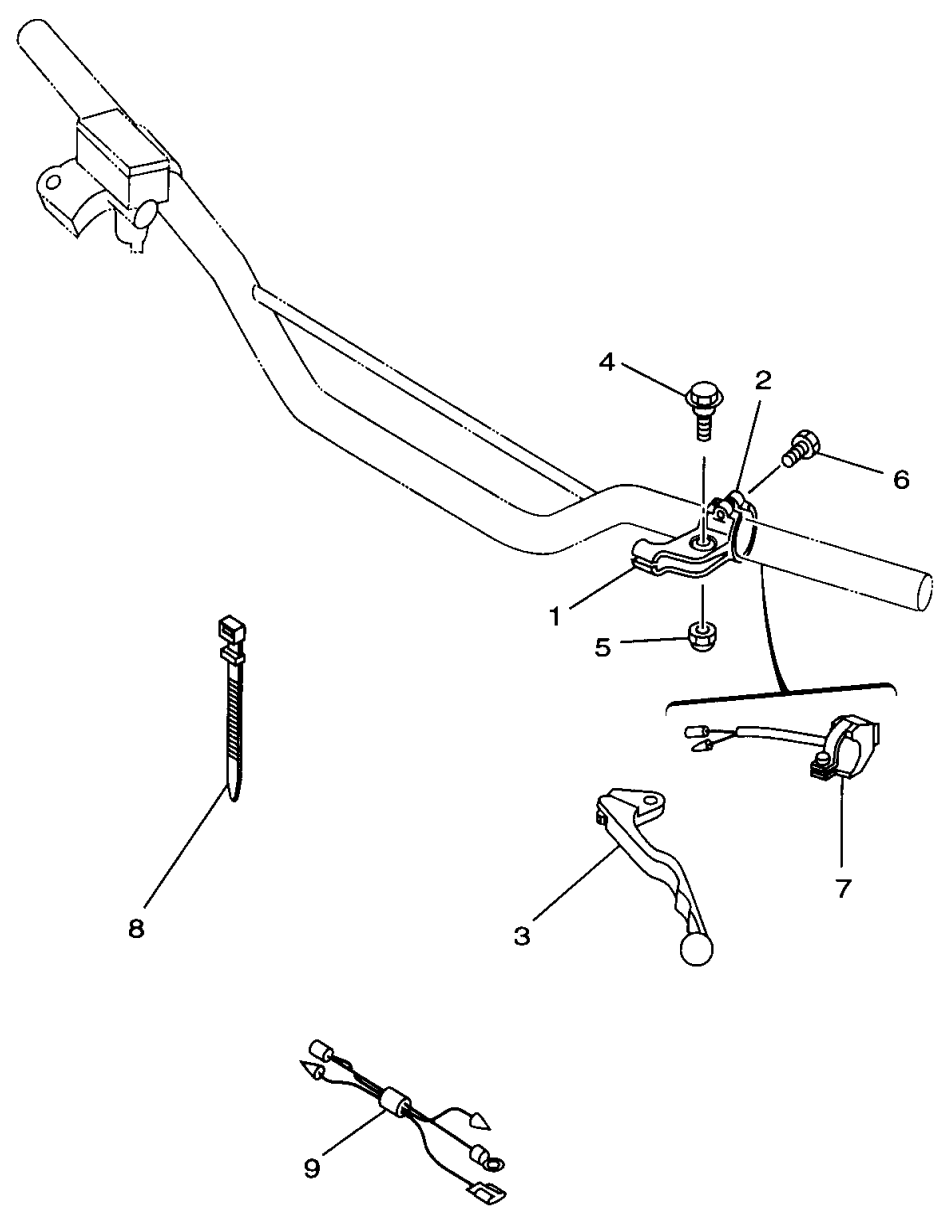
GENERATOR

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-85510-20-00	STATOR ASSEMBLY	1	
2	4ES-85550-10-00	ROTOR ASSEMBLY	1	
3	98507-06016-00	SCREW, PAN HEAD	2	
4	92907-06600-00	WASHER, PLATE	2	
5	95317-10600-00	NUT	1	
6	90201-10774-00	WASHER, PLATE	1	
7	437-83936-01-00	BAND, SWITCH CORD	3	



4GT3300-4320

HANDLE SWITCH - LEVER



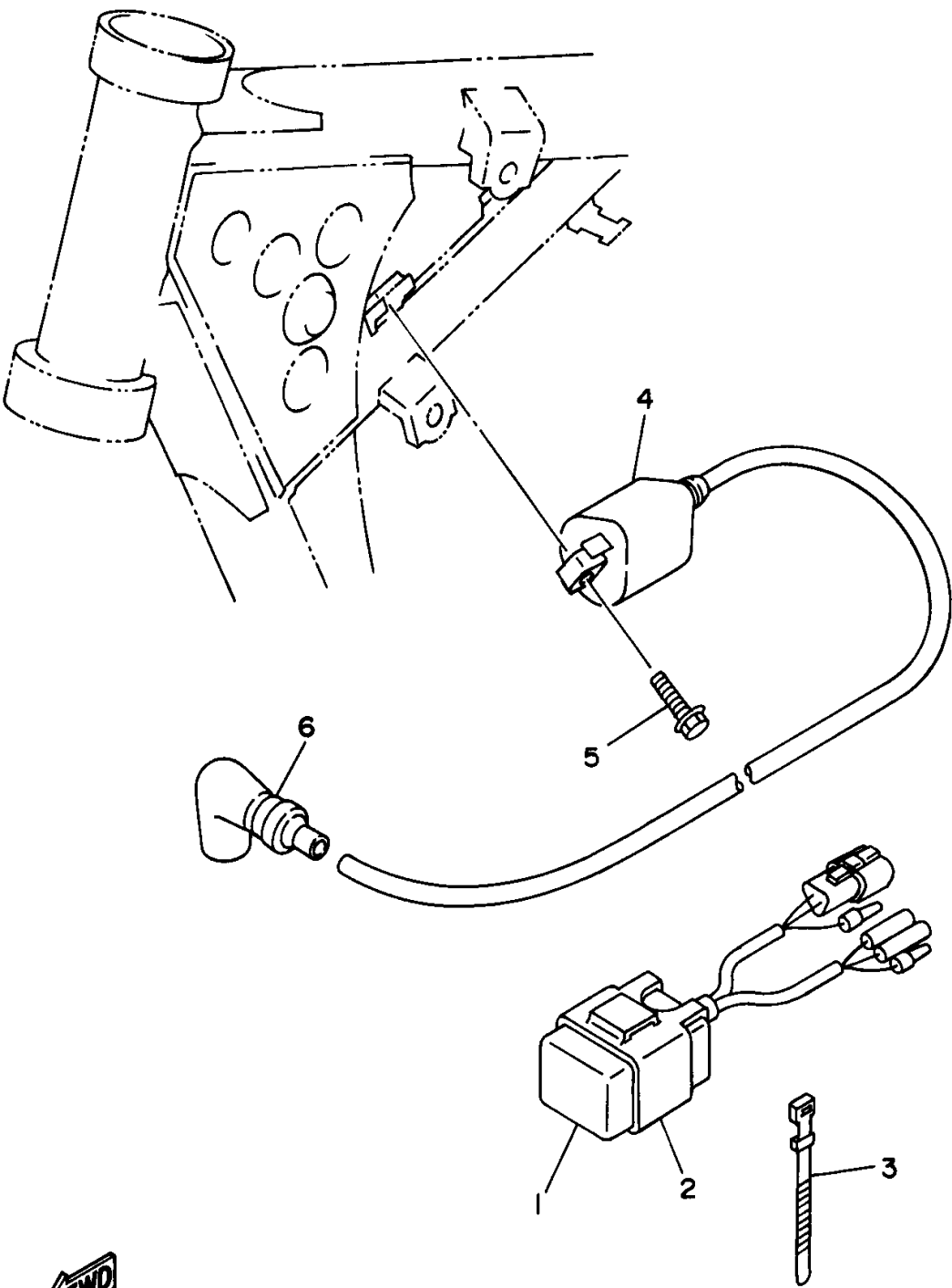
Ref. No.	Part Number	Description	Qty	Remarks
1	38V-82911-00-00	HOLDER, LEVER 1	1	
2	38V-82913-00-00	HOLDER, LEVER LOWER 1 ...	1	
3	4GY-83912-00-00	LEVER 1	1	
4	90109-06799-00	BOLT	1	
5	95617-06100-00	NUT, U	1	
6	97007-05016-00	BOLT	2	
7	23X-83976-00-00	SWITCH, HANDLE 1	1	
8	437-83936-01-00	BAND, SWITCH CORD	2	
9	4ES-82509-00-00	WIRE, SUB LEAD	1	



4ES6100-7330

ELECTRICAL 1

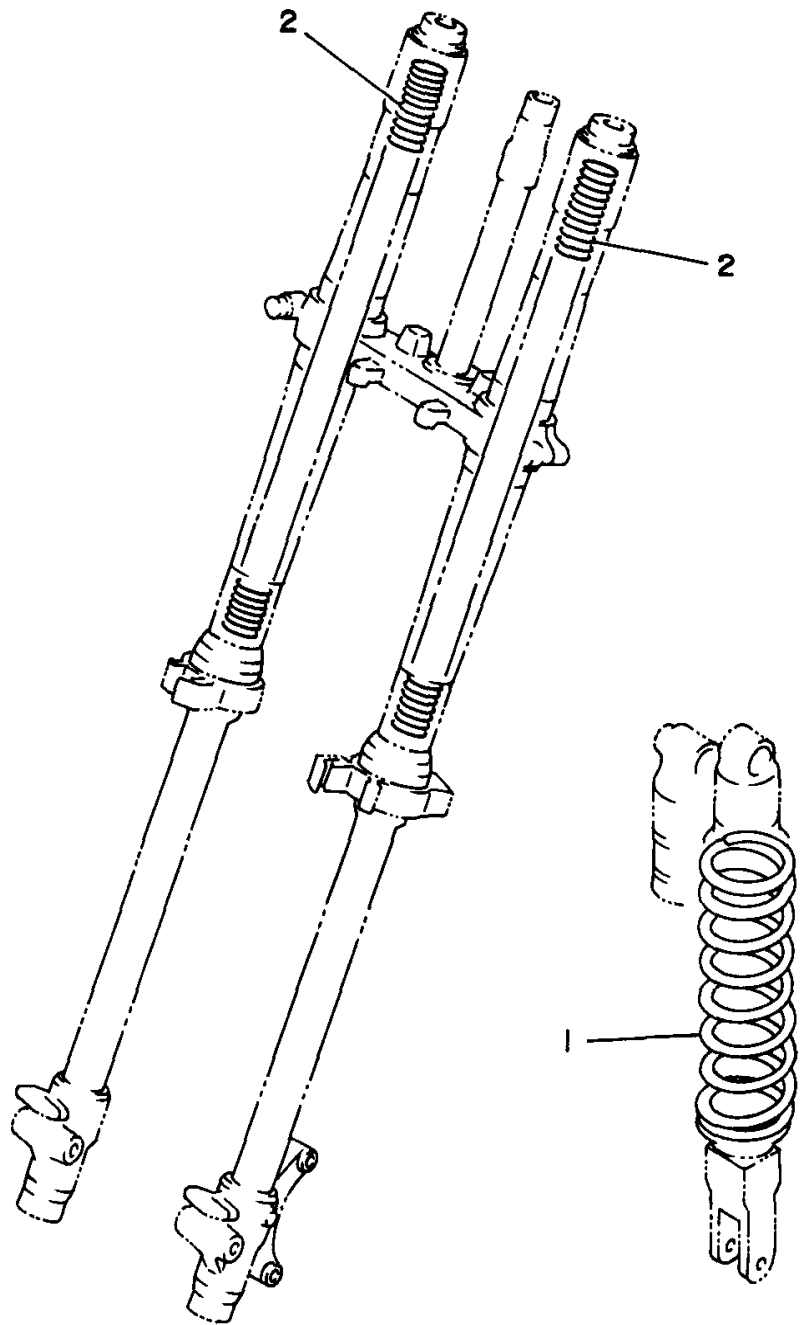
Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-85540-20-00	C.D.I. UNIT ASSEMBLY	1	
2	2A7-85546-00-00	BAND	1	
3	437-83936-11-00	BAND, SWITCH CORD	1	
4	4KJ-82310-00-00	IGNITION COIL ASSEMBLY ...	1	
5	95027-06016-00	BOLT, FLANGE	2	
6	81E-82370-20-00	PLUG CAP ASSEMBLY	1	



4ES6100-7340

CHASSIS (ALTERNATE)

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-22212-B0-00	SPRING (K=5.0)	1	AP (SOFT)
	4ES-22212-C0-00	SPRING (K=4.8)	1	AP (SOFT)
	4ES-22212-D0-00	SPRING (K=5.2)	1	AP (HARD)
2	4ES-23141-40-00	SPRING, FRONT FORK (K=0.29)	2	AP (SOFT)
	4ES-23141-50-00	SPRING, FRONT FORK (K=0.28)	2	AP (SOFT)
	4ES-23141-60-00	SPRING, FRONT FORK (K=0.30)	2	AP (HARD)



4ES1100-3350

REPAIR KIT

Ref. No.	Part Number	Description	Qty	Remarks
1	4ES-11630-01-00	PISTON ASSEMBLY (STD) . . .	1	
2	4ES-11631-01-B0	. PISTON (STD)	1	
3	43K-11611-00-00	. RING, PISTON	1	
4	4ES-11633-00-00	. PIN, PISTON	1	
5	93450-16115-00	. CIRCLIP	2	
6	4ES-11650-01-00	CONNECTING ROD ASSEMBLY	1	
7	4ES-11651-01-00	. ROD, CONNECTING	1	
8	93310-320T3-00	. BEARING	1	
9	2RA-11681-00-00	. PIN, CRANK 1	1	
10	90209-20159-00	. WASHER	2	
11	93310-21403-00	. BEARING	1	KOYO



MOTORCYCLE

12/21/94

M94-008

TECH EXCHANGE

SUBJECTS: 1. Oxygenated Fuels
2. Crease in YZ250G1/WR250ZG Silencer
3. Warranty Authorization Procedures
4. Warranty Transfer Fee Dropped

Oxygenated Fuels

Beginning in 1992, all gasoline sold during the winter months (usually October through February) in 39 designated metropolitan areas (and all of California) must be oxygenated as mandated by the 1990 Amendments to the Federal Clean Air Act. The purpose of the oxygenated fuel is to reduce the amount of carbon monoxide in the air. Internal combustion engines tend to emit more carbon monoxide at low operating temperatures such as when first started and during longer warm-up times in the colder, winter months.

The following information is provided to clarify some concerns that customers and dealers may have about the use of oxygenated fuels in Yamaha motorcycles.

What is "Oxygenated Gasoline"?

Oxygenated gasoline is a blend of gasoline and one or more combustible liquids containing oxygen. Presently, two different classes of oxygenates are being added to gasoline: alcohol (both ethanol and methanol) and ethers (methyl tertiary-butyl-ether; MTBE). The oxygen content of the gasoline must be 2.7%.

Can oxygenated fuels be used in Yamaha motorcycles?

Oxygenated fuel can be used in Yamaha **street, dual-purpose, and off-road/play bike** motorcycles. This tech exchange addresses concerns regarding its use.

NOTE: Do not use oxygenated gasoline or, for that matter, any pump gasoline in Yamaha YZ or WR motorcycles. These models require racing fuel with a minimum octane rating of 95. For more information about recommended fuel for YZ and WR models, refer to the Owner's Service Manual for that model.

Service, Storage, Usage Information PRACTICE GOOD FUEL MANAGEMENT. . .

Don't worry about instructing customers about testing or identifying oxygenated fuel. If they are in one of the mandated areas, oxygenated fuel is all they can purchase. Instead, educate your customers about oxygenated gasoline using the following tips:

- Match gasoline purchases to consumption. Don't buy more than will be used in one month.
- Store gasoline in a tightly-closed, approved container in a cool, dry place.
- Drain the fuel tank when you store your motorcycle for the off-season.

NOTE: Yamaha Ring Free Fuel Additive can be used with all oxygenated gasoline and is recommended for use in all Yamaha engines. For more information about Ring Free, refer to Technical Bulletin M92-007.

Carburetor Jetting

Yamaha's recommended jetting specifications are correct for use with oxygenated fuels. Poor performance and/or possible engine damage could result if you use a jet size smaller (leaner) than recommended on the Service Data or in the Service Manual.

Fuel Deicers Water Absorbing Additives

If the oxygenated gasoline being used contains an alcohol blend, **do not use** additional alcohol deicers or water absorbing additives. If there is water in the fuel tank prior to refueling, **do not use** oxygenated gasoline until all water has been removed from the tank.

Oxygenated Fuels - (Cont'd.)

If water is present in the fuel, additives combined with the alcohol in the oxygenated fuel will cause the alcohol in the fuel to separate, causing poor performance and possible engine damage.

Storage

Drain the gasoline from the tank and carburetors if the motorcycle will be stored for more than a month.

Leaving oxygenated gasoline in a motorcycle during storage is undesirable because the fuel can corrode metal parts. Also, alcohol oxygenated gasoline will absorb moisture from the air, resulting in phase separation and the problems associated with it.

⚠WARNING

Gasoline and oxygenated gasoline are **extremely flammable and can be explosive under certain conditions. Follow the recommendations in the owner's and service manuals for handling and storing gasoline.**

Phase Separation

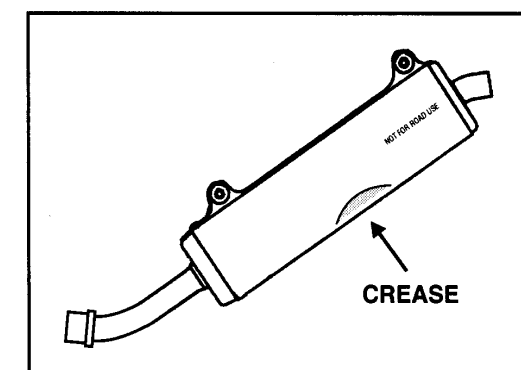
Although small amounts of water in the fuel will normally not affect or interfere with engine operation, problems can develop if too much water is present in alcohol oxygenated gasoline. If there is enough water in the oxygenated fuel, the alcohol and gasoline will separate into two liquid phases: a top phase or layer which is almost entirely gasoline, (and oil, in the case of 2-stroke premix fuel) and a bottom phase of water and alcohol. Phase separation makes the engine difficult or often impossible to start. Replace the separated fuel with fresh gasoline.

Parts Information

Part Number	Description	Remarks	Dealer Cost
ACC-RNGFR-EE-12	Ring Free Fuel Additive	Case/12	

Crease in Bottom of YZ250G1/WR250ZG Silencer

There is a crease about 4 inches long on the bottom of the silencer on the 1995 YZ250G1 and WR250ZG. This crease looks like crate damage, but this is not the case. The crease is for ample rear brake caliper clearance in case the rear suspension bottoms out. **This crease is not a defect. Do not** replace the silencer. No warranty applies.



Warranty Authorization Procedures

A reminder! The need for an authorization is now based on **total repair cost**, not on particular components. Simply add up the total warranty repair cost, including the dealer cost of parts, your parts handling charge, and the labor at your approved labor rate. If the total is:

- \$500 or less - no authorization is needed
- Over \$500 - call your toll-free RTA Hotline for authorization

Also, an autho is now easier to remember. Now instead of a lot of letters and numbers, all you have to remember is a three number combination like 695.

You no longer have to worry about accidentally getting your authorization with the wrong warranty request. You'll now enter the authorization number on your request, even if you use DOES PLUS.

Warranty Transfer Fees Dropped!

Yamaha's factory warranty has always been a strong selling point, even more so now that Y.E.S. is available on so many models.

Now we've found a way to make that coverage even more valuable. **Beginning May 1, 1994,**

Yamaha dropped the fees for transfer of coverage to the new owner! You will no longer be charged the \$10 for an in-warranty transfer or \$25 for a Y.E.S. transfer.



MOTORCYCLE

3/1/95

M95-006

TECH EXCHANGE

SUBJECTS: 1. Reformulated Gasoline
2. Areas Exceeding Federal Ozone Standards

Reformulated Gasoline

Beginning January 1, 1995, extreme and severe non-ozone attainment cities are required to sell only reformulated gasoline (RFG) year round, not seasonally like Oxygenated fuels. Topic number 2 in this Tech Exchange contains a list of affected cities. Other serious, moderate, and marginal attainment areas will phase in this gasoline to fulfill their individual agendas for pollution abatement.

What is RFG?

As the name indicates, it is the next generation of fuels reformulated to reduce pollutants and protect the environment. The main focus of RFG is to reduce pollutants that affect the ozone, however, it will contain the same Oxygenates used in fuels that are currently being used (seasonally) in various mandated areas to lower CO emissions. Oxygenated fuels are primarily used between the months of October and February in these selected areas. The following table illustrates the major ingredients of RFG that will be reformulated and the environmental benefits of reformulation.

FOCUS OF FUEL REFORMULATING

Potential Reformulation

Reduce Sulfur
Reduce Benzene
Reduce Aromatics & Olefins
Reduce fuel volatility
Increase oxygen contents
Alter distillation characteristics
Deposit control additives

Environmental Benefits

Reduces acid rain, improves vehicle catalyst efficiency
Reduces incidence of cancer, reduces toxicity of emissions
Reduces photochemical reactivity/smog formation
Reduces evaporative emissions/smog formation
Reduces tailpipe/exhaust CO emissions, replaces toxic components
Control of evaporative & exhaust emissions
Reduce engine deposits, thus reducing exhaust emissions

Can Yamaha Products Operate On Reformulated Gasoline?

Extensive testing has been done on the affects of RFG on lubricity and material compatibility, **particularly with 2-stroke engines**. Results show no adverse affects or catastrophic failures when using RFG. Tests also indicate that no increase in service intervals beyond the existing Yamaha recommendations were necessary.

RUNNING CHARACTERISTICS WITH RFG

Because RFG contains oxygenates, the fuel mixture can lean-out slightly causing a rougher than normal idle. This can usually be corrected by small adjustments to the idle mixture screws. **Be sure to refer to your Yamaha technical specifications for correct fuel mixture settings! Use an engine exhaust gas analyzer where applicable.**

GUIDELINES FOR RFG USAGE

- Become familiar with the areas where RFG is sold. Normally the gas station will post a sign about the type of fuel they sell.
- Storage life of RFG is shorter than the fuel sold in the past. Treat stored fuel with Yamaha Fuel Stabilizer and Conditioner. Be sure to store gasoline in an approved container and place in a cool, dry place.
- In the case of large fuel tanks (such as in a boat or a large touring motorcycle), be sure to keep the tank completely full to prevent water accumulation. The expanding and contracting of the fuel causes air to enter the fuel tank. Water in the air will condense in the tank if the tank is not kept full.
- Be sure to use fresh fuel when doing a tune-up on any unit that has been in storage for a long time.

If you have technical tips you think other dealers could use, let us know. You'll receive credit in the Tech Exchange for ideas we use, and we'll send you an exclusive Yamaha Tech Exchange hat as our thanks.
Send your tips to: Yamaha Motor Corporation, U.S.A., Attn: Tech Exchange, P.O. Box 6555, Cypress, CA 90630

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Reformulated Gasoline (Cont'd.)

SUMMARY

More information will become available during the next year as RFG penetrates the market. If you want more information on gasoline, send for the technical manual, *Changes in Gasoline II* at:

Changes in Gasoline II
Technicians Manual
Downstream Alternatives, Inc.
PO Box 190
Bremen, IN 46506-0190

The cost of this manual is \$2.00 each.

Areas Exceeding Federal Ozone Standards

The following charts show the areas of the country that exceed the Federal Ozone Standards. The nine cities in the **Extreme and Severe** areas are required to start selling RFG during 1995. This program is optional in the other listed areas.

RFG FUEL AREAS EXCEEDING FEDERAL OZONE STANDARDS

Extreme Areas*	Moderate Areas	Marginal Areas	
Los Angeles*	Atlantic City, NJ	Albany, NY	South Bend, IN
	Bowling Green, KY	Allentown, PA-NJ	Stockton, CA
	Charleston, WV	Altoona, PA	Sussex County, DE
	Charlotte, NC-SC	Birmingham, AL	Tampa, FL
	Cincinnati, OH-KY-IN	Buffalo, NY	Waldo County, ME
	Cleveland, OH	Canton, OH	York, PA
	Dallas, TX	Columbus, OH	Youngstown, OH-Sharon, PA
	Dayton-Springfield, OH	Erie, PA	
	Detroit, MI	Essex County, NY	
	Grand Rapids, MI	Evansville, IN-KY	
	Greensboro, NC	Fayetteville, NC	
	Jefferson County, NY	Greenbrier County, WV	
	Kewaunee County, WI	Greenville-Spartanburg, SC	
	Knox County, ME	Hancock County, ME	
	Louisville, KY-IN	Harrisburg, PA	
	Memphis, TN-AR-MS	Indianapolis, IN	
	Miami, FL	Johnson City-Kingsport-Bristol, TN	
	Modesto, CA	Johnstown, PA	
	Nashville, TN	Kansas City, MO-KS	
	Pittsburgh, PA	Knoxville, TN	
	Portland, ME	Lake Charles, LA	
	Raleigh-Durham, NC	Lancaster, PA	
	Reading, PA	Lewiston, ME	
	Richmond, VA	Lexington, KY	
	Salt Lake City, UT	Lincoln County, ME	
	San Francisco-Oakland-San Jose, CA	Manchester, NH	
	Santa Barbara, CA	Montgomery, AL	
	Smyth County, VA	Norfolk, VA	
	St. Louis, MO-IL	Owensboro, KY	
	Toledo, OH	Paducah, KY	
	Visalia, CA	Poughkeepsie, NY	
	Worcester, MA	Scranton, PA	

*Nine cities with highest ozone levels designated extreme or severe will be required to implement reformulated gasoline programs in 1995. Other ozone non-attainment areas may elect to "opt-in" to this program.

Oxygenated Fuel Sold Seasonally in These Areas Exceeding Federal Carbon Monoxide Standards

Albuquerque, NM	Fairbanks, AK	Memphis, TN	Reno, NV
Anchorage, AK	Ft Collins, CO	Minneapolis, MN	Sacramento, CA
Baltimore, MD	Fresno, CA	Missoula, MT	San Diego, CA
Boston, MA	Grants Pass, OR	Modesto, CA	San Francisco, CA
Chico, CA	Greensboro, NC	New York/Northern NJ	Seattle, WA
Cleveland, OH	Hartford, CT	Philadelphia, PA	Spokane, WA
Colorado Springs, CO	Klamath County, OR	Phoenix, AZ	Stockton, CA
Denver/Boulder, CO	Las Vegas, NV	Portland, OR	Syracuse, NY
Duluth, MN	Los Angeles, CA	Provo/Orem, UT	Washington, DC
El Paso, TX	Medford, OR	Raleigh, NC	



MOTORCYCLE

6/28/95

M95-011

TECH EXCHANGE

SUBJECTS: 1. Tip for Removing and Installing Fasteners
2. New Warranty Labor Rate Change Request Form

Tip For Removing And Installing Fasteners

(The following Tech Exchange was submitted by Nelson Hughes of Peabody Int'l. In Houlton, ME.
Thanks Nelson! Your Tech Exchange hat is on the way!)

Applying Permatex® Water Based Valve Grinding Compound to the screwdriver tip when removing or installing hard-to-get-at or hard-to-remove fasteners will increase the grip of the screwdriver on the fastener making removal or

installation much easier. This is especially helpful where an impact driver cannot be used.

The recommended product is Permatex® #34B. It is available at most local auto parts suppliers.

New Warranty Labor Rate Change Request Form

The Warranty Department has recently introduced a new Warranty Labor Rate Change Request form. The old form was available only on special request from the Warranty Department. The new form is simpler and has a part number so you can order it from Yamaha Parts and Accessories. The part number is LIT-11791-02-95.

YAMAHA WARRANTY LABOR RATE CHANGE REQUEST

DEALERSHIP NAME _____ DEALER NUMBER _____

ADDRESS _____

CITY/STATE/ZIP _____

REASON FOR REQUEST (Check one box)

☐ New Setup ☐ Labor Rate Change ☐ Buy Out Of # _____

AMOUNT REQUESTED

Old Rate \$ _____ /HR

New Rate \$ _____ /HR

☐ All Product Lines ☐ All Except _____ \$ _____ /HR

I certify that the new rate is the same as that which is consistently applied to calculate retail customer labor charges and is prominently displayed on a professionally made, permanent sign where customers can see it.

I understand that this request is subject to Warranty Department and Regional Service Representative approval and will be compared with other dealerships in my area, both Yamaha and non-Yamaha, to ensure that the rate is on a competitive level. I understand and will comply with conditions set forth in Chapter 15 of the Yamaha Warranty Handbook. Yamaha Motor Corporation, U.S.A. reserves the right to limit the warranty labor reimbursement rate. In no case will labor rate changes be retroactive.

OWNER'S SIGNATURE _____ DATE _____

Please allow approximately 10 days to process.

FOR YAMAHA USE ONLY

Date received _____

Date of last rate change _____

Trade area average rate _____

Service Representative _____

☐ Approved ☐ Denied ☐ Adjusted to _____

Reason for denial or adjustment _____

Warranty Manager approval _____

Effective date _____

Notification letter sent _____

Rate displayed? ☐ yes ☐ no

Inspected records? ☐ yes ☐ no

Rate justified? ☐ yes ☐ no

Audit necessary? ☐ yes ☐ no

Debit account? ☐ yes ☐ no

Comments _____

Signature _____

Rev. 4/95
Y100111

When YAMAHA's Warranty Technician Order

LIT-11791-02-95

If you have technical tips you think other dealers could use, let us know. You'll receive credit in the Tech Exchange for ideas we use, and we'll send you an exclusive Yamaha Tech Exchange hat as our thanks.
Send your tips to: Yamaha Motor Corporation, U.S.A., Attn: Tech Exchange, P.O. Box 6555, Cypress, CA 90630

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Technical

BULLETIN

©1995 YAMAHA MOTOR CORPORATION, U.S.A.

MOTORCYCLE

WARRANTY POLICIES

I

INTRODUCTION

In the new **Yamaha Warranty and Y.E.S. Handbook** we have put together both the Motorsports and Marine versions of the previous Warranty Handbook, as well as the information contained in the *Yamaha Extended Service Policies and Procedures Manual*. This new handbook is much simpler and therefore easier to use.

Specific details about each product line’s particular policies and procedures are no longer in the **Yamaha Warranty and Y.E.S. Handbook**. Instead, we provide this specific information to you in “Warranty Policies” Technical Bulletins like this one for each Yamaha product line you carry.

This makes finding the information you want even easier. When you want general policy and procedure information about Yamaha warranty, check the Handbook. When you know the policy but want to check the specific details that apply to the product line you carry, just check this quick-reference bulletin. This is also an advantage to you if a policy detail changes. We can provide the specifics in a new version of this bulletin rather than having you update your Warranty Handbook with several new pages.

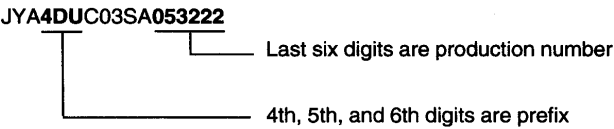
LIMITED WARRANTY STATEMENT INFORMATION

See **Yamaha Warranty and Y.E.S. Handbook**, Page 1-3 for more information.

Model	Warranty Period	Remarks	Limited Warranty Statement Part Number
Royal Star	5 Years		LIT-11790-RS-96
Street and Enduro Models	1 Year		LIT-11790-21-87
Venture/Venture Royale	2 Years	1988 and later models	LIT-11790-00-88
GTS	2 Years		LIT-11790-22-93
Off-Road Motorcycle	90 Days		LIT-11790-30-91
YZ/WR WR200 included in “Off-Road”	30 Days	Covers engine, frame, swingarm, and monoshock.	LIT-11790-40-91
California Emissions Control Warranty	5 Years or mileage by displacement (see Remarks)	50~169cc: 7,465 mi 170~279cc: 11,185 mi 280cc +: 18,641 mi	LIT-11790-01-88

PRIMARY ID

The Primary ID is derived from the **frame number (V.I.N.)** as follows:



NOTE: On models earlier than '96, the Primary ID is also the engine number. If the production number on the engine does not match the frame, use the frame number.

AUTHORIZATIONS

Warranty repairs* on in-warranty units require authorization only if the *total repair* cost exceeds the following:

\$500.00 or below	Authorization NOT needed.
\$500.01 or above	Call RTA for authorization

Total repair cost includes:

	Warranty	Y.E.S.
Parts	DOES PLUS or YCS: Dealer cost + 25% Mail-in Paper form: Dealer cost + 10%	YPAD Suggested Retail
Labor	Flat rate time at approved hourly rate + any extra labor claimed	Flat rate time at approved hourly rate + any extra labor claimed

*See Page 7-5 of the **Warranty and Y.E.S. Handbook** if an accident or fire occurred.

WARRANTY AND Y.E.S. PHONE NUMBERS

Department	Phone Number	Purpose	Handbook Ref.
Warranty	1-800-227-5963	Registration questions Labor Rate Questions Recall questions	Chapter 5 Chapter 1 Chapter 8
Warranty FAX	(714) 761-7303	FAXing (rather than mail): - Registration transfer or correction documents - Warranty Appeals form - Other Warranty or Y.E.S. documents	Chapter 5 Chapter 10
Regional Technical	See “Toll-Free Service Assistance” Technical Bulletin	- Warranty Authorizations - Y.E.S. Authorizations - Out-of-Warranty Authorizations - Customer Relations Assistance - Technical Assistance	Chapter 7 Chapter 7 Chapter 7 Chapter 7
Y.E.S.	1-800-227-5963	Y.E.S. questions (except authorizations)	Chapters 2, 5

Warranty and Y.E.S. Phone Numbers (Cont'd.)

Department	Phone Number	Purpose	Handbook Ref.
Customer Relations (Dealer Calls)	1-800-635-0736	- Return calls to Customer Relations - Accident or fire-related reports/authorizations	Chapter 7
Customer Calls: Customer Relations	1-800-962-7926	- For customers who insist on talking to Yamaha instead of letting you help - Any recall questions	Chapter 7 Chapter 8
Distribution	(714) 761-7650	Shipping Damage Authorizations	Chapter 3
Technical Publications	(714) 761-7462	Replacement copies of: - Technical Bulletins (current) - Flat Rate Tables (current)	
Bell & Howell	1-800-221-5362	Microfiche of Service Manuals, Technical Bulletins or Flat Rates for previous year models, and seminar literature from past years. This same number is used for Parts Microfiche. — Ask for “Yamaha Customer Service.”	
YCS or DOES PLUS Support	1-800-854-4876	Questions related to the use of your on-line entry computer program	

WARRANTY AND Y.E.S. LITERATURE

Motorcycle-Only Forms

Description	Part Number	Handbook Reference and Usage Notes
Motorcycle Assembly and Predelivery Checklist (50/pkg.)	LIT-11161-00-90	See Page 4-2. Checklist for procedures required before delivery to customer.

Warranty and Y.E.S. Forms

Description	Part Number	Handbook Reference and Usage Notes
Warranty and Y.E.S. Handbook	LIT-11760-00-95	New edition — covers warranty and Y.E.S. for all products.
Warranty Request Worksheets (25/pkg.)	LIT-11801-00-02	See Chapter 6. Fill out before submitting warranty or Y.E.S. claim on DOES PLUS or YCS.
Warranty Request Forms (25/pkg.)	LIT-11791-01-00	See Chapter 6. Mail-in warranty or Y.E.S. claim form if YCS or DOES PLUS is not used.
Warranty Request Parts Supplement (25/pkg.)	LIT-11791-00-01	See Page 6-7. For mail-in requests if request has more than 10 parts.
Transfer of Owner Registration (10/pkg.)	LIT-11790-07-83	See Page 5-7. Update registration records with new owner and transfer any warranty or Y.E.S. coverage.
Warranty Registration Correction Form (5/pkg.)	LIT-11792-00-00	See Page 5-6. For correcting warranty or Y.E.S. registration errors.
Warranty Return Envelopes (25/pkg.)	LIT-11784-00-01	Pre-addressed envelopes for mailing documents to Warranty Department.
Warranty Status Chart Pads (50/pad)	LIT-11790-00-00	See Chapter 10. Track status of warranty and Y.E.S. claims.

Warranty and Y.E.S. Forms (Cont'd.)

Description	Part Number	Handbook Reference and Usage Notes
Warranty Document ID Form (25/pkg.)	LIT-11791-00-04	See Page 1-6. Identify any supporting documents mailed to Warranty.
Recall Reimbursement Request (10/pkg.)	LIT-11790-00-94	See Page 8-2. Mail-in form to request reimbursement for Factory Modification Campaign if YCS or DOES PLUS is not used.
Warranty Labor Rate Change Request	LIT-11791-02-95	See Page 1-5. Request setup or change of the labor rate amount used to calculate warranty reimbursement.
Service Schedule Pad (25/pkg.)	LIT-11561-00-95	Used to schedule service work. Includes column for warranty request information.
Warranty Error Notification Explanation Booklet	LIT-11791-01-94	See Page 10-3. Used only if registrations and warranty requests are mailed in on paper forms, and there are errors.

Y.E.S. - Only Forms

Description	Part Number	Handbook Reference and Usage Notes
Y.E.S. Plan Highlights Form for Motorcycle/ATV/Riva/Water Vehicle/Snowmobile (20/pkg.)	LIT-11580-00-05	See Page 2-2. Sales tool to explain benefits of Y.E.S. plan to customer.
Sample Y.E.S. Contract for Motorcycle/ATV/Riva	LIT-11580-00-27	See Page 2-2. Given to each customer at the time of sale. The actual “live” contract is mailed to the customer separately by Yamaha.
Y.E.S. Lienholder Information (20/pkg.)	LIT-11580-00-08	See Page 5-4. Used when lienholder requests additional documentation about the Y.E.S. coverage.
Y.E.S. Plan Registration Card (10/pkg.)	LIT-11580-00-04	See Page 5-5. Used to register Y.E.S. coverage sold after unit purchase (not needed if DOES PLUS or YCS is used).
Y.E.S. Used Unit Registration (10/pkg.)	LIT-11580-00-19	See Page 5-5. Used to register Y.E.S. coverage on a used unit sold from dealer inventory.
Y.E.S. Plan Request to Cancel (5/pkg.)	LIT-11580-00-10	See Page 2-5. Required for cancellation of Y.E.S. Plan.
Y.E.S. Hangtags (10/pkg.)	LIT-11580-00-16	For product display. Lists main customer benefits of coverage. For motorcycle, ATV, Riva, Snowmobile, and Water Vehicle.
Y.E.S. Price Tags (20/pkg.)	LIT-11580-00-17	For product display. Promotes Y.E.S. coverage with convenient monthly payment information.
Factory Service Brochures (20/pkg.)	LIT-11580-00-18	Sales brochure for Y.E.S. with features and benefits. For Motorcycle, ATV, Riva, Snowmobile, and Water Vehicle.

Florida Y.E.S. Forms

Description	Part Number	Handbook Reference and Usage Notes
Florida Y.E.S. Plan Highlights & Contract	Call Y.E.S.	See Page 2-2. A “live” contract required when Y.E.S. is sold in Florida.
Florida Envelopes (10/pkg.)	LIT-11580-FL-02	Used to mail contracts to Yamaha.