



YAMAHA

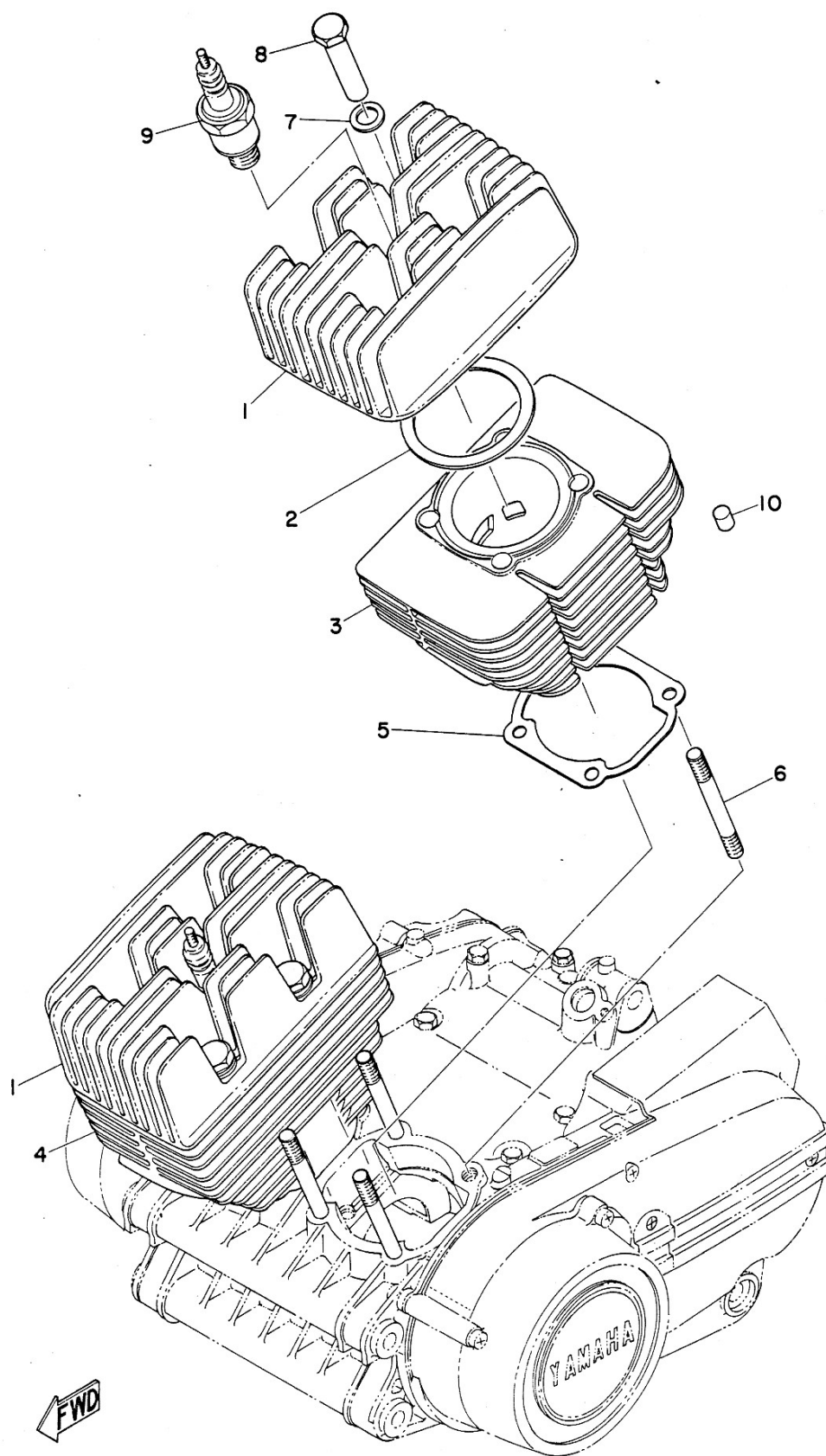
PARTS LIST

YAMAHA SPORTS

MODEL DS7

YAMAHA MOTOR CO., LTD.

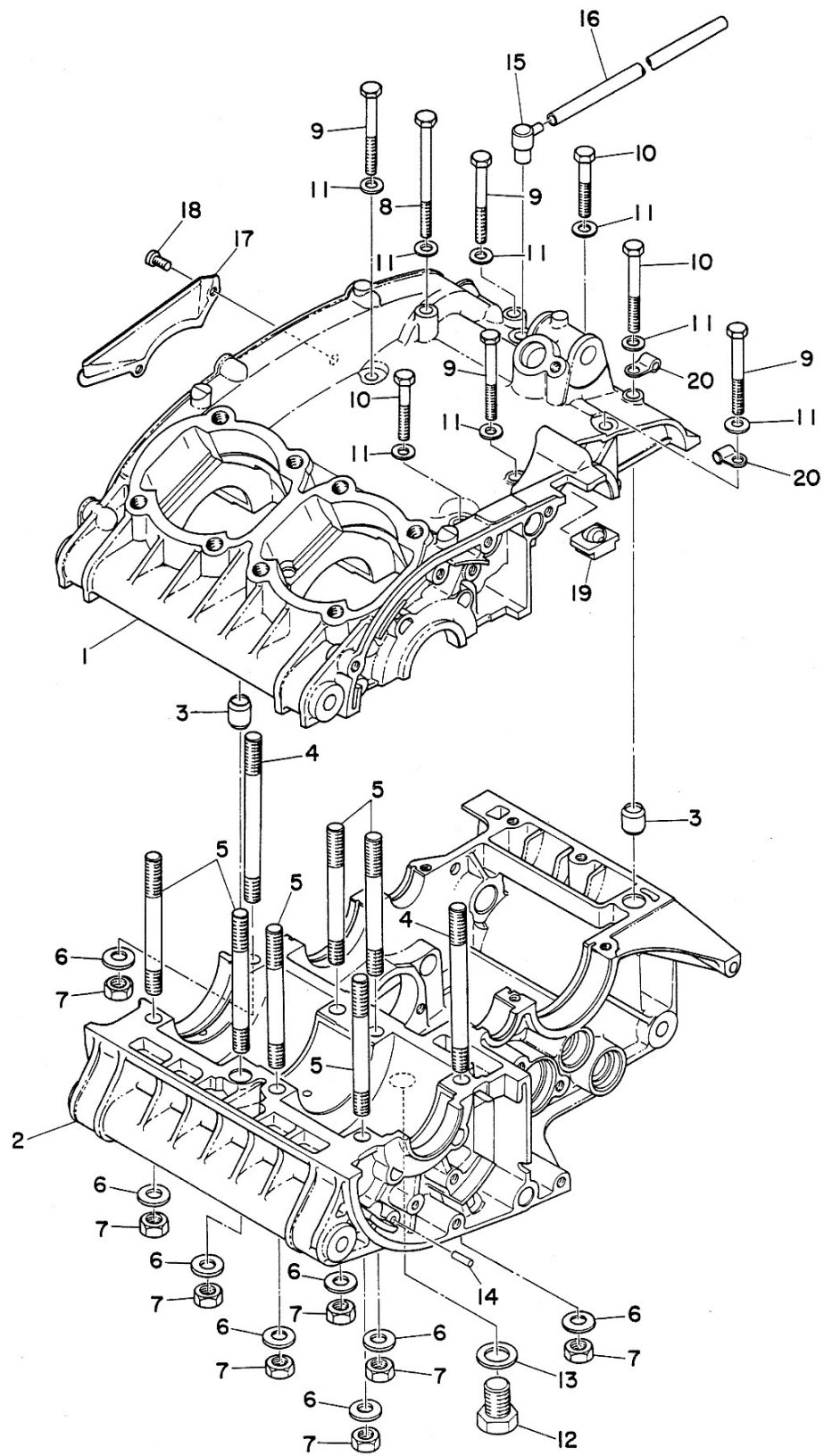
Fig. 1 CYLINDER HEAD & CYLINDER



CYLINDER HEAD & CYLINDER

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
1- 1	280-11111-00	HEAD, cylinder	2		
1- 2	280-11181-00	GAKSET, cylinder head	2		
1- 3	280-11311-00	CYLINDER, left	1		
1- 4	280-11321-00	CYLINDER, right	1		
1- 5	278-11351-00	GASKET, cylinder	2		
1- 6	276-11361-00	BOLT, holding	8		
1- 7	248-11175-00	WASHER, plain	8		
1- 8	239-11171-00	NUT, holding	8		
1- 9	94700-00004	PLUG, spark (B-7HZ)	2		
1-10	171-11161-00	ABSOBER	4		

Fig. 2 CRANKCASE

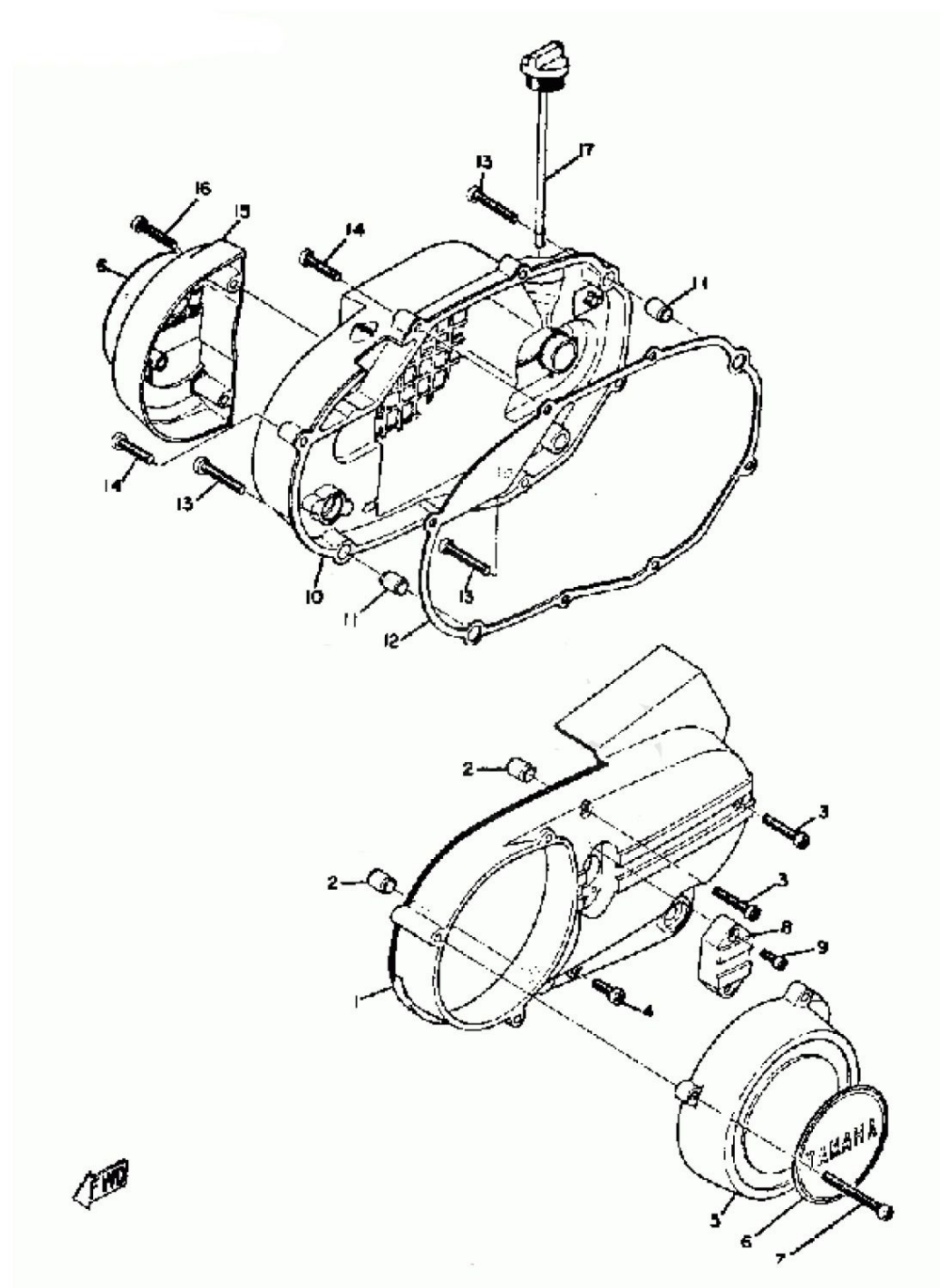


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CRANKCASE

Ref. No.	Part. No.	Description	Q'ty	Applicable Machine No.	Remarks
2- 0-1	278-15100-00	CRANKCASE ASS'Y	1		
2- 1	278-15111-00	. CASE, crank upper	1		
2- 2	278-15121-00	. CASE, crank lower	1		
2- 3	91800-08016	PIN, dowel (9.8-12-16)	2		
2- 4	256-15194-00	BOLT, crankcase stud 3	2		
2- 5	256-15193-00	BOLT, crankcase stud 2	6		
2- 6	92901-08200	WASHER, plain	8		
2- 7	98803-08200	NUT	8		
2- 8	91101-06085	BOLT	1		
2- 9	91101-06055	BOLT	4		
2-10	91101-06045	BOLT	3		
2-11	92901-06200	WASHER, plain	8		
2-12	214-15351-00	PLUG, drain	1		
2-13	137-15353-00	GASKET, drain plug (14-21-15) ..	1		
2-14	93603-14026	PIN, dowel (3-14)	1		
2-15	120-15371-00	BREATHER	1		
2-16	248-15373-00	PIPE, breather (5-150)	1		
2-17	278-15492-00	COVER	1		
2-18	98501-05010	SCREW, pan head	2		
2-19	278-15441-00	HOLDER, clutch wire	1		
2-20	164-82594-00	CLAMP	2		

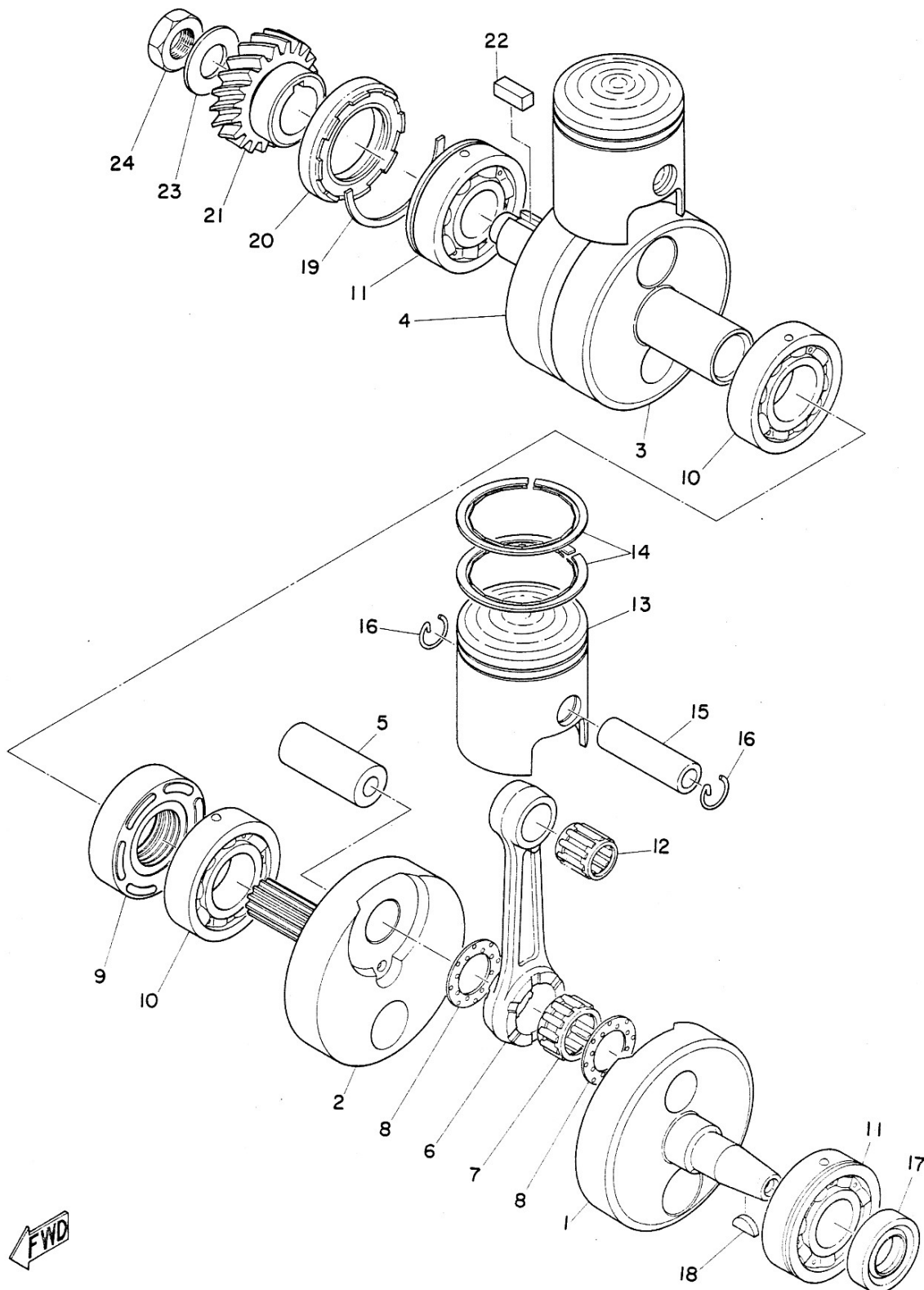
Fig. 3 CRANKCASE COVER



CRANKCASE COVER

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
3- 1	278-15411-00	COVER, crankcase left	1		
3- 2	91800-08016	PIN, dowel (9.8-12-16)	2		
3- 3	92506-06035	SCREW, pan head	2		
3- 4	92506-06020	SCREW, pan head	1		
3- 5	278-15415-00	COVER, generator	1		
3- 6	278-15425-00	COVER	2		
3- 7	92506-06060	SCREW, pan head	3		
3- 8	278-15417-00	COVER, cap	1		
3- 9	98506-05020	SCREW, pan head	2		
3-10	278-15421-00	COVER, crankcase right	1		
3-11	91800-08016	PIN, dowel (9.8-12-16)	2		
3-12	278-15461-00	GASKET, crankcase cover right ..	1		
3-13	92506-06040	SCREW, pan head	2		
3-14	92506-06030	SCREW, pan head	6		
3-15	278-15416-00	COVER, oil pump	1		
3-16	92506-06035	SCREW, pan head	3		
3-17	278-15363-00	PLUG, oil	1		

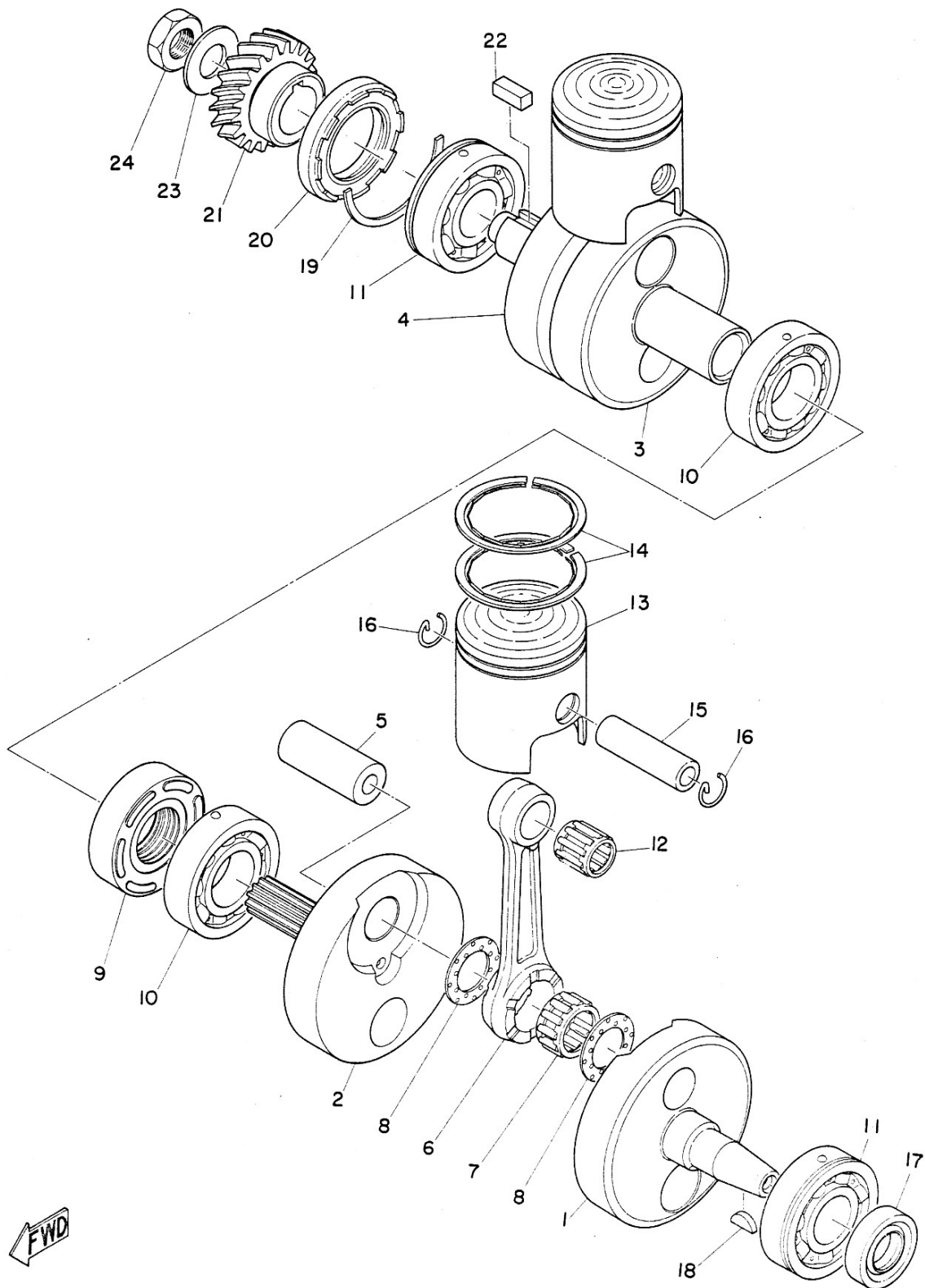
Fig. 4 CRANK & PISTON



CRANK & PISTON

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
4- 0-1	278-11400-00	CRANK ASS'Y	1		
4- 1	278-11412-00	. CRANK 1, left	1		
4- 2	278-11422-00	. CRANK 1, right	1		
4- 3	278-11432-00	. CRANK 2, left	1		
4- 4	278-11442-00	. CRANK 2, right	1		
4- 5	278-11681-00	. PIN, crank	2		
4- 6	278-11651-00	. ROD, connecting	2		
4- 7	93310-42231	. BEARING, con-rod big end (22-28-15.8)	2		
4- 8	164-11685-00 278-11515-00	. WASHER, crank pin	4		
4- 9	278-11515-00	. SEAL, labyrinth	1		
4-10	93306-20604	. BEARING (6206C3 special)	2		
4-11	93306-30508	. BEARING (6305C3 special)	2		
4-12	93310-21636	BEARING, con-rod small end (16-20-19)	2		
4-13	280-11631-00-96	PISTON (STD) 53.96mm	2	U.R	
	280-11631-00-97	PISTON (STD) 53.97mm			
	280-11631-00-98	PISTON (STD) 53.98mm			
	280-11631-00-99	PISTON (STD) 53.99mm			
	280-11635-00	PISTON (1st O. S.) 54.25mm	2		
	280-11636-00	PISTON (2nd O. S.) 54.50mm	2		
4-14	280-11601-00	PISTON RING SET (STD)	2s		
	280-11601-10	PISTON RING SET (1st O. S.)	2s		
	280-11601-20	PISTON RING SET (2nd O. S.)	2s		
4-15	280-11633-00	PIN, piston	2		
4-16	137-11634-00	CLIP, piston pin	4		

Fig. 4 CRANK & PISTON

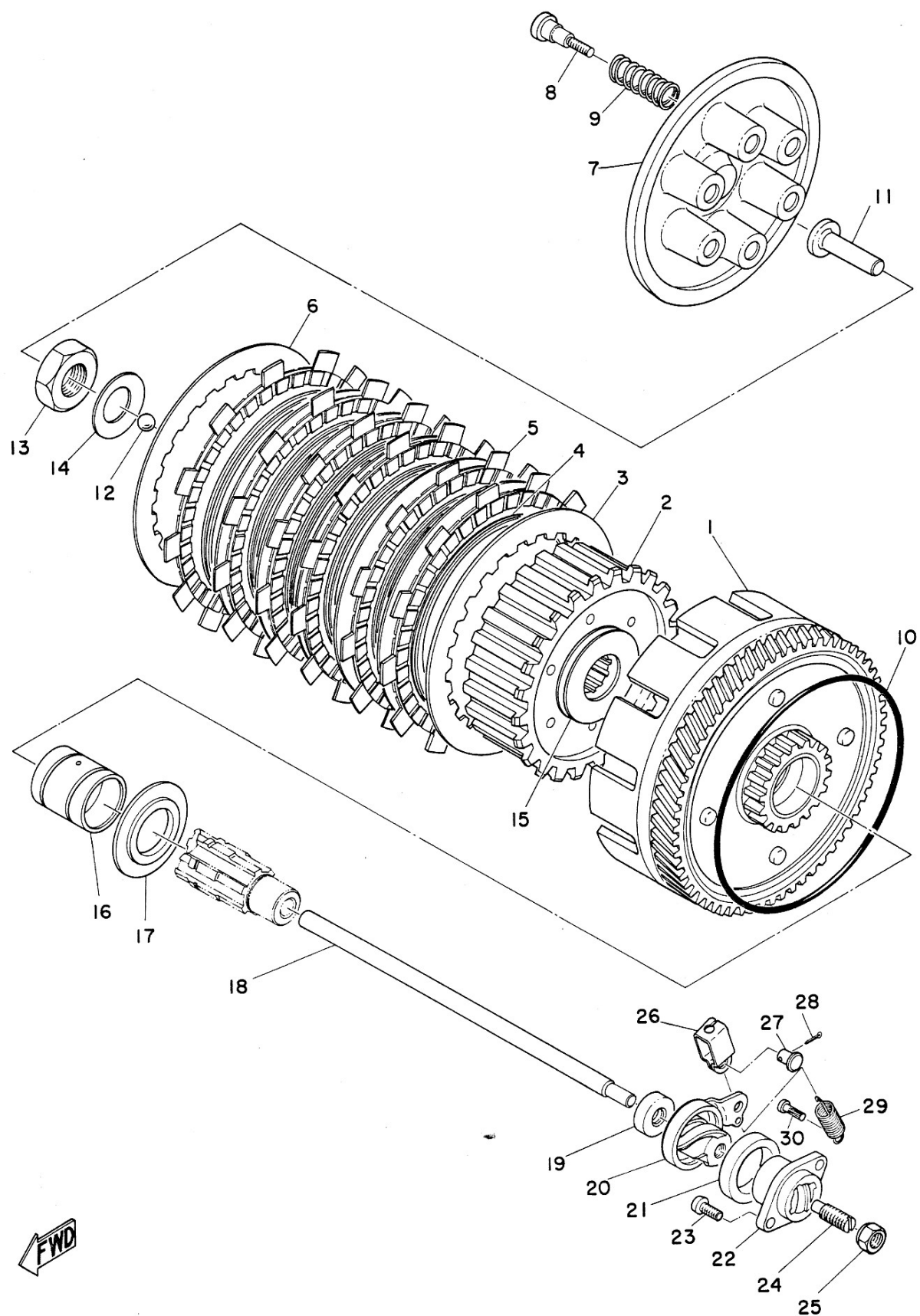


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CRANK & PISTON

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
4-17	93103-20046	OIL SEAL (SW-20-4-10)	1		
4-18	150-11545-00	KEY, woodruff	1		
4-19	278-17424-00	CIRCLIP	1		
4-20	93103-40058	OIL SEAL (SW40-62-10 special) ..	1		
4-21	280-16111-00	GEAR, primary drive (21T)	1		
4-22	278-11546-00	KEY, woodruff	1		
4-23	214-16119-00	SPRING, bellevil	1		
4-24	168-11555-00	NUT, crank shaft	1		

Fig. 5 CLUTCH



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CLUTCH

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
5- 0-1	280-16301-00	CLUTCH ASS'Y	1		
5- 1	280-16150-00	. PRIMARY DRIVEN GEAR COMP. (68T)	1		
5- 2	278-16371-00	. BOSS, clutch	1		
5- 3	214-16324-00	. PLATE, clutch	1		
5- 4	168-16367-00	. RING, cushion	6		
5- 5	168-16321-00	. PLATE, friction	6		
5- 6	168-16325-00	. PLATE, clutch	6		
5- 7	214-16351-00	. PLATE, pressure	1		
5- 8	137-16337-01	. SCREW, spring	6		
5- 9	183-16333-70	. SPRING, clutch	6		
5-10	93211-20102	. O-RING (7.5-119.6)	1		
5-11	174-16356-00	ROD, push	1		
5-12	92505-16006	BALL (5/16 inch)	1		
5-13	156-16174-00	NUT, lock	1		
5-14	214-16119-00	SPRING, bellevile	1		
5-15	170-16164-00	PLATE, thrust 2 (25-50-2)	1		
5-16	278-16181-01	SPACER	1		
5-17	278-16154-00	PLATE, thrust 1	1		
5-18	237-16357-01	ROD, push	1		
5-19	237-15389-00	SEAL, push rod	1		
5-20	278-16340-00	PUSH LEVER ASS'Y	1		
5-21	214-16347-01	SEAL, dust *	1		
5-22	256-16396-01	HOUSING, push screw	1		

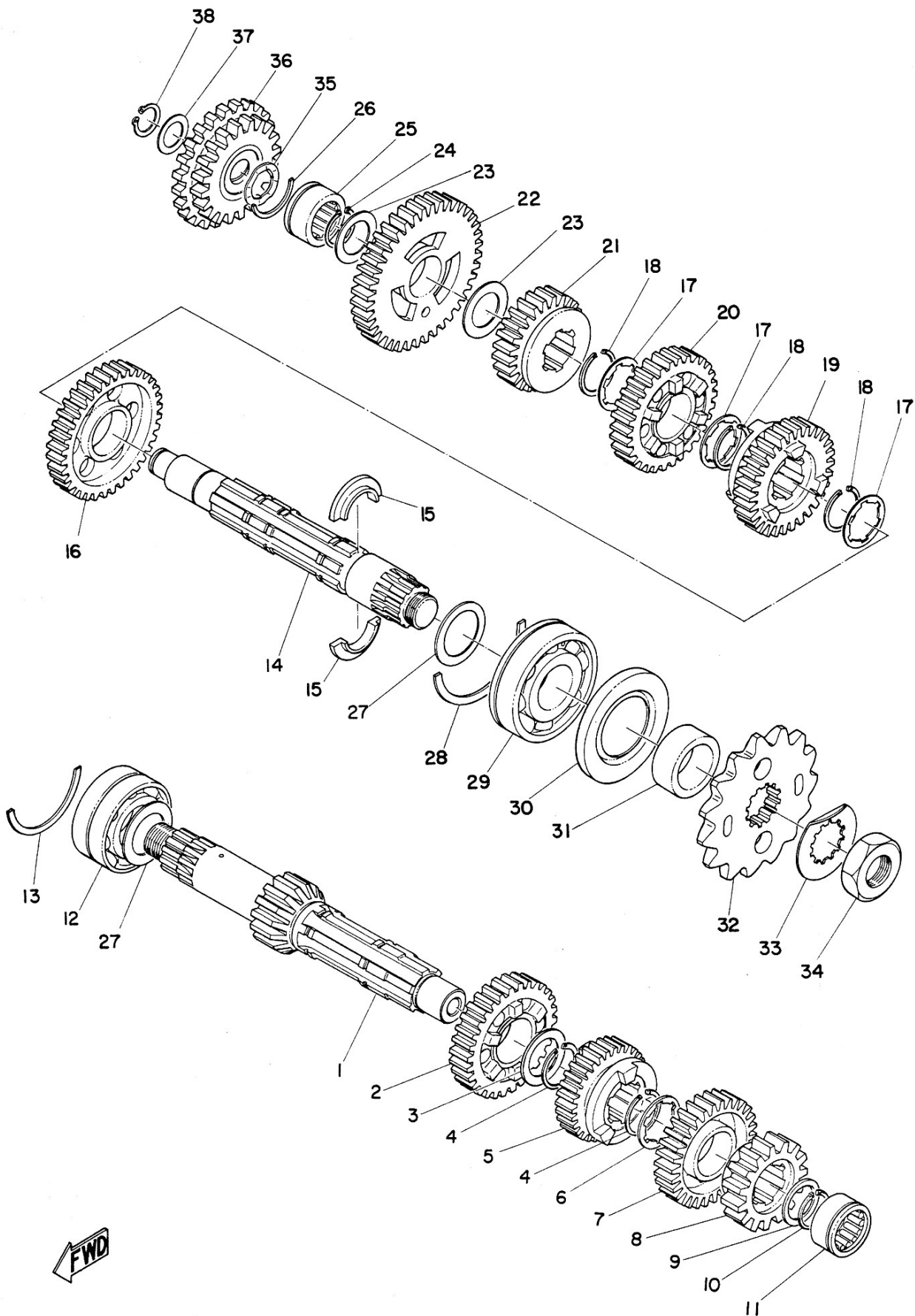
Fig. 5 CLUTCH



CLUTCH

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
5-23	98501-05012	SCREW, pan head	2		
5-24	256-16343-01	SCREW, adjusting	1		
5-25	214-16344-00	NUT, adjusting	1		
5-26	214-16389-00	JOINT	1		
5-27	214-16379-00	PIN	1		
5-28	91401-10010	PIN, cotter	1		
5-29	168-16345-00	SPRING, return	1		
5-30	132-16346-00	HOOK, spring	1		

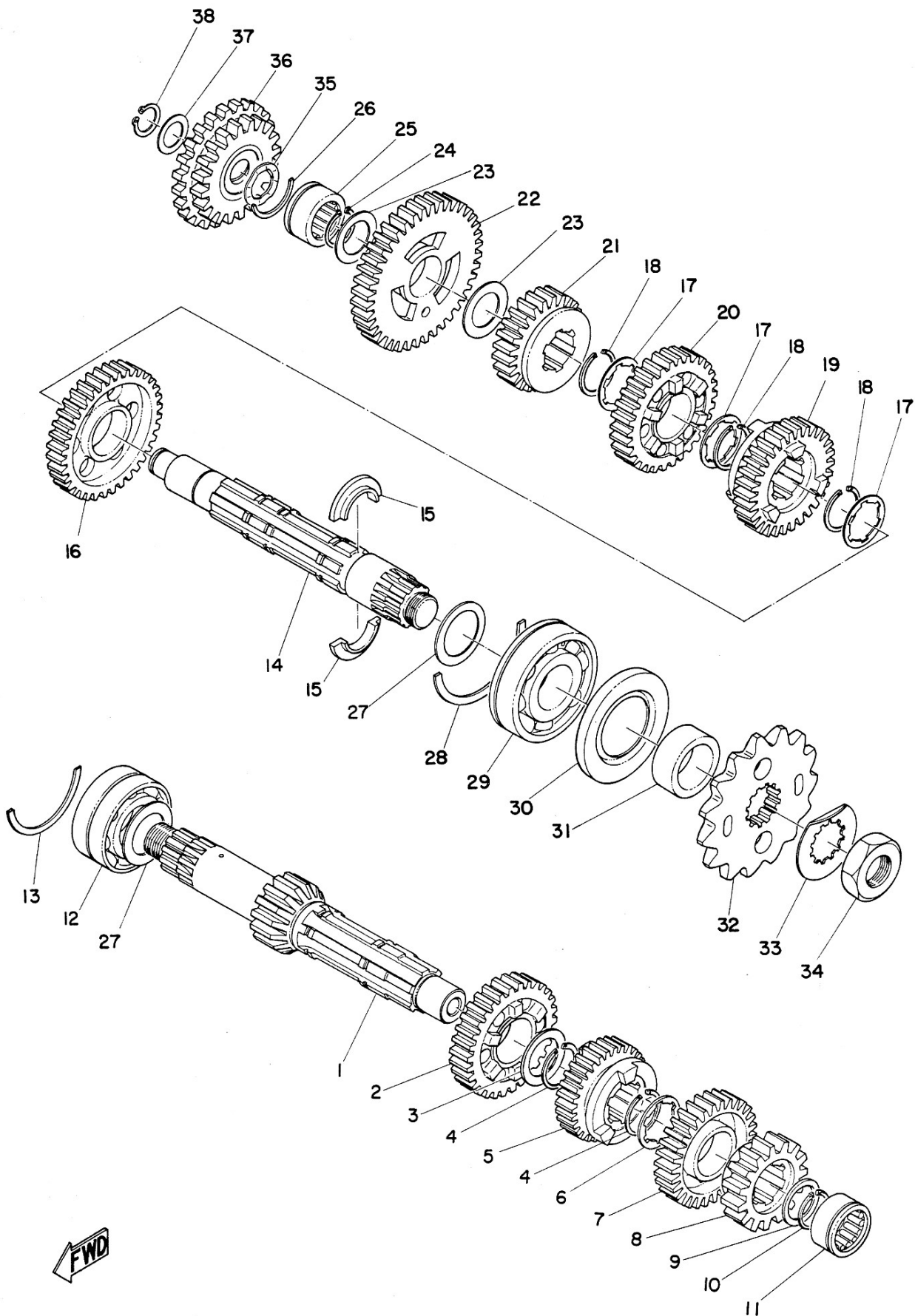
Fig. 6 TRANSMISSION



TRANSMISSION

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
6- 1	278-17411-00	AXLE, main (16T)	1		
6- 2	278-17151-00	GEAR, 5th pinion (31T)	1		
6- 3	152-17226-00	WASHER, gear hold (25-32-1)	1		
6- 4	93440-25019	CIRCLIP (25φspecial)	2		
6- 5	278-17131-00	GEAR, 3rd pinion (26T)	1		
6- 6	278-17216-00	WASHER, gear hold	1		
6- 7	278-17141-00	GEAR, 4th pinion (29T)	1		
6- 8	278-17121-00	GEAR, 2nd pinion (22T)	1		
6- 9	132-17216-00	WASHER, gear hold (22-25-1)	1		
6-10	93410-20009	CIRCLIP (S-20)	1		
6-11	93311-22005	BEARING (20-30-15)	1		
6-12	93305-20502	BEARING (5205 special)	1		
6-13	278-17414-00	CIRCLIP	1		
6-14	278-17421-00	AXLE, drive	1		
6-15	156-17429-00	SPACER, drive axle	2		
6-16	278-17221-00	GEAR, 2nd wheel (35T)	1		
6-17	278-17216-00	WASHER, gear hold	3		
6-18	93440-25019	CIRCLIP (25φ special)	3		
6-19	278-17241-00	GEAR, 4th wheel (25T)	1		
6-20	278-17151-00	GEAR, 5th pinion (31T)	1		
6-21	278-17251-00	GEAR, 5th wheel (25T)	1		
6-22	278-17211-00	GEAR, 1st wheel (41T)	2		
6-23	168-17116-00	WASHER, gear hold (20.2-30-1.5) ..	2		
6-24	93410-20009	CIRCLIP (S-20)	1		

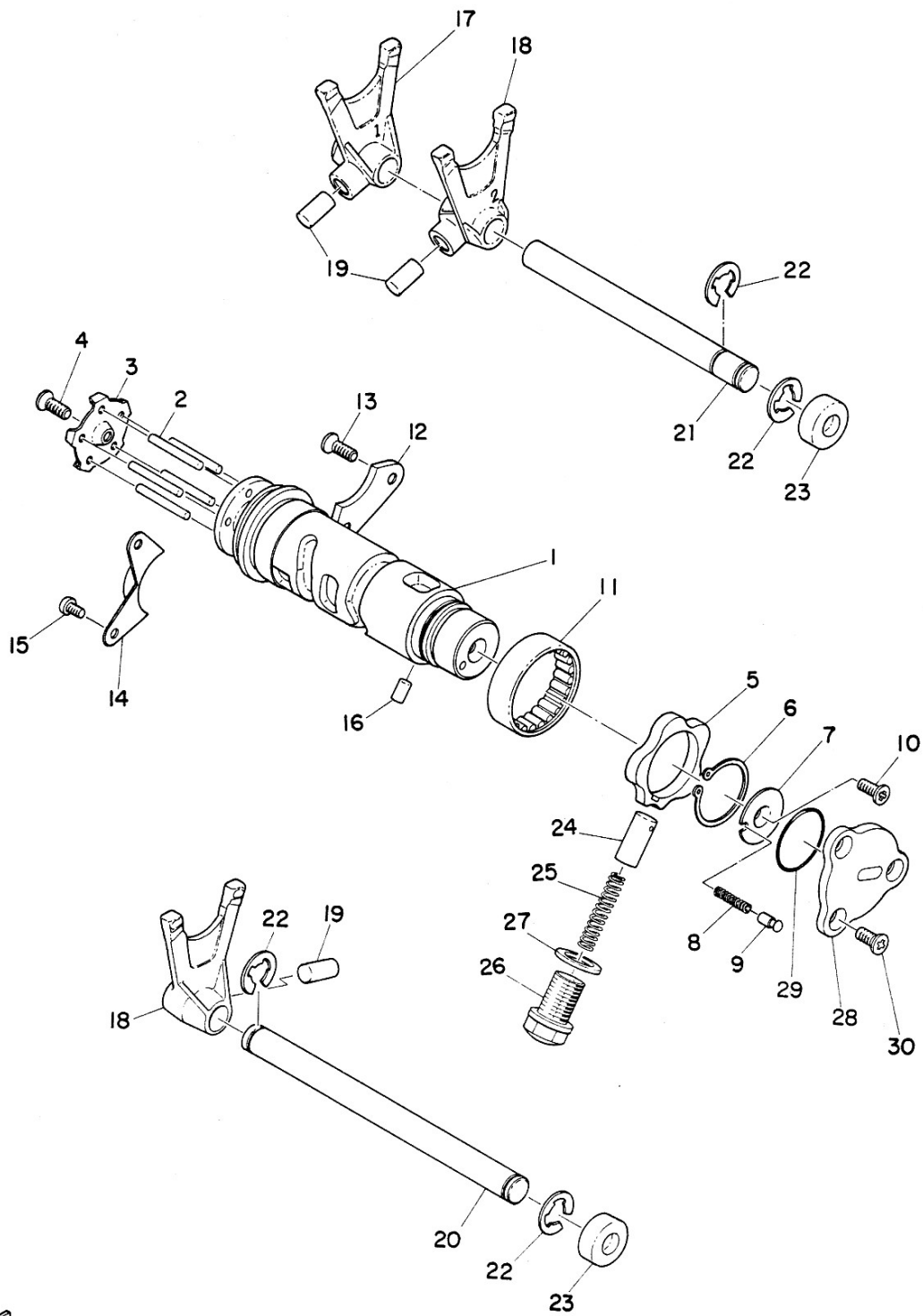
Fig. 6 TRANSMISSION



TRANSMISSION

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
6-25	93311-42006	BEARING (20-33-1.5)	1		
6-26	278-17425-00	CIRCLIP	1		
6-27	168-17428-01-03	SHIM, drive axle (25-34-0.3)	} U.R		
	168-17428-01-05	SHIM, drive axle (25-34-0.5)			
6-28	278-17424-00	CIRCLIP	1		
6-29	93306-30504	BEARING (6305N special)	1		
6-30	93102-35054	OIL SEAL (SD-35-62-6)	1		
6-31	169-17462-00	COLLAR, distance (25-37-17.5) ..	1		
6-32	156-17461-50	SPROCKET, drive (15T)	1		STD
	156-17461-60	SPROCKET, drive (16T)	1		
	156-17461-70	SPROCKET, drive (17T)	1		
6-33	156-17464-01	WASHER, lock	1		
6-34	152-17463-00	NUT, lock	1		
6-35	137-15643-00	WASHER, wave	1		
6-36	278-15650-00	IDLE GEAR ASS'Y (22T & 27T) ...	1		
6-37	164-17417-00	SHIM, main axle (15.2-20-1) ...	1		
6-38	93410-15005	CIRCLIP (S-15)	1		

Fig. 7 SHIFTER A



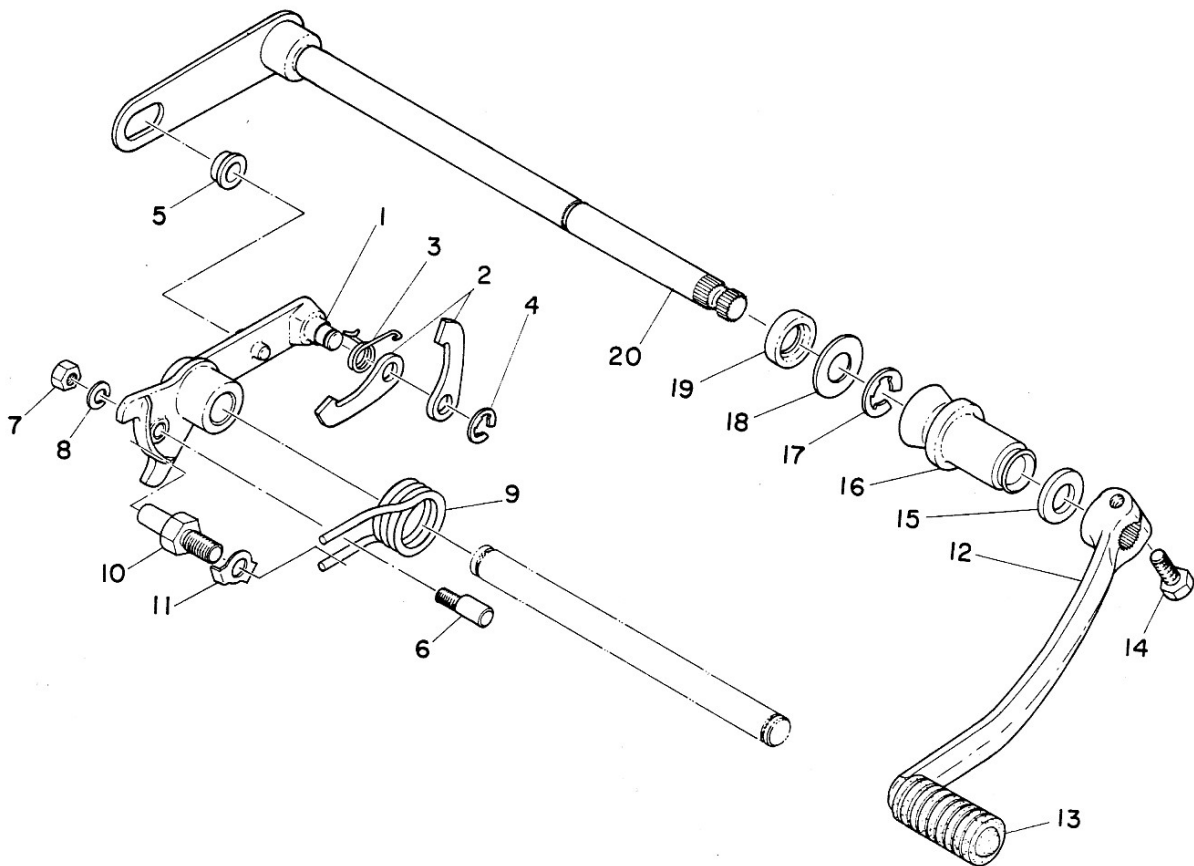
SHIFTER A

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
7- 1	278-18541-00	CAM, shift	1		
7- 2	93604-22050	PIN, dowel (4-21.8)	5		
7- 3	278-18561-00	PLATE, side 1	1		
7- 4	98701-05012	SCREW, flat head	1		
7- 5	278-18141-00	PLATE, stopper	1		
7- 6	93410-30012	CIRCLIP (S-30)	1		
7- 7	278-18566-00	PLATE, side 2	1		
7- 8	278-18545-00	SPRING	1		
7- 9	278-18542-00	POINT, neutral	1		
7-10	98701-05012	SCREW, flat head	1		
7-11	93315-23607	BEARING (36-42-12)	1		
7-12	278-18562-00	PLATE, stopper	1		
7-13	92701-06015	SCREW, flat head	2		
7-14	278-18179-00	GUIDE, change lever	1		
7-15	98501-05010	SCREW, pan head	2		
7-16	93604-08071	PIN, dowel (4-8)	1		
7-17	278-18511-00	FORK, shift 1	1		
7-18	278-18512-00	FORK, shift 2	2		
7-19	278-18552-00	PIN, cam follower	3		
7-20	278-18531-00	BAR, shift fork guide 1	1		
7-21	278-18535-00	BAR, shift fork guide 2	1		
7-22	93430-10016	CIRCLIP (E-10)	4		
7-23	278-18149-00	PLUG, blind	2		
7-24	278-18547-00	STOPPER, cam	1		

SHIFTER A

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
7-25	278-18557-00	SPRING, cam stopper	1		
7-26	278-18577-00	SCREW, spring	1		
7-27	137-15353-00	GASKET, drain plug (14-21-1.5) ..	1		
7-28	278-82540-00	NEUTRAL SWITCH ASS'Y	1		
7-29	93210-31114	O-RING (2.4-31)	1		
7-30	98701-05012	SCREW, flat head	3		

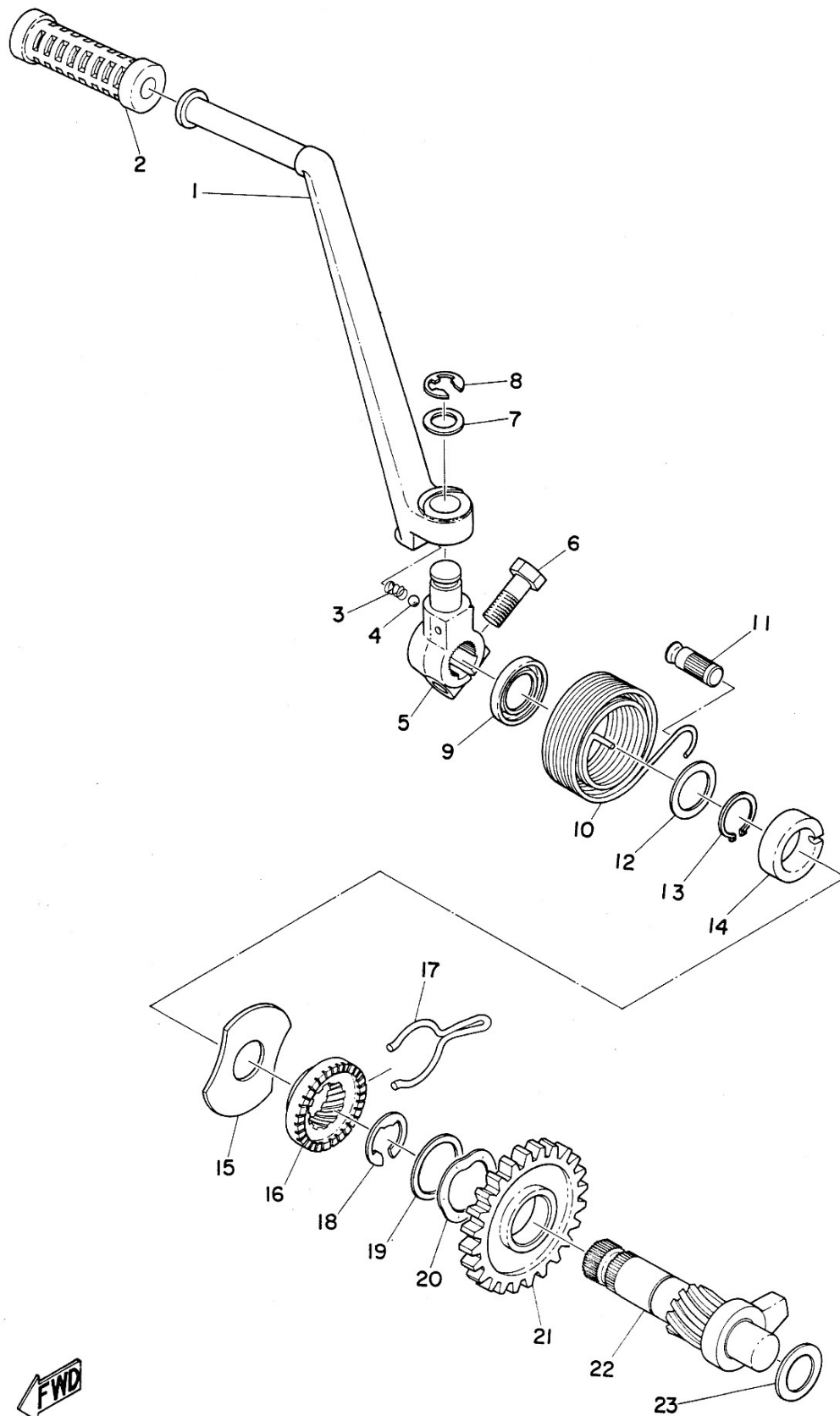
Fig. 8 SHIFTER B



SHIFTER B

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
8- 1	278-18128-00	BRACKET	1		
8- 2	278-18151-00	LEVER, change 3	2		
8- 3	214-18123-00	SPRING	1		
8- 4	93430-07012	CIRCLIP (E-7)	1		
8- 5	214-18178-00	ROLLER, change lever	1		
8- 6	214-18186-00	SCREW, adjusting	1		
8- 7	92801-06100	NUT	1		
8- 8	92901-06100	WASHER, spring	1		
8- 9	278-18124-00	SPRING, shaft return	1		
8-10	278-18127-00	STOPPER, screw	1		
8-11	214-18139-00	WASHER, lock	1		
8-12	278-18111-00-93	PEDAL, change	1		
8-13	132-18113-01	COVER, change pedal	1		
8-14	91101-06020	BOLT	1		
8-15	170-18132-00	SEAL, change shaft	1		
8-16	278-18131-00	BOOT, sealing	1		
8-17	93430-10016	CIRCLIP (E-10)	1		
8-18	137-18137-00	WASHER (12-22.5-1.5)	1		
8-19	93101-12004	OIL SEAL (S-12-22-5)	1		
8-20	278-18101-00	CHANGE SHAFT ASS'Y	1		

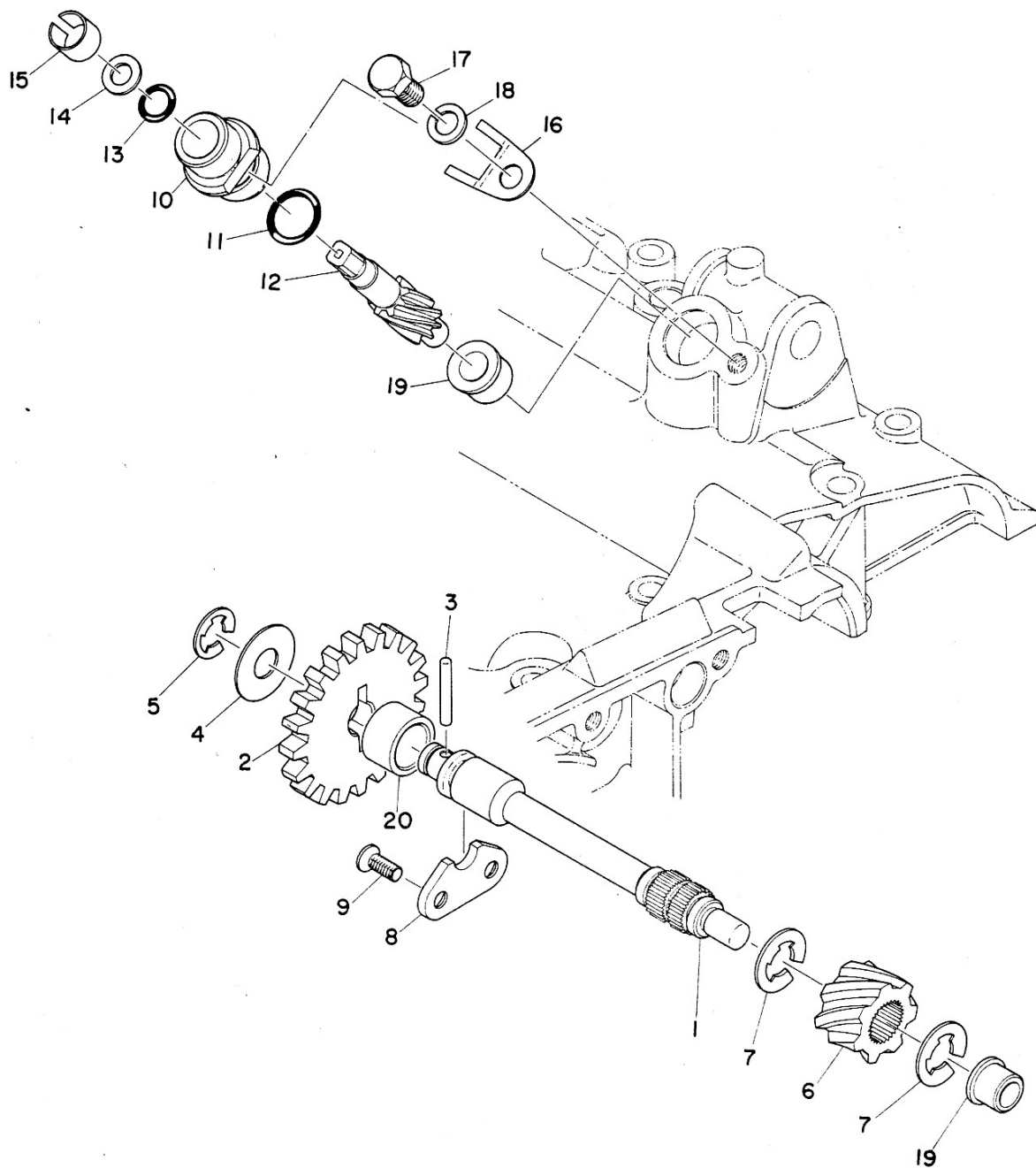
Fig. 9 STARTER



STARTER

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
9- 1	278-15611-00-93	CRANK, kick	1		
9- 2	156-15618-01	COVER, kick lever	1		
9- 3	278-15622-00	SPRING, boss stopper	1		
9- 4	93507-32009	BALL (7/32 inch)	1		
9- 5	278-15621-00	BOSS, kick crank	1		
9- 6	97201-08030	BOLT	1		
9- 7	278-15613-00	WASHER (15.5-24-1.5)	1		
9- 8	93430-10016	CIRCLIP (E-10)	1		
9- 9	93104-20007	OIL SEAL (SO-20-30-4.5)	1		
9-10	278-15665-00	SPRING, kick	1		
9-11	248-15668-00	STOPPER, kick spring	1		
9-12	132-17216-00	WASHER, gear hold (20-25-1)	1		
9-13	93410-20009	CIRCLIP (S-20)	1		
9-14	278-15666-00	SPACER	1		
9-15	278-15676-00	COVER, spring	1		
9-16	278-15671-00	WHEEL, ratchet	1		
9-17	278-15687-00	CLIP	1		
9-18	93440-25019	CIRCLIP (25φ special)	1		
9-19	152-17226-00	WASHER, gear hold (25-32-1)	1		
9-20	278-15643-01	WASHER, wave	1		
9-21	278-15641-00	GEAR, kick (27T)	1		
9-22	278-15660-00	KICK AXLE ASS'Y	1		
9-23	136-17417-00	SHIM (17.2-28-1)	1		

Fig. 10 TACHOMETER GEAR

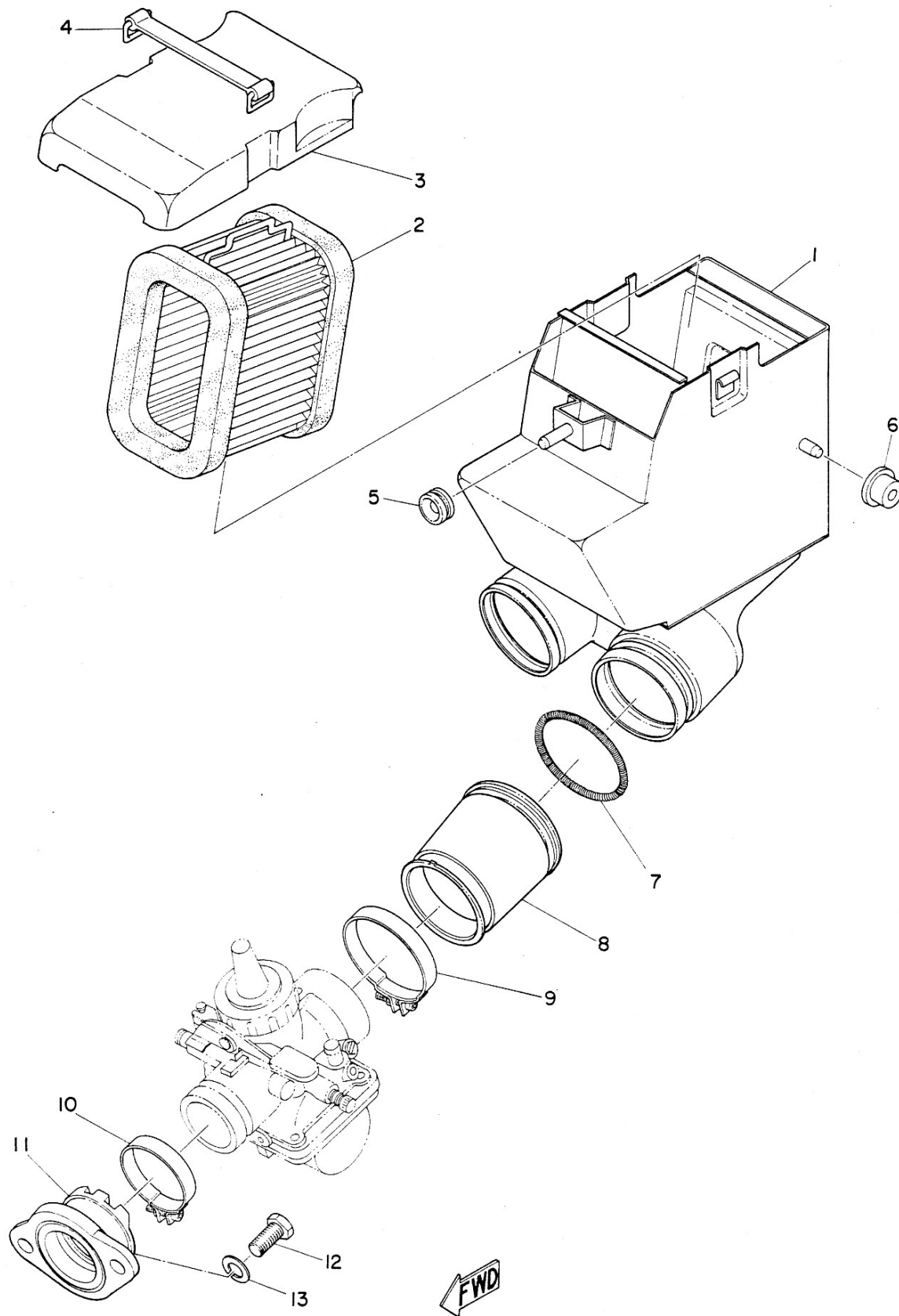


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TACHOMETER GEAR

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
10- 1	278-17861-00	AXLE	1		
10- 2	280-17851-00	GEAR, primary	1		
10- 3	93603-22028	PIN, dowel (3-21.8)	1		
10- 4	102-18138-00	WASHER (10.2-24-1)	1		
10- 5	93430-08006	CIRCLIP (E-8)	1		
10- 6	278-17831-00	GEAR, drive	1		
10- 7	93430-10016	CIRCLIP (E-10)	2		
10- 8	278-17812-00	STOPPER	1		
10- 9	98701-05012	SCREW, flat head	2		
10-10	214-17811-01	HOUSING	1		
10-11	93210-13016	O-RING (1.8-13)	1		
10-12	214-17841-01	GEAR, driven	1		
10-13	93210-07100	O-RING (2.2-7.2)	1		
10-14	214-17847-00	SHIM (7.5-10.8-0.4)	1		
10-15	214-17815-00	BUSHING	1		
10-16	214-17812-00	STOPPER	1		
10-17	91201-06010	BOLT	1		
10-18	92901-06100	WASHER, spring	1		
10-19	214-17843-00	BUSHING	2		
10-20	278-17833-00	BUSHING	1		

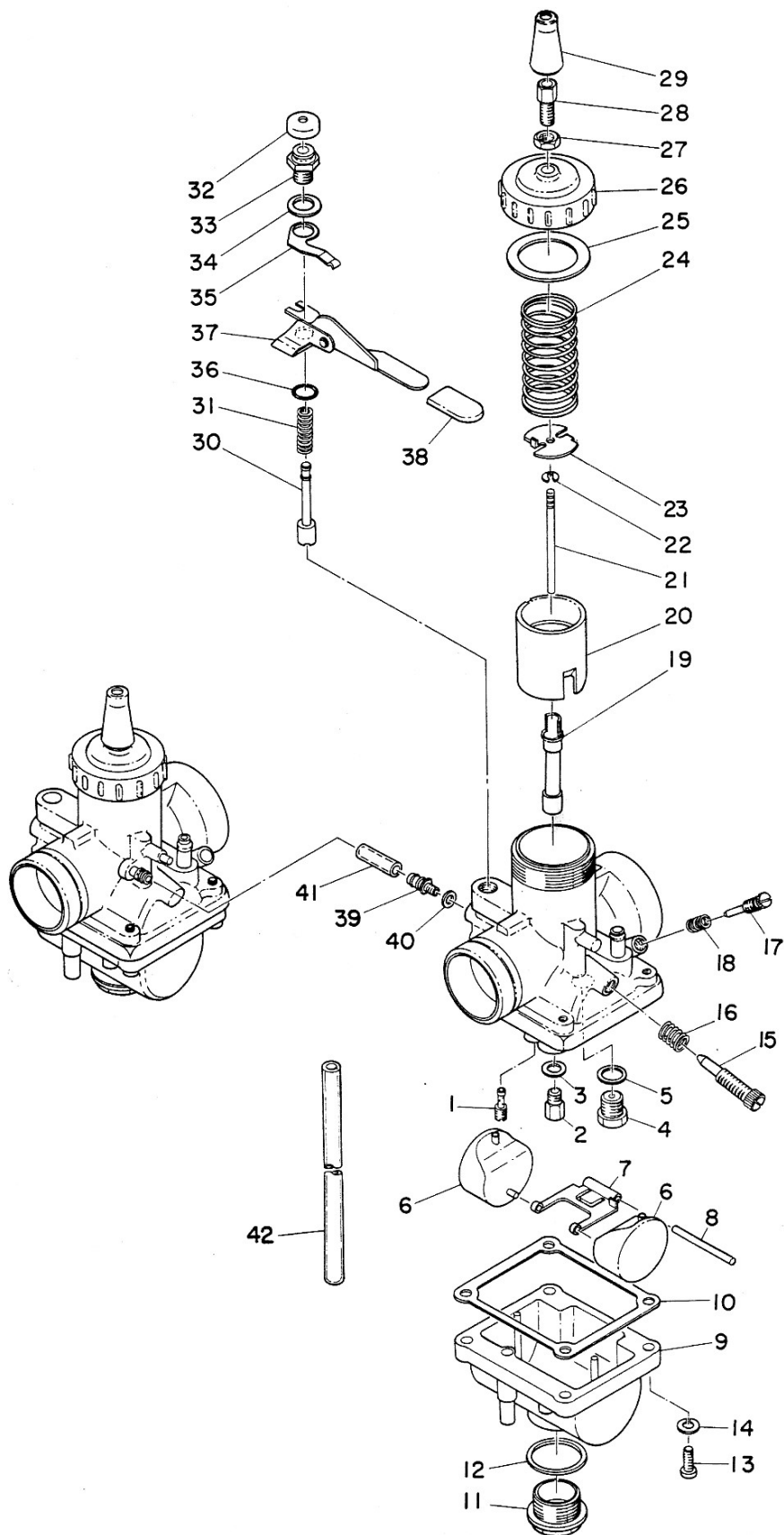
Fig. 11 AIR CLEANER



AIR CLEANER

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
11- 1	278-14411-00	CASE, air cleaner	1		
11- 2	278-14451-00	ELEMENT	1		
11- 3	278-14412-00	CAP, case	1		
11- 4	278-14459-00	HOLDER	1		
11- 5	214-21746-00	DAMPER, tool box	1		
11- 6	278-14426-00	DAMPER 2	2		
11- 7	278-14456-00	BAND	2		
11- 8	278-14453-00	JOINT	2		
11- 9	278-14455-00	BAND	2		
11-10	278-13575-00	BAND	2		
11-11	278-13555-00	JOINT	2		
11-12	97201-08020	BOLT	4		
11-13	92901-08100	WASHER, spring	4		

Fig. 12 CARBURETOR

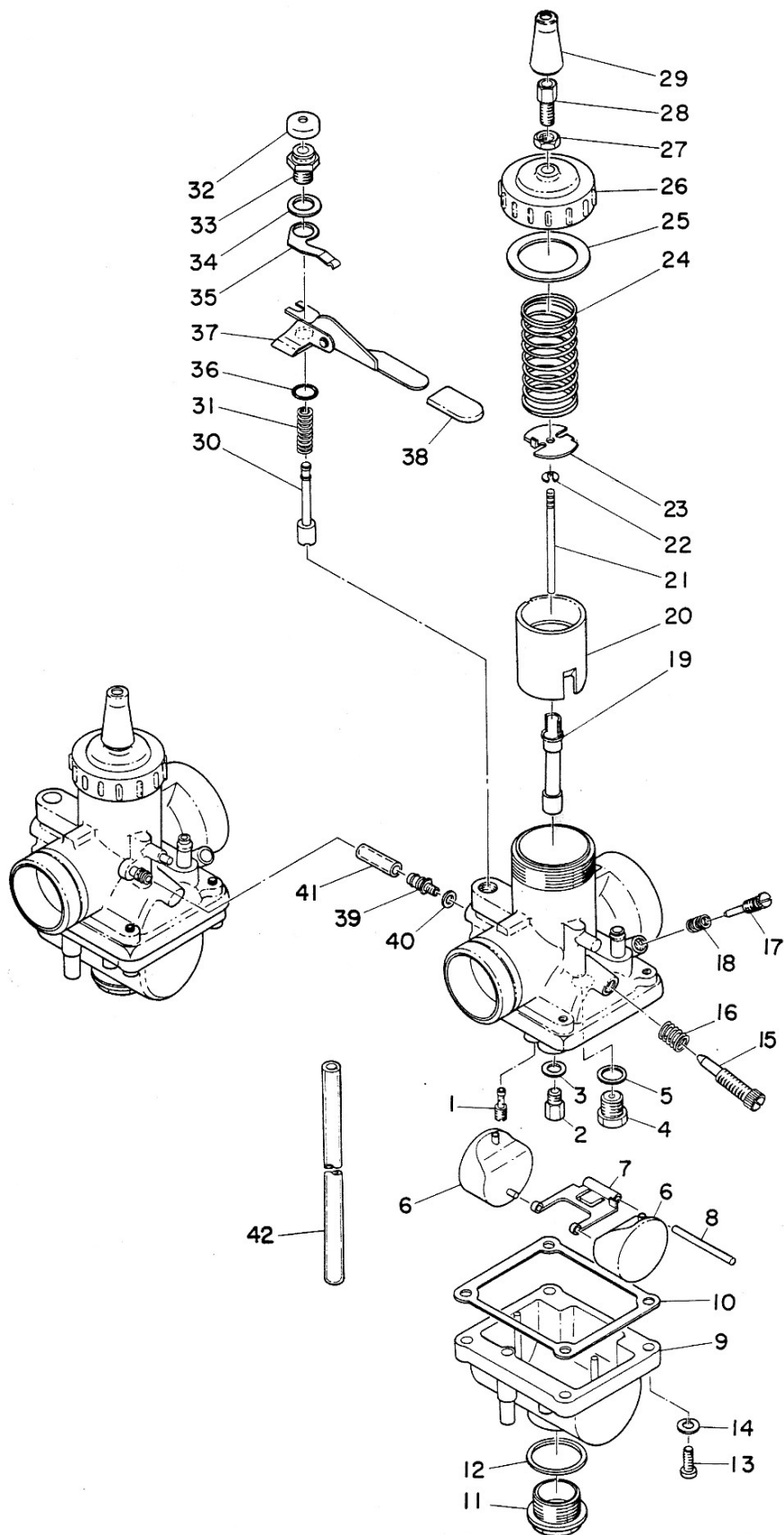


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CARBURETOR

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
12- 0-1	280-14101-00	CARBURETOR ASS'Y (L.H)	 1		
12- 0-2	280-14102-00	CARBURETOR ASS'Y (R.H)	 1		
12- 1	193-14142-40	. JET, pilot (#40)	 2		
12- 2	137-14143-20	. JET, main (#100)		U.R 2	STD
	137-14143-22	. JET, main (#110)			
	137-14143-24	. JET, main (#120)			
	137-14143-26	. JET, main (#130)			
12- 3	137-14153-00	. WASHER, main jet	 2		
12- 4	168-14190-20	. VALVE SEAT ASS'Y (#2.0)	 2		
12- 5	214-14195-00	. WASHER, valve seat	 2		
12- 6	278-14185-00	. FLOAT	 4		
12- 7	278-14187-00	. ARM, float	 2		
12- 8	137-14186-00	. PIN, float	 2		
12- 9	278-14181-00	. BODY, float chamber left	 1		
12- 9-1	278-14183-00	. BODY, float chamber right	 1		
12-10	278-14184-00	. GASKET, float chamber	 2		
12-11	278-14115-00	. PLUG, screw	 2		
12-12	278-14117-00	. WASHER, screw plug	 2		
12-13	98502-04016	. SCREW, pan head	 8		
12-14	92901-04100	. WASHER, spring	 8		
12-15	204-14122-00	. SCREW, throttle	 2		
12-16	127-14134-00	. SPRING, air adjusting	 2		
12-17	152-14123-00	. SCREW, air adjusting	 2		
12-18	137-14133-00	. SPRING, throttle stop	 2		
12-19	280-14141-30	. NOZZLE, main (0-0)	 2		

Fig. 12 CARBURETOR

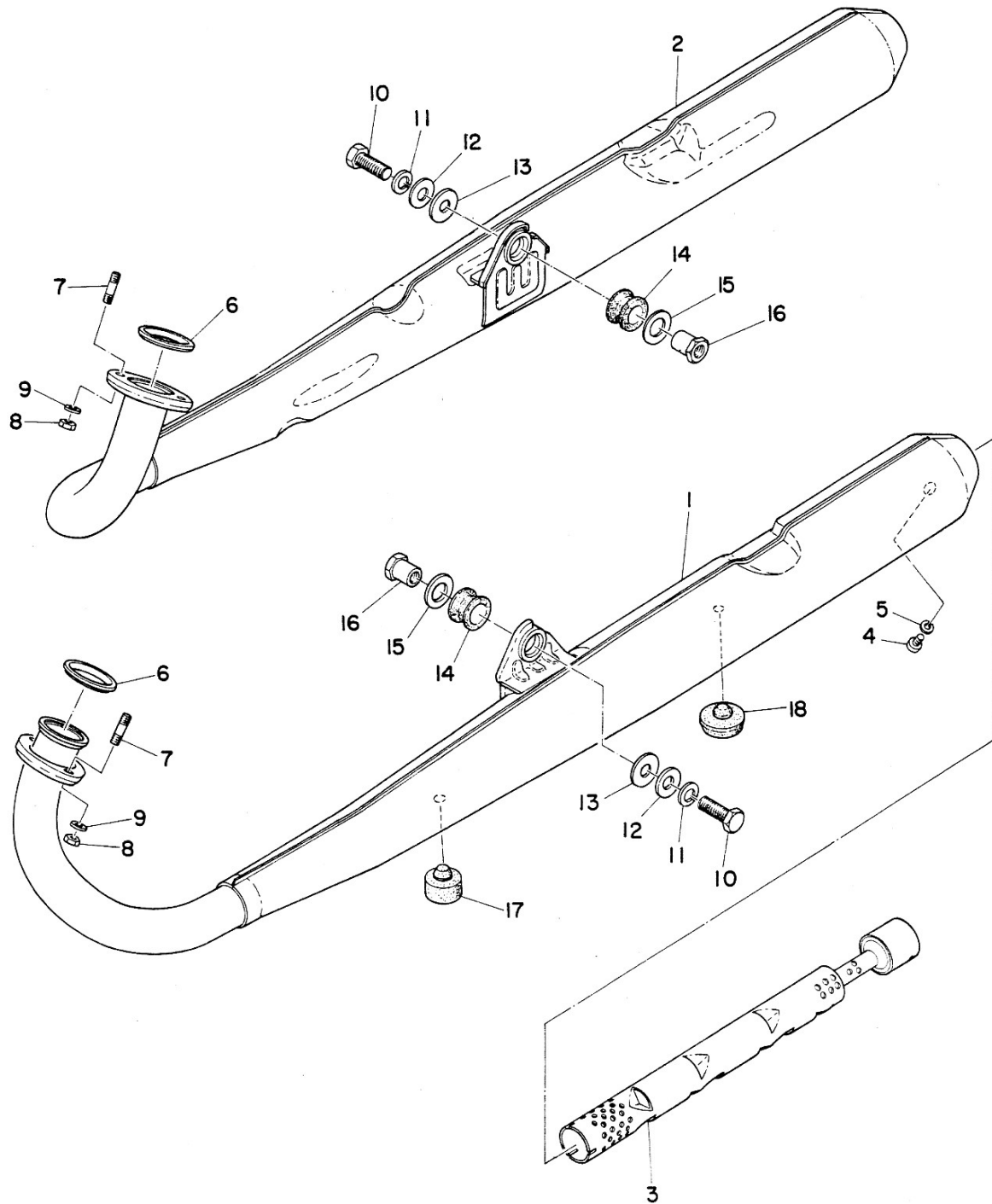


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CARBURETOR

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
12-20	278-14112-20	. VALVE, throttle left (#2.0)	1		
12-20-1	278-14113-20	. VALVE, throttle right (#2.0) ...	1		
12-21	168-14116-07	. NEEDLE (SDP7-4)	2		
12-22	164-14137-00	. CLIP	2		
12-23	256-14936-00	. SEAT, spring	2		
12-24	204-14131-00	. SPRING, throttle valve	2		
12-25	246-14126-00	. PACKING	2		
12-26	802-14158-00	. TOP, mixing chamber	2		
12-27	802-14161-00	. NUT, wire adjusting	2		
12-28	127-14124-20	. SCREW, wire adjusting	2		l = 20
12-29	802-14169-00	. CAP	2		
12-30	603-14171-00	. PLUNGER, starter	1		
12-31	256-14135-00	. SPRING, plunger	1		
12-32	802-14173-00	. COVER, plunger cap	1		
12-33	278-14174-00	. CAP, plunger	1		
12-34	132-14179-00	. WASHER, starter lever	1		
12-35	170-14178-00	. PLATE, starter lever	1		
12-36	93220-09001	. O-RING	1		
12-37	278-14175-00	. LEVER, starter left	1		
12-38	278-14169-00	. CAP	1		
12-39	278-14251-00	. NIPPLE	1		
12-40	278-14151-00	. WASHER	1		
12-41	278-14485-00	PIPE, joint	1		
12-42	278-14197-00	PIPE, air vent (3-320)	4		

Fig. 13 EXHAUST

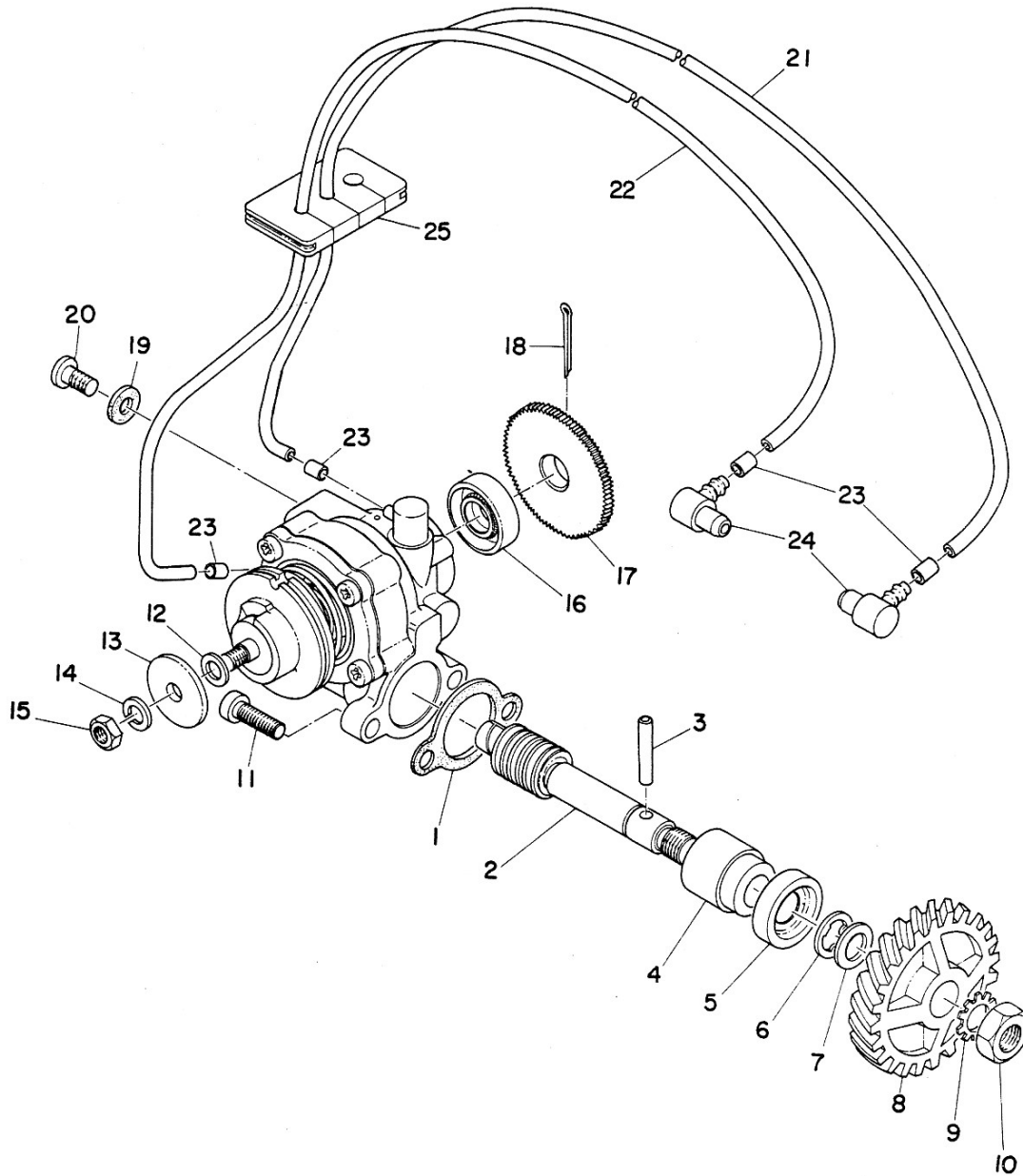


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EXHAUST

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
13- 1	278-14610-00	EXHAUST PIPE ASS'Y, left	 1		
13- 2	278-14620-00	EXHAUST PIPE ASS'Y, right	... 1		
13- 3	278-14753-00	. SILENCER	 2		
13- 4	92501-06010	. SCREW, pan head	 2		
13- 5	92901-06100	. WASHER, spring	 2		
13- 6	152-14613-00	GASKET, exhaust	 2		
13- 7	246-14651-00	STUD	 4		
13- 8	98803-08100	NUT	 4		
13- 9	92901-08100	WASHER, spring	 4		
13-10	278-14777-00	BOLT	 2		
13-11	92901-10100	WASHER, spring	 2		
13-12	92901-10200	WASHER, plain	 2		
13-13	136-22243-00	WASHER (10.5-27-2)	 2		
13-14	168-21639-00	DAMPER, rear	 2		
13-15	168-21615-00	WASHER, special (15.2-28-2)	 2		
13-16	168-21635-00	NUT, rear fender	 2		
13-17	174-24741-00	PAD, seat	 1		
13-18	278-27114-00	STOPPER, main stand	 1		

Fig. 14 OIL PUMP

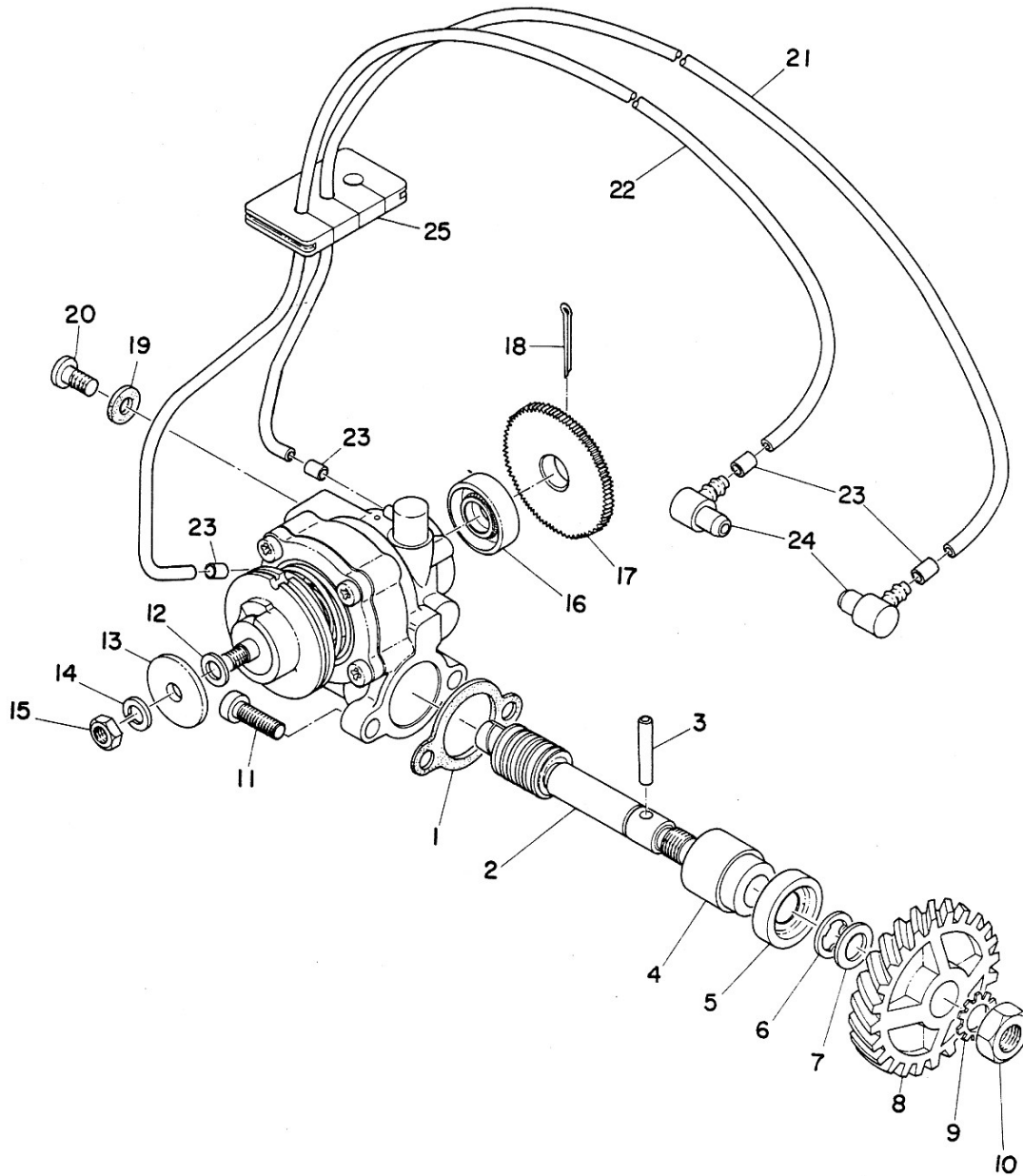


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OIL PUMP

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
14- 1	126-13116-00	GASKET, pump case	1		
14- 2	275-13175-00	SHAFT, worm	1		
14- 3	93603-22028	PIN, dowel (3-22)	1		
14- 4	137-13176-00	METAL, worm shaft outer	1		
14- 5	93101-10002	OIL SEAL (S-10-22-7)	1		
14- 6	93430-08006	CIRCLIP (E-8)	1		
14- 7	102-18138-00	WASHER (10.2-24-1)	1		
14- 8	280-13178-00	GEAR, pump drive (22T)	1		
14- 9	92901-08400	WASHER, tooth	1		
14-10	98801-08300	NUT	1		
14-11	98501-05015	SCREW, pan head	2		
14- 0-1	280-13101-00	OIL PUMP ASS'Y	1		
14-12	137-13137-00	. SHIM, plunger (5.8-10-0.1) ...	1		
14-13	137-13138-01	. PLATE, adjusting	1		
14-14	92901-05100	. WASHER, spring	1		
14-15	98801-05200	. NUT	1		
14-16	93101-10001	. OIL SEAL (S-10-21-5)	1		
14-17	137-13128-00	. PLATE, starter	1		
14-18	91401-12018	. PIN, cotter	1		
14-19	137-13187-00	. GASKET, breather	1		
14-20	98901-04008	. SCREW, bind	1		
14-21	278-13161-00	. PIPE, delivery left (3-420)	1		
14-22	214-13161-01	. PIPE, delivery right (3-240) ...	1		
14-23	214-13164-00	. CLIP, delivery pipe	4		

Fig. 14 OIL PUMP

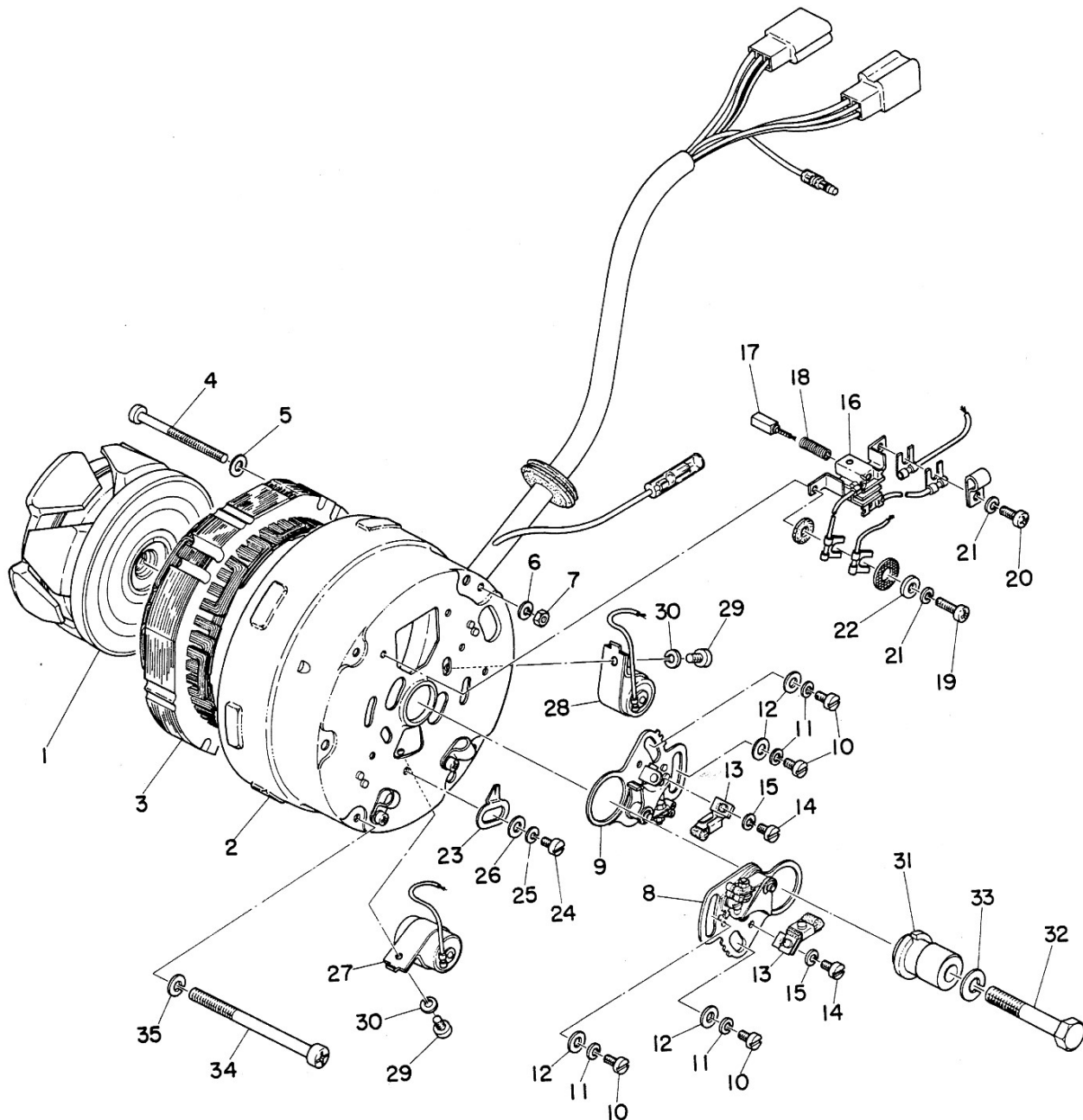


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OIL PUMP

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
14-24	278-13552-00	. NOZZLE	2		
14-25	278-13174-00	HOLDER, oil pipe	1		

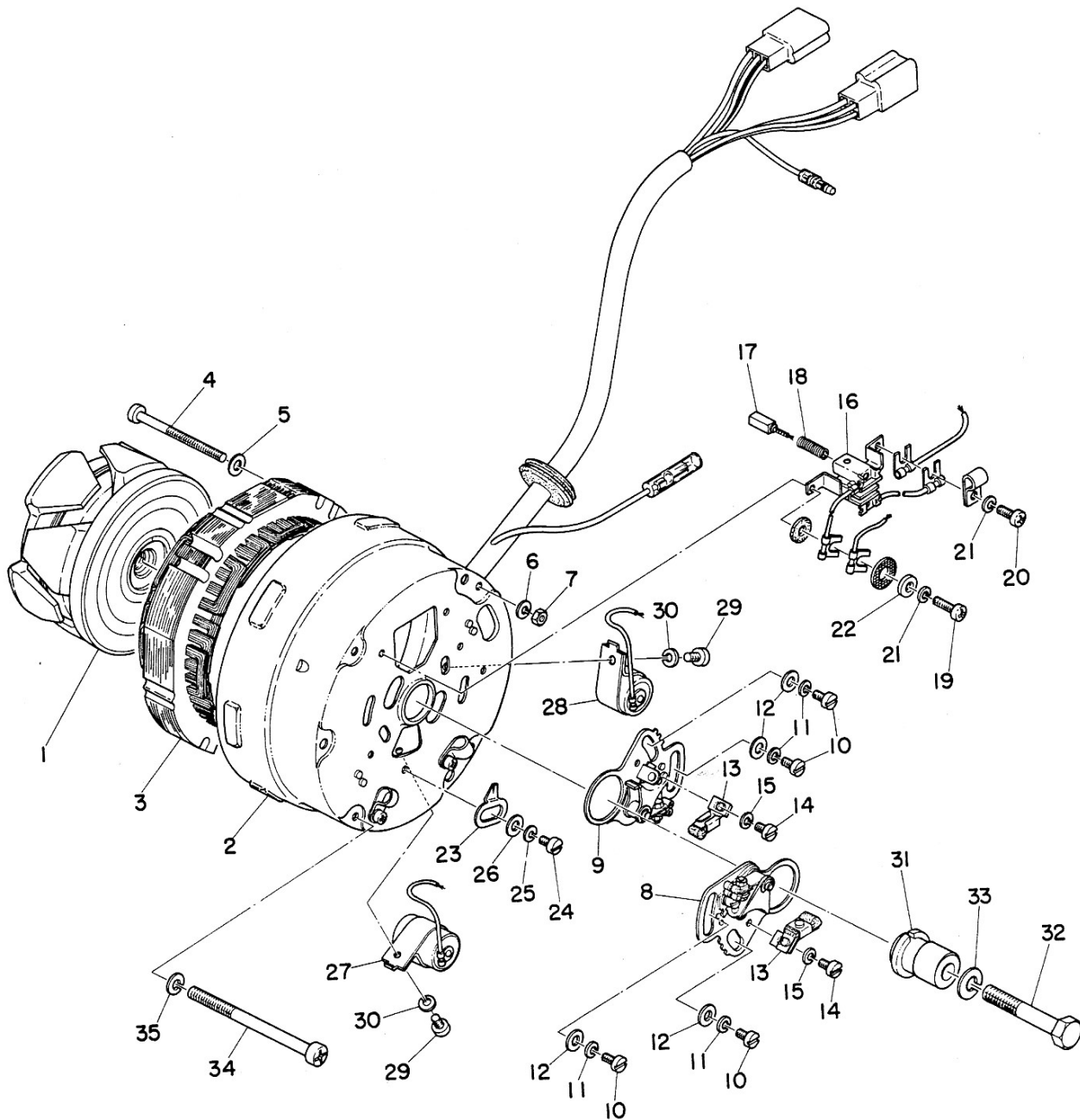
Fig. 15 A. C. GENERATOR



A. C. GENERATOR

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
15- 0-1	278-81600-20	A. C. GENERATOR ASS'Y	1		
15- 1	278-81650-20	. ROTOR ASS'Y	1		
15- 2	278-81610-20	. STATOR ASS'Y	1		
15- 3	278-81640-20	. . ARMATURE ASS'Y	1		
15- 4	802-84131-00	. . SCREW, pan head	4		
15- 5	92901-04200	. . WASHER, plain	4		
15- 6	92901-04100	. . WASHER, spring	4		
15- 7	98801-04200	. . NUT	4		
15- 8	278-81621-20	. . CONTACT BREAKER ASS'Y, left	1		
15- 9	278-81622-20	. . CONTACT BREAKER ASS'Y, right	1		
15-10	98501-04008	. . SCREW, pan head	4		
15-11	92901-04100	. . WASHER, spring	4		
15-12	92901-04200	. . WASHER, plain	4		
15-13	131-81231-20	. . LUBRICATOR	2		
15-14	98501-04008	. . SCREW, pan head	2		
15-15	92901-04100	. . WASHER, spring	2		
15-16	278-81619-20	. . BRUSH HOLDER ASS'Y	1		
15-17	278-81611-20	. . . BRUSH	2		
15-18	278-81617-20	. . . SPRING, brush	2		
15-19	98501-04012	. . SCREW, pan head	1		
15-20	98501-04008	. . SCREW, pan head	1		
15-21	92901-04100	. . WASHER, spring	2		
15-22	92901-04200	. . WASHER, plain	1		

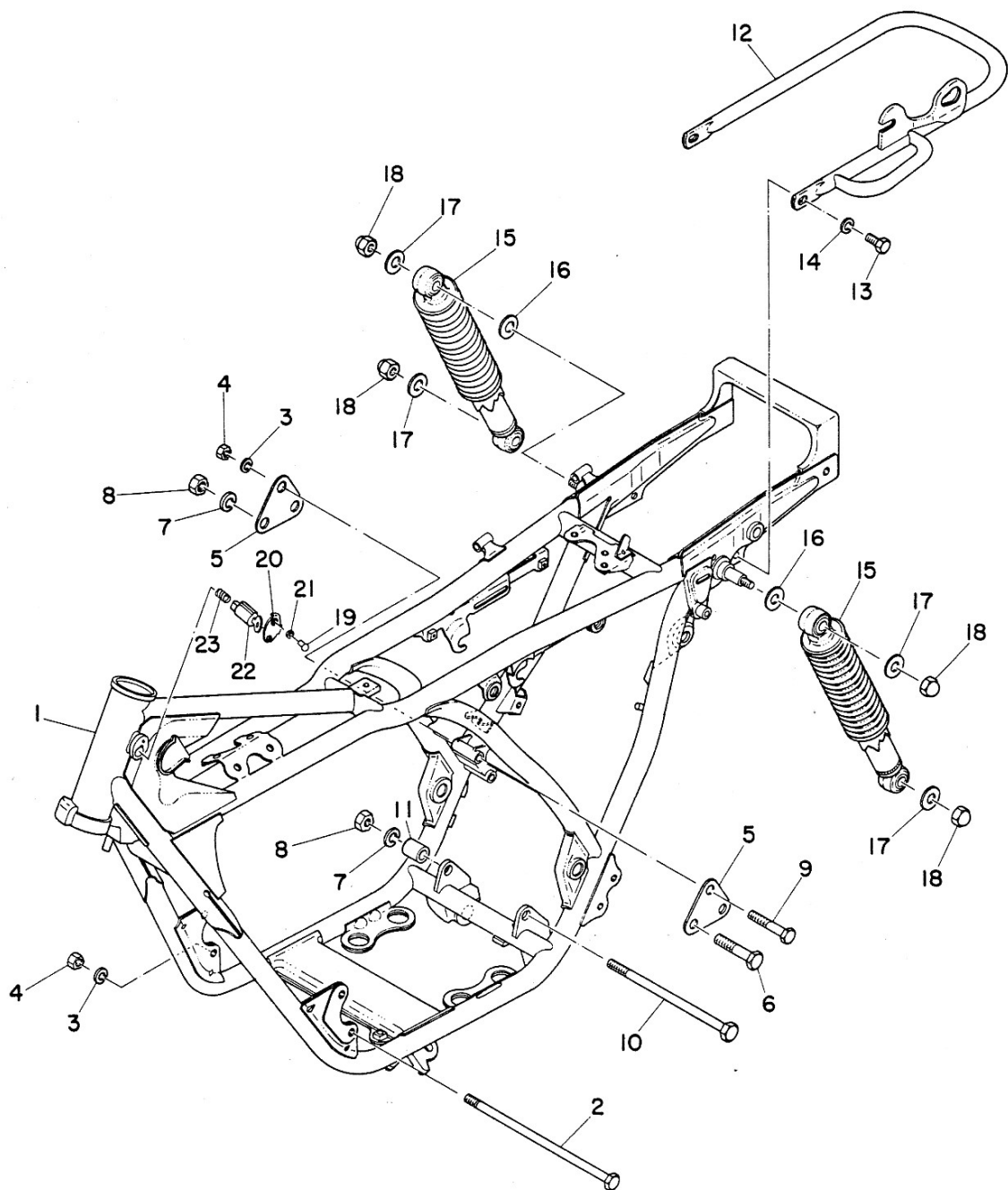
Fig. 15 A. C. GENERATOR



A. C. GENERATOR

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
15-23	278-81632-20	. . PLATE, timing	1		
15-24	164-81245-21	. . SCREW, pan head	1		
15-25	92901-04100	. . WASHER, spring	1		
15-26	92901-04200	. . WASHER, plain	1		
15-27	278-81625-20	. . CONDENSER, left	1		
15-28	278-81626-20	. . CONDENSER, right	1		
15-29	98501-04008	. . SCREW, pan head	2		
15-30	92901-04100	. . WASHER, spring	2		
15-31	278-81651-20	. CAM	1		
15-32	278-81652-20	. BOLT	1		
15-33	92901-08100	. WASHER, spring	1		
15-34	168-81235-21	. SCREW, stator	3		
15-35	92901-05100	. WASHER, spring	3		

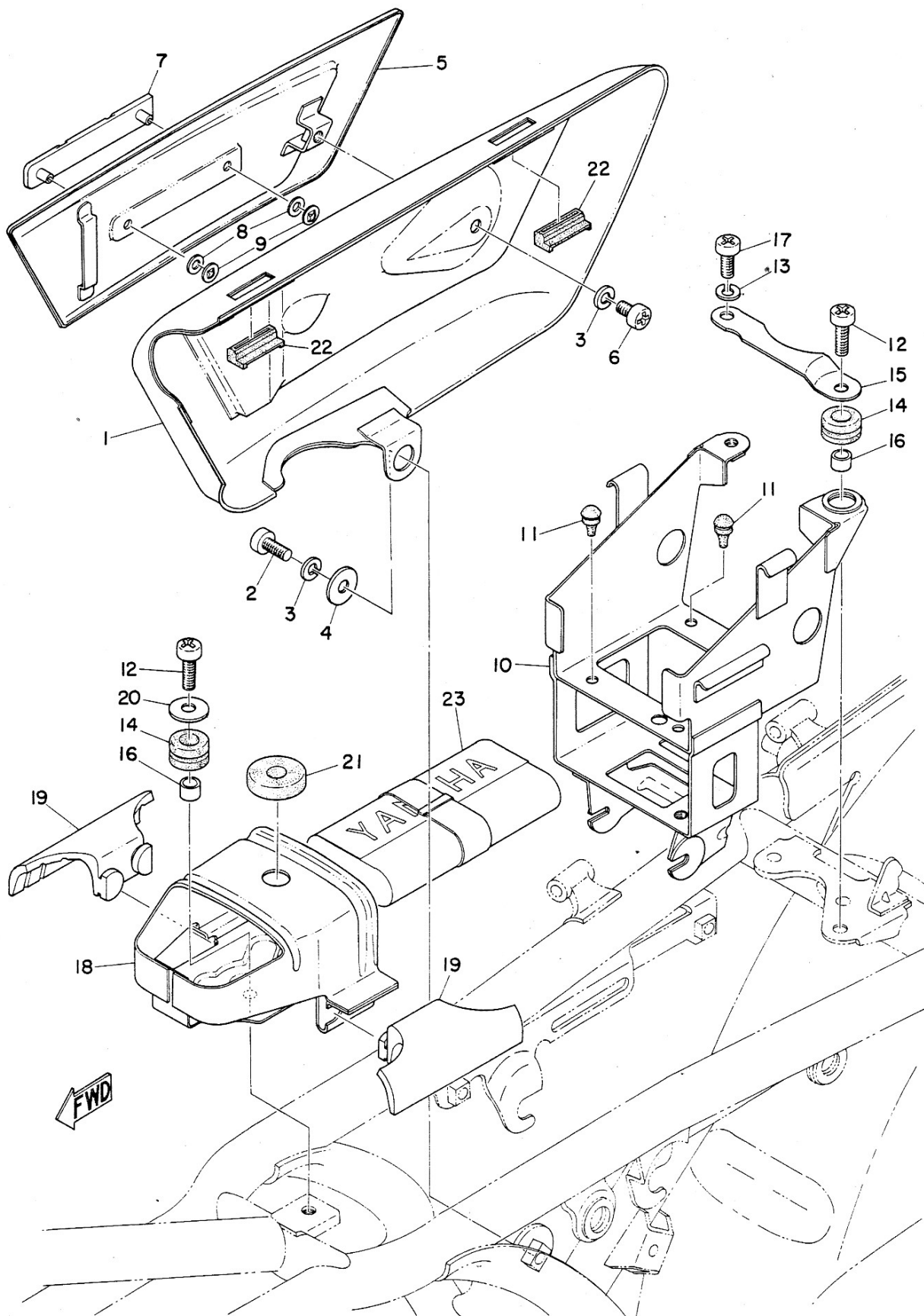
Fig. 16 FRAME & REAR CUSHION



FRAME & REAR CUSHION

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
16- 1	278-21110-00-33	FRAME COMP.	1		
16- 2	169-21482-00	BOLT, engine front	2	90105-08033 240 x 8	
16- 3	92901-08100	WASHER, spring	4		
16- 4	98801-08100	NUT	4		
16- 5	248-21315-00-33	STAY, engine rear upper	2		
16- 6	91201-10055	BOLT	1	255 55 x 10	
16- 7	92901-10100	WASHER, spring	2		
16- 8	92801-10100	NUT	2		
16- 9	97201-08055	BOLT	2	55 x 8	
16-10	91101-10195	BOLT	1	250 x 10	
16-11	278-21472-00	COLLAR, engine mount	1		
16-12	278-21645-00	STAY, rear	1		
16-13	97201-08020	BOLT	2		
16-14	92901-08100	WASHER, spring	2		
16-15	278-22210-20	REAR CUSHION ASS'Y	2		
16-16	135-22243-00	WASHER, rear cushion (14.8-27-2)	2		
16-17	102-22243-00	WASHER, rear cushion (10-25-2) ..	4		
16-18	92803-10700	NUT, crown	4		
16-19	214-23483-00	RIVET	1		
16-20	134-23484-10	CAP, handle lock	1		
16-21	214-23488-00	WASHER, wave	1		
16-22	214-23480-00	STEERING LOCK ASS'Y	1		
16-23	214-23485-00	SPRING	1		

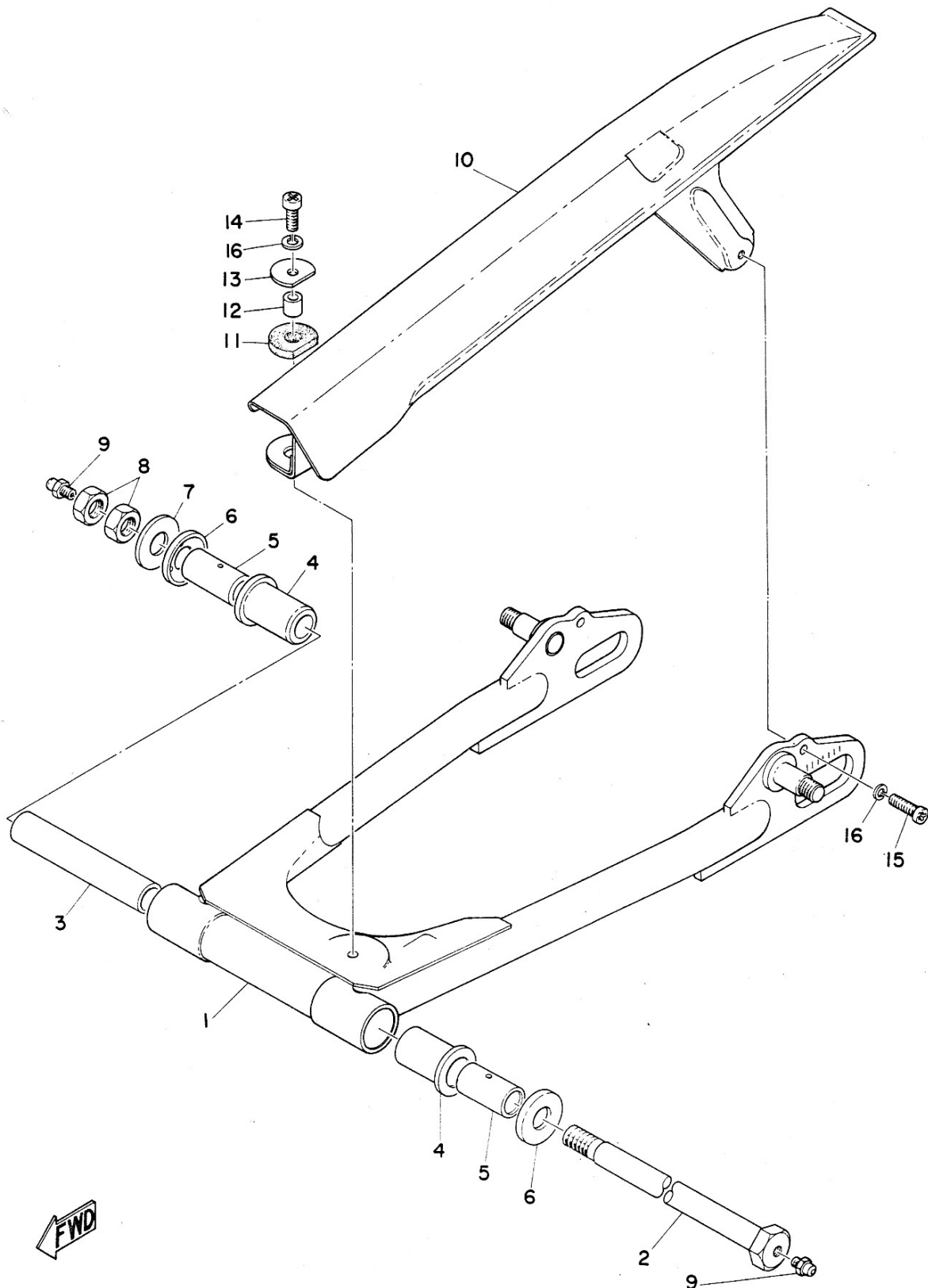
Fig. 17 SIDE COVER, TOOL BOX & BATTERY BOX



SIDE COVER, TOOL BOX & BATTERY BOX

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
17- 1	278-21721-00-61	COVER, side, right	1		Candy Yellow
17- 2	92503-06020	SCREW, pan head	1		
17- 3	92901-06100	WASHER, spring	2		
17- 4	116-28324-00	WASHER, leg shield 2 (6.5-20-1.6)	1		
17- 5	278-21789-00-61	COVER	1		Candy Yellow
17- 6	92501-06010	SCREW, pan head	1		
17- 7	280-21876-00	EMBLEM 250	1		
17- 8	174-28316-00	DAMPER, emblem	2		
17- 9	116-28317-01	NUT	2		
17-10	278-21240-00-33	BATTERY BOX COMP.	1		
17-11	141-21717-00	DAMPER, side cover	4		
17-12	92501-06020	SCREW, pan head	2		
17-13	92901-06100	WASHER, spring	1		
17-14	214-21717-00	DAMPER, battery box	2		
17-15	278-21388-00	HOLDER, battery box	1		
17-16	214-21633-00	COLLAR, fender mount	2		
17-17	92501-06020	SCREW, pan head	1		
17-18	278-21170-00-33	TOOL BOX COMP.	1		
17-19	278-21746-00	DAMPER, tool box	2		
17-20	116-28324-00	WASHER, leg shield 2 (6.5-20-1.6)	1		
17-21	190-23455-00	DAMPER, upper	1		
17-22	278-21717-00	DAMPER, side cover	2		
17-23	278-28100-00	TOOL ASS'Y	1		

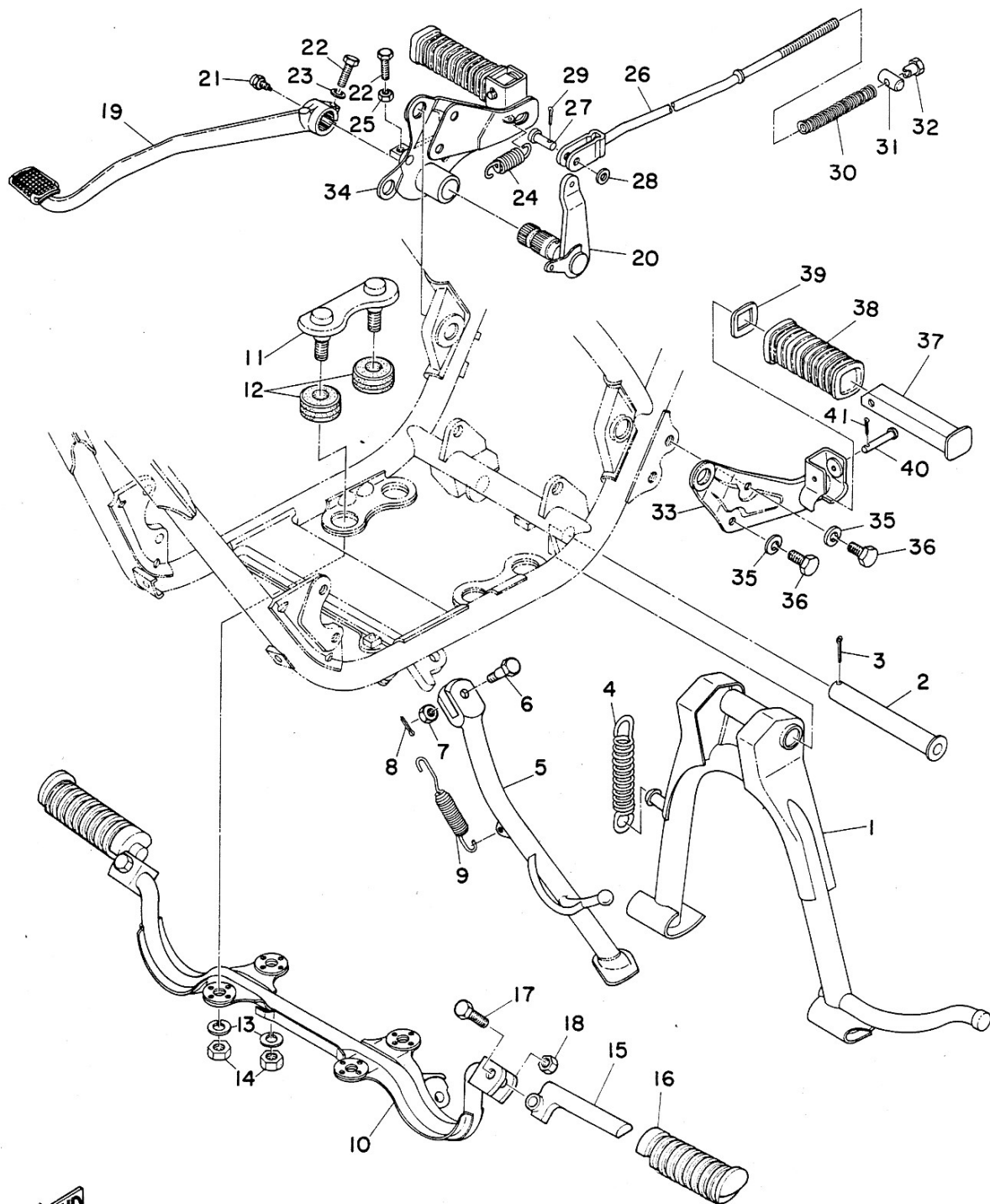
Fig. 18 REAR ARM & CHAIN CASE



REAR ARM & CHAIN CASE

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
18- 1	278-22110-00-33	REAR ARM COMP.	1		
18- 2	156-22141-00	SHAFT, pivot	1		
18- 3	150-22126-00	COLLAR, distance	1		
18- 4	148-22123-00	BUSHING, rear arm 1	2		
18- 5	150-22124-00	BUSHING, rear arm 2	2		
18- 6	150-22128-00	COVER, thrust	2		
18- 7	156-22127-00	SHIM, rear arm (26-34-0.3)	U. R		
18- 8	169-22143-00	NUT, pivot shaft	2		
18- 9	93700-06001	NIPPLE, grease	2		
18-10	278-22311-00-93	CASE, chain	1		
18-11	278-22332-00	DAMPER, chain case	1		
18-12	256-21544-00	COLLAR, fender mount	1		
18-13	278-22316-00	WASHER, chain case	1		
18-14	92501-06020	SCREW, pan head	1		
18-15	92503-06018	SCREW, pan head	1		
18-16	92901-06100	WASHER, spring	2		

Fig. 19 STAND, FOOTREST & BRAKE PEDAL

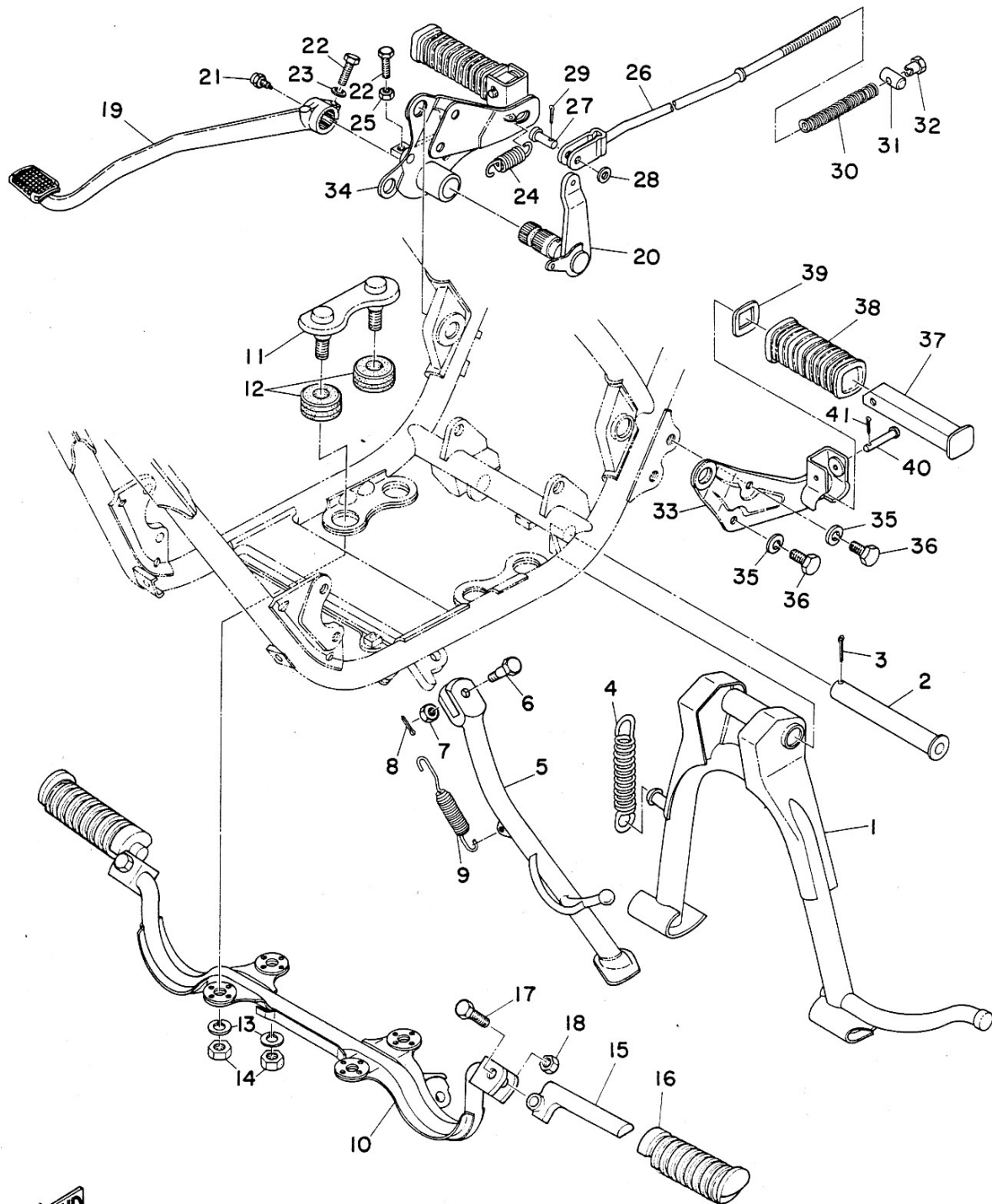


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STAND, FOOTREST & BRAKE PEDAL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
19- 1	278-27111-00	STAND, main	1		
19- 2	278-27112-00	SHAFT, main stand	1		
19- 3	91401-30025	PIN, cotter	1		
19- 4	278-27116-00	SPRING, main stand	1		
19- 5	278-27311-00	STAND, side	1		
19- 6	278-27317-00	BOLT, side stand	1		
19- 7	92801-10500	NUT, slotted	1		
19- 8	91401-20025	PIN, cotter	1		
19- 9	214-27316-00	SPRING, side stand	1		
19-10	278-27412-00	FOOTREST	1		
19-11	278-27416-00	BOLT, footrest	2		
19-12	278-27414-01	DAMPER, footrest	4		
19-13	92901-10100	WASHER, spring	4		
19-14	92801-10100	NUT	4		
19-15	278-27451-00	FOOTREST	2		
19-16	156-27413-00	COVER, footrest	2		
19-17	172-27416-00	BOLT, footrest	2		
19-18	98801-08300	NUT	2		
19-19	278-27211-00-33	PEDAL, brake	1		
19-20	278-27212-00	SHAFT, brake	1		
19-21	93700-06001	NIPPLE, grease	1		
19-22	91201-06025	BOLT	2		
19-23	92901-06100	WASHER, spring	1		
19-24	146-27216-00	SPRING, return	1		

Fig. 19 STAND, FOOTREST & BRAKE PEDAL

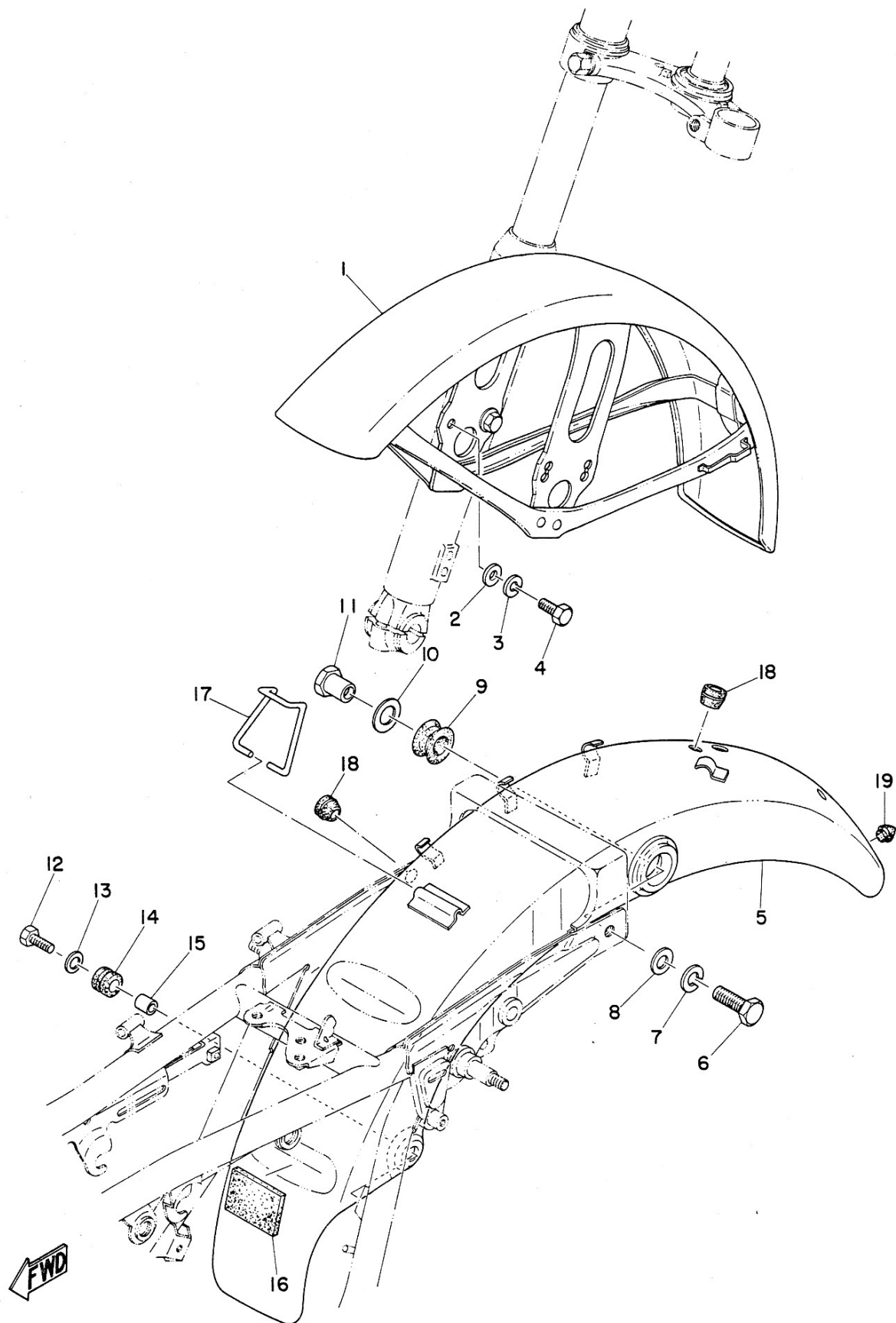


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STAND, FOOTREST & BRAKE PEDAL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
19-25	92801-06300	NUT	1		
19-26	276-27231-00	ROD, brake	1		
19-27	248-27228-00	PIN, link joint	1		
19-28	92901-06200	WASHER, plain	1		
19-29	91401-25012	PIN, cotter	1		
19-30	180-27236-00	SPRING, rod	1		
19-31	156-27237-00	PIN, clevis	1		
19-32	206-27238-00	NUT, adjusting	1		
19-33	278-21445-00	STAY, muffler left	1		
19-34	278-21444-00	STAY, muffler right	1		
19-35	92901-08100	WASHER, spring	4		
19-36	97101-08020	BOLT	4		
19-37	168-27431-10	FOOTREST, rear	2		
19-38	168-27433-10	COVER, rear footrest	2		
19-39	168-27437-10	WASHER, special	2		
19-40	91501-06035	PIN, clevis	2		
19-41	91401-16012	PIN, cotter	2		

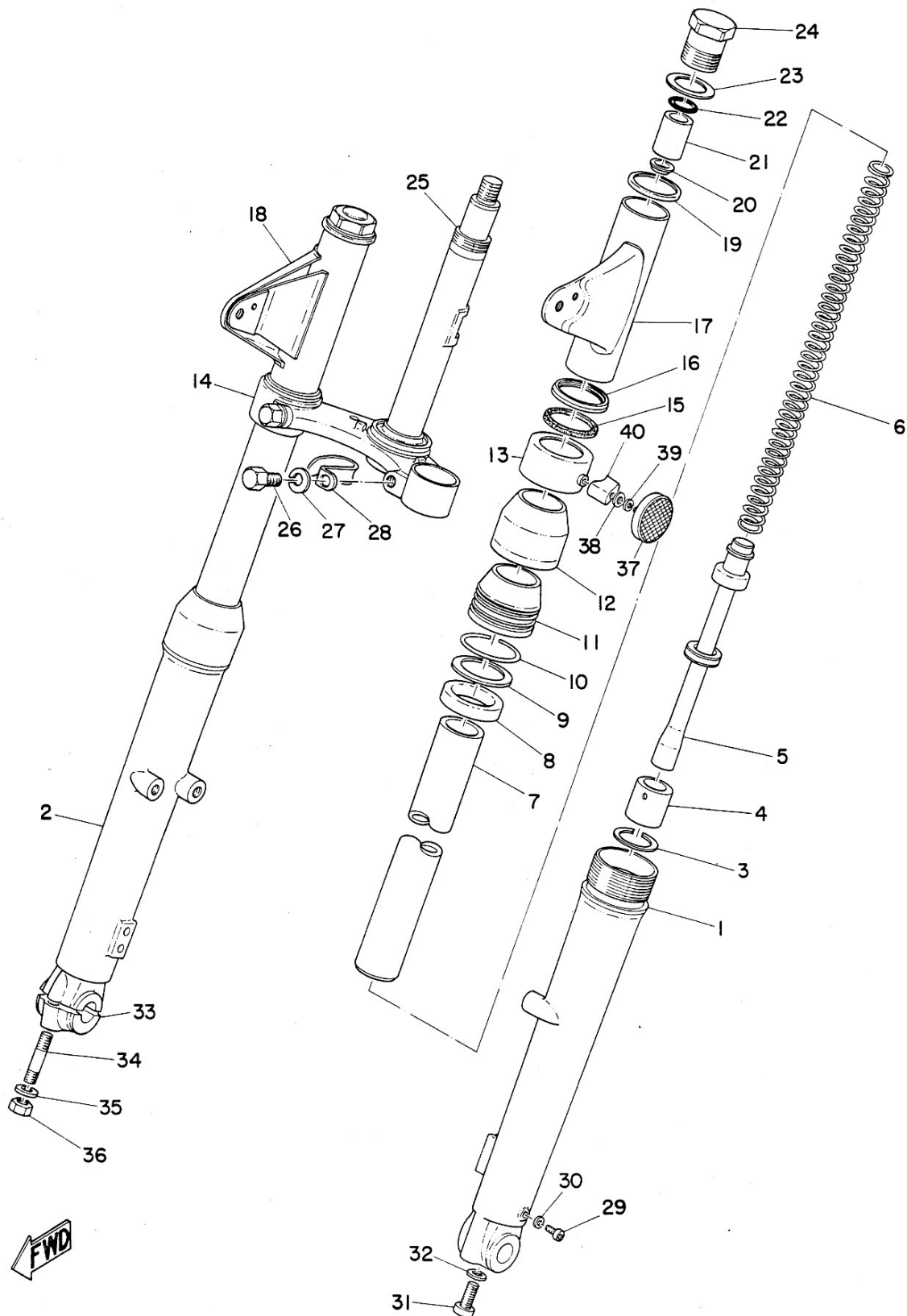
Fig. 20 FRONT FENDER & REAR FENDER



FRONT FENDER & REAR FENDER

Ref.No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
20- 1	278-21510-00-93	FRONT FENDER COMP.	1		
20- 2	92901-08200	WASHER, plain	4		
20- 3	92901-08100	WASHER, spring	4		
20- 4	97202-08020	BOLT	4		
20- 5	278-21610-00-93	REAR FENDER COMP.	1		
20- 6	91101-10035	BOLT	2		
20- 7	92901-10100	WASHER, spring	2		
20- 8	92901-10200	WASHER, plain	2		
20- 9	168-21639-00	DAMPER, rear	2		
20-10	168-21615-00	WASHER, special (8-16-1)	2		
20-11	168-21635-00	NUT, rear fender	2		
20-12	91202-06020	BOLT	2		
20-13	116-28324-00	WASHER, leg shield (6.5-20-1.6)	2		
20-14	214-21727-00	DAMPER, battery box	2		
20-15	214-21633-00	COLLAR, fender mount	2		
20-16	214-21268-00	SEAL, battery box	2		
20-17	278-21336-00	CLAMP, harness	2		
20-18	152-84518-00	GROMMET, tail lamp	2		
20-19	170-21746-00	DAMPER, cleaner stop	1		

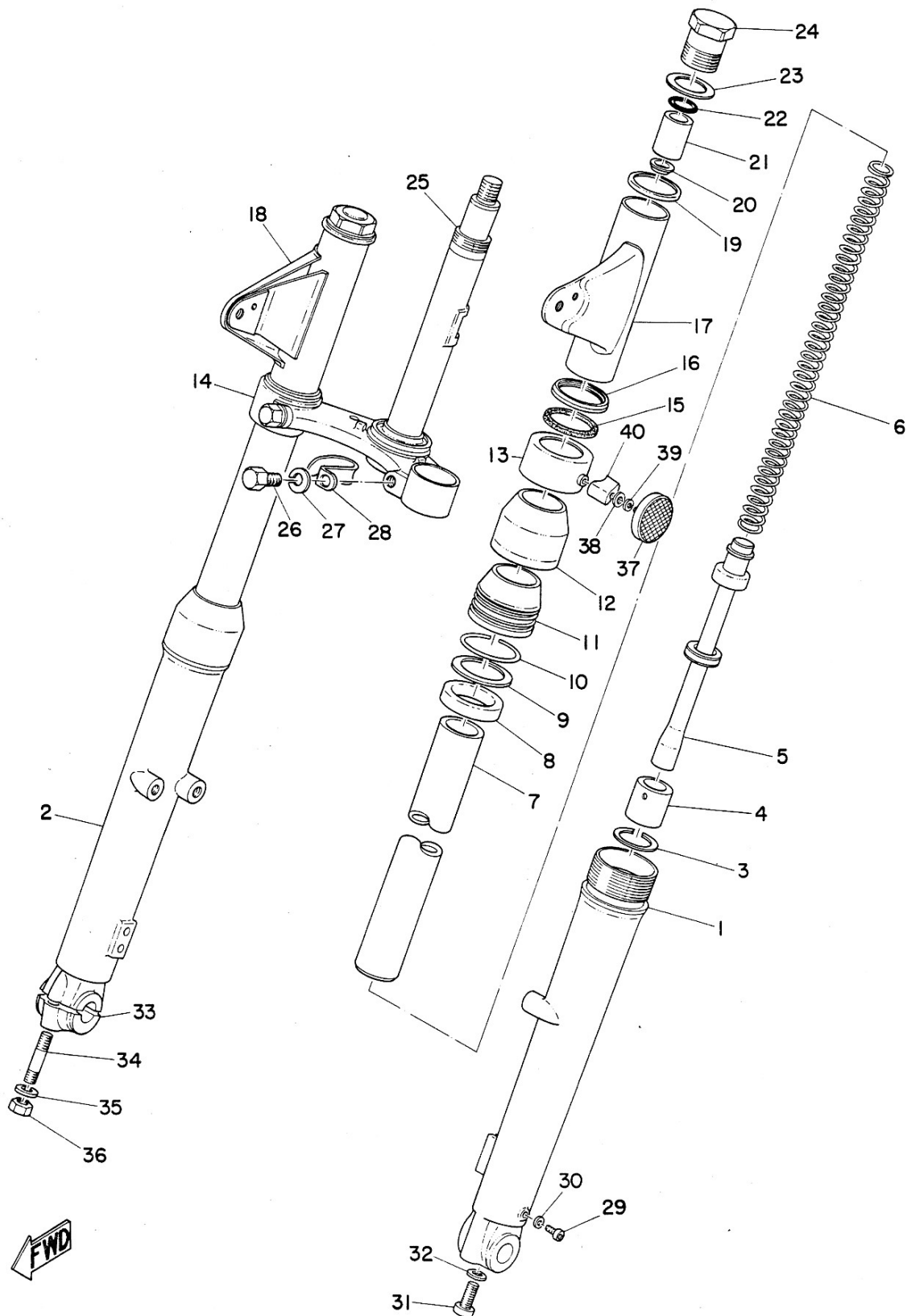
Fig. 21 FRONT FORK



FRONT FORK

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
21- 0-1	278-23100-50-61	FRONT FORK ASS'Y	1		Candy Yellow
21- 1	278-23126-50	. TUBE, outer left	1		
21- 2	278-23136-50	. TUBE, outer right	1		
21- 3	93420-28025	. CIRCLIP	2		
21- 4	278-23171-50	. PISTON, front fork	2		
21- 5	278-23170-50	. CYLINDER COMP.	2		
21- 6	278-23141-50	. SPRING, fork	2		
21- 7	278-23124-50	. TUBE, inner	2		
21- 8	278-23145-50	. OIL SEAL	2		
21- 9	214-23146-00	. WASHER, oil seal	2		
21-10	214-23156-00	. CLIP, oil seal	2		
21-11	278-23144-50	. SEAL, dust	2		
21-12	278-23148-50	. COVER, dust seal	2		
21-13	278-23122-50	. COVER, outer left	1		
21-14	278-23132-50	. COVER, outer right	1		
21-15	214-23163-00	. PACKING	2		
21-16	278-23116-50	. GUIDE, cover under	2		
21-17	278-23121-50-61	. COVER, upper left	1		Candy Yellow
21-18	278-23131-50-61	. COVER, upper right	1		Candy Yellow
21-19	278-23115-50	. GUIDE, cover upper	2		
21-20	278-23142-50	. SEAT, spring upper	2		
21-21	214-23118-00	. SPACER	2		
21-22	214-23114-00	. PACKING	2		
21-23	256-23112-61	. WASHER, cap	2		

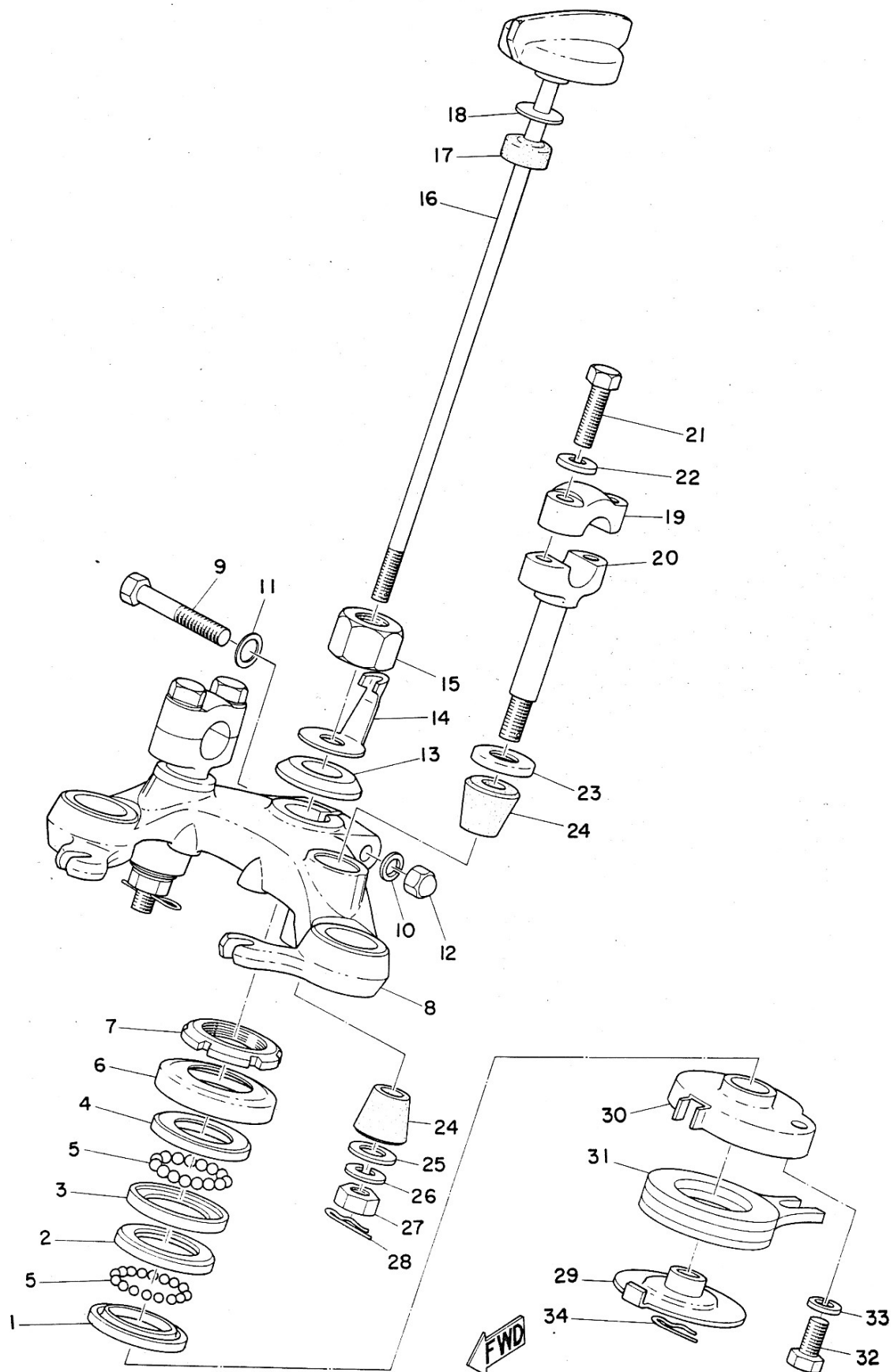
Fig. 21 FRONT FORK



FRONT FORK

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
21-24	256-23111-60	. BOLT, cap	2		
21-25	278-23340-50-33	. UNDER BRACKET COMP.	1		
21-26	278-23346-50	. BOLT, under bracket	2		
21-27	92901-10100	. WASHER, spring	2		
21-28	214-23318-00	. HOLDER, wire	1		
21-29	122-23119-01	. PLUG, drain	2		
21-30	122-23129-00	. GASKET, drain plug	2		
21-31	278-23181-50	. BOLT	2		
21-32	278-23158-50	. PACKING	2		
21-33	278-23167-50	. HOLDER, axle	1		
21-34	278-23128-50	. BOLT, axle holder	2		
21-35	92901-08100	. WASHER, spring	2		
21-36	98801-08100	. NUT	2		
21-37	256-85111-10	REFLECTOR	2		
21-38	92901-05200	WASHER, plain	2		
21-39	92901-05100	WASHER, spring	2		
21-40	278-85113-00	DAMPER	2		

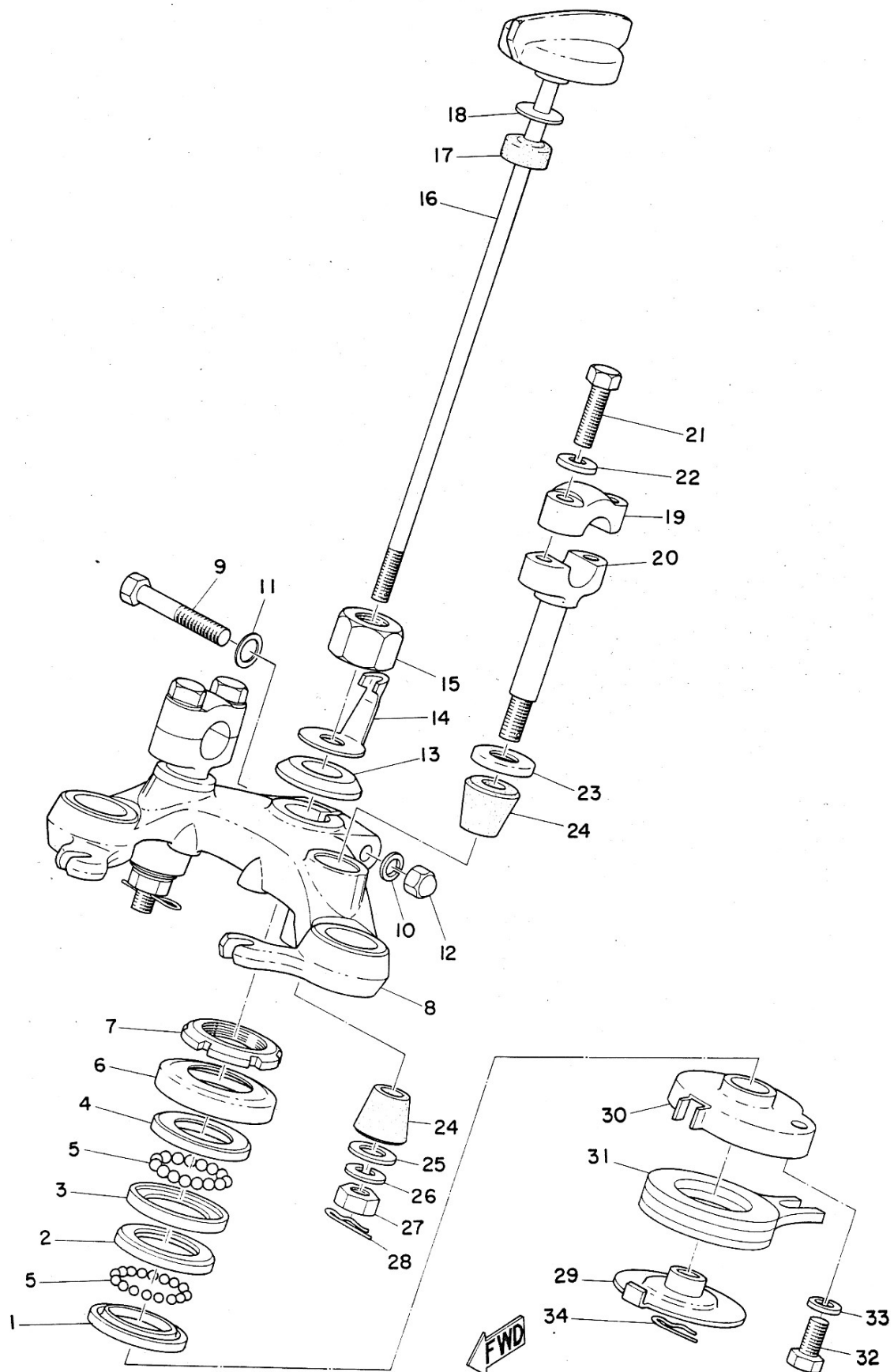
Fig. 22 STEERING



STEERING

Ref.No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
22- 1	156-23411-00	RACE, ball 1	1		
22- 2	156-23412-00	RACE, ball 2	1		
22- 3	183-23411-00	RACE, ball 1	1		
22- 4	183-23412-00	RACE, ball 2	1		
22- 5	93501-04011	BALL (1/4 inch)	38		
22- 6	136-23415-00	COVER, ball race	1		
22- 7	137-23454-00	NUT, fitting	1		
22- 8	278-23435-00	CROWN, handle	1		
22- 9	97203-08055	BOLT	1		
22-10	92901-08100	WASHER, spring	1		
22-11	156-27226-00	WASHER, pedal link (8.2-13-0.6) ..	1		
22-12	98803-08700	NUT, crown	1		
22-13	174-23443-00	WASHER, crown	1		
22-14	246-23428-00	SPRING, damper	1		
22-15	98803-16200	NUT	1		
22-16	278-23419-00	SHAFT, damper	1		
22-17	141-23427-00	WASHER	1		
22-18	156-23418-00	WASHER, special (6.5-18-0.6) ...	1		
22-19	256-23441-00	HOLDER, handle upper	2		
22-20	256-23442-00	HOLDER, handle under	2		
22-21	97203-08030	BOLT	4		
22-22	92903-08100	WASHER, spring	4		
22-23	278-23448-00	WASHER, special	2		
22-24	278-23434-00	RUBBER, bush	4		

Fig. 22 STEERING



STEERING

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
22-25	135-22244-00	WASHER, special (10.5-25-2.0) ..	2		
22-26	92901-10100	WASHER, spring	2		
22-27	92801-10300	NUT	2		
22-28	136-25375-00	CLIP, tension bar	2		
22-29	169-23421-00	PLATE, damper 1	1		
22-30	169-23422-01	PLATE, damper 2	1		
22-31	246-23423-00	PLATE, damper	1		
22-32	97201-08012	BOLT	1		
22-33	92901-08100	WASHER, spring	1		
22-34	156-83525-00	CLIP	1		

Fig. 23 HANDLE & WIRE



HANDLE & WIRE

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
23- 1	278-26111-00	HANDLE	1		STD
	174-26111-20	HANDLE	1		Bar
23- 2	235-26241-10	GRIP, left	1		
23- 3	235-83972-00	SWITCH, handle 4	1		
23- 0-1	214-82910-02	LEVER HOLDER ASS'Y, left	1		
23- 4	214-82911-01	. HOLDER, lever left	1		
23- 5	214-83912-00	. LEVER, left	1		
23- 6	91203-06020	. BOLT	2		
23- 7	214-83913-00	. COLLAR, lever	1		
23- 8	92802-06300	. NUT	1		
23- 9	92901-06100	. WASHER, spring	1		
23- 0-2	233-82920-32	LEVER HOLDER ASS'Y, right ...	1		
23-10	233-82921-31	. HOLDER, lever right	1		
23-11	233-83922-30	. LEVER, right	1		
23-12	214-83913-00	. COLLAR, lever	1		
23-13	233-83915-01	. SCREW, lever fitting	1		
23-14	98801-05500	. NUT, slotted	1		
23-15	92401-12015	. PIN, cotter	1		
23-16	91203-06020	. BOLT	1		
23-17	92901-06100	. WASHER, spring	1		
23-18	92901-05200	. WASHER, plain	1		
23-19	233-83980-30	FRONT SWITCH ASS'Y	1		
23-20	235-26281-00	CAP, grip upper	1		
23-21	235-26282-01	CAP, grip under	1		

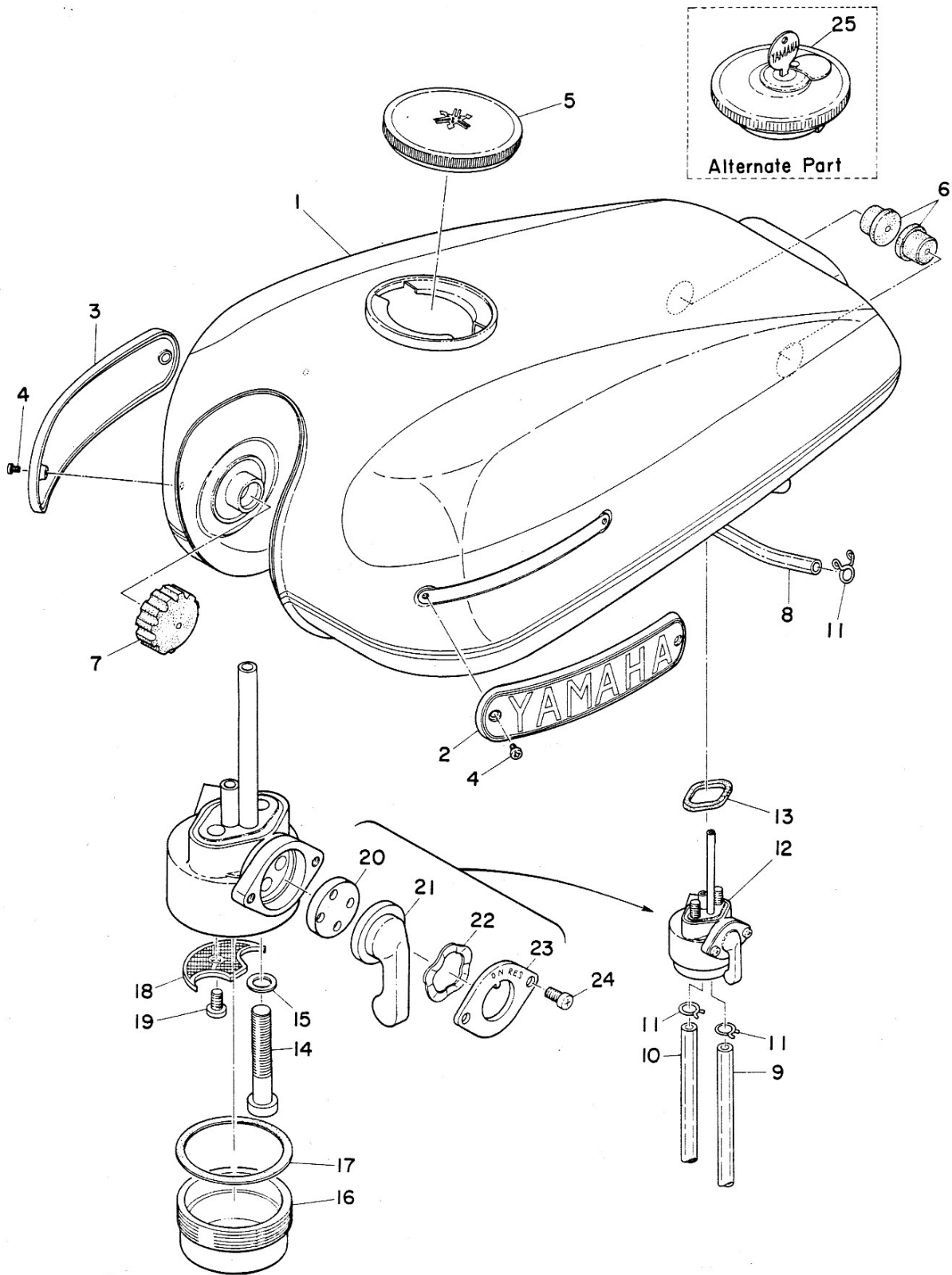
Fig. 23 HANDLE & WIRE



HANDLE & WIRE

Ref. No.	Part No.	Description	Q'ty	A. Mac..
23-22	98501-05018	SCREW, pan head	2	
23-23	214-26243-00	TUBE, guide	1	
23-24	235-26242-10	GRIP, right	1	
23-25	235-26311-02	WIRE, throttle 1	1	STD
	278-26311-20	WIRE, throttle 1	1	Bar
23-26	156-26261-01	CYLINDER, wire	1	
23-27	246-26312-00	WIRE, throttle 2	2	
23-28	278-26321-00	WIRE, pump	1	
23-29	278-26335-00	WIRE, clutch	1	STD
	278-26335-20	WIRE, clutch	1	Bar
23-30	235-26341-30	WIRE, brake front	1	STD
	278-26341-20	WIRE, brake front	1	Bar
23-31	168-26337-00	BOLT, wire adjusting A	1	
23-32	168-26344-00	NUT, adjusting	2	
23-33	156-26346-00	BOLT, adjusting	1	
23-34	156-27229-00	PIN, link joint 2	1	
23-35	156-27226-00	WASHER, pedal link (8.2-13-0.6)	1	
23-36	91401-20012	PIN, cotter	1	
23-37	168-83936-01	BAND, switch cord	2	
23-38	253-26290-00	BACK MIRROR ASS'Y, right	} U.R 1	
23-39	253-26290-10	BACK MIRROR ASS'Y, left		

Fig. 24 FUEL TANK

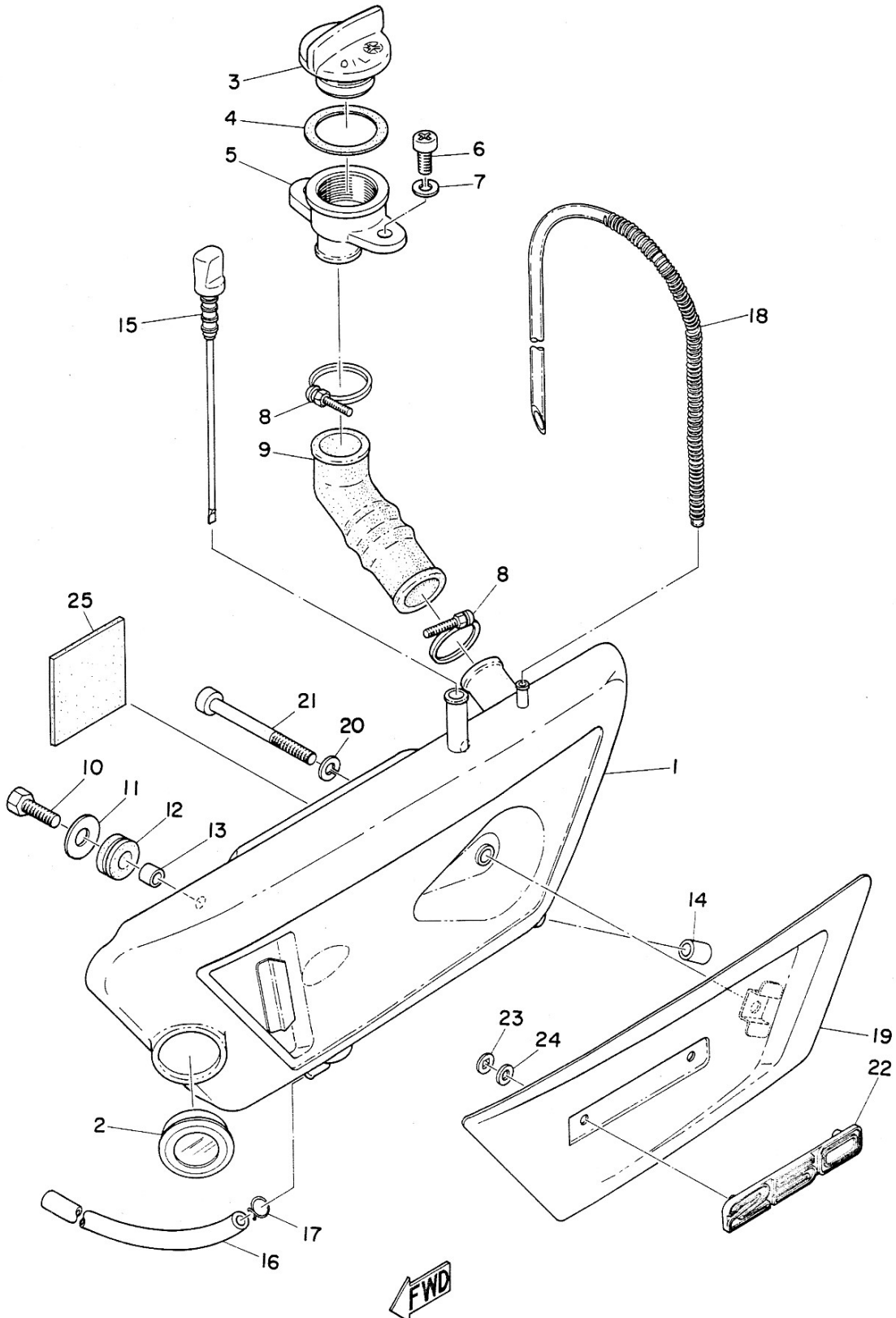


FWD

FUEL TANK

Ref. No.	Part. No.	Description	Q'ty	Applicable Machine No.	Remarks
24- 1	278-24110-00-02	FUEL TANK COMP.	1		Candy Yellow
24- 2	278-24161-60	EMBLEM, fuel tank left	1		
24- 3	278-24162-60	EMBLEM, fuel tank right	1		
24- 4	98501-04008	SCREW, pan head	4		
24- 5	137-24610-00	CAP, ASS'Y	1		
24- 6	122-24182-01	DAMPER, locating 2	2		
24- 7	278-24181-00	DAMPER, locating	2		
24- 8	168-24312-00	PIPE, fuel (5-210)	1		
24- 9	137-24331-00	PIPE, fuel (5-155)	1		
24-10	174-24312-00	PIPE, fuel (5-170)	1		
24-11	101-24356-00	CLIP, pipe	4		
24-12	168-24500-01	FUEL COCK ASS'Y	1		
24-13	168-24512-00	. GASKET, body	1		
24-14	92501-06035	. SCREW, pan head	2		
24-15	137-24513-00	. GASKET, cock fitting	2		
24-16	168-24521-00	. CUP, filter	1		
24-17	168-24522-00	. GASKET, filter	1		
24-18	168-24515-00	. NET, filter	1		
24-19	98501-03006	. SCREW, pan head	1		
24-20	137-24523-00	. VALVE	1		
24-21	168-24524-00	. LEVER, cock	1		
24-22	132-24518-00	. WASHER, wave	1		
24-23	132-24525-00	. PLATE, lever fitting	1		

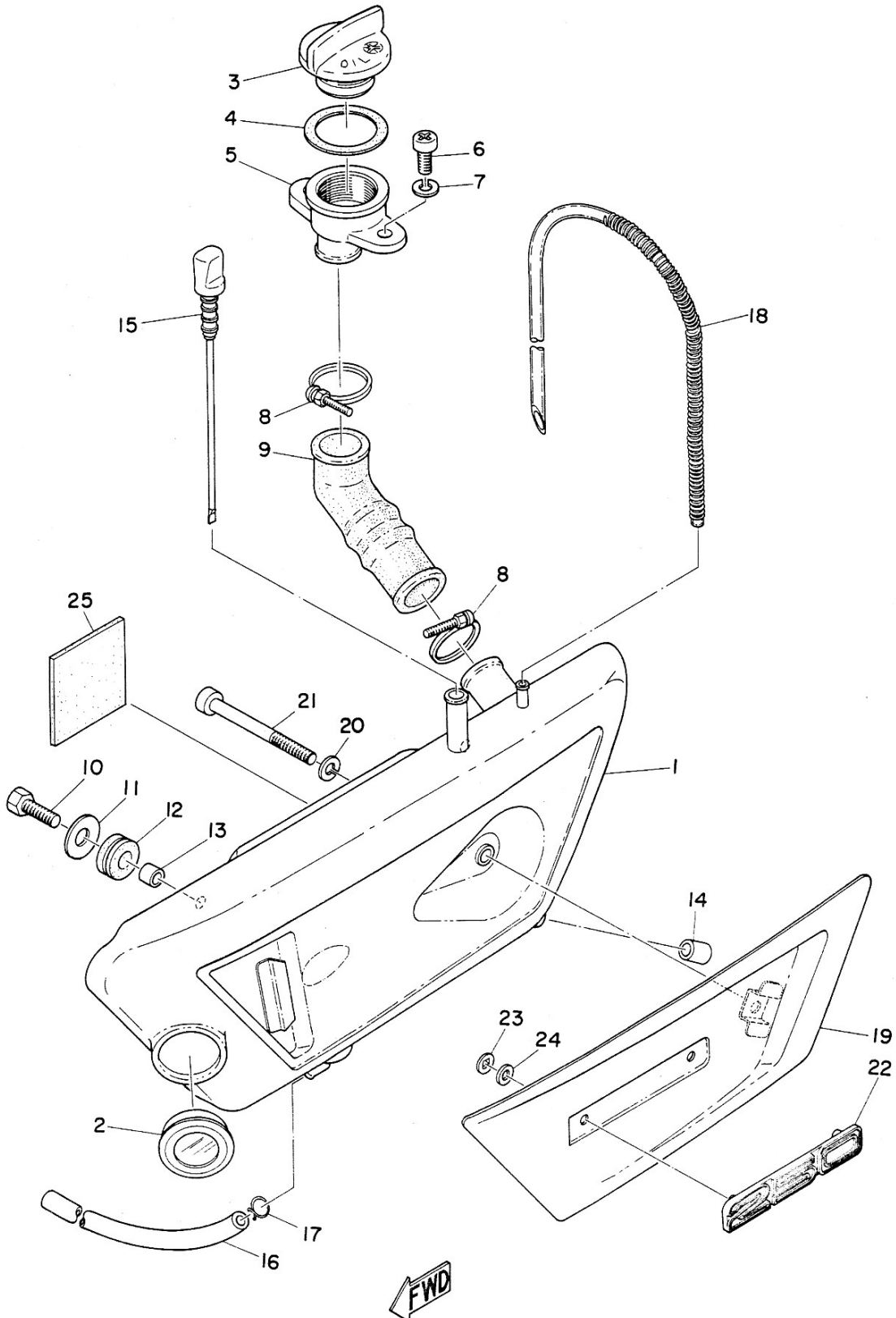
Fig. 25 OIL TANK



OIL TANK

Ref.No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
25- 1	278-21705-00-61	OIL TANK ASS'Y	1		Candy Yellow
25- 2	214-21761-00	. GAUGE, level	1		
25- 3	214-21771-00	CAP, oil tank	1		
25- 4	214-21772-00	GASKET, cap	1		
25- 5	278-21752-00	TUBE, filler	1		
25- 6	92503-06015	SCREW, pan head	2		
25- 7	92901-06100	WASHER, spring	2		
25- 8	278-21755-00	CLAMP, filter tube	2		
25- 9	278-21753-00	TUBE, oil connector	1		
25-10	91201-06020	BOLT	2		
25-11	116-28324-00	WASHER, leg shield (6.5-20-1.6)	2		
25-12	214-21717-00	DAMPER, battery box 1	2		
25-13	214-21633-00	COLLAR, fender mount	2		
25-14	214-21779-00	DAMPER, oil tank 2	1		
25-15	278-21792-00	GAUGE, oil level	1		
25-16	278-21766-00	PIPE, oil (5-700)	1		
25-17	101-24356-00	CLIP, fuel pipe	1		
25-18	278-21745-00	PIPE, oil tank breather	1		
25-19	278-21788-00-61	COVER	1		Candy Yellow
25-20	92901-06100	WASHER, spring	1		
25-21	92501-06065	SCREW, pan head	1		
25-22	280-21786-01	EMBLEM 250	1		
25-23	116-28317-01	NUT	2		

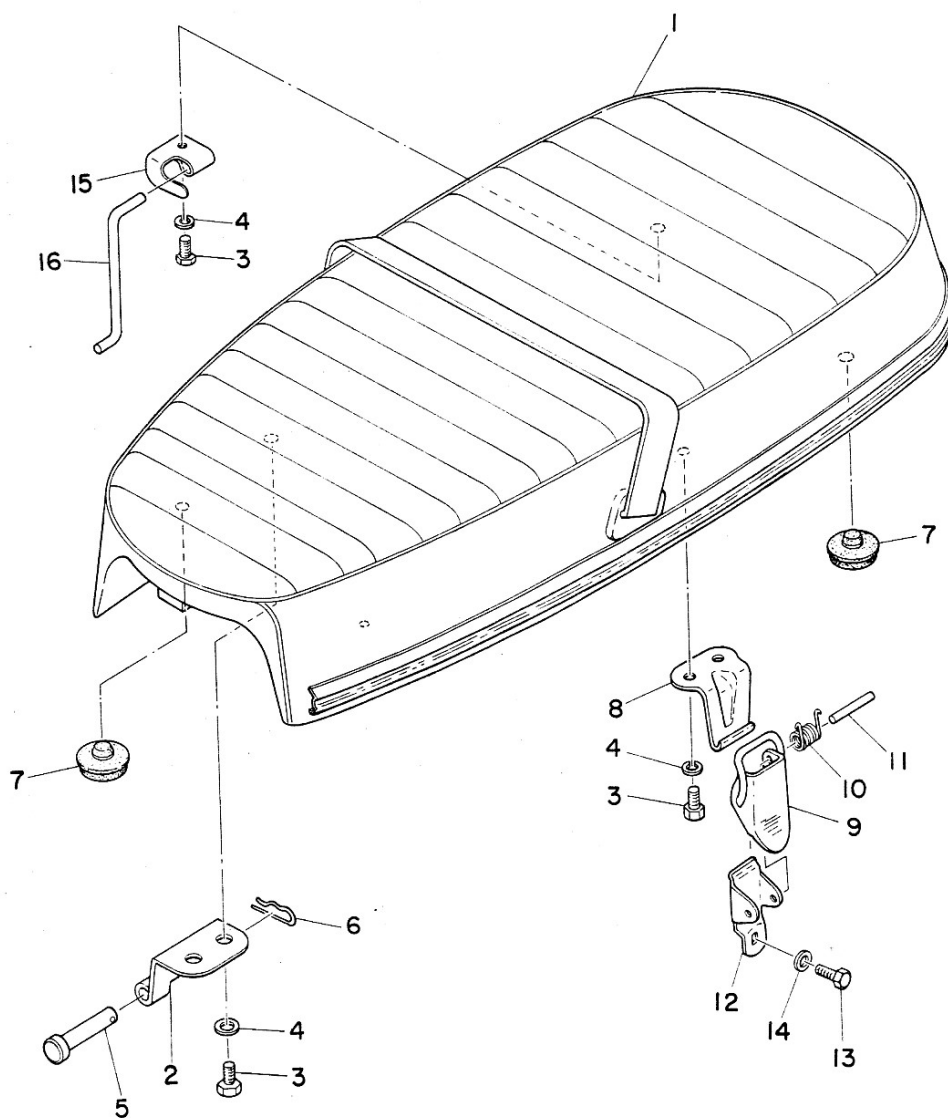
Fig. 25 OIL TANK



OIL TANK

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
25-24	174-28316-00	DAMPER, emblem	2		
25-25	214-21268-00	SEAL, battery box	1		

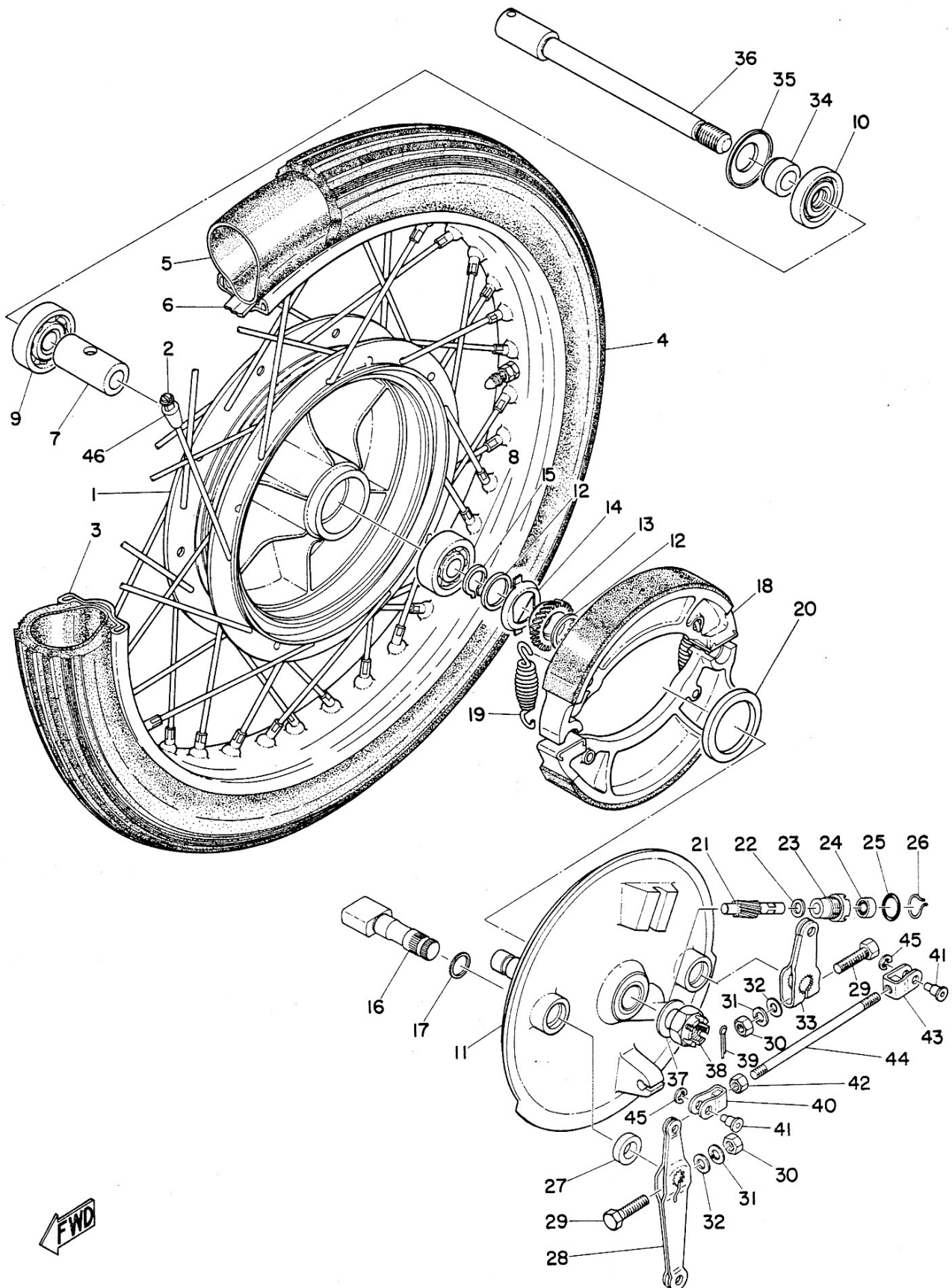
Fig. 26 SEAT



SEAT

Ref.No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
26- 1	278-24730-00	DOUBLE SEAT ASS'Y	1		
26- 2	248-24726-00	HINGE, seat	2		
26- 3	91201-06012	BOLT	7		
26- 4	92901-06100	WASHER, spring	7		
26- 5	91502-05055	PIN, clevis	2		
26- 6	156-83525-00	CLIP	2		
26- 7	174-24741-00	PAD, seat	5		
26- 8	278-24728-00	BRACKET, seat	1		
26- 9	214-24776-00	LEVER, seat	1		
26-10	214-24758-00	SPRING, seat	1		
26-11	214-24727-00	PIN, seat fitting	1		
26-12	214-24718-00	BRACKET, seat under	1		
26-13	91201-06010	BOLT	1		
26-14	92901-06200	WASHER, plain	1		
26-15	276-24748-00	BRACKET, seat stopper	1		
26-16	278-24768-00	STOPPER, seat	1		

Fig. 27 FRONT WHEEL

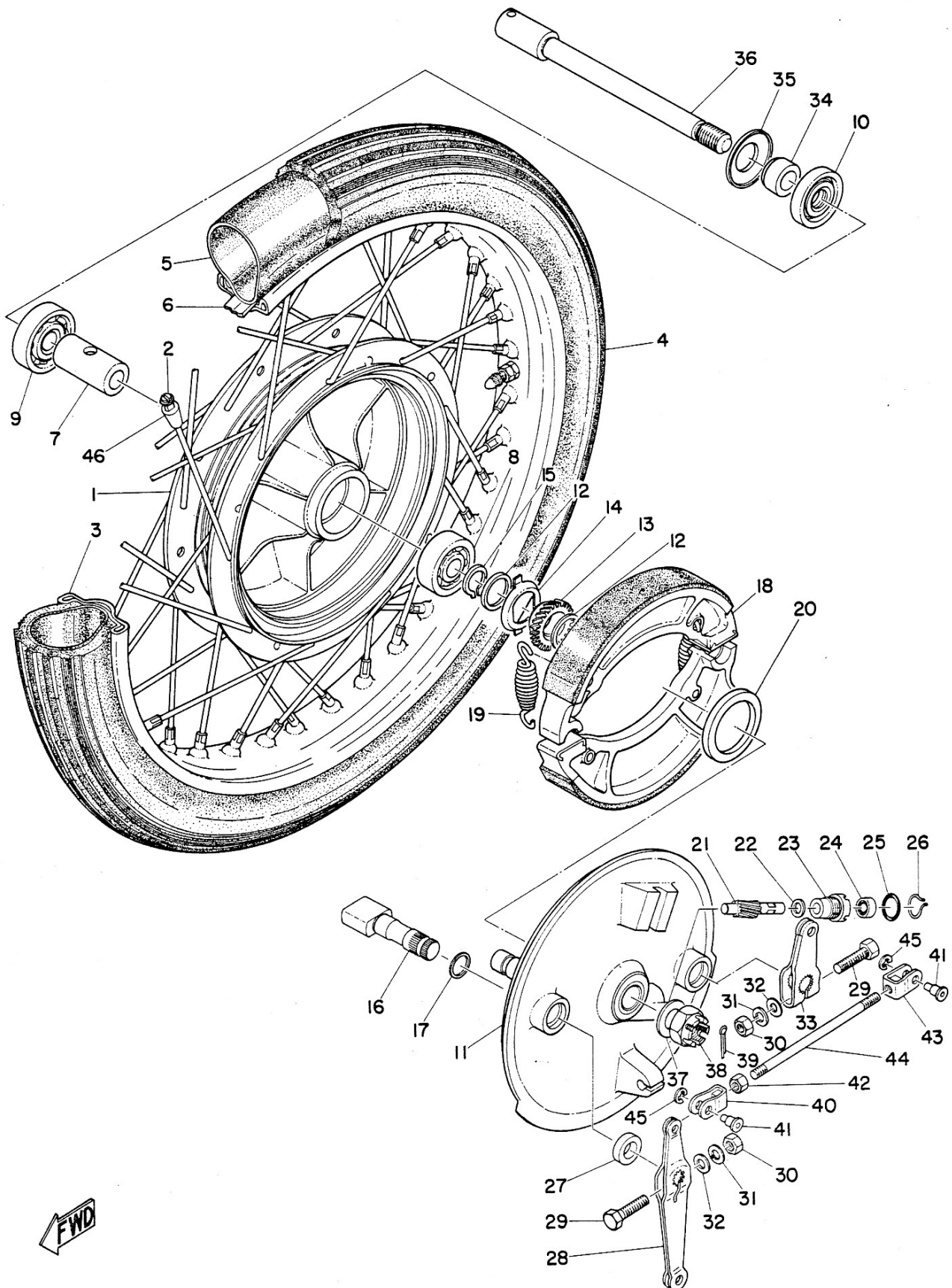


FWD

FRONT WHEEL

Ref. No.	Part. No.	Description	Q'ty	Applicable Machine No.	Remarks
27- 1	246-25111-00	HAB, front	1		
27- 2	152-25104-00	SPOKE SET	1s		
27- 3	94416-18013	RIM (1.60A-18)	1		
27- 4	94130-18039	TIRE, front (3.00-18-4PR)	1		
27- 5	94230-18012	TUBE (3.00-18)	1		
27- 6	94330-18010	BAND, rim (3.00-18)	1		
27- 7	136-25317-00	SPACER, bearing	1		
27- 8	93306-30201	BEARING (6302)	1		
27- 9	93306-30203	BEARING (6302Z)	1		
27-10	93102-22014	OIL SEAL (SD-22-41-7)	1		
27-11	278-25121-00	PLATE, brake shoe	1		
27-12	214-25147-00	WASHER, thrust 2 (22.5-29-1) ..	2		
27-13	246-25135-00	GEAR, drive	1		
27-14	246-25149-00	CLUTCH, meter	1		
27-15	93410-22014	CIRCLIP (S-22)	1		
27-16	246-25151-00	CAMSHAFT	2		
27-17	148-25353-00	SHIM, camshaft (14.2-24-0.5) ...	2		
27-18	168-25130-00	BRAKE SHOE COMP.	2		
27-19	246-25333-00	SPRING, return	2		
27-20	93105-53013	OIL SEAL (SDD-53-65-7)	1		
27-21	214-25138-00	GEAR, meter	1		
27-22	183-25146-00	WASHER, thrust 1 (7-12-0.8) ...	1		
27-23	109-25136-00	BUSHING	1		
27-24	93104-07003	OIL SEAL (SD-7-14-4)	1		

Fig. 27 FRONT WHEEL



FWD

FRONT WHEEL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
27-25	93210-14104	O-RING (2.4-13.8)	1		
27-26	102-25137-00	RING, stop	1		
27-27	148-25359-00	SEAL, camshaft	2		
27-28	168-25155-00	LEVER, camshaft 1	1		
27-29	91203-06030	BOLT	2		
27-30	92803-06100	NUT	2		
27-31	92901-06100	WASHER, spring	2		
27-32	92901-06200	WASHER, plain	2		
27-33	246-25156-00	LEVER, camshaft 2	1		
27-34	174-25183-00	COLLAR, wheel shaft	1		
27-35	246-25118-00	COVER, hub dust	1		
27-36	278-25181-00	SHAFT, wheel	1		
27-37	92901-14200	WASHER, plain	1		
27-38	214-25182-01	NUT	1		
27-39	91401-30030	PIN, cotter	1		
27-40	152-25163-00	END, rod 1	1		
27-41	152-25165-00	PIN, rod end	2		
27-42	92803-06300	NUT	1		
27-43	152-25164-00	END, rod 2	1		
27-44	152-25161-00	ROD, connecting	1		
27-45	93430-04003	CIRCLIP (E-4)	2		
27-46	156-25398-00	BALANCER, wheel	U.R		

Fig. 28 REAR WHEEL



REAR WHEEL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
28- 1	278-25311-00	HUB, rear	1		
28- 2	278-25304-00	REAR SPOKE SET	1s		
28- 3	156-25398-00	BALANCER, wheel	U.R		
28- 4	94418-18026	RIM (1.85B-18)	1		
28- 5	94332-18016	BAND, rim (3.25-18)	1		
28- 6	94232-18020	TUBE (3.25-18)	1		
28- 7	94132-18089	TIRE, rear (3.25-18-4PR)	1		
28- 8	148-25317-00	SPACER, bearing	1		
28- 9	148-25315-00	FLANGE, wheel	1		
28-10	93306-30303	BEARING (6302C3)	2		
28-11	278-25321-01	PLATE, brake shoe	1		
28-12	168-25330-00	BRAKE SHOE COMP.	2		
28-13	246-25333-00	SPRING, return	2		
28-14	278-25351-00	CAMPSHAFT	1		
28-15	248-25353-00	SHIM, camshaft (14.2-24-0.5)	1		
28-16	148-25359-00	SEAL, camshaft	1		
28-17	214-25355-00	LEVER, camshaft	1		
28-18	91203-06025	BOLT	1		
28-19	148-25383-00	COLLAR, wheel shaft	1		
28-20	168-25388-00	PULLER, chain left	1		
28-21	168-25389-00	PULLER, chain right	1		
28-22	98801-08300	NUT	2		
28-23	168-25379-00	BOLT, chain puller	2		
28-24	93102-32037	OIL SEAL (SD-32-45-8)	1		

This exploded view diagram illustrates the assembly of a motorcycle's rear wheel and drive system. The components are numbered as follows:

- 1-10:** Wheel rim, tire, and hub components.
- 11-15:** Brake disc, brake pads, and related hardware.
- 16-20:** Sprocket and chain components.
- 21-25:** Various fasteners and small parts.
- 26-30:** Chain and sprocket assembly components.
- 31-35:** Chain and sprocket assembly components.
- 36-40:** Chain and sprocket assembly components.
- 41-45:** Various fasteners and small parts.
- 46-50:** Various fasteners and small parts.

A 'FWD' arrow is located in the bottom left corner of the diagram.

REAR WHEEL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
28-25	93210-55051	O-RING (3-54.5)	1		
28-26	168-25366-00	CLUTCH, hub	1		
28-27	278-25364-00	DAMPER, clutch	4		
28-28	278-25440-10	GEAR, sprocket wheel (40T)	1		
28-29	148-25412-00	WASHER, lock	2		
28-30	146-25411-00	BOLT, fitting	4		
28-31	152-25387-00	SHAFT, sprocket	1		
28-32	93420-52014	CIRCLIP (R-52)	1		
28-33	93306-20503	BEARING (6205ZC3)	1		
28-34	93104-25008	OIL SEAL (SD-25-47-5)	1		
28-35	168-25367-00	COVER, dust	1		
28-36	168-25386-00	COLLAR, sprocket shaft	1		
28-37	168-25385-00	NUT, sprocket shaft	1		
28-38	150-25381-00	SHAFT, wheel	1		
28-39	275-25382-00	NUT, shaft	1		
28-40	91401-30028	PIN, cotter	1		
28-41	168-25371-00	BAR, tension	1		
28-42	168-35373-00	BOLT, tension bar 1	1		
28-43	92901-08200	WASHER, plain	2		
28-44	98801-08100	NUT	1		
28-45	91401-20015	PIN, cotter	2		
28-46	168-25378-00	BOLT, tension bar 2	1		
28-47	92901-08100	WASHER, spring	1		

This exploded view diagram illustrates the assembly of a motorcycle's rear wheel and drive system. The components are numbered as follows:

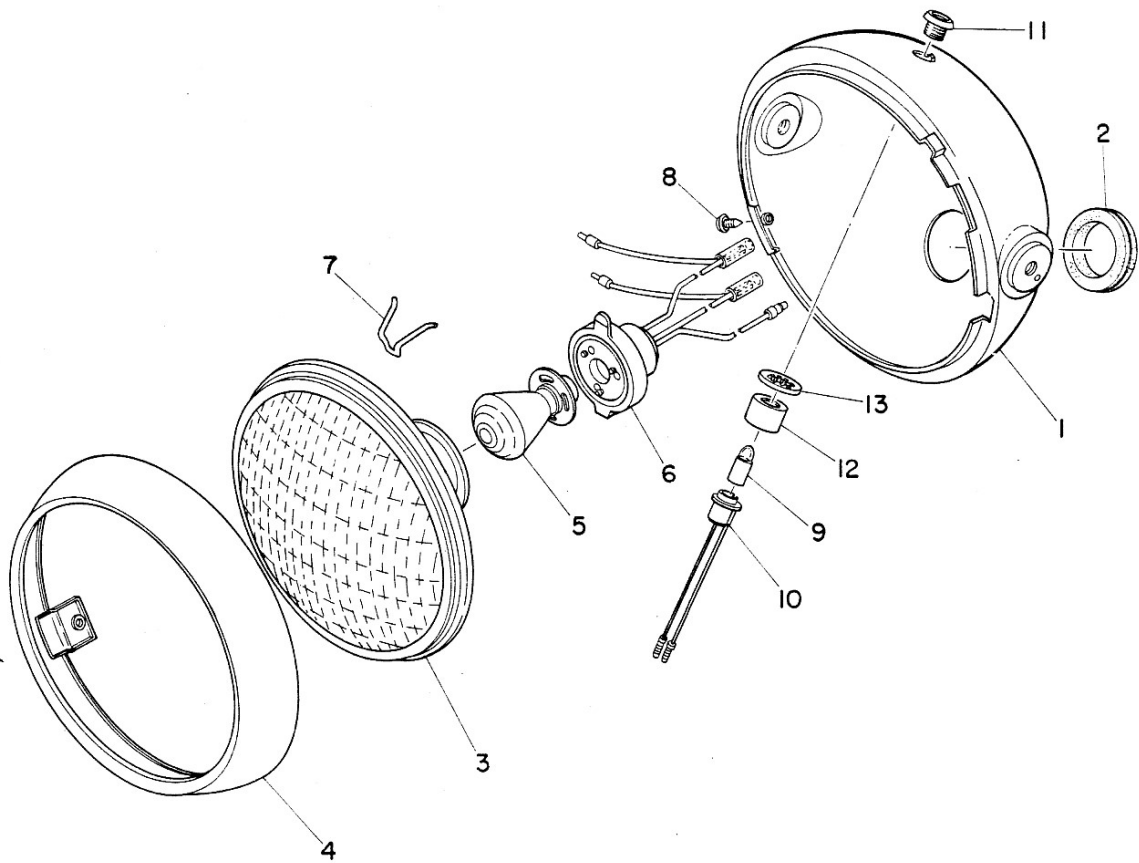
- 1-10:** Wheel rim, tire, and hub components.
- 11-15:** Brake disc, brake pads, and related hardware.
- 16-20:** Sprocket and chain components.
- 21-25:** Various fasteners and hardware.
- 26-30:** Chain and sprocket components.
- 31-35:** Chain and sprocket components.
- 36-40:** Chain and sprocket components.
- 41-45:** Various fasteners and hardware.
- 46-50:** Various fasteners and hardware.

A 'FWD' arrow is located in the bottom left corner of the diagram.

REAR WHEEL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
28-48	98801-08300	NUT	1		
28-49	94535-25092	CHAIN (DK525D-92L)	1		
28-50	94635-25001	JOINT, chain	1		

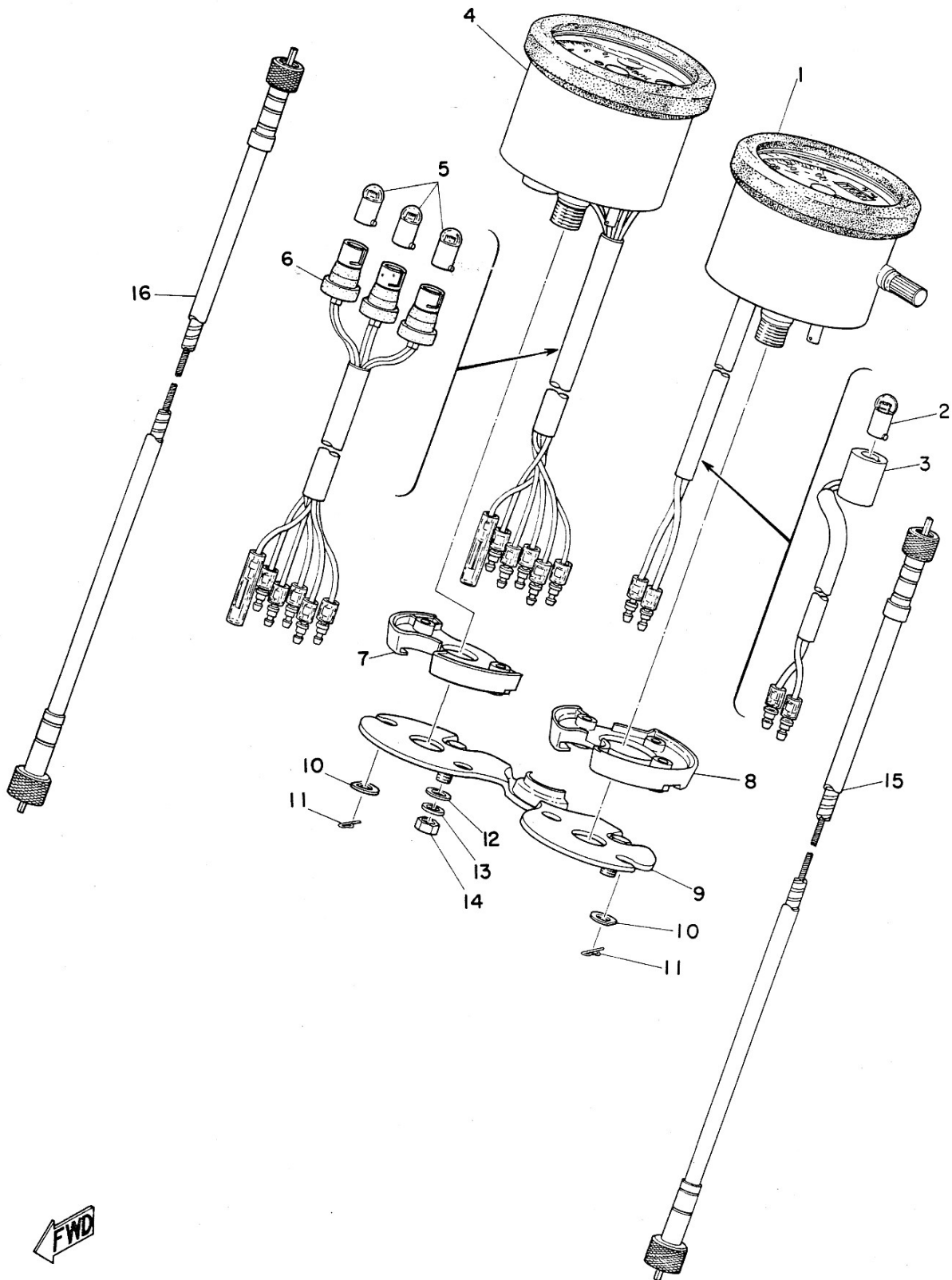
Fig. 29 HEAD LAMP



HEAD LAMP

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
29- 1	246-84330-60-61	BODY ASS'Y	1		Candy Yellow
29- 2	214-84153-60	. GROMMET	1		
29- 0-1	235-84310-00	HEAD LAMP UNIT ASS'Y	1		
29- 3	235-84320-00	. LENS ASS'Y	1		
29- 4	235-84315-00	. RIM, head lamp	1		
29- 5	235-84314-00	. BULB, head lamp (12V 35/25W) ..	1		
29- 6	235-84312-60	. SOCKET	1		
29- 7	148-84324-00	. SPRING, reflector set	4		
29- 8	195-84325-00	SCREW, rim fitting	1		
29- 0-2	235-84301-60	PILOT LAMP ASS'Y	1		
29- 9	235-84346-00	. BULB, pilot (12V 1.5W)	1		
29-10	256-84350-60	. SOCKET ASS'Y	1		
29-11	214-84157-60	. BODY, high beam	1		
29-12	214-84158-60	. NUT, pilot lamp	1		
29-13	92901-12300	. WASHER, tooth	1		

Fig. 30 SPEEDOMETER & TACHOMETER

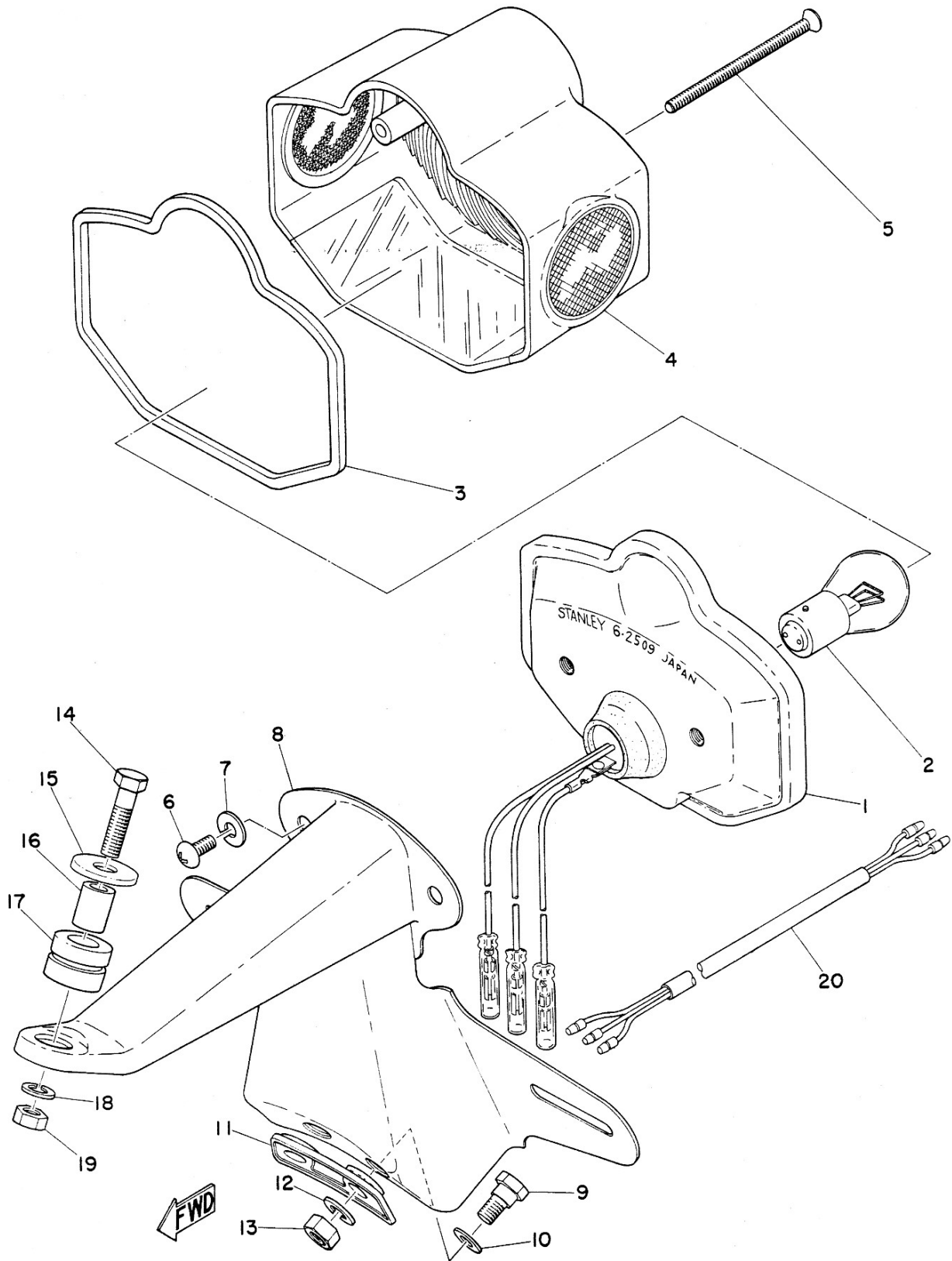


FWD

SPEEDOMETER & TACHOMETER

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
30- 1	278-83570-20	SPEEDOMETER ASS'Y	1		Km/h
	278-83570-40	SPEEDOMETER ASS'Y	1		Mil/h
30- 2	123-83516-20	. BULB, pilot (12V-3W)	1		
30- 3	278-83536-20	. SOCKET, meter	1		
30- 4	278-83540-00	TACHOMETER ASS'Y	1		
30- 5	123-83516-20	. BULB, pilot (12V-3W)	3		
30- 6	278-83520-00	. SOCKET ASS'Y	1		
30- 7	278-83523-00	DAMPER, tachometer	1		
30- 8	278-83526-00	DAMPER, speedometer	1		
30- 9	278-83519-00	BRACKET, meter	1		
30-10	214-83524-00	WASHER, special	4		
30-11	156-83525-00	CLIP	4		
30-12	92901-06200	WASHER, plain	2		
30-13	92901-06100	WASHER, spring	2		
30-14	92801-06100	NUT	2		
30-15	246-83550-00	SPEEDOMETER CABLE ASS'Y ...	1		
30-16	278-83560-00	TACHOMETER CABLE ASS'Y	1		

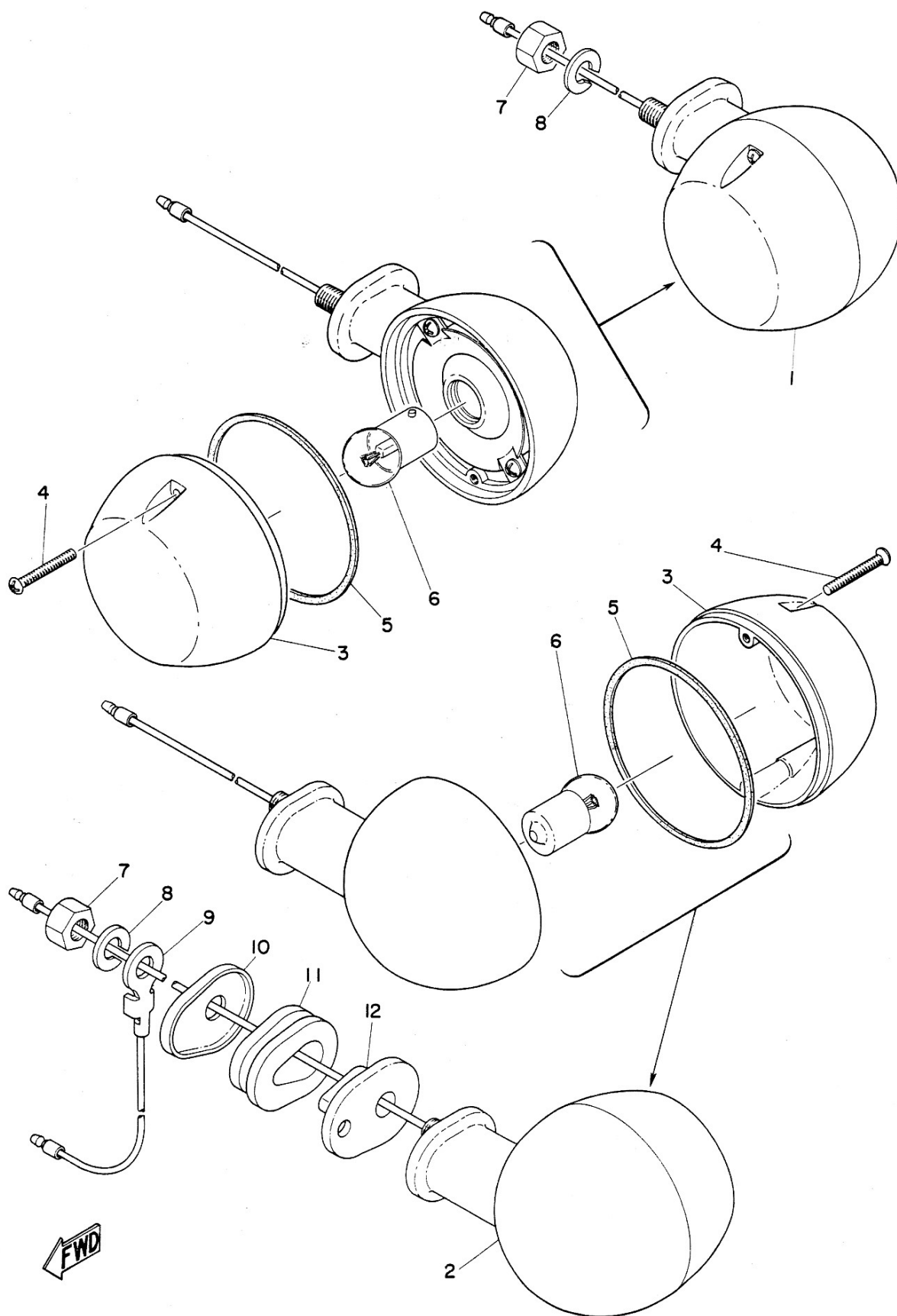
Fig. 31 TAIL LAMP



TAIL LAMP (not U.K.?)

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
31- 0-1	256-84710-00	TAIL LAMP UNIT ASS'Y	1		
31- 1	256-84711-60	. BASE, tail lamp	1		
31- 2	137-84714-60	. BULB, tail lamp (12V-32/3cp) ..	1		
31- 3	256-84723-60	. GASKET, tail lens	1		
31- 4	256-84721-00	. LENS, tail lamp	1		
31- 5	256-84724-60	. SCREW, lens fitting	2		
31- 6	92503-06010	. SCREW, pan head	2		
31- 7	92901-06100	. WASHER, spring	2		
31- 8	256-84751-60-35	BRACKET, license	1		
31- 9	168-21738-00	BOLT A	2		
31-10	92901-08200	WASHER, plain	2		
31-11	214-84553-01	DAMPER	1		
31-12	92901-06100	WASHER, spring	2		
31-13	92801-06100	NUT	2		
31-14	91203-06025	BOLT	1		
31-15	102-28323-00	WASHER, leg shield	1		
31-16	214-21633-00	COLLAR, fender mount 1	1		
31-17	214-21717-00	DAMPER, battery box	1		
31-18	92901-06100	WASHER, spring	1		
31-19	92801-06100	NUT	1		
31-20	256-84717-60	CORD, tail lamp	1		

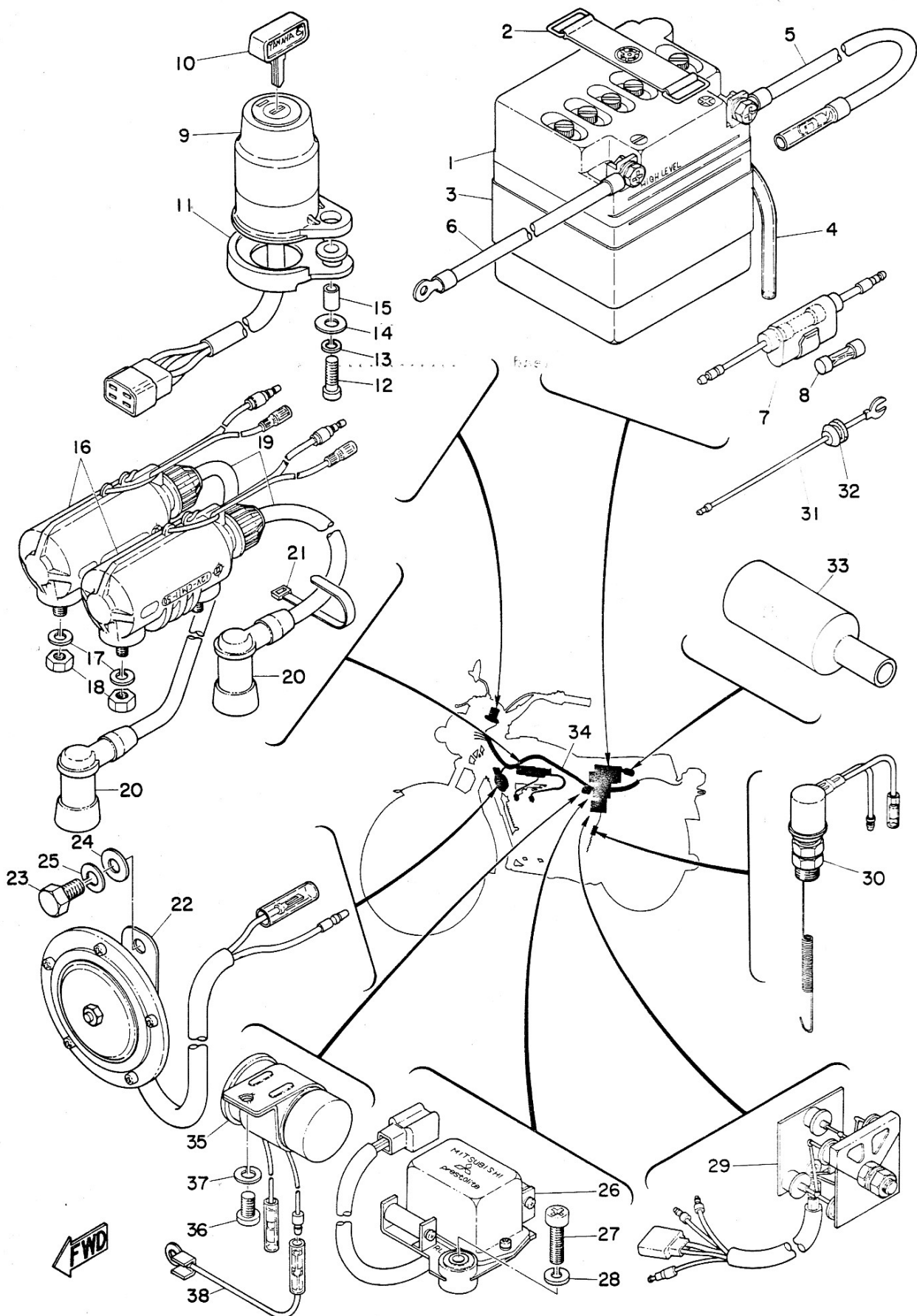
Fig. 32 FLASHER LAMP



FLASHER LAMP

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
32- 1	278-83310-45-93	FRONT FLASHER LAMP ASS'Y	... 2		
32- 2	278-83330-45-93	REAR FLASHER LAMP ASS'Y	 2		
32- 3	183-83332-20	. LENS, flasher	 4		
32- 4	183-83333-21	. SCREW, lens fitting	 8		
32- 5	183-83313-20	. GASKET, flasher lens	 4		
32- 6	136-83311-20	. BULB, flasher (12V 8W)	 4		
32- 7	98801-08100	NUT	 4		
32- 8	92901-08100	WASHER, spring	 4		
32- 9	256-84313-01	WIRE, earth	 2		
32-10	275-83359-00	WASHER, special	 2		
32-11	256-83321-00	DAMPER, front flasher	 2		
32-12	256-83316-00	COLLAR, flasher	 2		

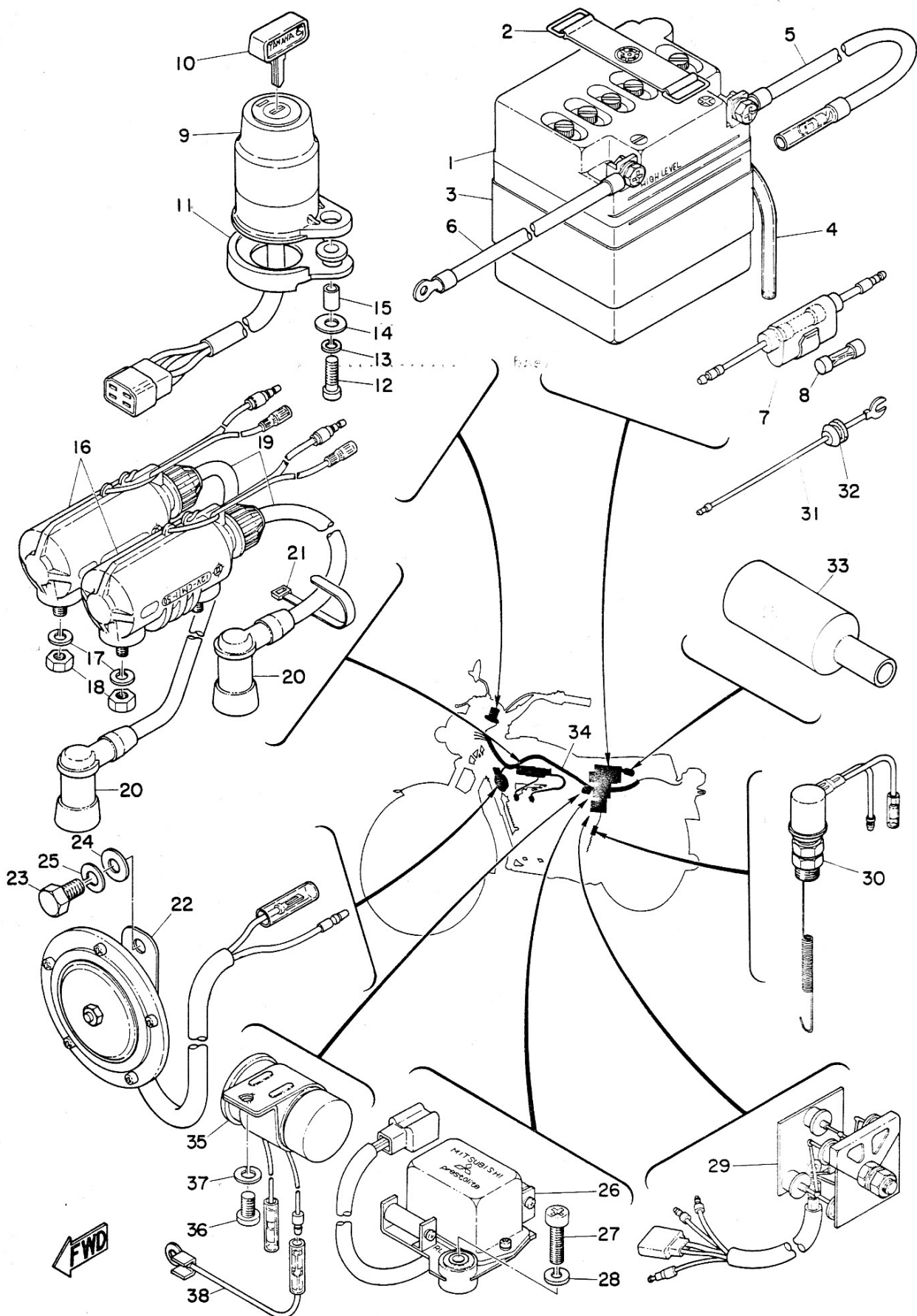
Fig. 33 ELECTRICAL



ELECTRICAL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
33- 1	118-82110-71	BATTERY ASS'Y	1		
33- 1-1	104-82111-20	. CAP, battery	6		
33- 2	122-82131-00	BAND, battery	1		
33- 3	235-82124-00	BAND, battery	1		
33- 4	168-82112-00	PIPE, breather (5-580)	1		
33- 5	278-82115-00	WIRE, plus lead	1		
33- 6	170-84756-00	WIRE, minus lead	1		
33- 7	164-82150-00	FUSE HOLDER ASS'Y	1		
33- 8	148-82151-00	. FUSE	2		
33- 9	256-82508-30	MAIN SWITCH ASS'Y	1		
33-10	256-82511-30	. KEY, main switch	3		Not for sale
33-11	256-82515-00	DAMPER, main switch	1		
33-12	98501-05020	SCREW, pan head	2		
33-13	92901-05100	WASHER, spring	2		
33-14	256-82517-00	WASHER, special (5.5-15-1)	2		
33-15	256-82516-00	COLLAR, main switch	2		
33-16	227-82310-60	IGNITION COIL ASS'Y	2		
33-17	92901-06100	WASHER, spring	4		
33-18	92801-06200	NUT	4		
33-19	278-82341-00	CORD, high tension	2		
33-20	166-82370-20	PLUG CAP ASS'Y	2		
33-21	803-82591-00	BAND	3		
33-22	278-83371-20	HORN	1		
33-23	97201-08018	BOLT	1		

Fig. 33 ELECTRICAL



ELECTRICAL

Ref. No.	Part No.	Description	Q'ty	Applicable Machine No.	Remarks
33-24	92901-08200	WASHER, plain	1		
33-25	92901-08100	WASHER, spring	1		
33-26	278-81910-20	VOLTAGE REGULATOR ASS'Y ...	1		
33-27	92501-06025	SCREW, pan head	2		
33-28	92901-06100	WASHER, spring	2		
33-29	278-81970-20	RECTIFIER ASS'Y	1		
33-30	278-82530-00	STOP SWITCH ASS'Y	1		
33-31	164-82541-00	WIRE, lead (neutral switch)	1		
33-32	136-82545-00	GROMMET	1		
33-33	256-82599-00	COVER, connector	1		
33-34	278-82590-40	WIRE HARNESS ASS'Y	1		
33-35	211-83350-20	FLASHER RELAY ASS'Y	1		
33-36	92501-06012	SCREW, pan head	1		
33-37	92901-06100	WASHER, spring	1		
33-38	214-83354-00	WIRE, earth lead	1		

MODEL	DS7	R5F
2. HORSE POWER (B.H.P./r.p.m.)	30 B.H.P./7,500 r.p.m.	36 B.H.P./7,000 r.p.m.
3. TORQUE (kg-m/r.p.m.)	2.92 kg-m/7,000 r.p.m.	3.87 kg-m/6,500 r.p.m.
4. BORE & STROKE (mm)	54 x 54 mm x 2	64 x 54 mm x 2
5. ENGINE DISPLACEMENT (cc, cu.in)	247 cc (15.07 cu.in)	347 cc (21.18 cu.in)
6. NET WEIGHT (APPROX) (kg, lbs)	138 kg (304 lbs)	141 kg (311 lbs)
7. COMPRESSION RATIO	11:1	6.8:1
8. IGNITION TIMING (min B.T.D.C.)	2.0 ± 0.3 mm	2.0 ± 0.3 mm
9. CONTACT BREAKER POINT GAP SETTING (mm)	0.30-0.40 mm	0.30-0.40 mm
10. SPARK PLUG AND GAP (mm)	B-8HS, 0.5-0.6 mm	B-8HS, 0.5-0.6 mm
11. PISTON SKIRT CLEARANCE (mm)	0.040-0.045 mm	0.040-0.045 mm
12. CARBURETOR TYPE & MANUFACTURER	VM26SC Mikuni	VM28SC Mikuni
I.D. MARK	280A2	278A2
MAIN JET (M.J)	#100	#120
AIR JET (A.J)	—	—
JET NEEDLE - clip position (J.N)	5DP7-4	5DP7-4
NEEDLE JET (N.J)	0-0	0-0
CUTAWAY (C.A)	20	20
PILOT JET (P.J)	#30	#30
AIR SCREW (Turns out) (A.S)	1.0	1X
STARTER JET (S.J)	#100	#100
FLOAT LEVEL (mm) (F.L)	16.3 ± 2.5 mm	16.5 ± 2.5 mm
13. AIR FILTER TYPE	Dry paper filter	Dry paper filter
14. PRIMARY REDUCTION RATIO & METHOD	68/21, 3.238 gear	66/23, 2.869 gear
15. SECONDARY REDUCTION RATIO & METHOD	40/15, 2.666 chain	40/16, 2.500 chain
16. TRANS. GEAR RATIOS		
1st (No. teeth) (Internal)	41/16, 2.562	41/16, 2.562
2nd (") (")	35/22, 1.590	35/22, 1.590
3rd (") (")	31/26, 1.192	31/26, 1.192
4th (") (")	28/29, 0.965	28/29, 0.965
5th (") (")	25/31, 0.806	25/31, 0.806
6th (") (")	—	—
17. TRANS. OIL CAPACITY (cc)	1 500 ± 50 cc	1500 ± 50 cc
18. OIL TANK CAPACITY (ℓ, qt)	2 ℓ (2.1 qt)	2 ℓ (2.1 qt)
18. FUEL TANK CAPACITY (ℓ, gal)	12 ℓ (3.2 gal)	12 ℓ (3.2 gal)
20. FRONT FORK OIL CAPACITY (cc)	RL: 145cc	RL: 145 cc
21. TIRE SIZE (Front)	3.00 - 18 - 4PR	3.00 - 18 - 4PR
(Rear)	3.25 - 18 - 4PR	3.50 - 18 - 4PR
22. TIRE PRESSURE (Front) (kg/cm ²)	1.6 kg/cm ²	1.6 kg/cm ²
(Rear) (kg/cm ²)	2.0 kg/cm ²	2.0 kg/cm ²
23. DRIVE CHAIN TENSION (Up & down freeplay) (mm, in)	20 mm (0.79 in)	20 mm (0.79 in)
24. OIL PUMP STROKE ADJUSTMENT MIN. (mm)	0.20-0.25 mm	0.20-0.25 mm
MAX. (mm)	2.05-2.27 mm	2.05-2.27 mm
25. AUTOLUBE CABLE ADJUSTMENT (Throttle position)	at idle	at idle
26. VALVE CLEARANCE INTAKE (mm)	—	—
EXHAUST (mm)	—	—
27. DYNAMO & MAGNETO TYPE	A.C. Generator	A.C. Generator
MODEL & MANUFACTURER	AZ 2010N, Mitsubishi	AZ 2010N Mitsubishi
28. BREAKER CONTACT PRESSURE (gram)	700 ± 50 gram	700 ± 50 gram
29. CONDENSER CAPACITY (μF)	0.22 μF	0.22 μF
30. REGULATOR MODEL	RL2150Z, Mitsubishi	RL2150Z, Mitsubishi
"NO LOAD" VOLTAGE ADJUSTMENT (V/r.p.m.)	14.5-15.5V/3,000 r.p.m.	14.5-15.5V/3,000 r.p.m.
31. IGNITION COIL SPARK TEST (Minimum) (mm/r.p.m.)	7mm/500 r.p.m.	7mm/500 r.p.m.
PRIMARY WINDING RESISTANCE (Ω)	3.9 Ω	3.9 Ω
SECONDARY WINDING RESISTANCE (KΩ)	10 KΩ	10 KΩ
32. BATTERY MODEL	AYT2-12	12N5.5A-3B
VOLTAGE & AMPERAGE RATING (V-AH)	12V5.5AH	12V5.5AH
33. HEAD LAMP HI/LO RATING (V-W)	12V35W/25W	12V35W/25W
34. TAIL LAMP/STOP LAMP RATING (V-W)	12V8W/23W	12V8W/23W
35. FLASHER LAMP RATING (V-W)	12V8W	12V8W