



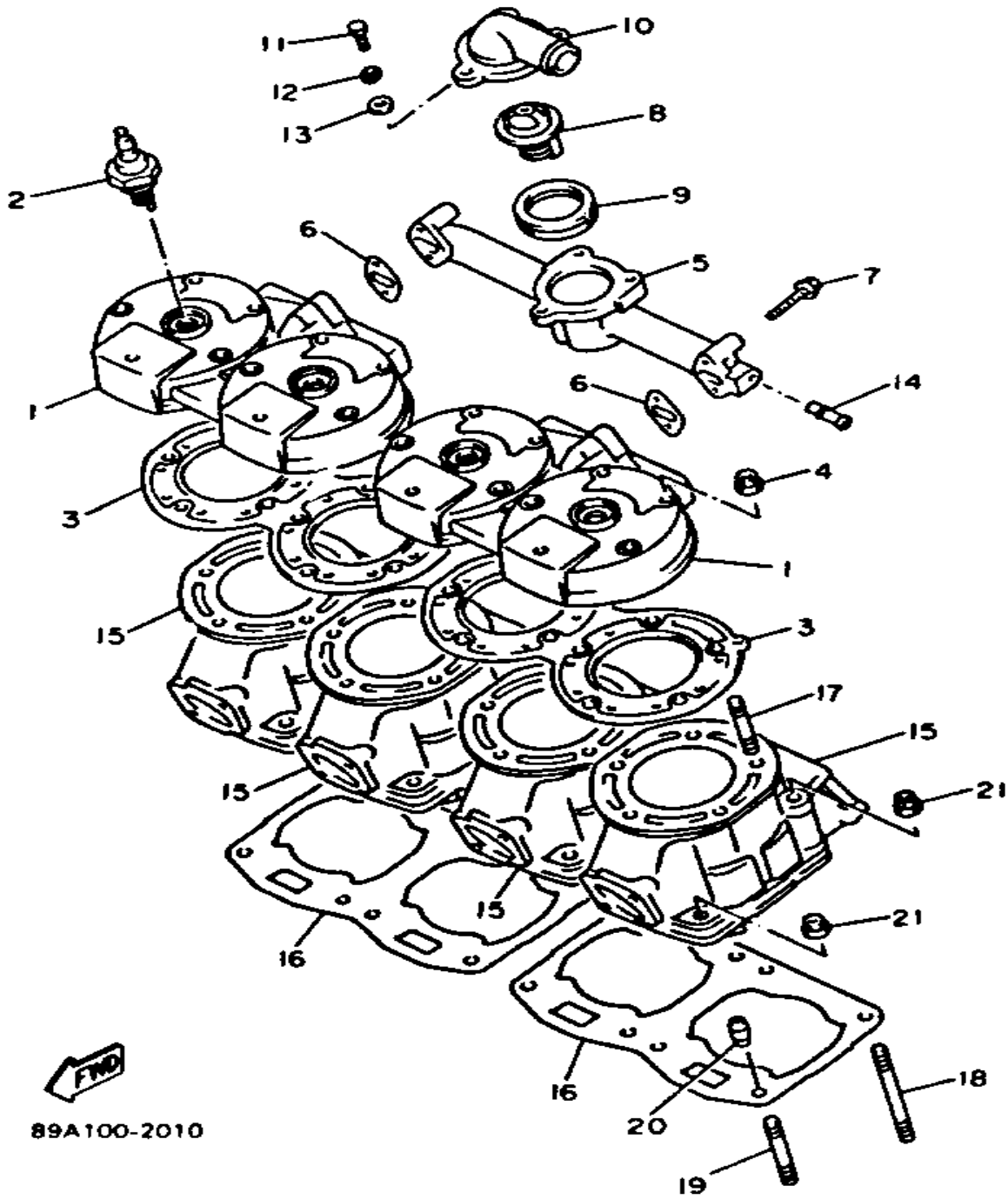
YAMAHA

GENUINE

PARTS CATALOGUE

SNOWMOBILE

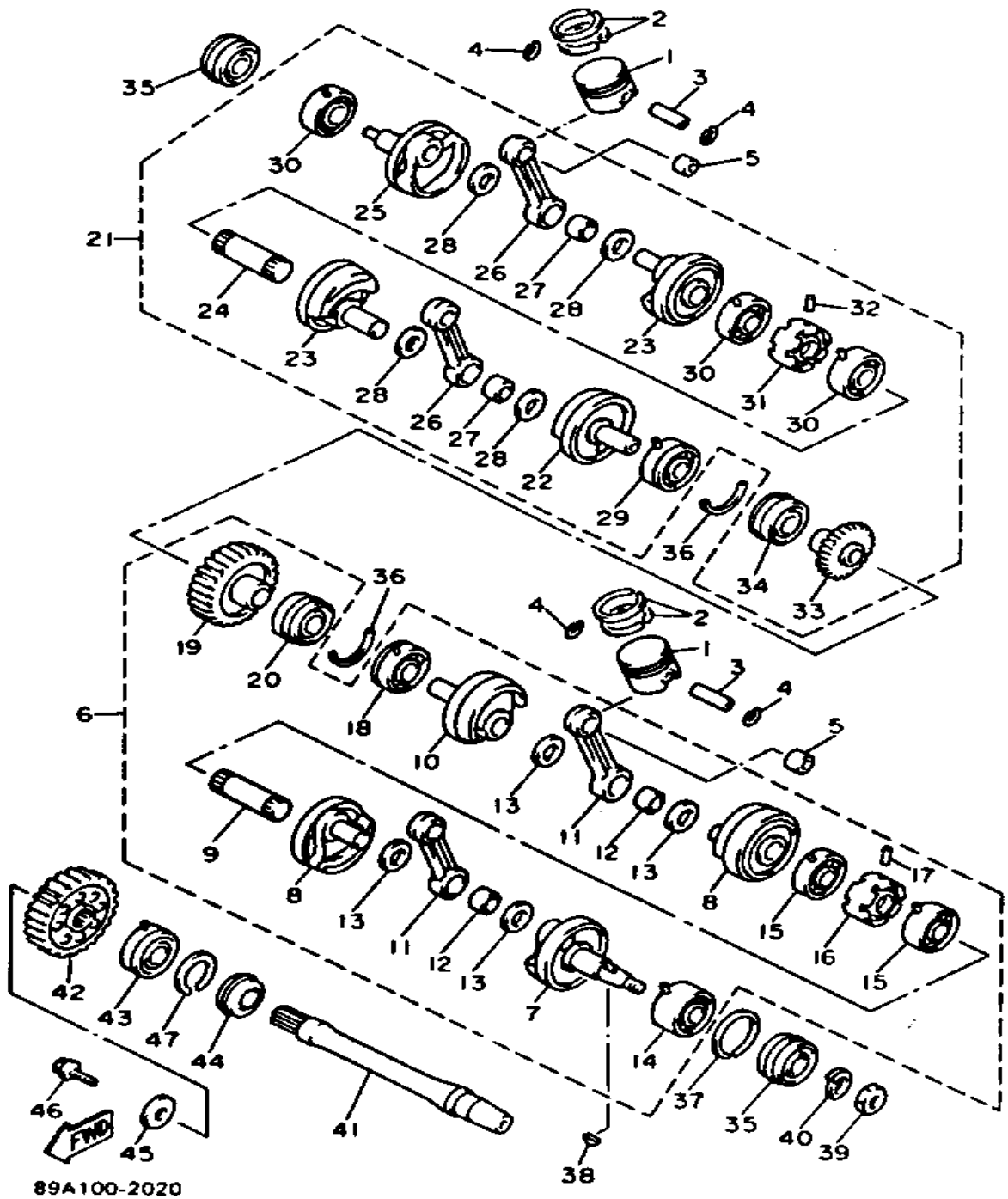
CYLINDER HEAD



FWD
89A100-2010

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-11111-00-00	HEAD, CYLINDER 1	2	
2	NGK-BR9ES-00-00	PLUG, SPARK	4	
3	89A-11181-01-00	GASKET, CYLINDER HEAD 1	2	
4	90179-08491-00	NUT, FLANGE	20	
5	89A-1247A-00-00	JOINT 2	1	
6	89A-12435-00-00	GASKET	2	
7	95816-06035-00	BOLT, FLANGE	4	
8	82M-12411-00-00	THERMOSTAT	1	
9	8A7-12412-01-00	SEAL, THERMOSTAT	1	
10	89A-12413-00-00	COVER, THERMOSTAT	1	
11	97016-06020-00	BOLT	3	
12	92906-06100-00	WASHER, SPRING	3	
13	92906-06600-00	WASHER	3	
14	8A7-12499-00-00	JOINT	1	
15	89A-11311-00-00	CYLINDER 1	4	
16	89A-11351-00-00	GASKET, CYLINDER	2	
17	90116-08392-00	BOLT, STUD	20	
18	90116-08064-00	BOLT, STUD	8	
19	90116-08409-00	BOLT, STUD	8	
20	99510-10114-00	PIN, DOWEL	8	
21	90179-08491-00	NUT, FLANGE	16	

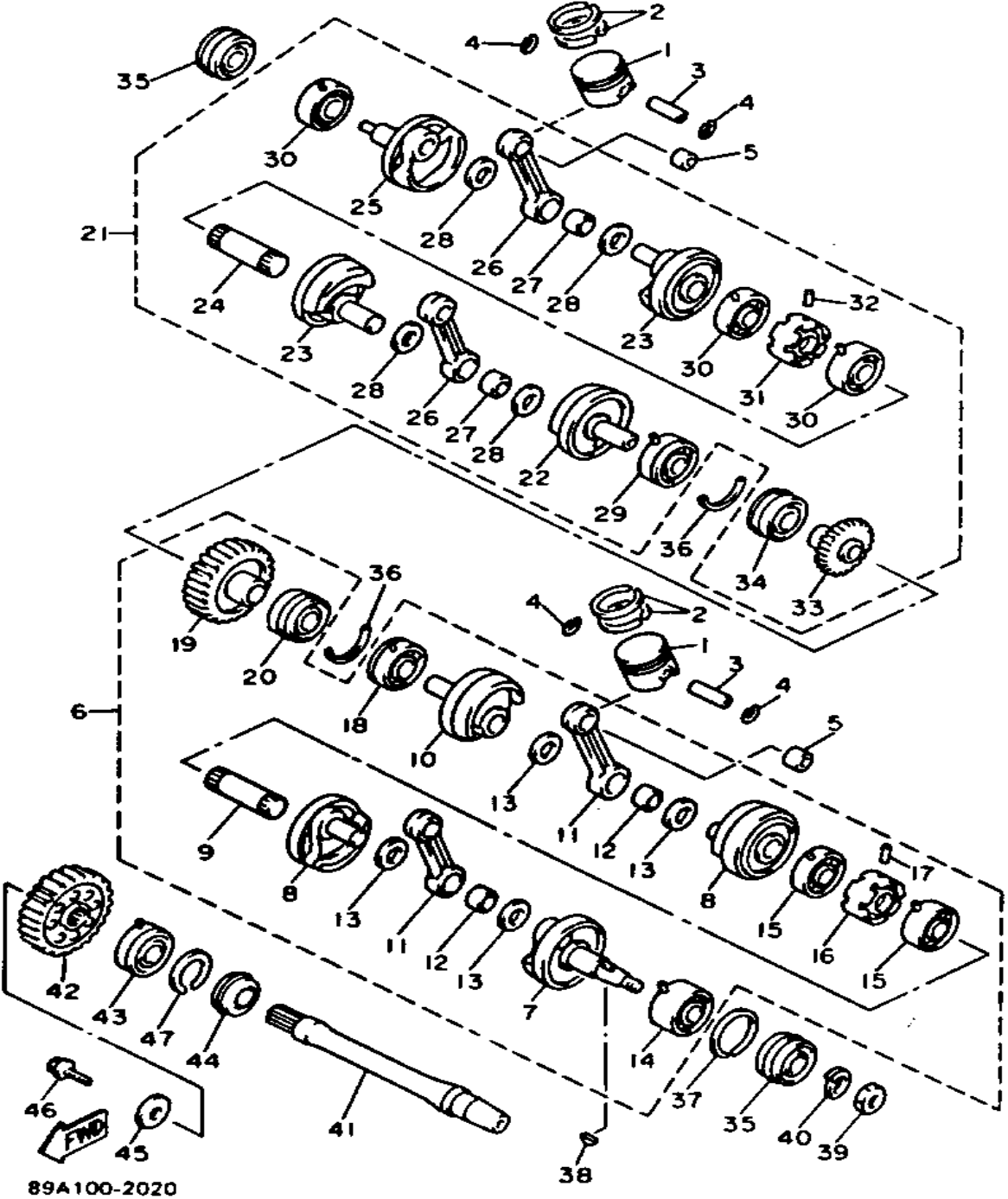
CRANKSHAFT - PISTON



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-11631-00-94	PISTON STD	4	
2	89A-11601-00-00	PISTON RING SET (STD)	4	
3	4H7-11633-00-00	PIN, PISTON	4	
4	93450-17129-00	CIRCLIP	8	
5	93310-316H6-00	BEARING	4	
6	89A-11410-00-00	CRANKSHAFT	1	
7	89A-11412-00-00	. CRANK 1	1	
8	89A-11422-00-00	. CRANK 2	2	
9	89A-11431-00-00	. CRANK 3	1	
10	89A-11442-00-00	. CRANK 4	1	
11	29L-11651-00-00	. ROD, CONNECTING	2	
12	93310-522L4-00	. BEARING	2	
13	90209-22257-00	. WASHER	4	
14	93305-20606-00	. BEARING	1	
15	93306-20643-00	. BEARING	2	
16	89A-11515-00-00	. SEAL, LABYRINTH 1	1	
17	91609-30010-00	. PIN, SPRING	1	
18	93306-30561-00	. BEARING	1	
19	89A-11543-00-00	. GEAR, 1	1	
20	93103-40174-00	. OIL SEAL	1	
21	89A-11420-00-00	CRANKSHAFT	1	
22	89A-11442-00-00	. CRANK 4	1	
23	89A-11422-00-00	. CRANK 2	2	
24	89A-11431-00-00	. CRANK 3	1	
25	89A-11452-00-00	. CRANK 5	1	
26	29L-11651-00-00	. ROD, CONNECTING	2	
27	93310-522L4-00	. BEARING	2	
28	90209-22257-00	. WASHER	4	
29	93306-30561-00	. BEARING	1	

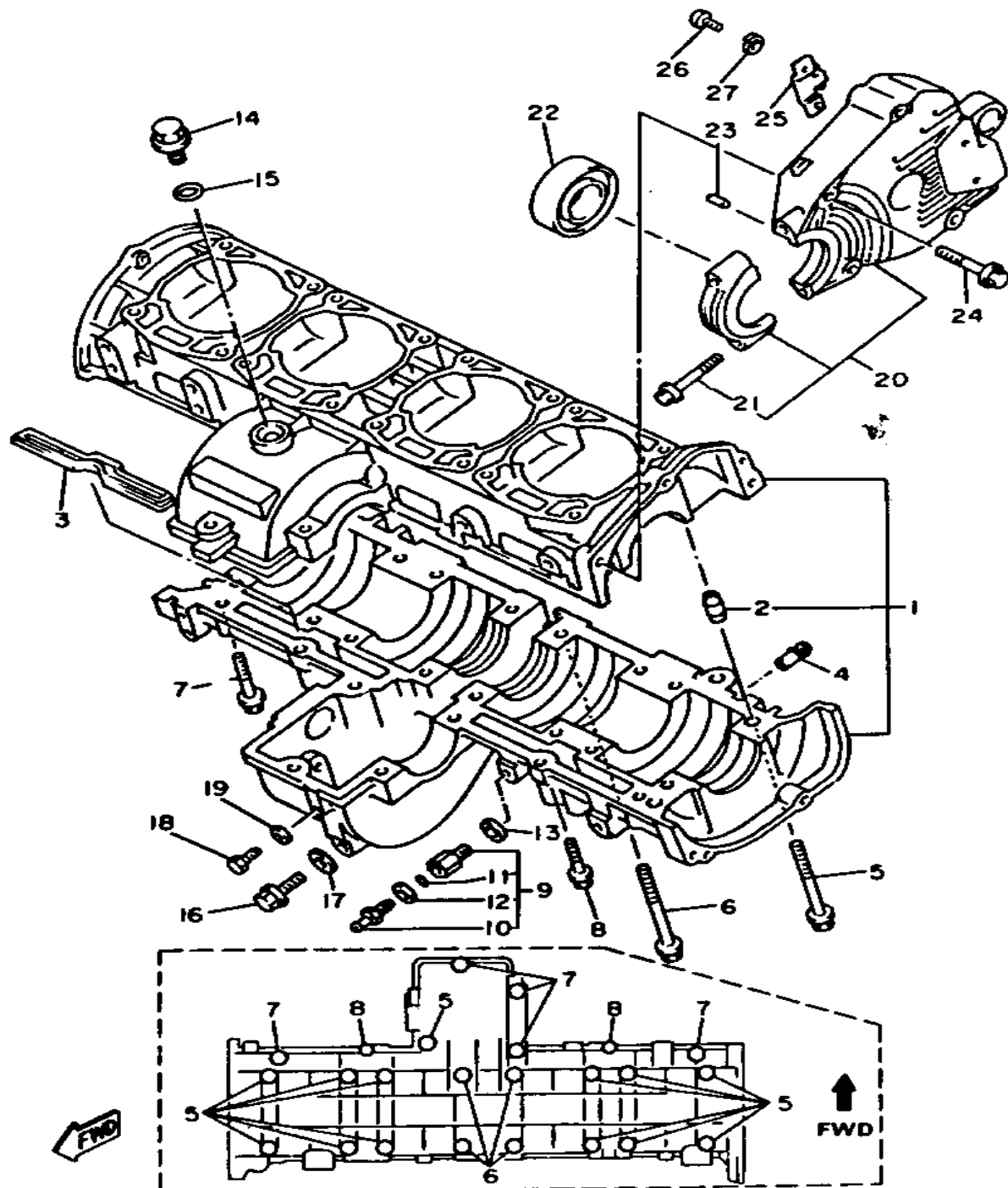
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CRANKSHAFT - PISTON



Ref. No.	Part Number	Description	Qty	Remarks
30	93306-20643-00	. BEARING	3	
31	89A-11515-00-00	. SEAL, LABYRINTH 1	1	
32	91609-30010-00	. PIN, SPRING	1	
33	89A-11544-00-00	. GEAR 2	1	
34	93103-40174-00	. OIL SEAL	1	
35	93103-30175-00	OIL SEAL	2	
36	278-17424-01-00	CIRCLIP 1	2	
37	93420-62070-00	CIRCLIP 54G	1	
38	90280-05033-00	KEY, WOODRUFF	1	
39	90170-16182-00	NUT	1	
40	92901-16100-00	WASHER, SPRING	1	
41	89A-11455-00-00	SHAFT 1	1	
42	89A-16150-00-00	PRIMARY DRIVEN GEAR COMP.	1	
43	93306-20585-00	BEARING	1	
44	93102-30435-00	OIL SEAL	1	
45	90201-101P4-00	WASHER, PLATE	1	
46	90105-10670-00	BOLT, WASHER BASED	1	
47	93440-52118-00	CIRCLIP	1	

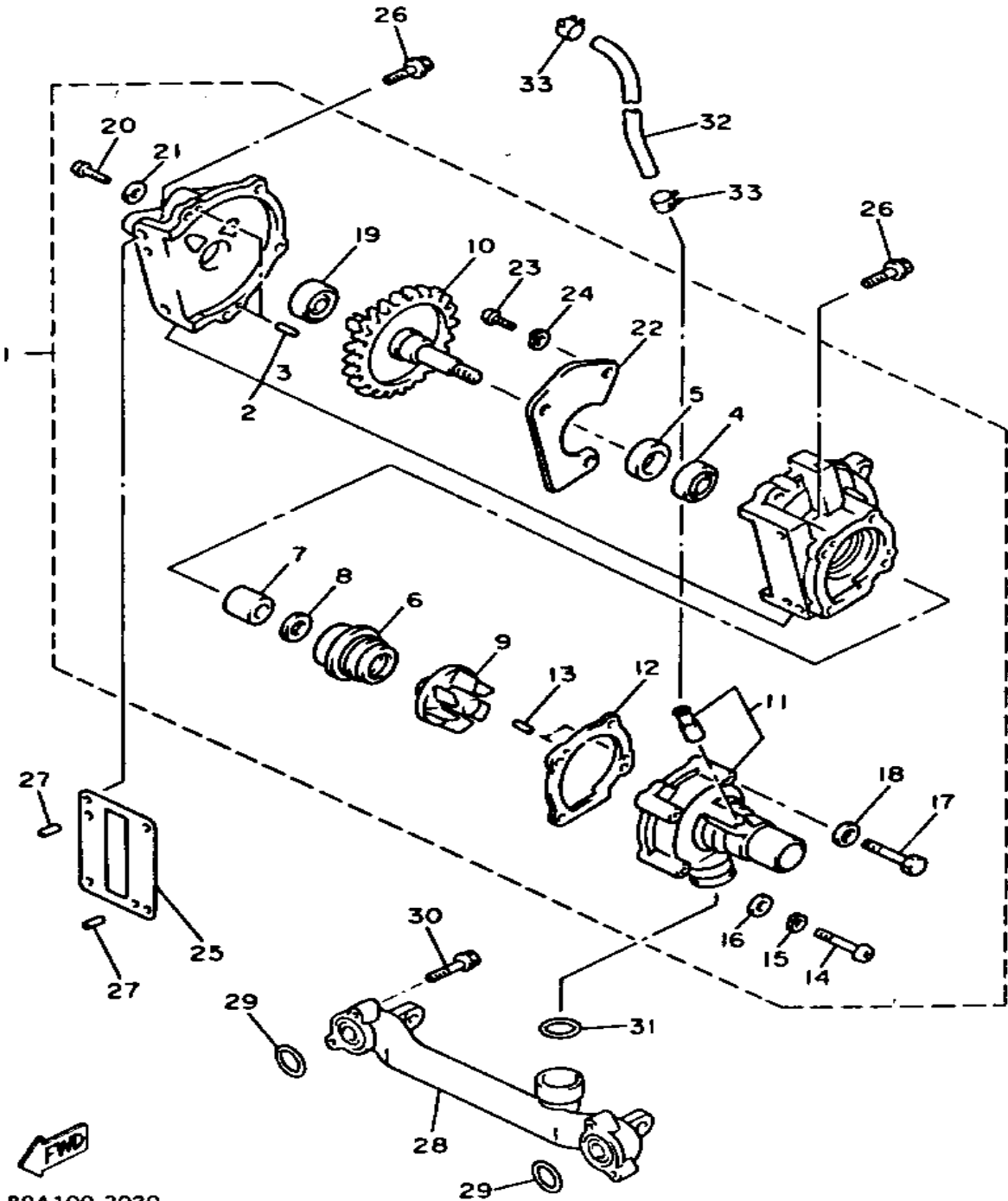
CRANKCASE



89A100-2090

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-15100-00-00	CRANKCASE ASSEMBLY	1	
2	99510-12016-00	. PIN, DOWEL	2	
3	89A-15113-00-00	PLATE	2	
4	J38-11116-00-00	JOINT, BREATHER	2	
5	95811-08085-00	BOLT, FLANGE	13	
6	95811-08095-00	BOLT, FLANGE	4	
7	95811-08050-00	BOLT, FLANGE (95812-08050)	5	
8	95811-06035-00	BOLT, FLANGE	2	
9	89A-12560-00-00	DRAIN COCK ASSEMBLY.	1	
10	89A-12478-00-00	. COCK, DRAIN	1	
11	93210-041A6-00	. O-RING	1	
12	92990-10600-00	. WASHER, PLATE	1	
13	90430-10171-00	GASKET	1	
14	90340-14119-00	PLUG, STRAIGHT SCREW	1	
15	93210-14104-00	O-RING	1	
16	95026-10016-00	BOLT, FLANGE	1	
17	90430-10171-00	GASKET	1	
18	97011-06010-00	BOLT	1	
19	90210-06006-00	WASHER, SEAL	1	
20	89A-15410-01-00	CRCS COVER ASSEMBLY L	1	
21	95811-08050-00	. BOLT, FLANGE (95812-08050)	2	
22	93306-20640-00	BEARING	1	
23	90250-06013-00	PIN, STRAIGHT	2	
24	95811-08055-00	BOLT, FLANGE	5	
25	89A-15484-00-00	CLAMP 2	1	
26	98580-05010-00	SCREW, PAN HEAD	2	
27	92990-05100-00	WASHER, SPRING	2	

WATER PUMP

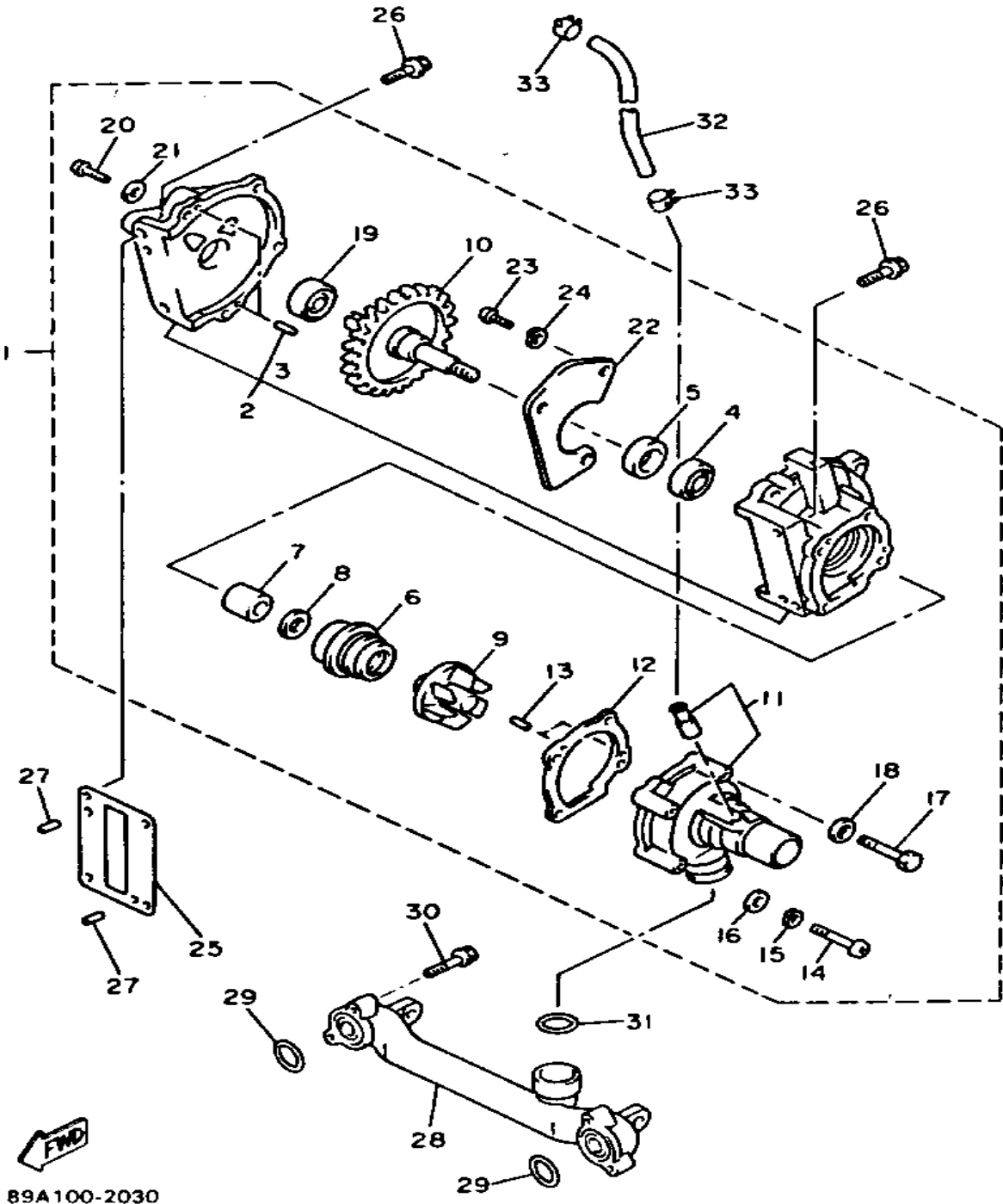


89A100-2030

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-12420-00-00	WATER PUMP ASSEMBLY	1	
2	89A-W1247-00-00	. HOUSING, WATER PUMP	1	
3	93604-10011-00	.. PIN, DOWEL	2	
4	93306-20117-00	. BEARING	1	
5	93101-19159-00	. OIL SEAL	1	
6	82M-12438-00-00	. SEAL, MECHANICAL	1	
7	82M-12437-00-00	. STOPPER	1	
8	90201-084M4-00	. WASHER, PLATE (90201-08088-00)	1	
9	89A-12451-00-00	. IMPELLER, WATER PUMP	1	
10	89A-12450-00-00	. IMPELLER SHAFT ASSEMBLY	1	
11	89A-W1241-00-00	. COVER, HOUSING	1	
12	89A-12427-00-00	. GASKET, HOUSING COVER 1	1	
13	93604-10011-00	. PIN, DOWEL	2	
14	98580-06035-00	. SCREW, PAN HEAD	3	
15	92995-06100-00	. WASHER, SPRING	3	
16	92990-06600-00	. WASHER, PLATE	3	
17	95801-06035-00	. BOLT, FLANGE	1	
18	90430-06166-00	. GASKET	1	
19	93306-00106-00	. BEARING	1	
20	98580-06020-00	. SCREW	4	
21	92990-06600-00	. WASHER, PLATE	4	
22	89A-12535-00-00	. PLATE	1	
23	98580-05012-00	. SCREW, PAN HEAD	3	
24	92990-05100-00	. WASHER, SPRING	3	
25	89A-12449-00-00	GASKET, WATER PUMP	1	
26	95811-06020-00	BOLT, FLANGE	4	
27	90250-06013-00	PIN, STRAIGHT	2	
28	89A-12469-00-00	JOINT 1	1	

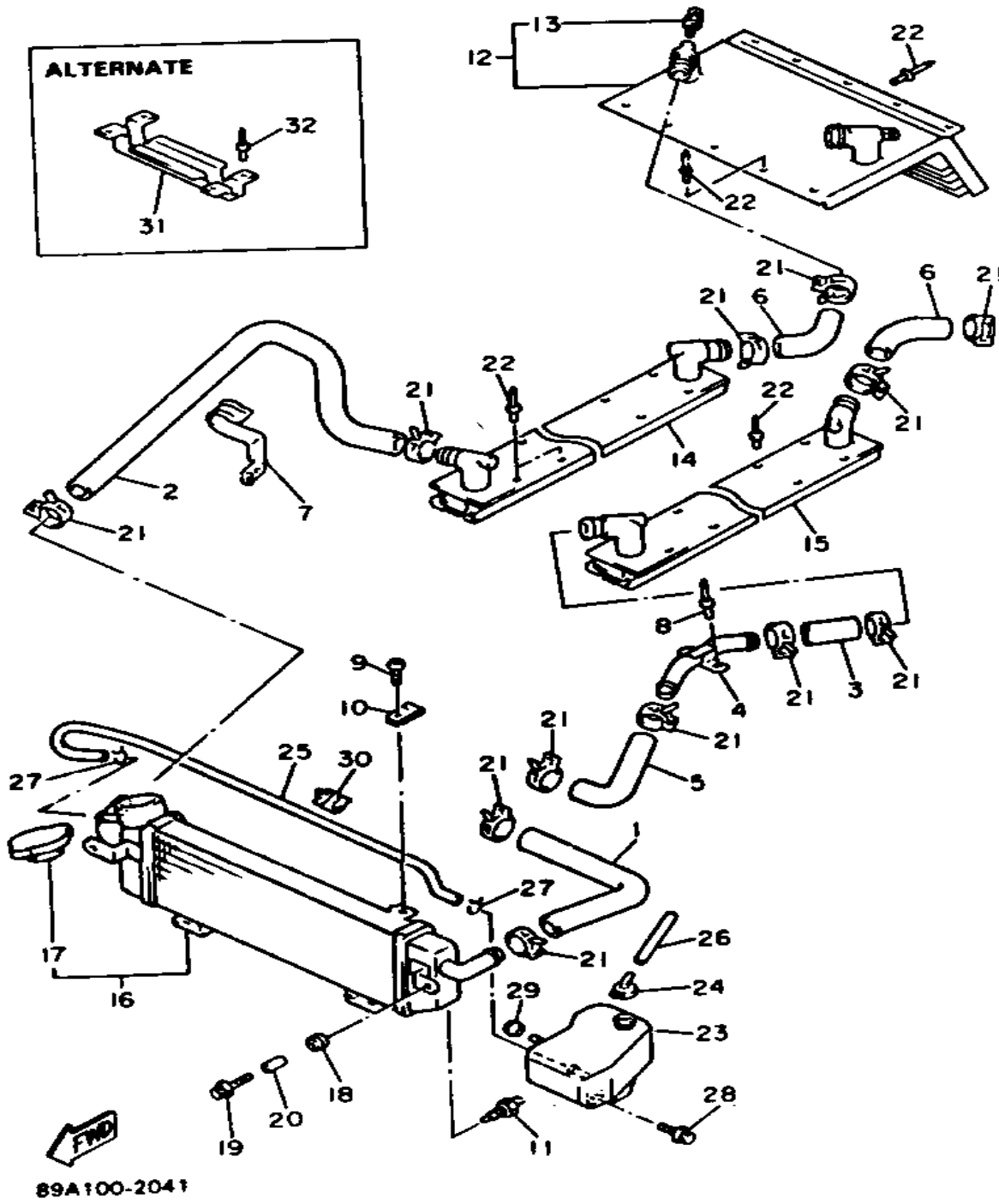
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WATER PUMP



Ref. No.	Part Number	Description	Qty	Remarks
29	93210-27778-00	O-RING	2	
30	95023-06025-00	BOLT, FLANGE	4	
31	93210-25071-00	O-RING	1	
32	89A-1243A-00-00	HOSE 1	1	
33	90467-11044-00	CLIP	2	

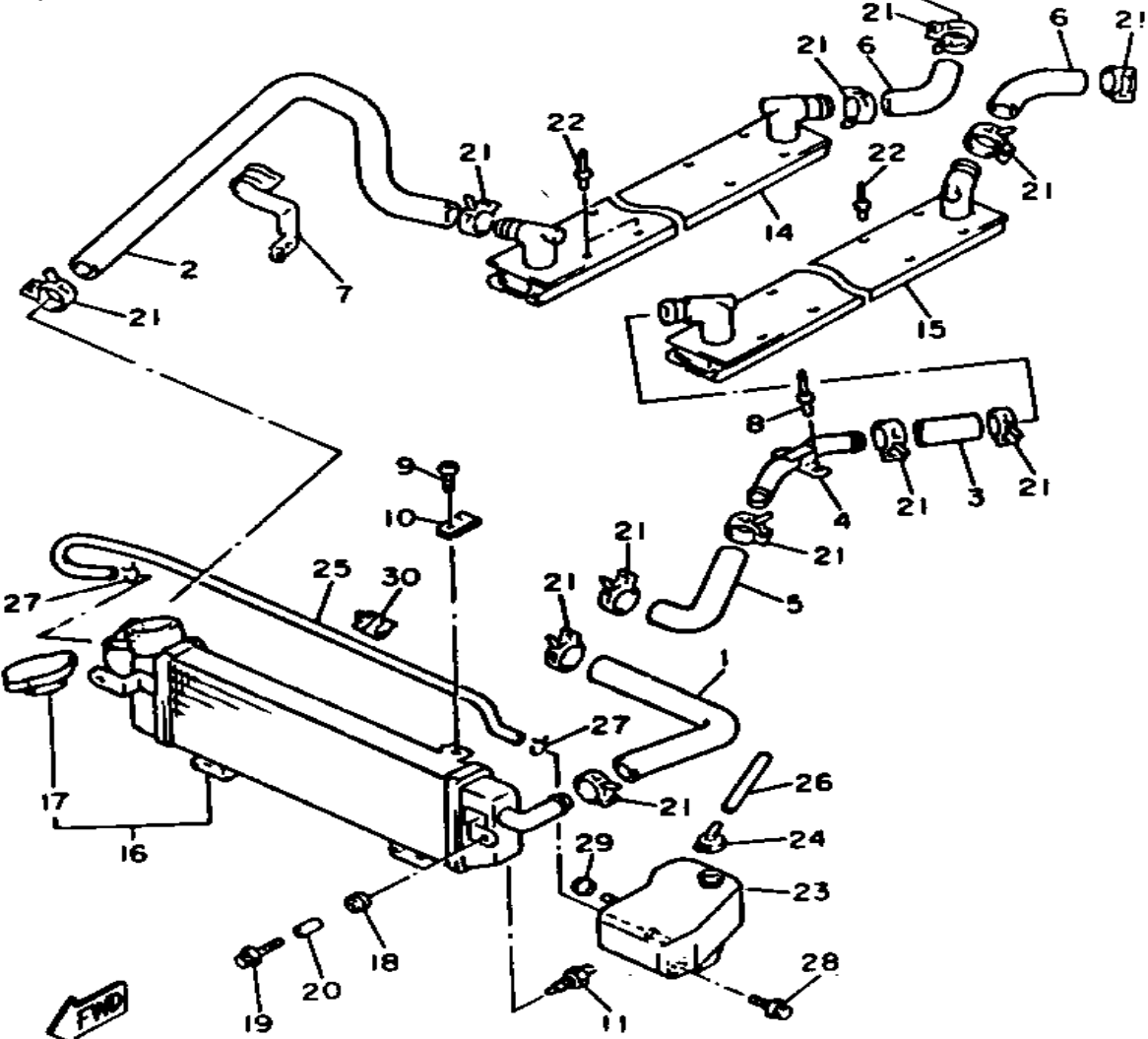
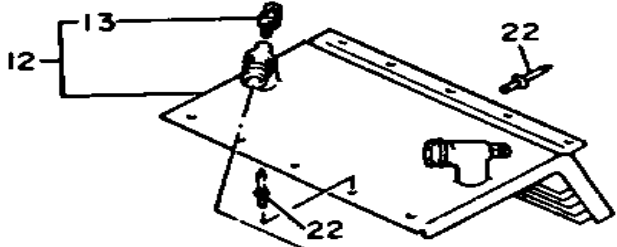
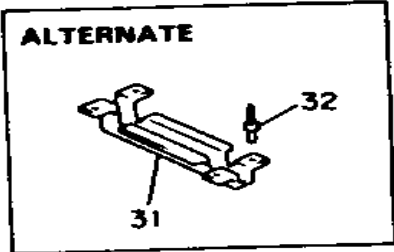
RADIATOR-HOSE



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-12481-00-00	PIPE 1	1	
2	89A-12482-00-00	PIPE 2	1	
3	89A-12483-00-00	PIPE 3	1	
4	89A-12484-00-00	PIPE 4	1	
5	89A-12485-00-00	PIPE 5	1	
6	82M-12476-00-00	PIPE 6	2	
7	89A-12491-00-00	CLAMP 1	1	
8	90267-48060-00	RIVET, BLIND	2	
9	98580-05010-00	SCREW, PAN HEAD	1	
10	90183-05044-00	NUT, SPRING	1	
11	3FY-82560-00-00	THERMO SWITCH ASSEMBLY	1	
12	82M-12440-01-00	HEAT EXCHANGER ASSEMBLY	1	
13	82M-1247H-00-00	. SCREW, BREED	2	
14	89A-1240E-00-00	HEAT EXCHANGER	1	
15	89A-1240F-00-00	HEAT EXCHANGER	1	
16	89A-12460-00-00	RADIATOR ASSEMBLY	1	
17	22W-12462-00-00	. CAP, RADIATOR	1	
18	90480-15363-00	GROMMET	2	
19	95811-06020-00	BOLT, FLANGE	2	
20	90387-07390-00	COLLAR	2	
21	90467-28046-00	CLIP	12	
22	90267-48132-00	RIVET, blind	45	
23	89A-21871-00-00	TANK, RECOVERY	1	
24	89A-21815-00-00	CAP	1	
25	90445-11587-00	HOSE	1	
26	90445-09120-00	HOSE	1	
27	90467-08003-00	CLIP	2	
28	90119-06108-00	BOLT, WITH WASHER	1	
29	90480-12013-00	GROMMET	1	

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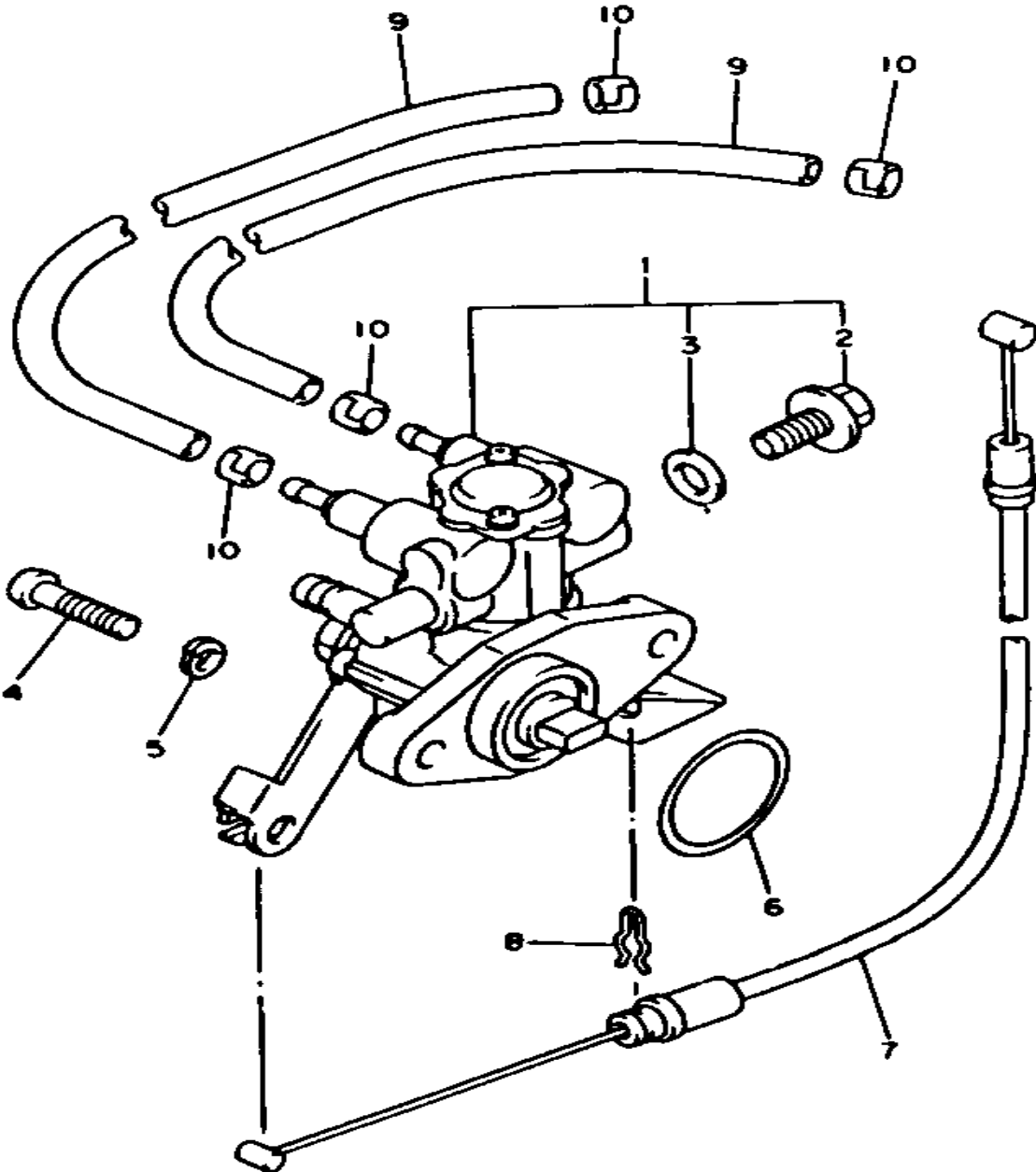
RADIATOR-HOSE



89A100-2041

Ref. No.	Part Number	Description	Qty	Remarks
30	90464-09129-00	CLAMP	1	
31	89A-21978-00-00	PROTECTOR, FRAME	2	
32	90267-48060-00	RIVET, BLIND	4	

OIL PUMP

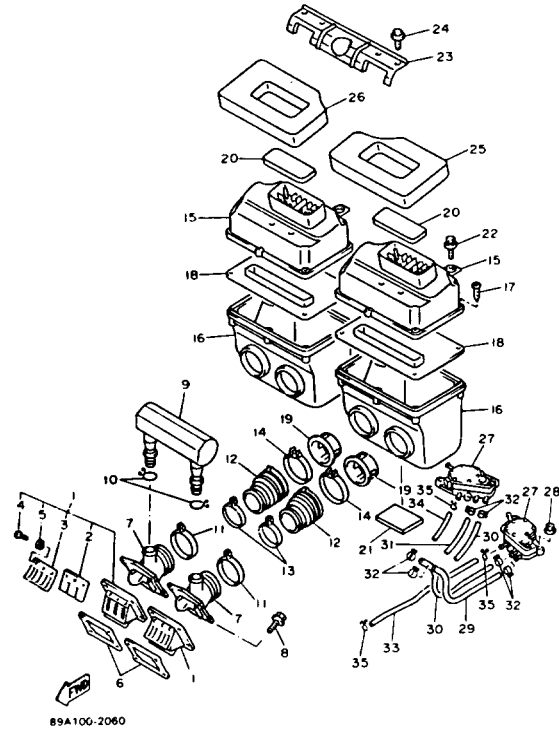


Ref. No.	Part Number	Description	Qty	Remarks
1	89A-13100-01-00	OIL PUMP ASSEMBLY	1	
2	89A-13185-00-00	. BOLT, BREATHER	1	
3	89A-13187-00-00	. GASKET, BREATHER BOLT	1	
4	98580-05016-00	SCREW, PAN HEAD	2	
5	92990-05100-00	WASHER, SPRING	2	
6	93210-191A1-00	O-RING	1	
7	89A-26320-01-00	PUMP CABLE ASSEMBLY	1	
8	90468-08086-00	CLIP	1	
9	90446-08335-00	HOSE	2	
10	90468-02025-00	CLIP	4	



89A100-2050

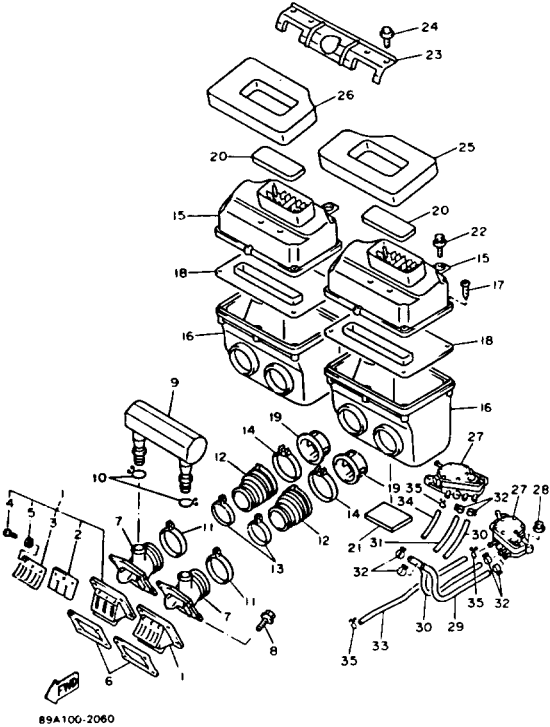
AIR CLEANER



Ref. No.	Part Number	Description	Qty	Remarks
1	1LX-13610-01-00	REED VALVE ASSEMBLY	4	
2	55Y-13613-00-00	. REED, VALVE	1	
3	55Y-13616-00-00	. STOPPER, REED VALVE	1	
4	98580-03008-00	. SCREW, PAN HEAD	3	
5	92990-03100-00	. WASHER, SPRING (92901-03100)	3	
6	89A-13621-00-00	GASKET, VALVE SEAT	4	
7	89A-13555-00-00	MANIFOLD, INTAKE	4	
8	95811-06025-00	BOLT, FLANGE	16	
9	89A-13581-00-00	CHAMBER, AIR	2	
10	90467-20030-00	CLIP	4	
11	86M-13575-00-00	BAND	4	
12	89A-14453-00-00	JOINT, AIR CLEANER 1	4	
13	90460-53140-00	CLAMP, HOSE	4	
14	90460-81224-00	CLAMP, HOSE	4	
15	89A-14431-00-00	SILENCER, INTAKE 1	2	
16	89A-14441-00-00	SILENCER, INTAKE 2	2	
17	90167-05043-00	SCREW, TAPPING	1	
18	89A-14477-00-00	PLATE	2	
19	89A-14465-00-00	PIPE	4	
20	89A-14451-00-00	ELEMENT, AIR CLEANER	2	
21	89A-1442F-00-00	PROTECTOR	2	
22	90119-06097-00	BOLT, WITH WASHER	2	
23	89A-14493-00-00	STAY 1	1	
24	95811-06012-00	BOLT, FLANGE	4	
25	89A-14425-00-00	DAMPER 1	1	
26	89A-14426-00-00	DAMPER 2	1	
27	89A-24410-01-00	FUEL PUMP ASSEMBLY	2	
28	95701-06500-00	NUT, FLANGE	4	

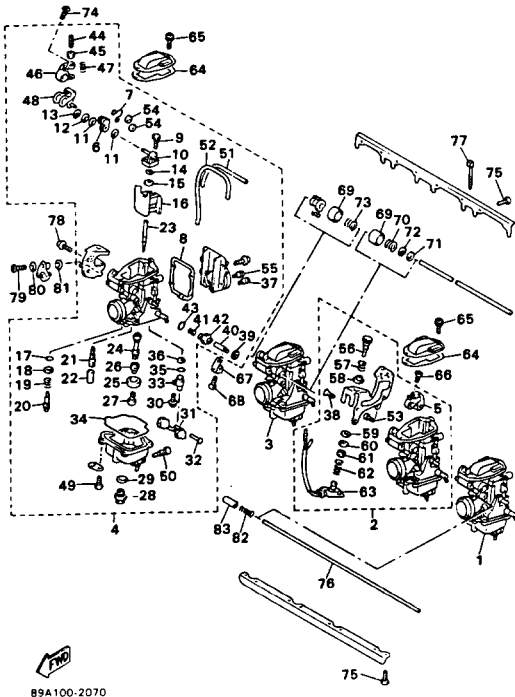
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AIR CLEANER



Ref. No.	Part Number	Description	Qty	Remarks
29	91A20-05036-00	TUBE, FLEXIBLE	1	
30	90446-09062-00	HOSE	2	
31	90446-09300-00	HOSE	1	
32	90467-09026-00	CLIP	6	
33	90445-10272-00	HOSE	1	
34	90445-10140-00	HOSE	1	
35	90467-09006-00	CLIP	3	

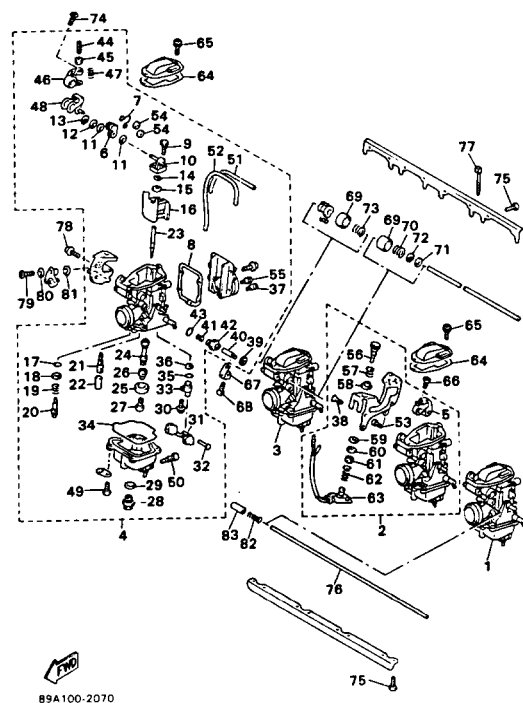
CARBURETOR



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-14901-00-00	CARBURETOR ASSEMBLY 1	1	
2	89A-14902-00-00	CARBURETOR ASSEMBLY 2	1	
3	89A-14903-00-00	CARBURETOR ASSEMBLY 3	1	
4	89A-14904-00-00	CARBURETOR ASSEMBLY 4	1	
5	89A-14292-00-00	. LEVER A	1	
6	89A-14243-00-00	. PLATE	1	
7	89A-14137-00-00	. CLIP	1	
8	89A-14199-00-00	. GASKET	1	
9	91316-03006-00	. BOLT	2	
10	89A-14188-00-00	. CONNECTOR	1	
11	3GF-14126-00-00	. GASKET	2	
12	620-14198-00-00	. GASKET	1	
13	3MA-14937-00-00	. CLIP	1	
14	164-14137-00-00	. CLIP	1	
15	2H0-14235-00-00	. WASHER, NEEDLE	1	
16	89A-14112-10-00	. VALVE, THROTTLE 1	1	
17	3H1-14147-00-00	. O-RING	1	
18	3H1-14962-00-00	. WASHER	1	
19	5K7-14134-00-00	. SPRING, AIR ADJUSTING	1	
20	89A-14565-00-00	. SCREW, PILOT ADJUSTING	1	
21	3H1-14142-50-00	. JET, PILOT (# 50)	1	
22	89A-14996-00-00	. PIPE	1	
23	89A-14116-14-00	. NEEDLE	1	
24	89A-14141-54-00	. NOZZLE, MAIN	1	
25	1LX-14153-00-00	. WASHER, MAIN JET	1	
26	89A-14194-00-00	. RING	1	
27	3G2-14231-26-A0	JET, MAIN (#130) (3G2-14231-26-00)	1	UR
	3G2-14231-27-00	JET, MAIN (#135)	1	UR

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CARBURETOR

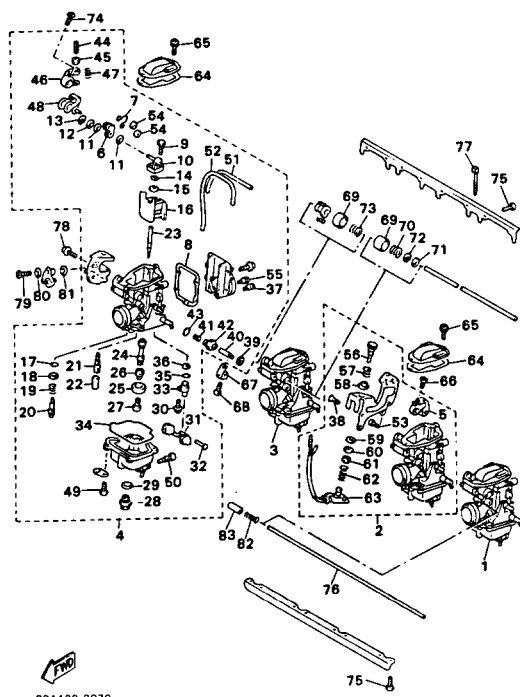


89A100-2070

Ref. No.	Part Number	Description	Qty	Remarks
27	3G2-14231-28-00	. JET, MAIN (#140)	1	UR STD
	3G2-1423A-78-00	JET, MAIN (#137.5)	1	UR
	3G2-1423E-51-00	JET, MAIN (#128.8)	1	UR
	3G2-1423E-52-00	JET, MAIN (#131.3)	1	UR
	3G2-1423E-53-00	JET, MAIN (#133.8)	1	UR
	3G2-1423E-54-00	JET, MAIN (#136.3)	1	UR
	3G2-1423E-55-00	JET, MAIN (#138.8)	1	UR
28	500-14115-00-00	. PLUG, SCREW	1	
29	558-14147-00-00	. O-RING	1	
30	2LN-14565-00-00	. SCREW	1	
31	1UY-14185-00-00	. FLOAT	1	
32	537-14186-00-00	. PIN, FLOAT	1	
33	3L1-14190-13-00	. NEEDLE VALVE ASSEMBLY	1	
34	89A-14147-00-00	. O-RING	1	
35	8F2-14147-00-00	. O-RING	1	
36	1J7-14994-00-00	. NET, FILTER	1	
37	239-14172-20-00	. PILOT JET, AIR (2.0)	1	
38	98701-05008-00	. SCREW, FLAT HEAD	1	
39	302-14173-00-00	. COVER, PLUNGER CAP	1	
40	4G0-14171-00-00	. PLUNGER, STARTER	1	
41	2N3-14135-00-00	. SPRING, PLUNGER	1	
42	1FN-14174-00-00	. CAP, PLUNGER	1	
43	1AE-14147-00-00	. O-RING	1	
44	89A-14216-00-00	. SCREW	1	
45	95311-05700-00	. NUT	1	
46	89A-14276-00-00	. LEVER	1	
47	89A-14286-00-00	. SPRING	1	
48	89A-14905-00-00	. LEVER, STARTER	1	
49	98503-04014-00	. SCREW, PAN HEAD	4	

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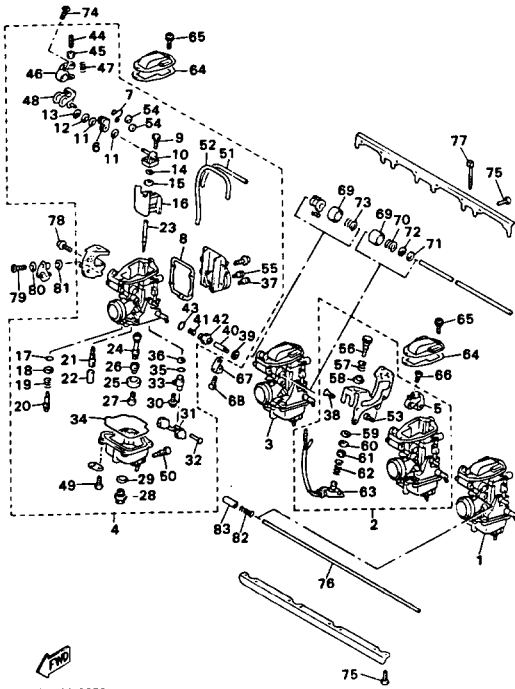
CARBURETOR



Ref. No.	Part Number	Description	Qty	Remarks
50	12R-14191-00-00	. PLUG, DRAIN	1	
51	89A-14987-00-00	. HOSE	1	
52	87M-12484-00-00	. HOSE (87M-14987-00-00)	1	
53	98580-04010-00	. SCREW, PAN HEAD	1	
54	3MA-14918-00-00	. RING	2	
55	239-14172-12-00	. PILOT JET, AIR (1.2)	1	
56	89A-14125-00-00	. SCREW	1	
57	2J2-14133-00-00	. SPRING, THROTTLE STOP	1	
58	89A-14265-00-00	. COLLAR	1	
59	22F-14117-00-00	. WASHER, PLUG SCREW	1	
60	1UF-14952-00-00	. WASHER	1	
61	89A-14594-00-00	. NUT	1	
62	89A-24529-00-00	. SPRING	1	
63	87S-8259A-00-00	. SWITCH, CARBURETOR	1	
64	89A-14198-00-00	GASKET	4	
65	98506-04010-00	SCREW, PAN HEAD	8	
66	98701-04014-00	SCREW, FLAT HEAD	1	
67	89A-14208-00-00	LEVER COMP. 1	4	
68	11J-14991-00-00	SCREW (11H-14991-00-00)	4	
69	89A-14264-00-00	COLLAR	2	
70	89A-14589-00-00	SPRING	1	
71	3H1-14227-00-00	WASHER	2	
72	3LD-14919-00-00	CLIP	1	
73	89A-14275-00-00	SPRING	1	
74	98511-04016-00	SCREW, PAN HEAD	3	
75	98580-05012-00	SCREW, PAN HEAD	16	
76	89A-14978-00-00	SHAFT, STARTER LEVER	1	
77	35H-14139-00-00	CLIP, PIPE	3	
78	98580-05010-00	SCREW, PAN HEAD	1	

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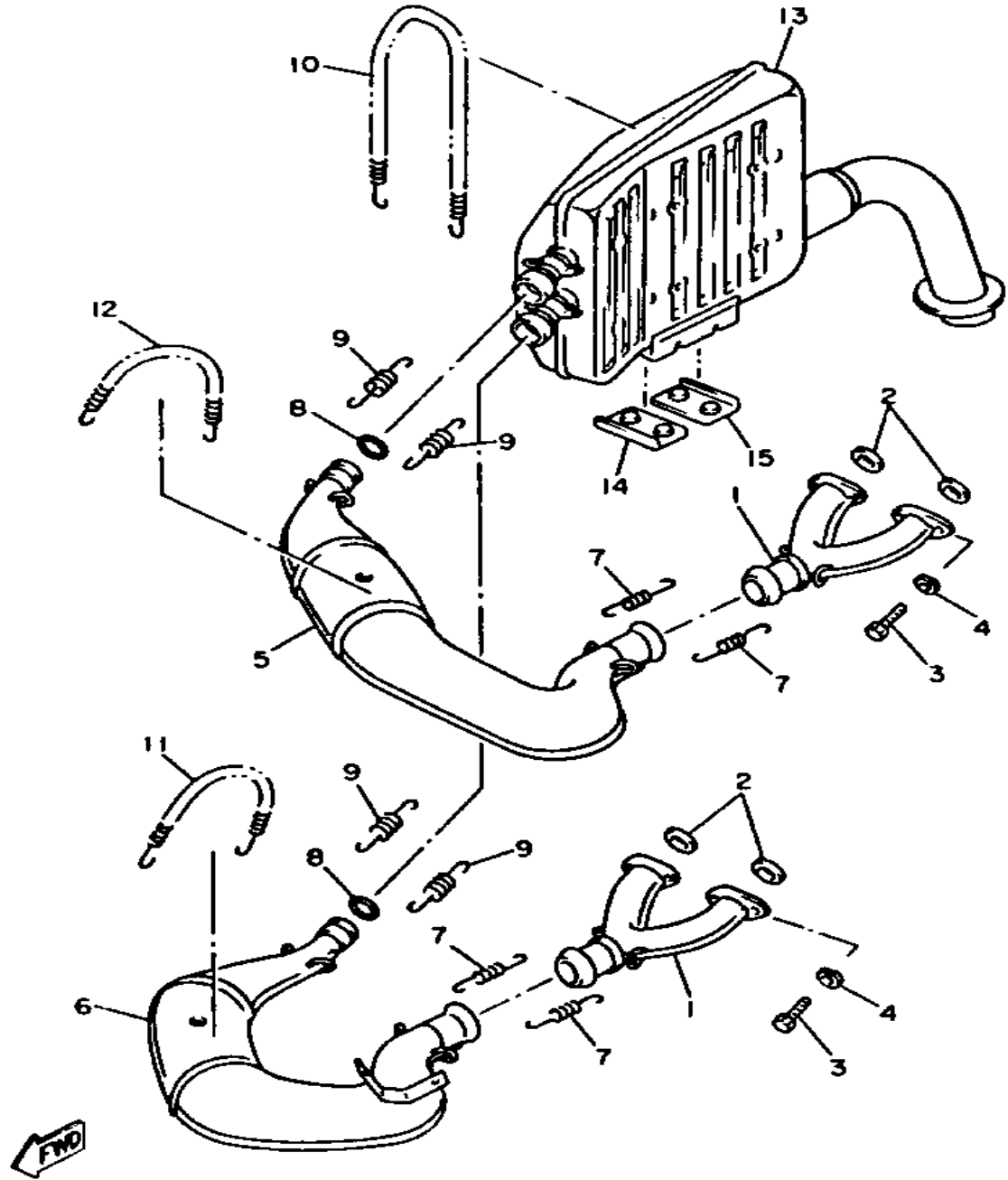


89A100-2070

Ref. No.	Part Number	Description	Qty	Remarks
79	22F-14115-00-00	PLUG, SCREW	1	
80	22F-14117-00-00	WASHER, PLUG SCREW	1	
81	3FV-14962-00-00	WASHER	1	
82	1AE-14135-00-00	SPRING, PLUNGER	2	
83	89A-14118-00-00	CAP	1	

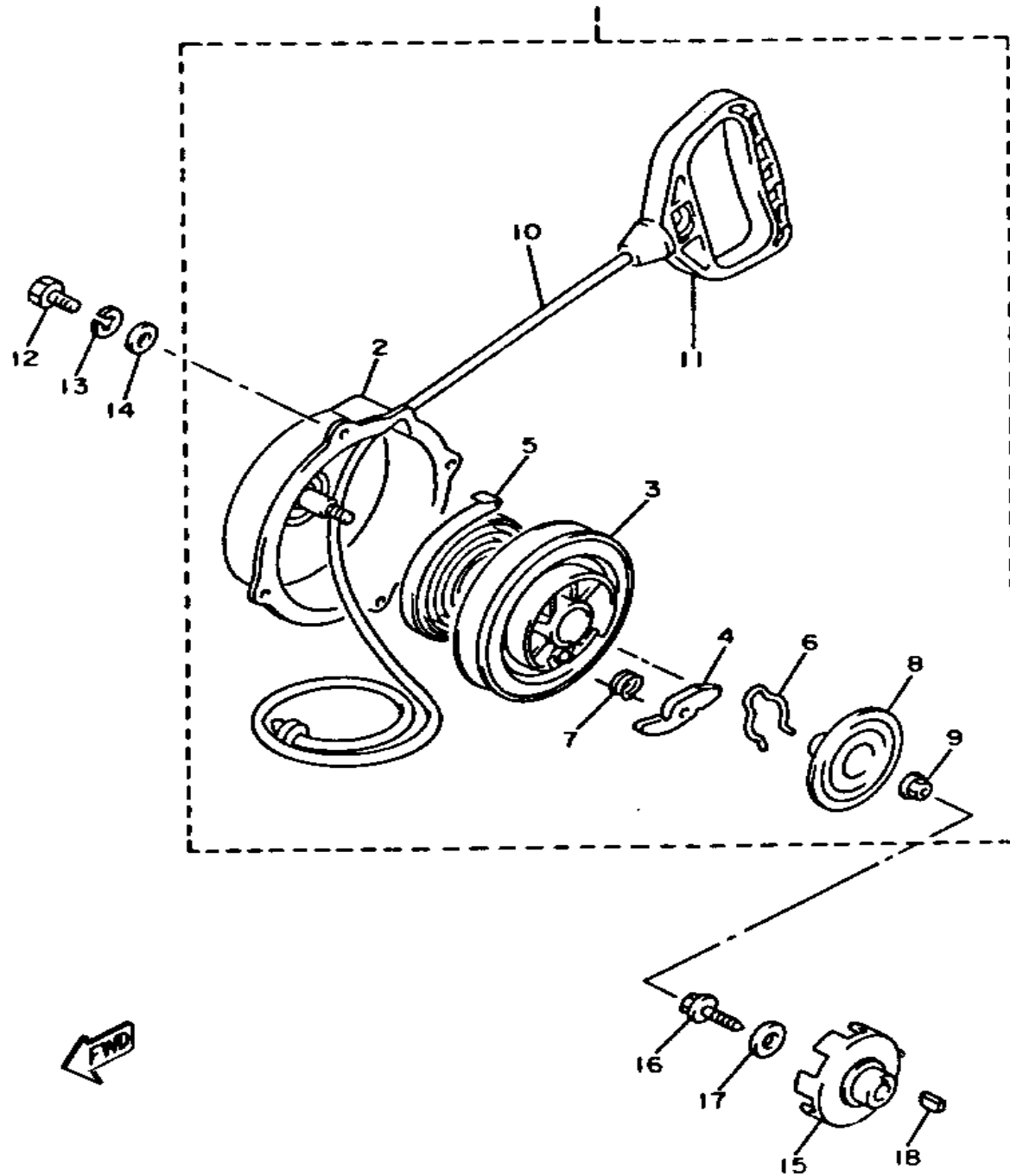
EXHAUST

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-14610-00-00	EXHAUST PIPE ASSEMBLY 1 .	2	
2	89A-14613-00-00	GASKET, EXHAUST PIPE	4	
3	97313-08020-00	BOLT, HEXAGON	8	
4	92990-08100-00	WASHER	8	
5	89A-14620-01-00	EXHAUST PIPE ASSEMBLY 2 .	1	
6	89A-14630-01-00	EXHAUST PIPE ASSEMBLY 3 .	1	
7	90506-20272-00	SPRING, TENSION	4	
8	8F2-14633-00-00	RING	2	
9	90506-20093-00	SPRING, TENSION	4	
10	90507-16046-00	SPRING, TENSION	1	
11	90506-16076-00	SPRING, TENSION	1	
12	90506-16210-00	SPRING, TENSION	1	
13	89A-14640-00-00	SECOND SILENCER, MUFFLER	1	
14	89A-14728-00-00	PROTECTOR, MUFFLER 2	1	
15	8A5-14728-02-00	PROTECTOR, MUFFLER 2	1	



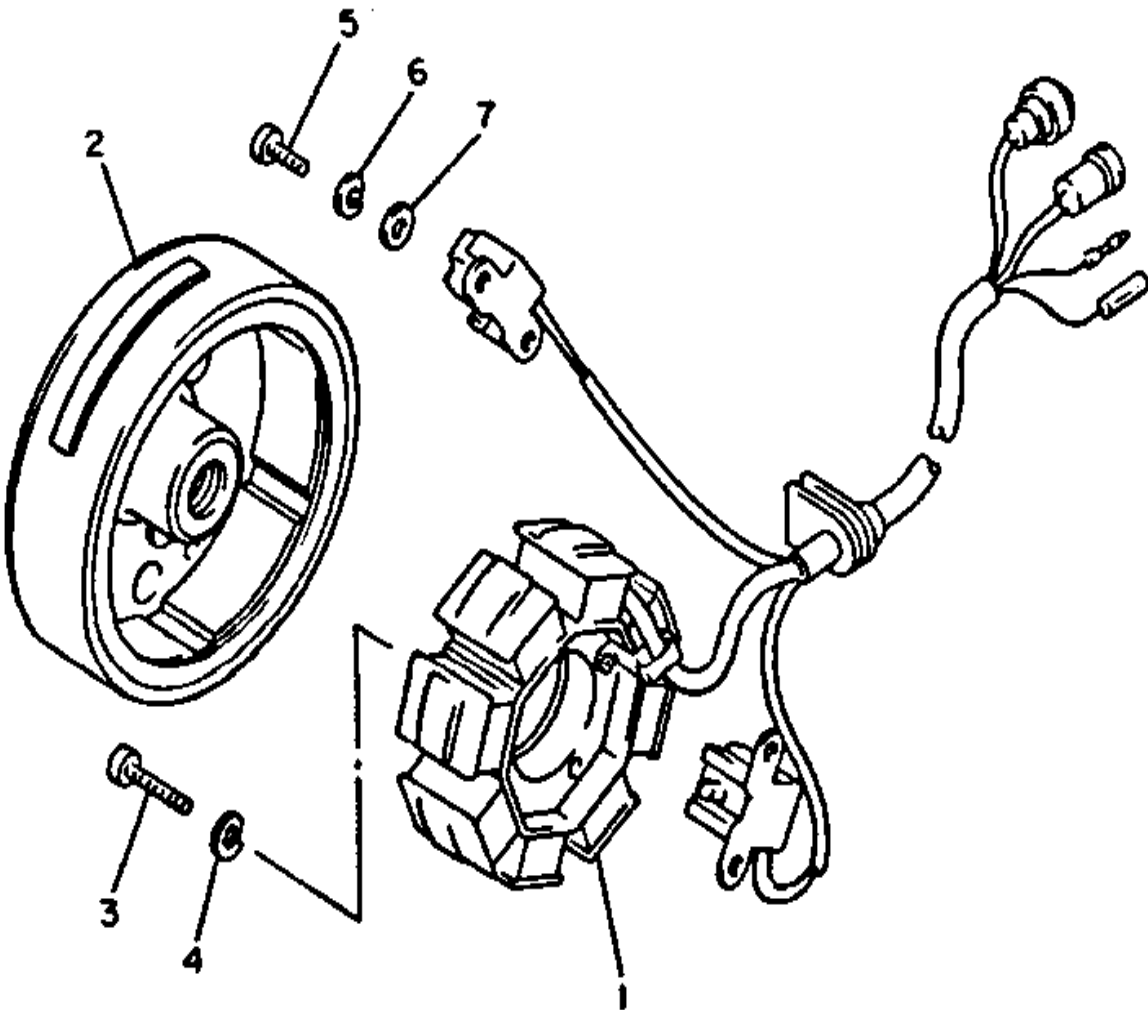
B9A100-2070

STARTER



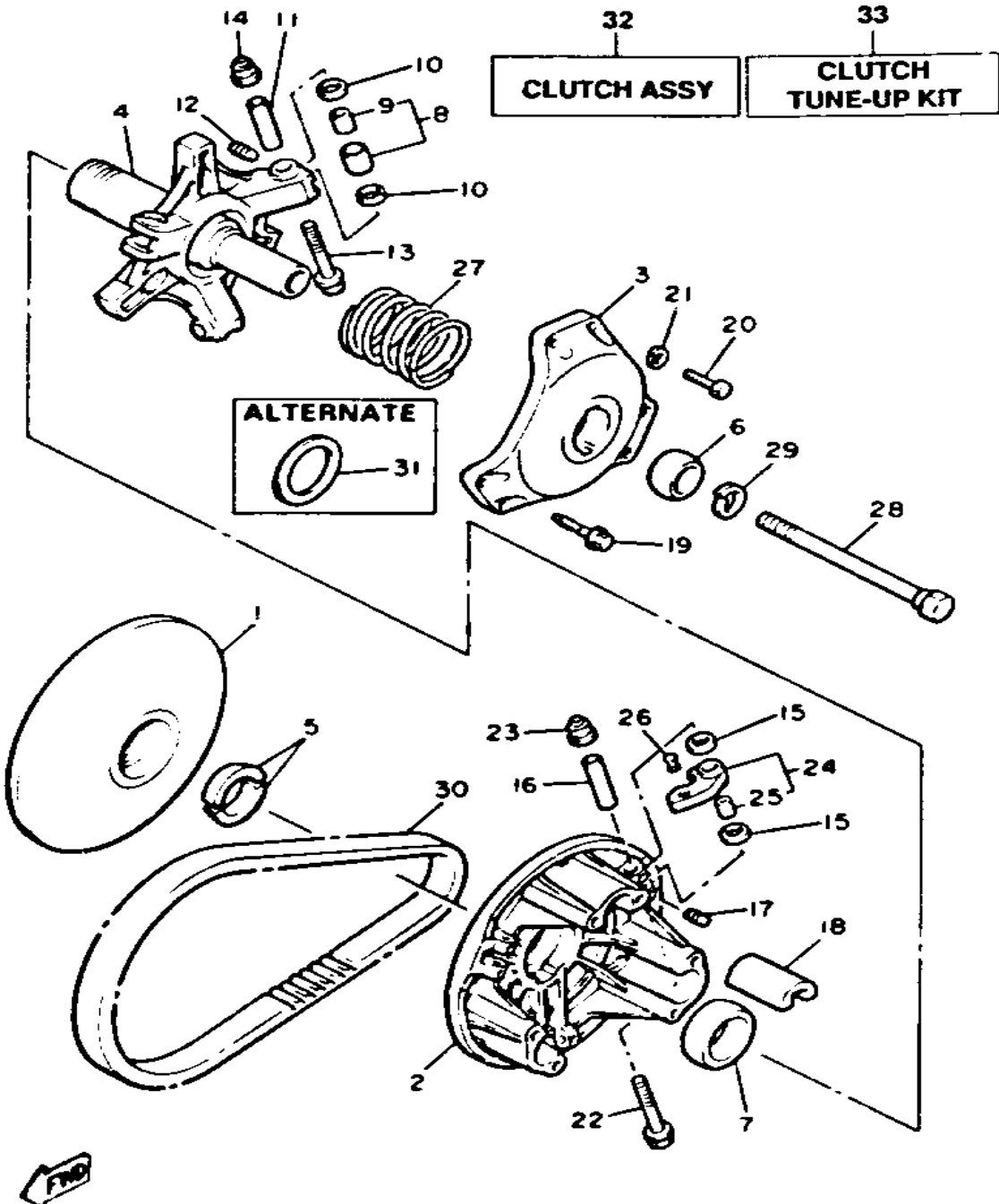
Ref. No.	Part Number	Description	Qty	Remarks
1	89A-15710-00-00	STARTER ASSEMBLY	1	
2	89A-15711-00-00	. CASE, STARTER	1	
3	24W-15714-00-00	. DRUM, SHEAVE	1	
4	21V-15741-00-00	. PAWL, DRIVE	1	
5	21V-15713-00-00	. SPRING, STARTER	1	
6	21V-15715-00-00	. SPRING, FRICTION	1	
7	21V-15767-00-00	. SPRING	1	
8	21V-15716-00-00	. PLATE, DRIVE	1	
9	95701-06500-00	. NUT, FLANGE	1	
10	89A-15751-00-00	. WIRE, STARTER	1	
11	8F3-15755-00-00	. HANDLE, STARTER	1	
12	97313-06014-00	BOLT, HEXAGON	4	
13	92995-06100-00	WASHER, SPRING	4	
14	92990-06600-00	WASHER, PLATE	4	
15	89A-15723-00-00	PULLEY, STARTER	1	
16	90105-08677-00	BOLT, WASHER BASED	1	
17	90201-081R9-00	WASHER, PLATE	1	
18	90280-05014-00	KEY, WOODRUFF	1	

GENERATOR



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-85510-00-00	STATOR ASSEMBLY	1	
2	89A-85550-00-00	ROTOR ASSEMBLY	1	
3	98511-06025-00	SCREW PAN HEAD (92501-06025)	3	
4	92995-06100-00	WASHER, SPRING	3	
5	98580-05016-00	SCREW, PAN HEAD	4	
6	92990-05100-00	WASHER, SPRING	4	
7	92901-05600-00	WASHER, PLATE	4	

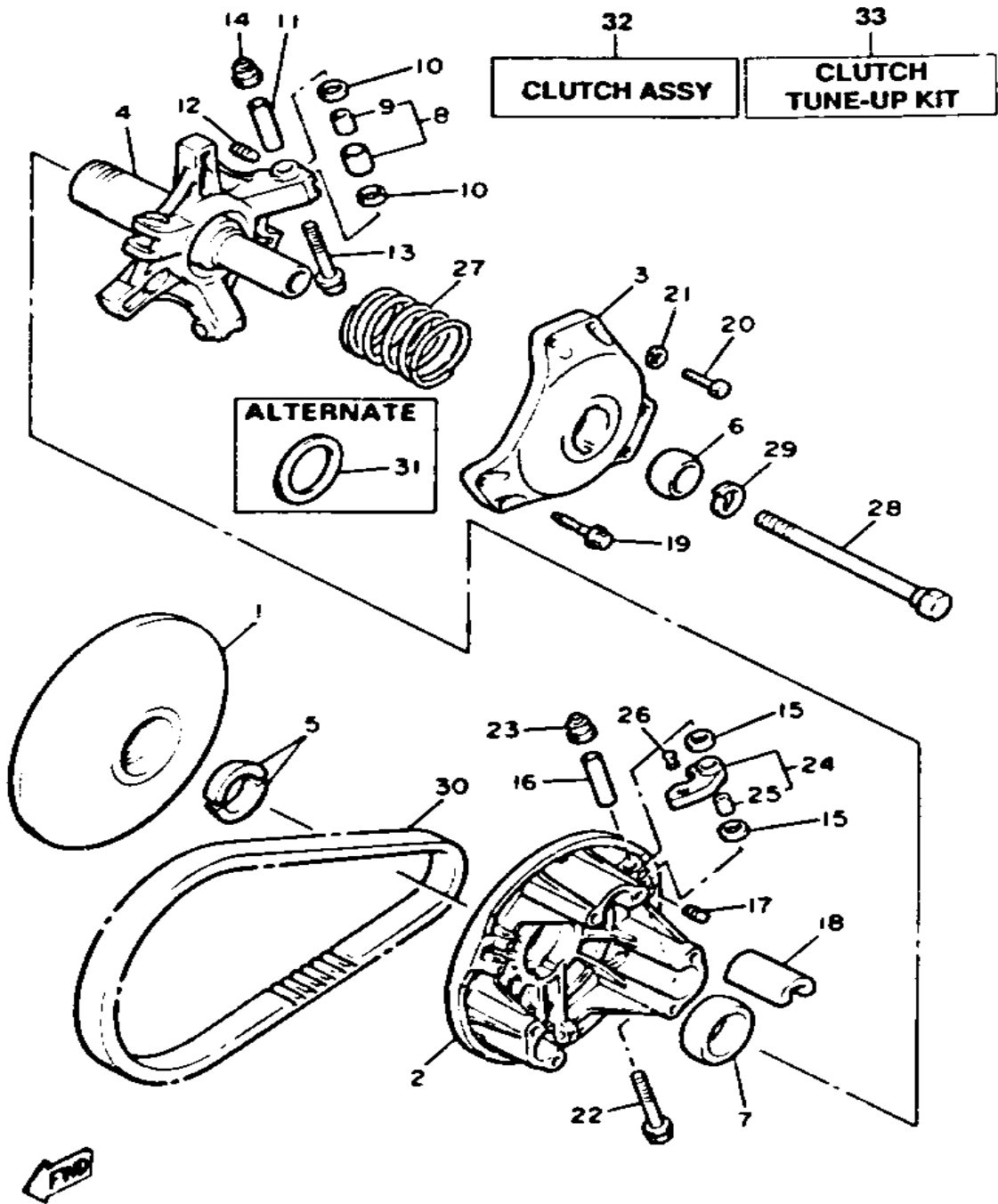
PRIMARY SHEAVE



Ref. No.	Part Number	Description	Qty	Remarks
1	88R-17611-02-00	SHEAVE, PRIMARY FIXED	1	
2	88R-17621-01-00	SHEAVE, PRIMARY SLIDING	1	
3	88R-17631-01-00	CAP	1	
4	88R-17640-00-00	SPIDER COMPLETE	1	
5	8V0-17639-00-00	STOPPER	2	
6	90389-28032-00	BUSH	1	
7	90389-41031-00	BUSH	1	
8	89A-17624-00-00	ROLLER COMP	3	
9	90380-08221-00	. BUSH, SOLID	1	
10	90202-08204-00	WASHER, PLATE	6	
11	90387-056X4-00	COLLAR/PIN	3	
12	90113-05053-00	BOLT, SET	6	
13	90105-05644-00	BOLT, WASHER BASED	3	
14	95601-05200-00	NUT, SELF-LOCKING	3	
15	90202-08204-00	WASHER, PLATE	6	
16	90387-056X4-00	COLLAR/PIN	3	
17	90113-05053-00	BOLT, SET	6	
18	88R-17653-01-00	SLIDER	3	
19	90109-066F4-00	BOLT	2	
20	97012-06030-00	BOLT	4	
21	92995-06100-00	WASHER, SPRING	4	
22	90105-05644-00	BOLT, WASHER BASED	3	
23	95601-05200-00	NUT, SELF-LOCKING	3	
24	89A-17605-00-00	WEIGHT COMP	3	
25	90380-08221-00	. BUSH, SOLID	1	
26	90261-06017-00	RIVET, COUNTERSUNK (ST11.3MM)	3	AP
	90261-06019-00	RIVET, COUNTERSUNK (ST13.3MM)	3	UR STD

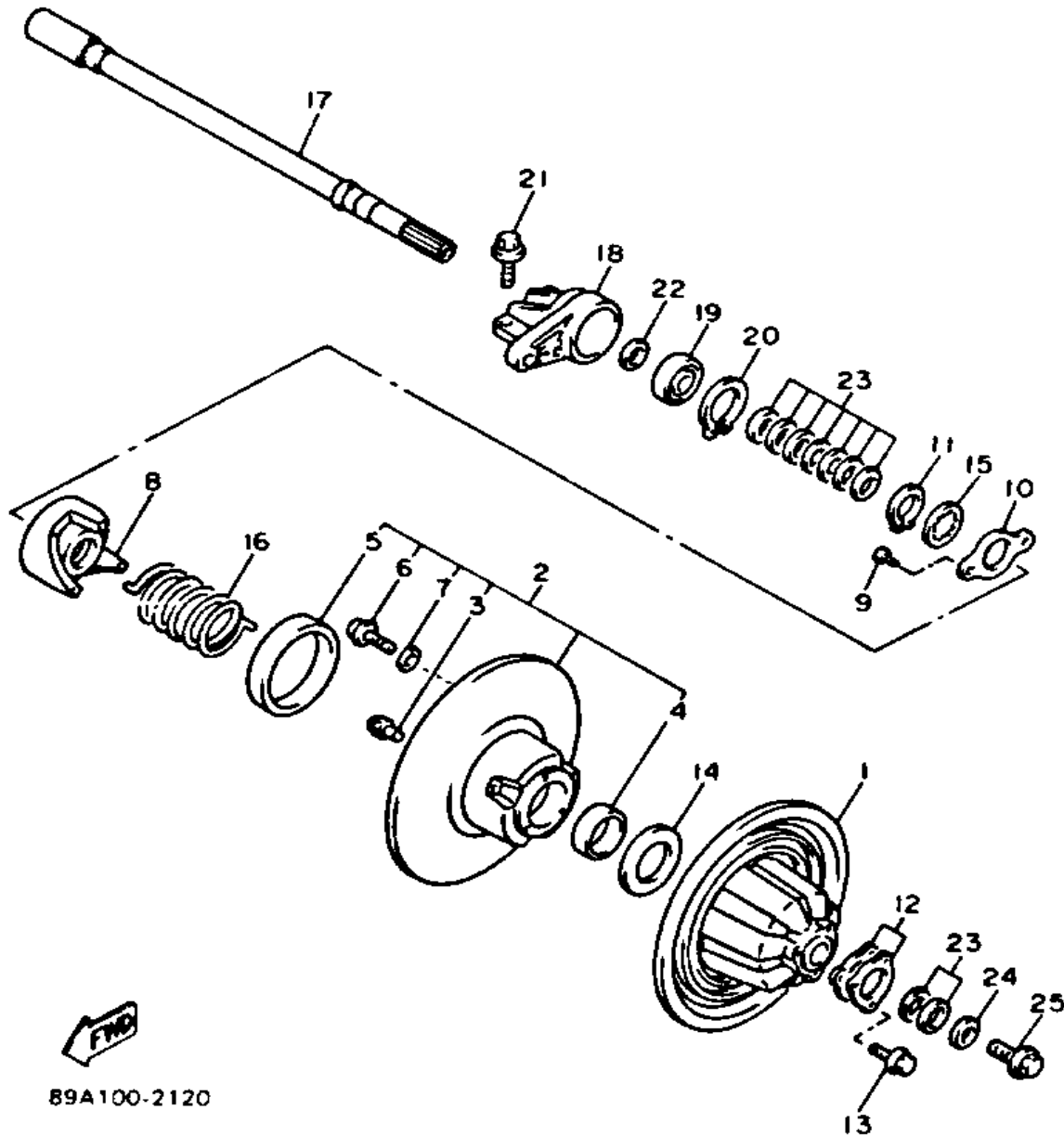
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PRIMARY SHEAVE



Ref. No.	Part Number	Description	Qty	Remarks
26	90261-06028-00	RIVET, COUNTERSUNK (AL10.3MM)	3	AP
	90261-06031-00	RIVET, COUNTERSUNK HEAD (LEAD)	3	AP
27	90501-524G4-00	SPRING, COMPRESSION	1	AP
	90501-524G5-00	SPRING, COMPRESSION	1	UR STD
	90501-553G0-00	SPRING, COMPRESSION	1	AP
	90501-553G6-00	SPRING, COMPRESSION	1	AP
	90501-555G8-00	SPRING, COMPRESSION	1	AP
	90501-556G5-00	SPRING, COMPRESSION	1	AP
	90501-604G0-00	SPRING, COMPRESSION	1	AP
	90501-605G7-00	SPRING, COMPRESSION	1	AP
	90501-607G0-00	SPRING, COMPRESSION	1	AP
28	88R-17647-00-00	BOLT (L=165.3MM)	1	
29	92901-16100-00	WASHER, SPRING	1	
30	89A-17641-00-00	V-BELT	1	
31	90201-483P9-00	WASHER, PLATE	1	AP
32	88R-17601-09-00	CLUTCH ASSEMBLY	1	AP MARKED W/
33	89A-00000-50-00	CLUTCH TUNE-UP KIT	1	UR STD

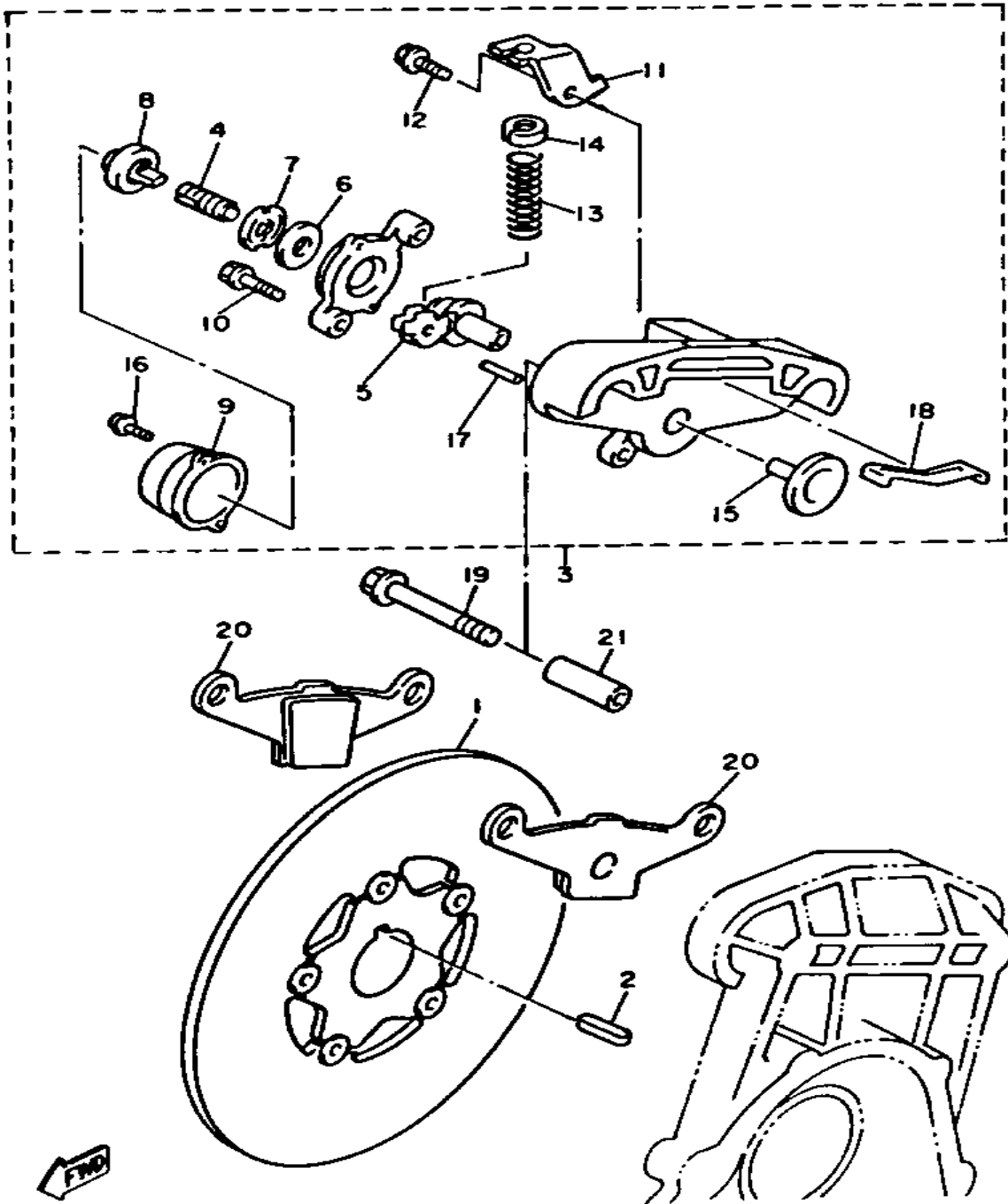
SECONDARY SHEAVE



89A100-2120

Ref. No.	Part Number	Description	Qty	Remarks
8	89A-17684-3A-00	SEAT, SEC SPRING 33SPRING (33)	1	AP
	89A-17684-6A-00	SEAT, SEC SPRING 36SPRING (36)	1	AP
9	90154-06036-00	SCREW, BINDING	2	
10	90209-38320-00	WASHER	1	
11	93410-38076-00	CIRCLIP	1	
12	89A-17656-00-00	STOPPER, HOLDER	2	
13	90105-06653-00	BOLT, WASHER BASED	3	
14	90201-384P6-00	WASHER, PLATE	1	
15	90209-34321-00	WASHER	1	
16	90508-551A3-00	SPRING, TORSION	1	AP
	90508-553A0-00	SPRING, TORSION	1	AP
	90508-553A1-00	SPRING, TORSION	1	UR STD
17	89A-17680-00-00	SECONDARY SHAFT COMP.	1	
18	89A-47631-00-00	HOUSING, BEARING	1	
19	93306-20641-00	BEARING	1	
20	93420-62070-00	CIRCLIP 54G	1	
21	95821-08025-00	BOLT, FLANGE	4	
22	90201-284P7-00	WASHER, PLATE	1	
23	90201-284P7-00	WASHER, PLATE	1	UR UN
	90201-284P8-00	WASHER, PLATE	1	UR UN
	90201-284P9-00	WASHER, PLATE	1	UR UN
24	90201-141M3-00	WASHER, PLATE	1	
25	90105-14175-00	BOLT, WASHER BASED	1	

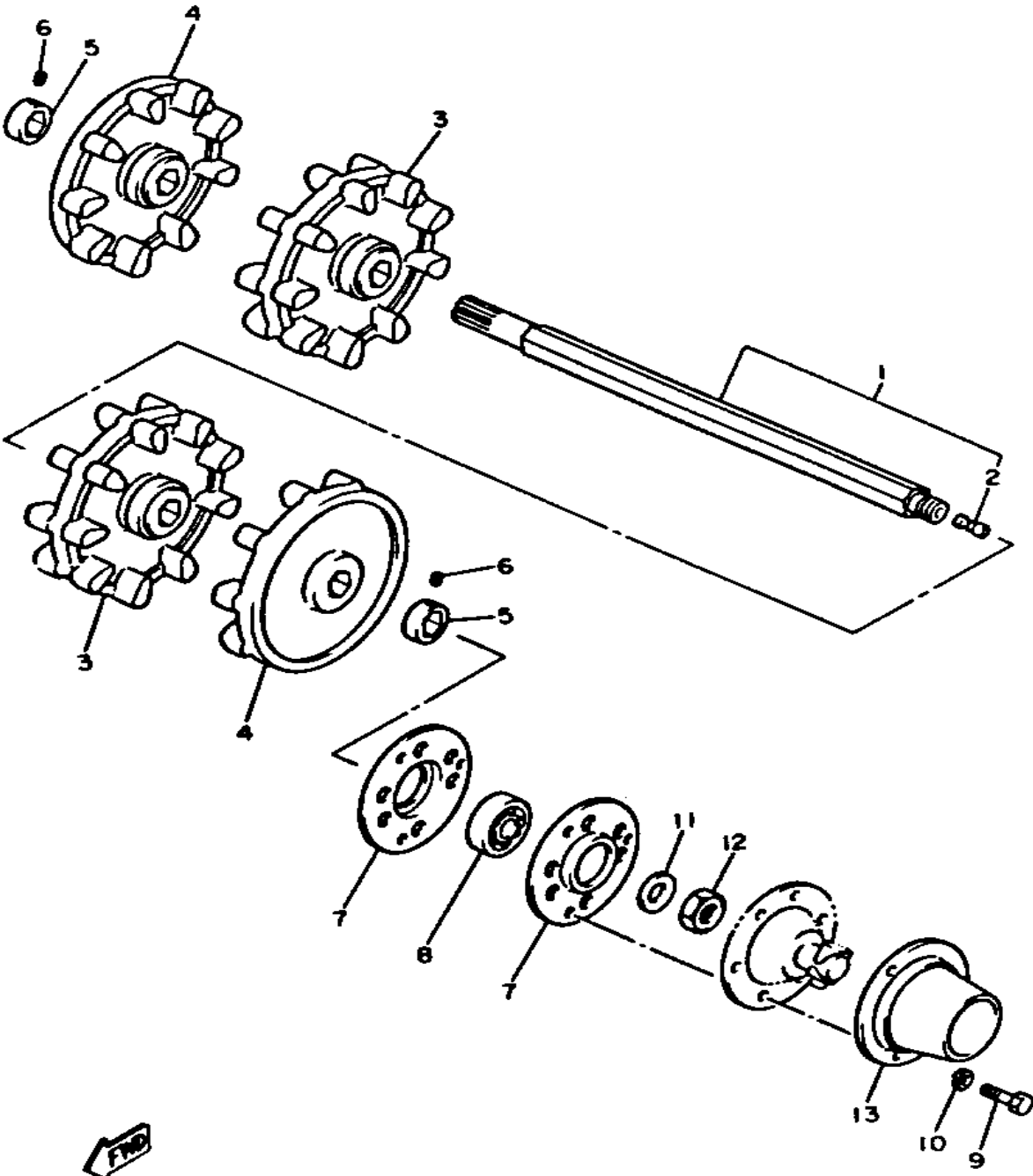
BRAKE



89A100-2210

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-25830-00-00	DISK BRAKE ASSEMBLY	1	
2	90281-07004-00	KEY, SLIDING	1	
3	89A-25730-00-00	CALIPER BODY COMP 1	1	
4	86M-25738-00-00	. SCREW, ADJUSTING 1	1	
5	86M-25726-01-00	. LEVER, BRAKE	1	
6	86M-25827-00-00	. SHIM, CALIPER	1	
7	86M-25773-00-00	. LOCK, ONE WAY 2	1	
8	89A-25771-00-00	. RATCHET, ADJUSTING	1	
9	86M-25772-00-00	. COVER	1	
10	86M-25818-00-00	. BOLT, CALIPER	2	
11	86M-25721-00-00	. BRACKET, CALIPER	1	
12	86M-25826-00-00	. BOLT 3	1	
13	86M-25743-00-00	. SPRING, COMPRESSION	1	
14	86M-25714-00-00	. STOPPER, SPRING	1	
15	89A-25733-00-00	. PLATE, BACK UP	1	
16	86M-25833-00-00	. BOLT, FITTING	2	
17	86M-25744-00-00	. PIN 2	1	
18	89A-25736-00-00	. HOOK, SPRING	1	
19	90105-10667-00	BOLT, WASHER BASED	2	
20	89A-25811-00-00	BRAKE PAD	2	
21	90387-105Y1-00	COLLAR	2	

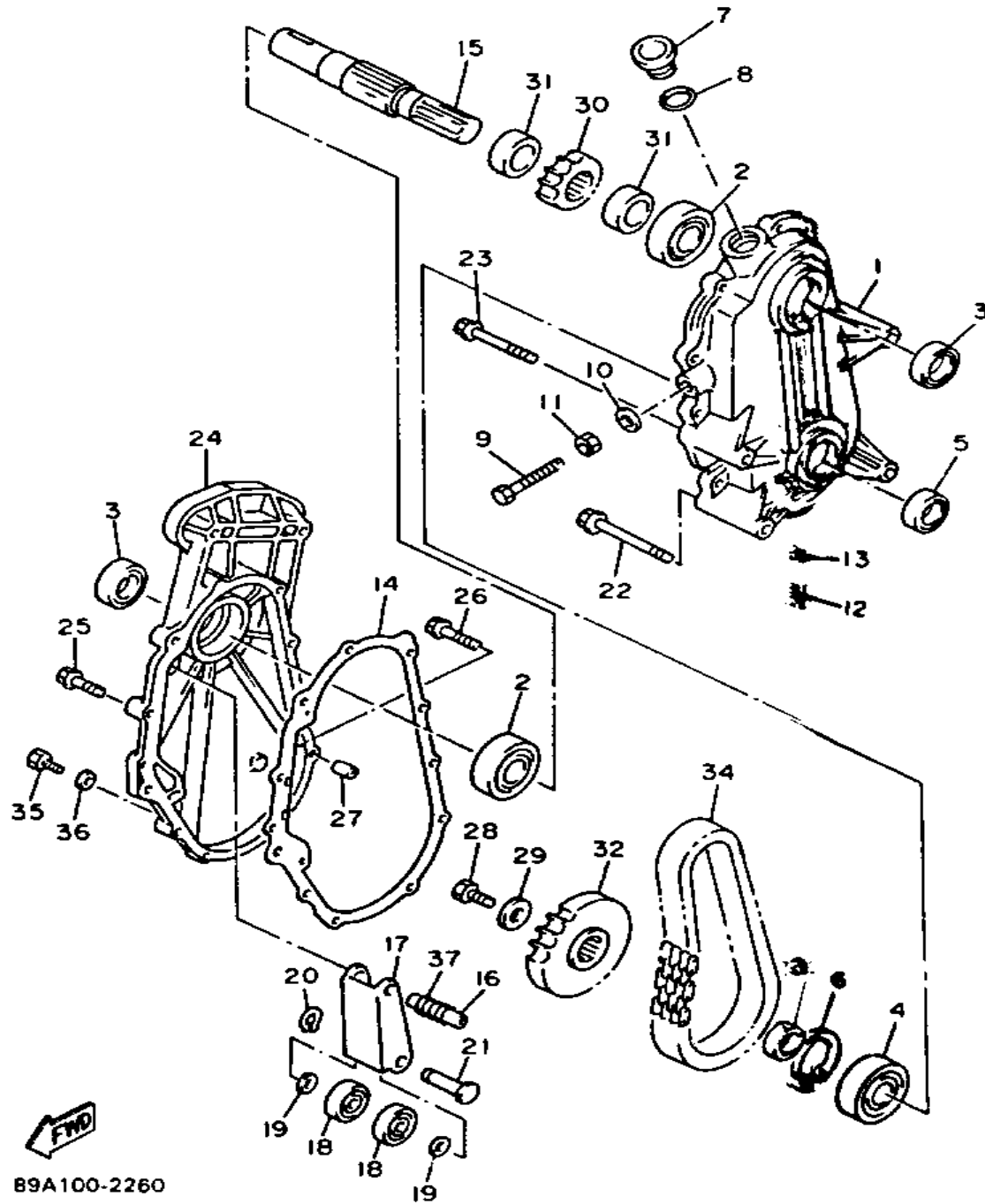
TRACK DRIVE 1



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-W4751-00-00	AXLE, FRONT	1	
2	8K4-47577-00-00	. CONNECTOR	1	
3	89A-47531-01-00	WHEEL, SPROCKET 1	2	
4	89A-47532-01-00	WHEEL, SPROCKET 2	2	
5	8K1-47526-00-00	COLLAR	2	
6	90113-06039-00	BOLT, SET	2	
7	89A-47551-00-00	HOUSING, FRONT AXLE	2	
8	93306-27206-00	BEARING	1	
9	97011-08025-00	BOLT	3	
10	92990-08100-00	WASHER	3	
11	90208-22001-00	WASHER, CONICAL SPRING	1	
12	90170-22094-00	NUT	1	
13	89A-47721-00-00	COVER, HOUSING	1	

FIND
89A100-2250

TRACK DRIVE 2

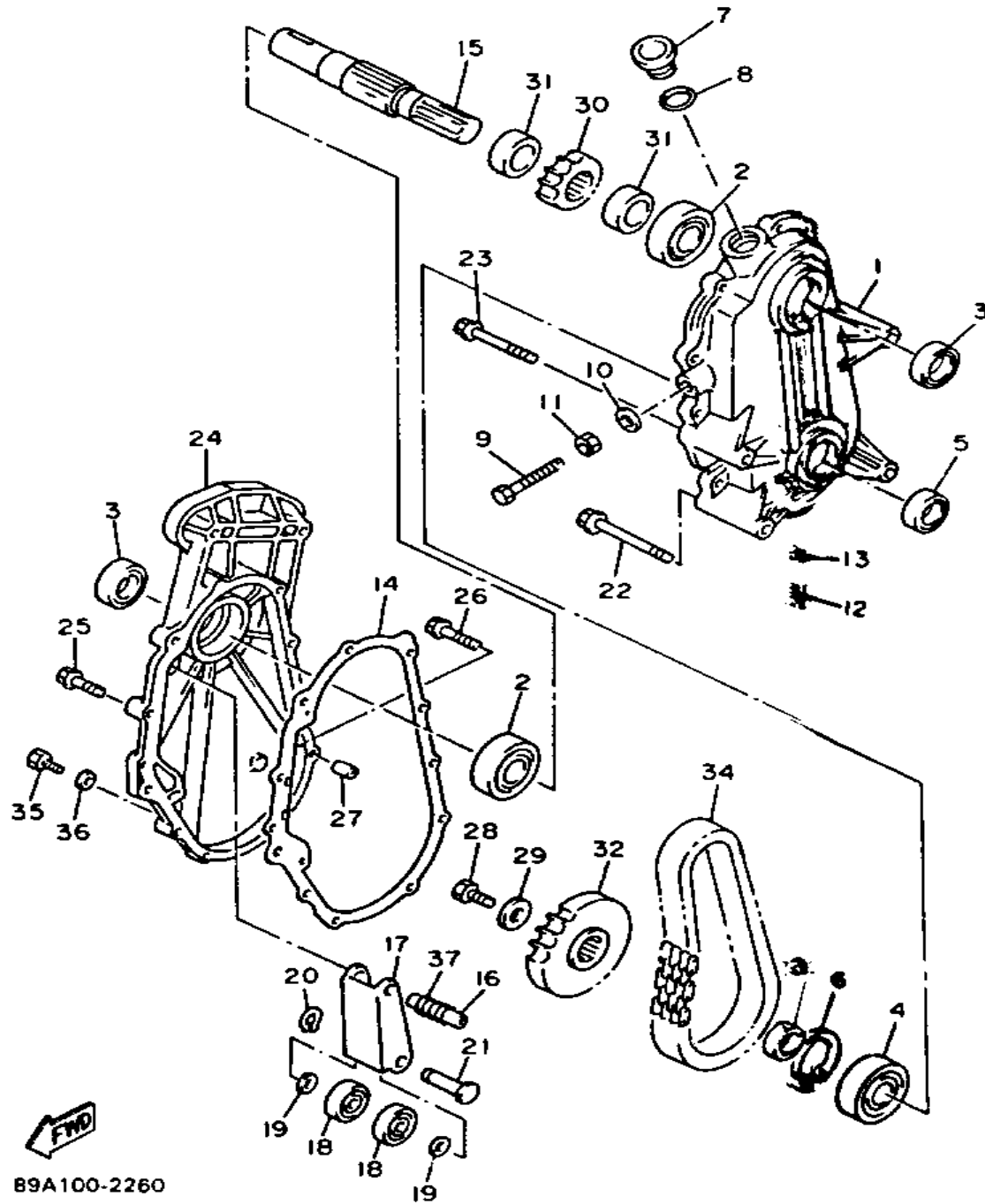


B9A100-2260

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-47541-00-00	HOUSING, CHAIN	1	
2	93306-27801-00	BEARING	2	
3	93102-28022-00	OIL SEAL	2	
4	93306-30560-00	BEARING	1	
5	93102-25081-00	OIL SEAL	1	
6	93420-62070-00	CIRCLIP 54G	1	
7	3FV-15363-00-00	PLUG, OIL	1	
8	93210-27778-00	O-RING	1	
9	90101-10357-00	BOLT	1	
10	90210-10004-00	WASHER, SEAL	1	
11	95303-10700-00	NUT	1	
12	98903-06008-00	SCREW, BIND	1	
13	90430-06016-00	GASKET	1	
14	89A-47592-00-00	GASKET	1	
15	89A-17421-00-00	AXLE, DRIVE	1	
16	90387-061Y2-00	COLLAR	1	
17	89A-47613-00-00	HOLDER	1	
18	93306-30110-00	BEARING	2	
19	92990-12600-00	WASHER, PLATE	2	
20	99009-12400-00	CIRCLIP	1	
21	90249-12218-00	PIN	1	
22	95811-08080-00	BOLT, FLANGE	3	
23	95811-08095-00	BOLT, FLANGE	1	
24	89A-47543-00-00	CAP, HOUSING	1	
25	95811-06030-00	BOLT, FLANGE	7	
26	95811-06040-00	BOLT, FLANGE	4	
27	99530-10014-00	PIN, DOWEL	2	
28	97011-10025-00	BOLT	1	
29	90201-10742-00	WASHER, PLATE	1	

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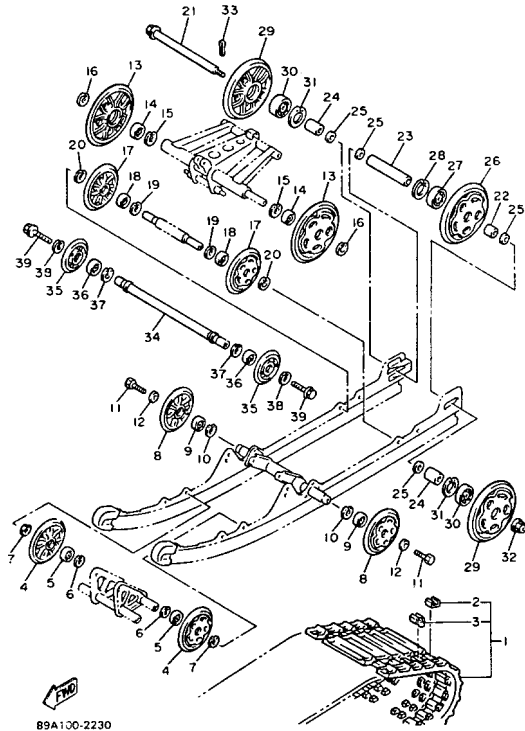
TRACK DRIVE 2



B9A100-2260

Ref. No.	Part Number	Description	Qty	Remarks
30	89A-17682-00-00	SPRKT, CHAIN DR	1	UR STD
	89A-17682-10-00	SPRKT, CHAIN DR	1	AP
	89A-17682-20-00	SPRKT, CHAIN DR	1	AP
	89A-17682-30-00	SPRKT, CHAIN DR	1	AP
	89A-17682-40-00	SPRKT, CHAIN DR	1	AP
31	90387-341Y3-00	COLLAR	2	
32	89A-47587-30-00	SPROCKET, CHAIN DRIVEN (33T)	1	UR STD
	89A-47587-50-00	SPROCKET, CHAIN DRIVEN (35T)	1	AP
	89A-47587-70-00	SPROCKET, CHAIN DRIVEN (37T)	1	AP
	89A-47587-90-00	SPROCKET, CHAIN DRIVEN (39T)	1	AP
33	90387-25663-00	COLLAR	1	
34	94880-03066-00	CHAIN (89A)	1	UR STD
	94880-03068-00	CHAIN (68L)	1	AP
	94880-03070-00	CHAIN (70L)	1	AP
35	97011-06010-00	BOLT	1	
36	90210-06006-00	WASHER, SEAL	1	
37	90508-343A2-00	SPRING, TORSION	1	

TRACK SUSPENSION 1

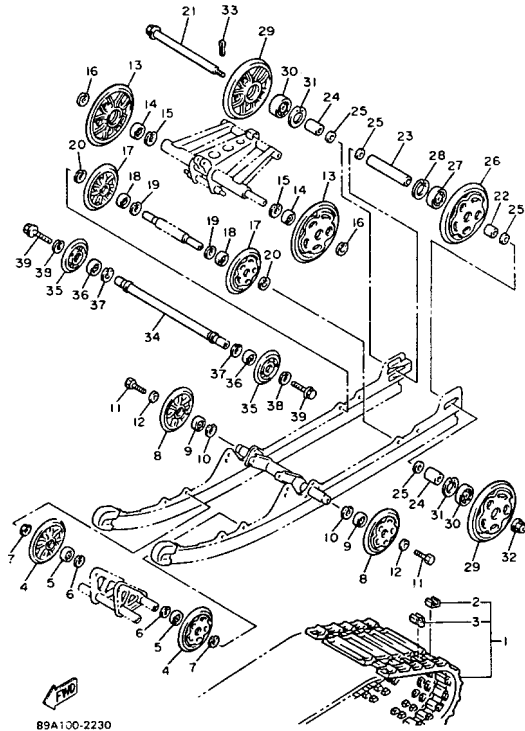


89A100-2230

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-47110-01-00	TRACK ASSEMBLY	1	
2	89A-47113-00-00	. PLATE, REINFORCEMENT ..	48	
3	89A-47115-00-00	. METAL, SLIDE	48	
4	87M-47320-00-00	SUSPENSION WHEEL COMP. .	2	
5	93306-00441-00	BEARING (89A) (B6004RS) ...	2	
6	99009-42500-00	CIRCLIP	2	
7	99009-20400-00	CIRCLIP	2	
8	87U-47320-00-00	SUSPENSION WHEEL COMP. .	2	
9	93306-00441-00	BEARING (89A) (B6004RS) ...	2	
10	99009-42500-00	CIRCLIP	2	
11	90109-08559-00	BOLT	2	
12	90201-08681-00	WASHER, PLATE	2	
13	88R-47320-00-00	SUSPENSION WHEEL COMP. .	2	
14	93306-00441-00	BEARING (89A) (B6004RS) ...	2	
15	99009-42500-00	CIRCLIP	2	
16	99009-20400-00	CIRCLIP	2	
17	87M-47320-00-00	SUSPENSION WHEEL COMP. .	2	
18	93306-00441-00	BEARING (89A) (B6004RS) ...	2	
19	99009-42500-00	CIRCLIP	2	
20	99009-20400-00	CIRCLIP	2	
21	8L8-47520-01-00	REAR AXLE COMP. (8L8-47520-02-00)	1	
22	90387-204R3-00	COLLAR	1	
23	90387-204R2-00	COLLAR	1	
24	90387-203H0-00	COLLAR	2	
25	90201-20279-00	WASHER, PLATE	4	
26	8K2-47530-00-00	GUIDE WHEEL COMP.	1	
27	93306-20417-00	BEARING (B62042RS)	1	
28	99009-47500-00	CIRCLIP	1	

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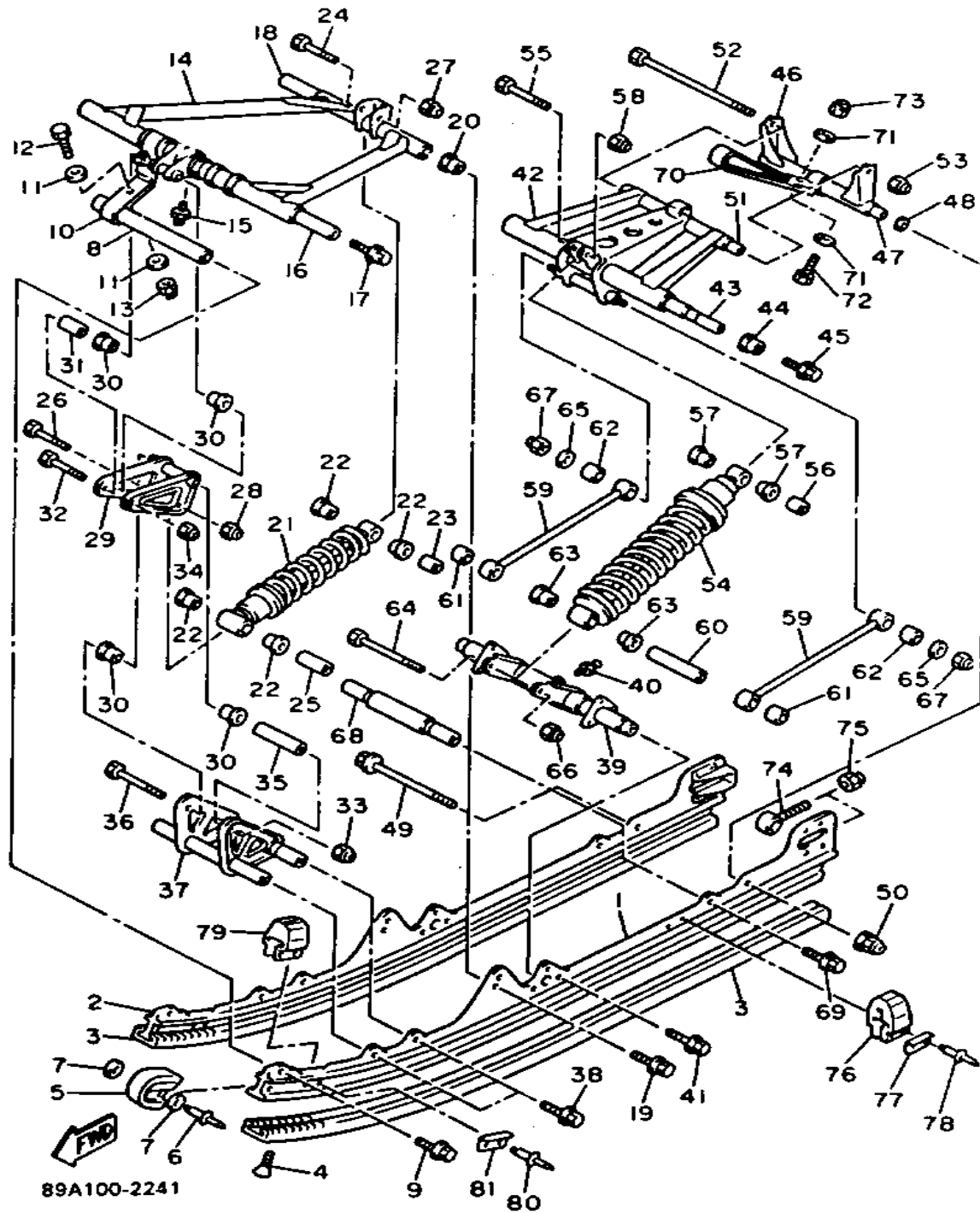
TRACK SUSPENSION 1



89A100-2230

Ref. No.	Part Number	Description	Qty	Remarks
29	8M6-47530-00-00	GUIDE WHEEL COMP.	2	
30	93306-20417-00	BEARING (B62042RS)	2	
31	99009-47500-00	CIRCLIP	2	
32	95601-14200-00	NUT, U	1	
33	91401-30030-00	PIN, COTTER	1	
34	89A-47461-01-00	IDLER	1	
35	8H8-47320-00-00	SUSPENSION WHEEL COMP. .	2	
36	93306-00441-00	BEARING (89A) (B6004RS) ...	2	
37	99009-42500-00	CIRCLIP	2	
38	99009-20400-00	CIRCLIP	2	
39	95816-08018-00	BOLT, FLANGE	2	

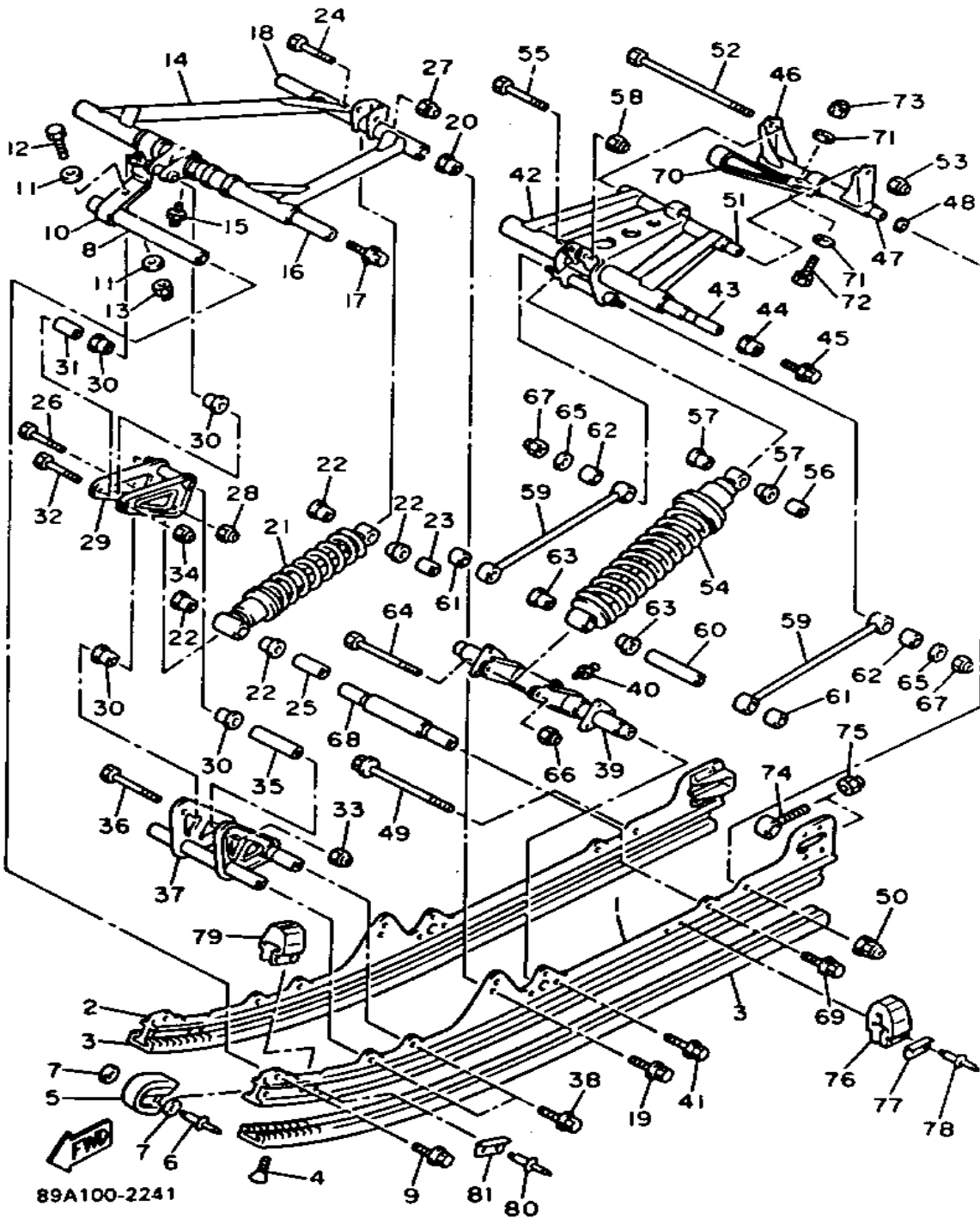
TRACK SUSPENSION 2



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-47411-01-00	FRAME, SLIDING 1	1	
2	89A-47412-01-00	FRAME, SLIDING 2	1	
3	89A-47421-10-XX	RUNNER, SLIDING 1	2	
4	90151-06010-00	SCREW, COUNTERSUNK	2	
5	89A-47422-00-00	RUNNER, SLIDING 2	2	
6	90267-48062-00	RIVET, BLIND	4	
7	92990-05200-00	WASHER, PLAIN	8	
8	82M-47485-01-00	SHAFT 3	1	
9	90105-10433-00	BOLT, WASHER BASED	2	
10	89A-47495-01-00	STOPPER 1	2	
11	90201-06407-00	WASHER, PLATE (90201-06747-00)	8	
12	97011-06025-00	BOLT (97001-06025)	4	
13	95701-06300-00	NUT, NYLON	4	
14	89A-47331-01-00	ARM, PIVOT 1	1	
15	93700-06M03-00	NIPPLE, GREASE	1	
16	89A-47465-01-00	SHAFT 1	1	
17	90109-10771-00	BOLT	2	
18	82M-47485-01-00	SHAFT 3	1	
19	90105-10433-00	BOLT, WASHER BASED	2	
20	90387-105G6-00	COLLAR	2	
21	89A-47481-01-00	SHOCK ABSORBER 2	1	
22	90387-123G4-00	COLLAR	4	
23	90387-08775-00	COLLAR	1	
24	90101-08557-00	BOLT	1	
25	90387-086G1-00	COLLAR	1	
26	97021-08065-00	BOLT	1	
27	95712-08300-00	NUT, LOCK	1	
28	95611-08100-00	NUT, U	1	

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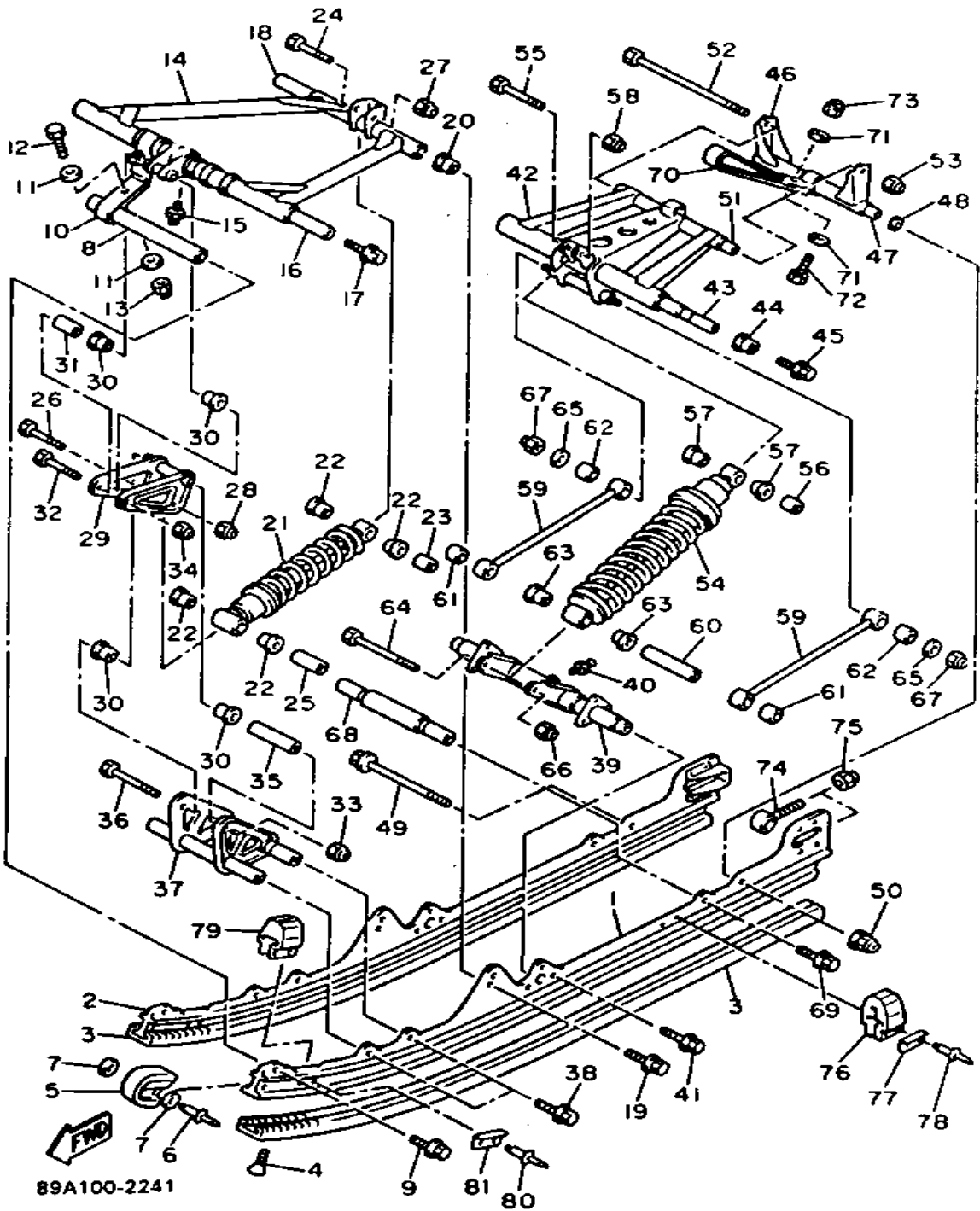
TRACK SUSPENSION 2



Ref. No.	Part Number	Description	Qty	Remarks
29	89A-47464-00-00	BRACKET 6	1	
30	90387-123G5-00	COLLAR	4	
31	90387-086G1-00	COLLAR	1	
32	97021-08065-00	BOLT	1	
33	95601-08200-00	NUT, U	1	
34	95611-08100-00	NUT, U	1	
35	90387-084G0-00	COLLAR	1	
36	97022-08100-00	BOLT	1	
37	89A-47418-01-00	BRACKET 4	1	
38	90105-10670-00	BOLT, WASHER BASED	4	
39	8AX-47416-00-00	BRACKET 2	1	
40	93700-06M03-00	NIPPLE, GREASE	1	
41	90105-06434-00	BOLT, WASHER BASED	6	
42	89J-47332-00-00	ARM, PIVOT 2	1	
43	89A-47475-01-00	SHAFT 2	1	
44	88R-47319-00-00	COLLAR	2	
45	90109-10771-00	BOLT	2	
46	8U7-47417-00-00	BRACKET 3	1	
47	90387-08632-00	COLLAR	1	
48	90201-08649-00	WASHER, PLATE	2	
49	95822-08250-00	BOLT, FLANGE	1	
50	95601-08200-00	NUT, U	1	
51	90387-083G6-00	COLLAR	1	
52	97022-08220-00	BOLT	1	
53	95712-08300-00	NUT, LOCK	1	
54	89A-47480-01-00	SHOCK ABSORBER	1	
55	90101-10738-00	BOLT	1	
56	90387-105G5-00	COLLAR	1	
57	90387-145G7-00	COLLAR	2	

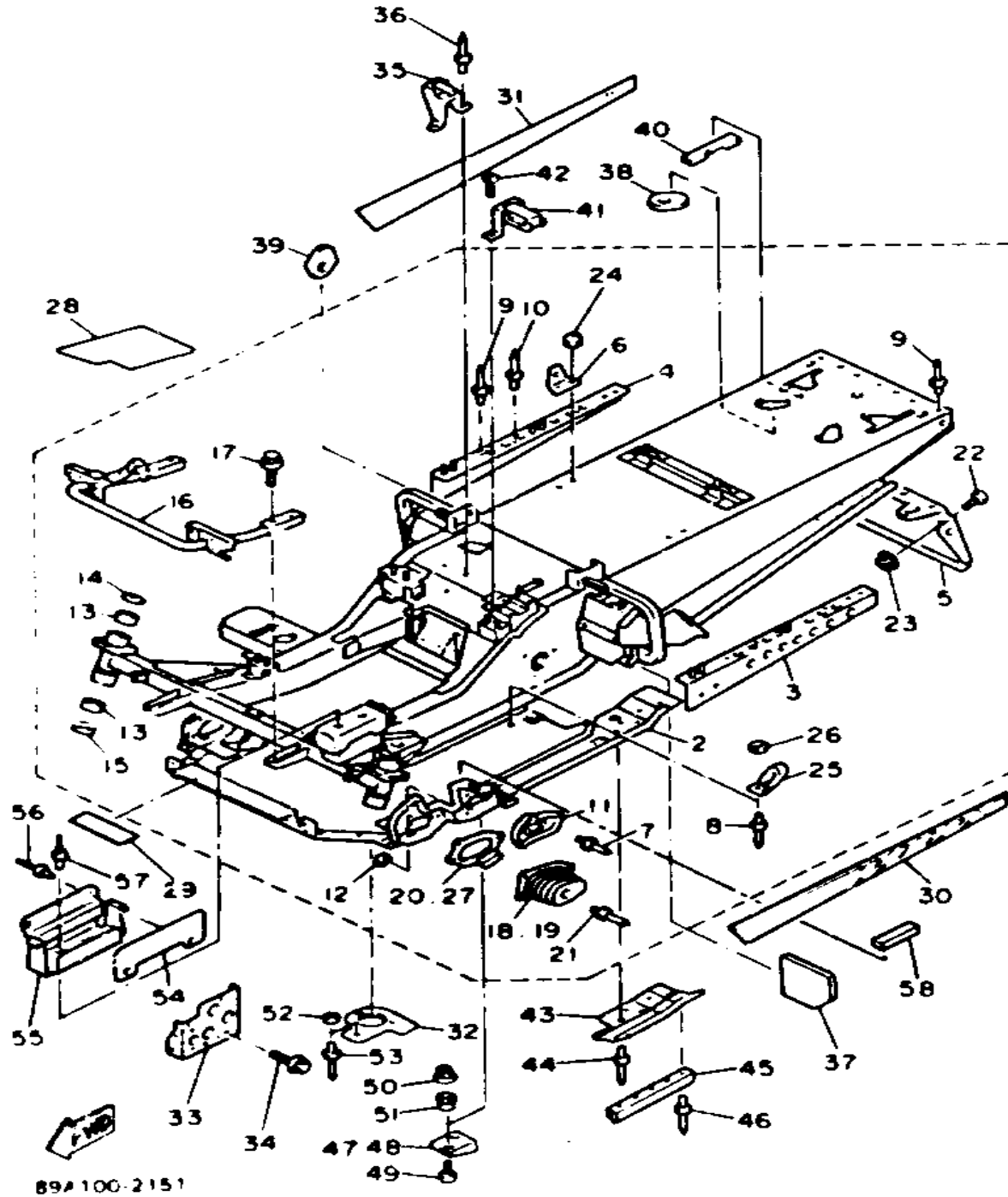
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TRACK SUSPENSION 2



Ref. No.	Part Number	Description	Qty	Remarks
58	95601-10100-00	NUT, U (95602-10100-00)	1	
59	89A-47494-01-00	ROD, RELAY	2	
60	90387-105Y8-00	COLLAR	1	
61	90387-165Y6-00	COLLAR	2	
62	90387-145Y7-00	COLLAR	2	
63	90387-165Y9-00	COLLAR	2	
64	90101-10747-00	BOLT	1	
65	90201-08795-00	WASHER, PLATE	2	
66	95701-10300-00	NUT, FLANGE (95702-10300)	1	
67	95712-08300-00	NUT, LOCK	2	
68	89A-47486-01-00	SHAFT 4	1	
69	90105-10670-00	BOLT, WASHER BASED	2	
70	89A-47496-00-00	STOPPER 2	1	
71	90201-06407-00	WASHER, PLATE (90201-06747-00)	2	
72	97001-06035-00	BOLT	1	
73	95701-06300-00	NUT, NYLON	1	
74	8K2-47479-01-00	COLLAR 3	2	
75	95701-10300-00	NUT, FLANGE (95702-10300)	2	
76	89A-47456-00-00	DAMPER 1	2	
77	8K2-47458-01-00	PLATE, DAMPER	4	
78	90267-48062-00	RIVET, BLIND	4	
79	83R-47456-00-00	DAMPER 1	2	AP
80	90267-48062-00	RIVET, BLIND	4	AP
81	8K2-47458-01-00	PLATE, DAMPER	4	AP

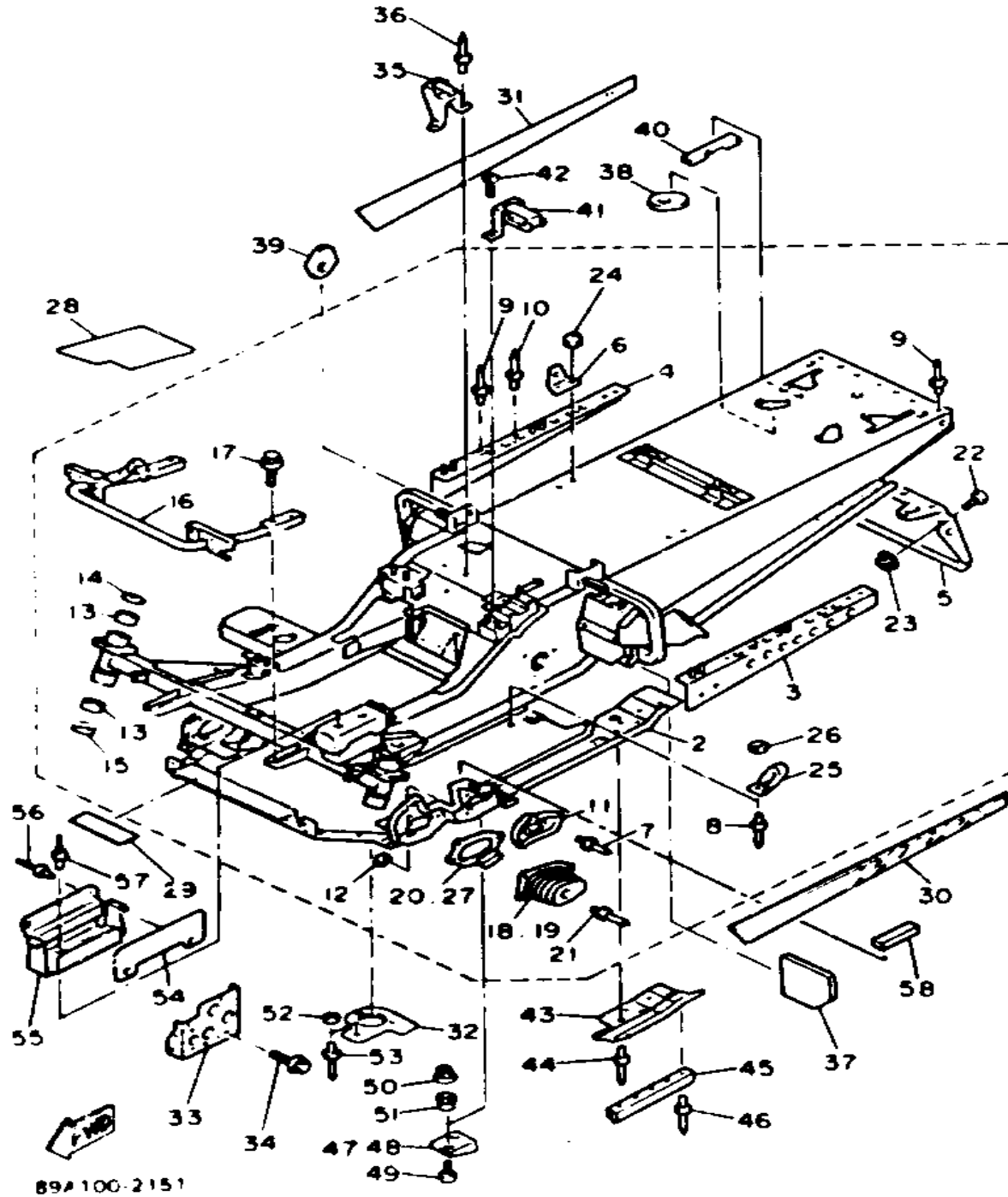
FRAME



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-21910-01-00	FRAME COMP.	1	
2	89A-21912-00-00	. PANEL, SUB FRAME 1	1	
3	89A-21964-00-00	. PATCH 4	1	
4	89A-21965-00-00	. PATCH 5	1	
5	89A-21923-00-00	. REINFORCEMENT, FRAME REAR 1	1	
6	8V0-21946-00-00	. BRACKET, SEAT FITTING ...	2	
7	90267-40076-00	. RIVET, BLIND	16	
8	90267-48141-00	. RIVET, BLIND	40	
9	90267-48060-00	. RIVET, BLIND	6	
10	82M-21966-00-00	PATCH 6	2	
	90269-04044-00	. RIVET	10	
11	8M6-2198F-00-00	. COVER 1	2	
12	90201-047A7-00	. WASHER, PLATE	6	
13	90380-38205-00	. BUSH, SOLID	4	
14	93102-38441-00	. OIL SEAL	2	
15	93103-38172-00	. OIL SEAL	2	
16	89A-77512-00-00	. BUMPER, FRONT 2	1	
17	95811-08040-00	. BOLT, FLANGE	4	
18	89A-2198F-00-00	. COVER 1	1	
19	89A-2198J-00-00	. COVER 3	1	
20	89A-77526-00-00	. WASHER 2	1	
21	90267-48051-00	. RIVET, BLIND	10	
22	98903-06014-00	. SCREW, BIND	2	
23	95701-06500-00	. NUT, FLANGE	2	
24	95701-06300-00	. NUT, NYLON	4	
25	90465-08277-00	. CLAMP	2	
26	90201-04325-00	. WASHER, PLATE	2	
27	89A-77525-00-00	. WASHER 1	1	

CONTINUED ON NEXT FRAME ►

FRAME

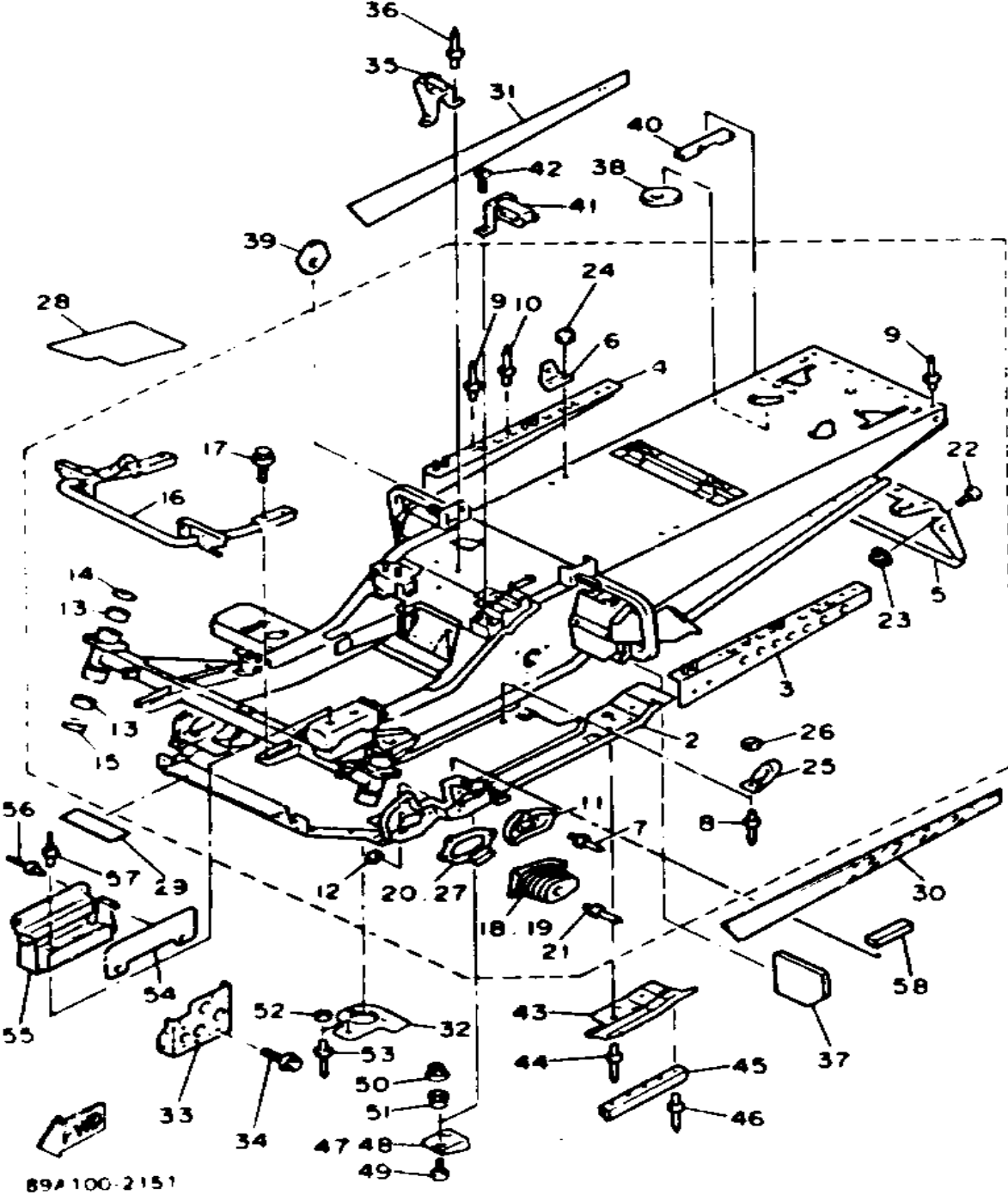


Ref. No.	Part Number	Description	Qty	Remarks
28	89A-2199H-01-00	SHIELD, HEAT	1	
29	82M-7717G-00-00	TAPE 3	1	
30	89A-77351-00-00	EMBLEM 1	1	
31	89A-77352-00-00	EMBLEM 2	1	
32	89A-2199F-00-00	SHIELD, NOISE	1	
33	89A-21955-00-00	BRACKET, TOOL BOX FITTING	1	
34	95811-06012-00	BOLT, FLANGE	2	
35	89A-2196G-00-00	BRACKET 4	1	
36	90267-48053-00	RIVET, BLIND	3	
37	89A-2198G-00-00	COVER 2	1	
38	82M-21965-00-00	PATCH 5	2	
39	88R-21965-00-00	PATCH 5	2	
41	89A-2196F-00-00	BRACKET 3	1	
42	98903-05012-00	SCREW, BIND	2	
43	89A-2196A-00-00	FRAME, UNDER 1	1	
44	90267-48059-00	RIVET, BLIND	5	
45	89A-2196U-00-00	TRIM 2	1	
46	90269-05039-00	RIVET	5	
47	89A-77151-00-00	PAD 1	1	
48	89A-77152-00-00	PAD 2	1	
49	98906-06020-00	SCREW, BIND	4	
50	95701-06500-00	NUT, FLANGE	4	
51	90387-06737-00	COLLAR	4	
52	90201-04325-00	WASHER, PLATE	3	
53	90267-48141-00	RIVET, BLIND	3	
54	89A-77551-00-00	PROTECTOR 1	1	
55	8U9-21945-01-00	BRACKET, TOOL BX FT	1	
56	90267-48059-00	RIVET, BLIND	2	
57	90267-48053-00	RIVET, BLIND	2	

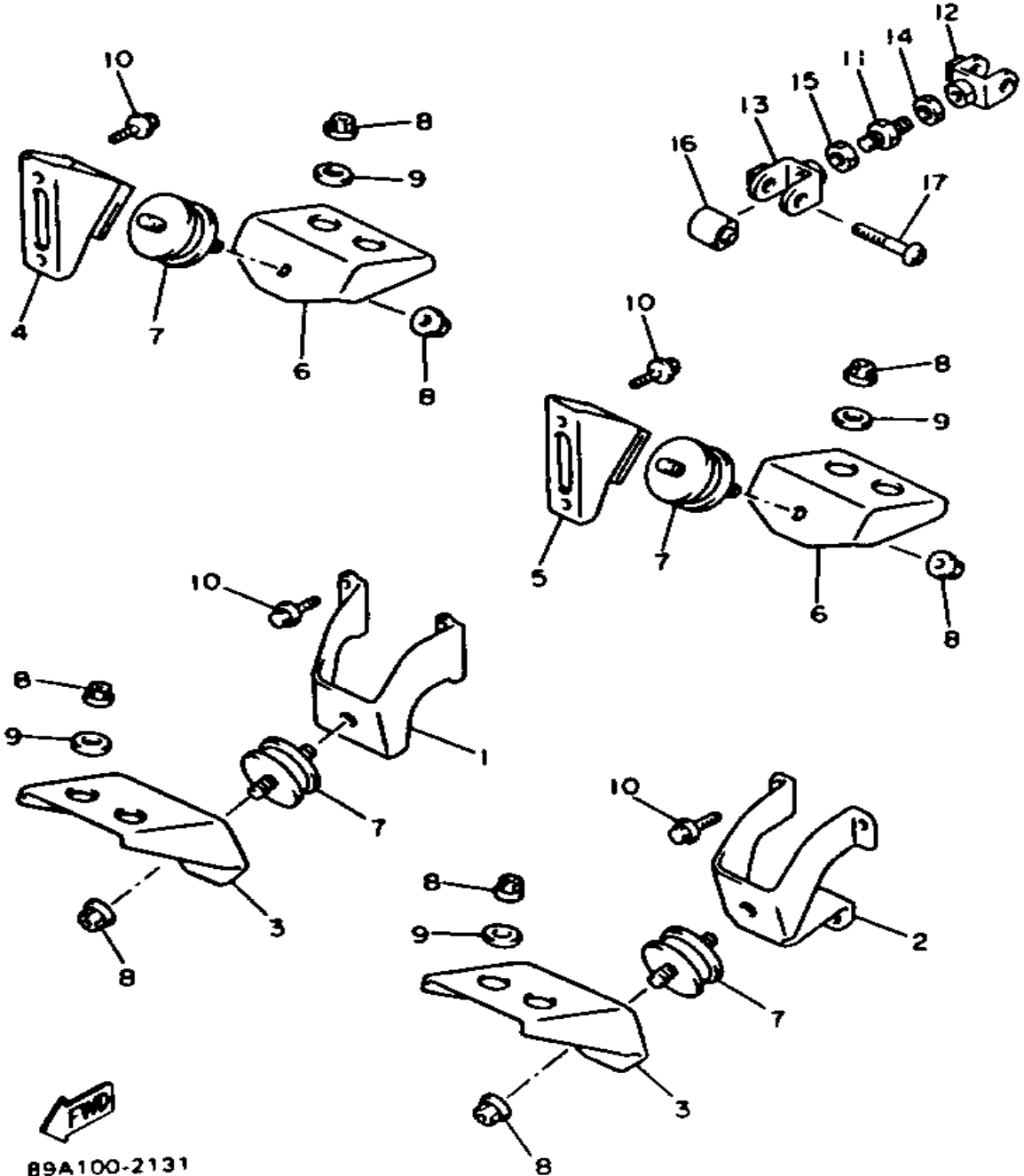
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FRAME

Ref. No.	Part Number	Description	Qty	Remarks
58	89A-77214-00-00	TRIM, LOWER	1	



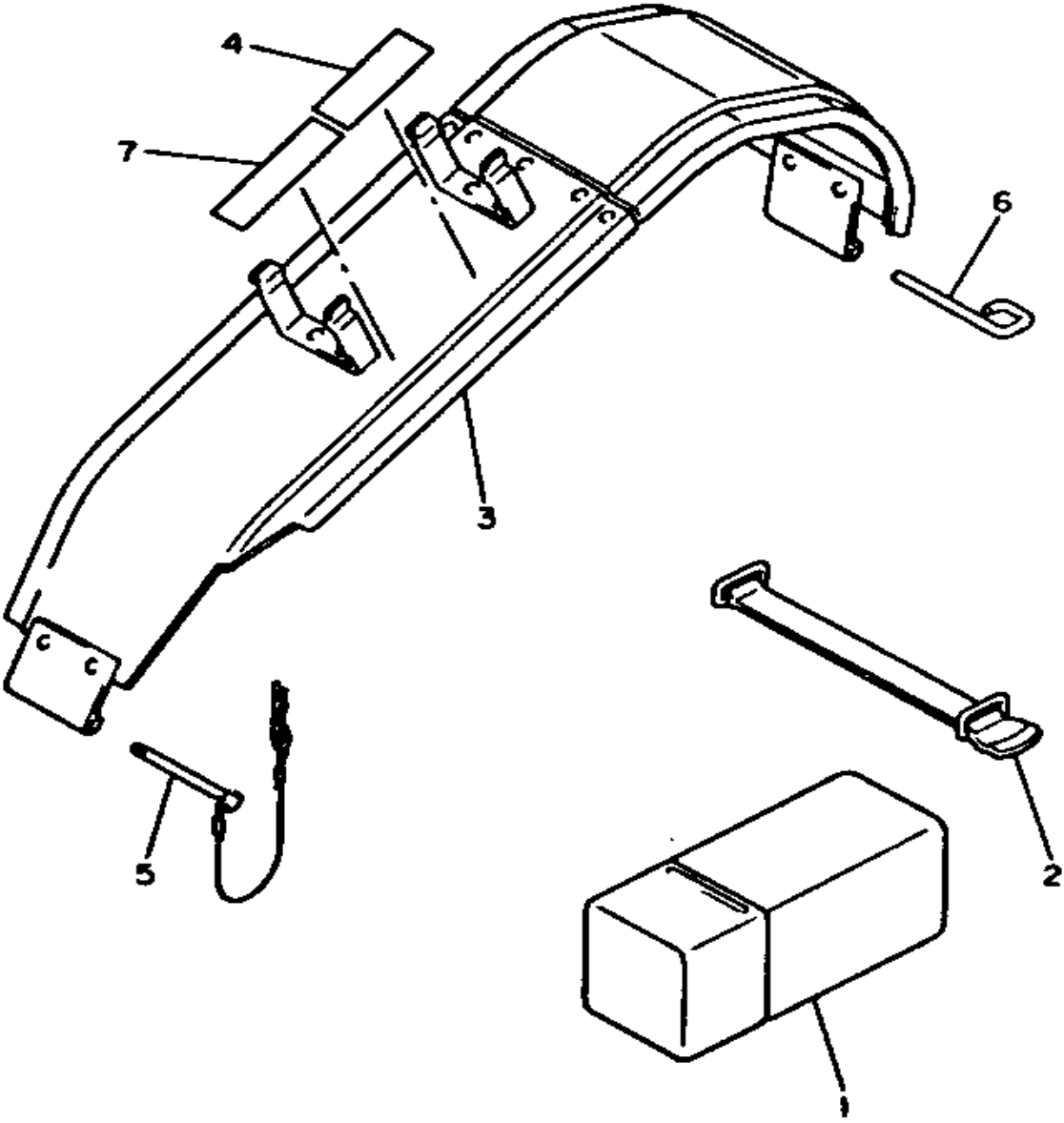
ENGINE BRACKET



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-21415-00-00	BRACKET, FRONT UPPER 1 ..	1	
2	89A-21416-00-00	BRACKET, FRONT UPPER 2 ..	1	
3	89A-21417-00-00	BRACKET, FRONT LOWER 1 ..	2	
4	89A-21425-00-00	BRACKET, REAR UPPER 1 ...	1	
5	89A-21426-00-00	BRACKET, REAR UPPER 2 ...	1	
6	89A-21427-00-00	BRACKET, REAR LOWER 1 ..	2	
7	8M6-21486-01-00	DAMPER 2	4	
8	95701-10500-00	NUT, FLANGE (95702-10500) ..	12	
9	90201-10321-00	WASHER, PLATE	8	
10	95811-08016-00	BOLT, FLANGE	11	
11	89A-21495-00-00	BOLT, ENGINE ADJUSTING ..	1	
12	89A-2148U-00-00	BRACKET 1	1	
13	89A-2148V-00-00	BRACKET 2	1	
14	90170-12407-00	NUT	1	
15	90170-12406-00	NUT	1	
16	89A-21485-00-00	DAMPER, RUBBER 1	2	
17	92011-10040-00	BOLT, BUTTON HEAD	2	

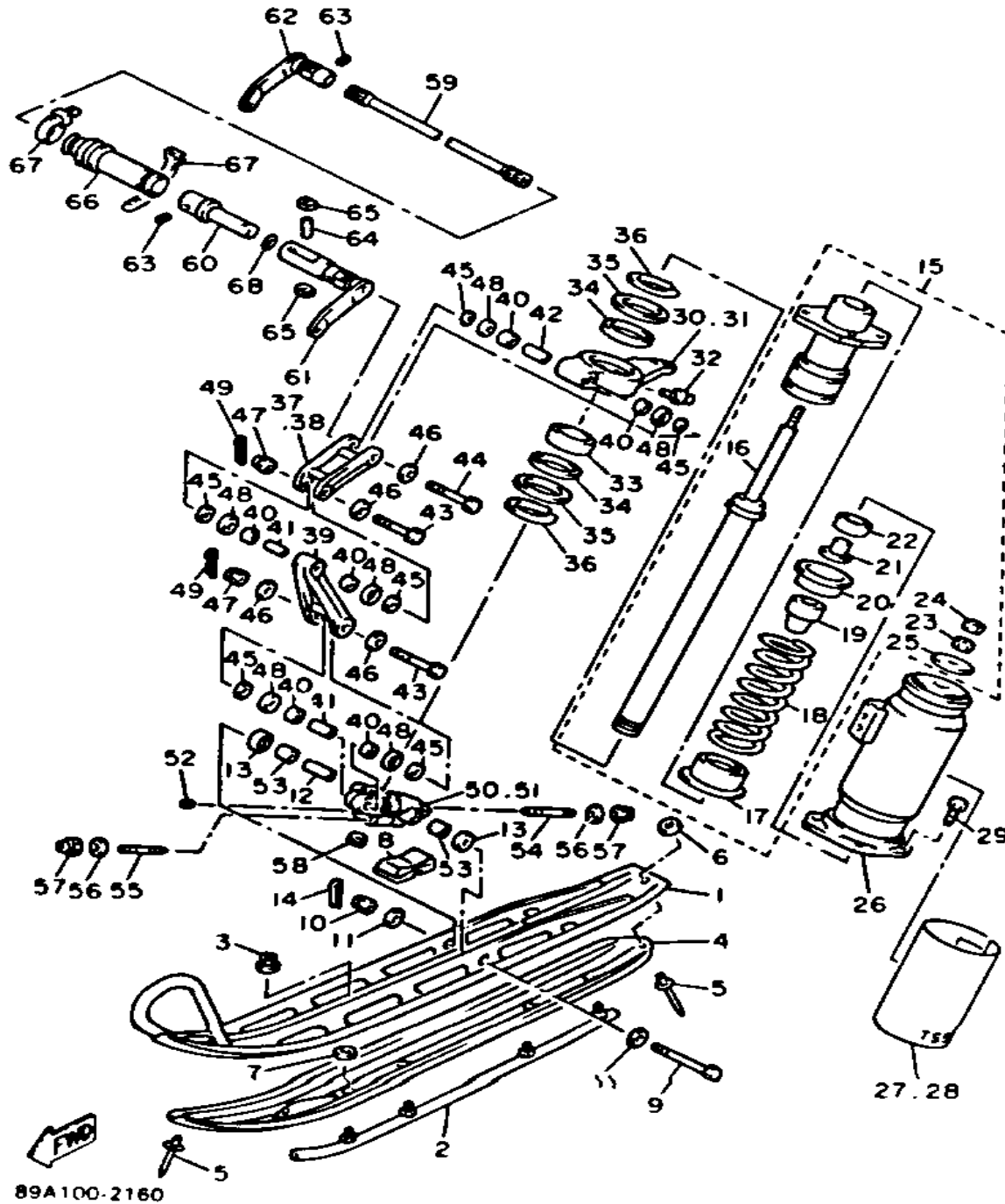
89A100-2131

GUARD-LUGGAGE BOX



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-28100-00-00	TOOL KIT	1	
2	8R4-2811G-00-00	BAND	1	
3	89A-77311-00-00	GUARD, DRIVE	1	
4	898-77762-00-00	LABEL, WARNING 2	1	
5	83R-77327-00-00	SHAFT	1	
6	86V-77384-00-00	PIN	1	
7	88R-77355-00-00	EMBLEM 5	1	

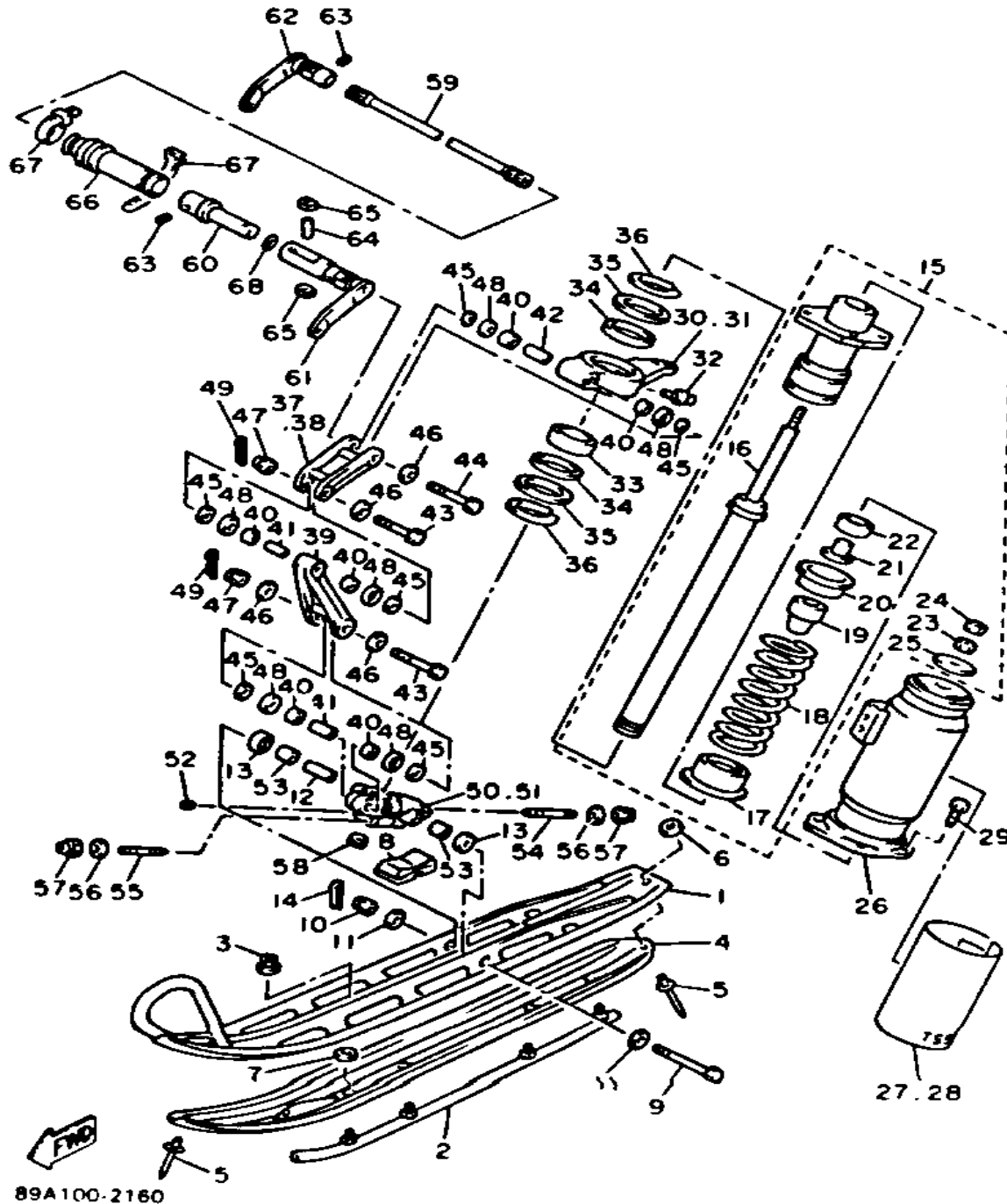
SKI



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-23710-01-00	SKI 1	1	
2	89A-23731-10-XX	RUNNER 1 (89A-23731-11-00)	1	
3	95712-08300-00	NUT, LOCK	4	
4	89A-23732-00-00	RUNNER 2	1	
5	90267-48160-00	RIVET, BLIND	2	
6	90201-04325-00	WASHER, PLATE	1	
7	90201-08326-00	WASHER, PLATE	7	
8	89A-23743-00-00	STOPPER 1	2	
9	90102-10076-00	BOLT, WITH HOLE	2	
10	95706-10300-00	NUT, NYLON	2	
11	92906-10600-00	WASHER	4	
12	90387-102Y0-00	COLLAR	2	
13	89A-23787-00-00	SPACER	4	
14	91490-20020-00	PIN, COTTER	2	
15	89A-2376A-00-00	ABSORBER ASSEMBLY 1	2	
16	89A-22401-00-00	. DAMPER SUB-ASSEMBLY	1	
17	89A-23777-00-00	. SEAT, SPRING 2	1	
18	90501-827H6-00	. SPRING, COMPRESSION	1	
19	89A-22493-00-00	. BUMP, STOP	1	
20	8L0-23788-00-00	. PLATE, BACK UP	1	
21	90387-084R1-00	. COLLAR	1	
22	82M-23779-00-00	. WASHER	1	
23	90170-08220-00	. NUT	1	
24	95333-08600-00	. NUT	1	
25	90201-080L1-00	. WASHER, PLATE	1	
26	89A-2376J-01-00	HOLDER, ABSORBER L	1	UR
	89A-2377J-01-00	HOLDER, ABSORBER R	1	UR
27	89A-77371-00-00	EMBLEM 5	1	
28	89A-77372-00-00	EMBLEM 6	1	

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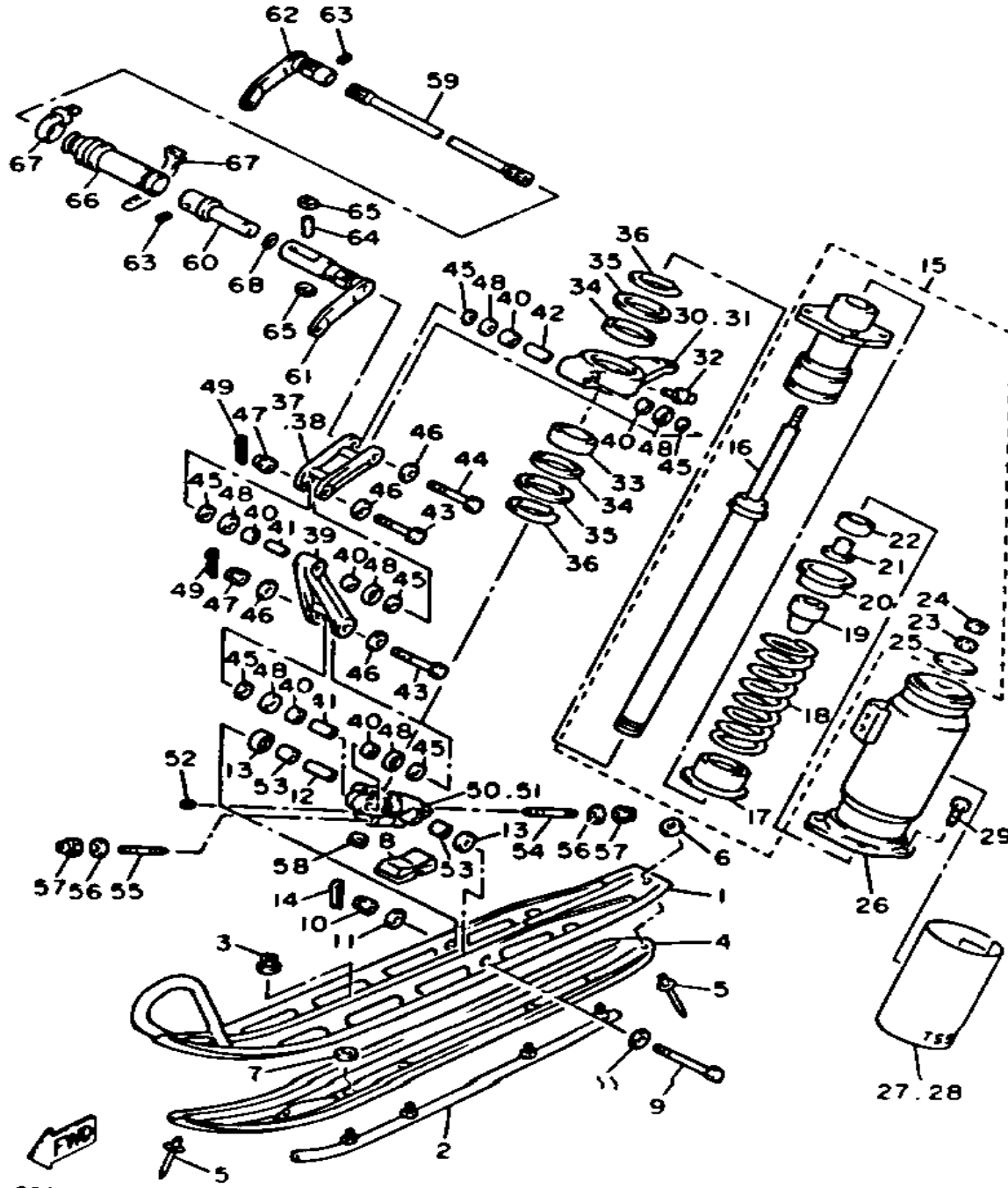
SKI



Ref. No.	Part Number	Description	Qty	Remarks
29	97011-06020-00	BOLT	8	
30	89A-23851-00-00	ARM, OUTSIDE 1	1	
31	89A-23852-00-00	ARM, OUTSIDE 2	1	
32	93700-06M03-00	NIPPLE, GREASE	2	
33	90384-55227-00	BUSH, BIMETAL FORMED	2	
34	93109-55063-00	OIL SEAL	4	
35	90201-555P8-00	WASHER, PLATE	4	UN
	90201-555P9-00	WASHER, PLATE	4	UN
36	93410-55074-00	CIRCLIP	4	
37	89A-2382E-00-00	ARM, FRONT 1	1	
38	89A-2383F-00-00	ARM, FRONT 4	1	
39	89A-2382F-00-00	ARM, FRONT 2	2	
40	89A-23873-00-00	BEARING, STEERING UPPER	12	
41	90387-101Y9-00	COLLAR	4	
42	90387-101Y8-00	COLLAR	2	
43	90102-10077-00	BOLT, WITH HOLE	4	
44	90101-10743-00	BOLT	2	
45	90201-105A8-00	WASHER, PLATE	12	
46	90201-115A7-00	WASHER, PLATE	8	
47	90185-10091-00	NUT, SELF-LOCKING	4	
48	90209-14296-00	WASHER	12	
49	91490-20020-00	PIN, COTTER	4	
50	89A-2376E-00-00	BRACKET 1	1	
51	89A-2377E-00-00	BRACKET 2	1	
52	90113-06039-00	BOLT, SET	2	
53	90384-14091-00	BUSH, BIMETAL FORMED	4	
54	95611-08655-00	BOLT, STUD	2	
55	95611-08640-00	BOLT, STUD	2	
56	92901-08600-00	WASHER	4	

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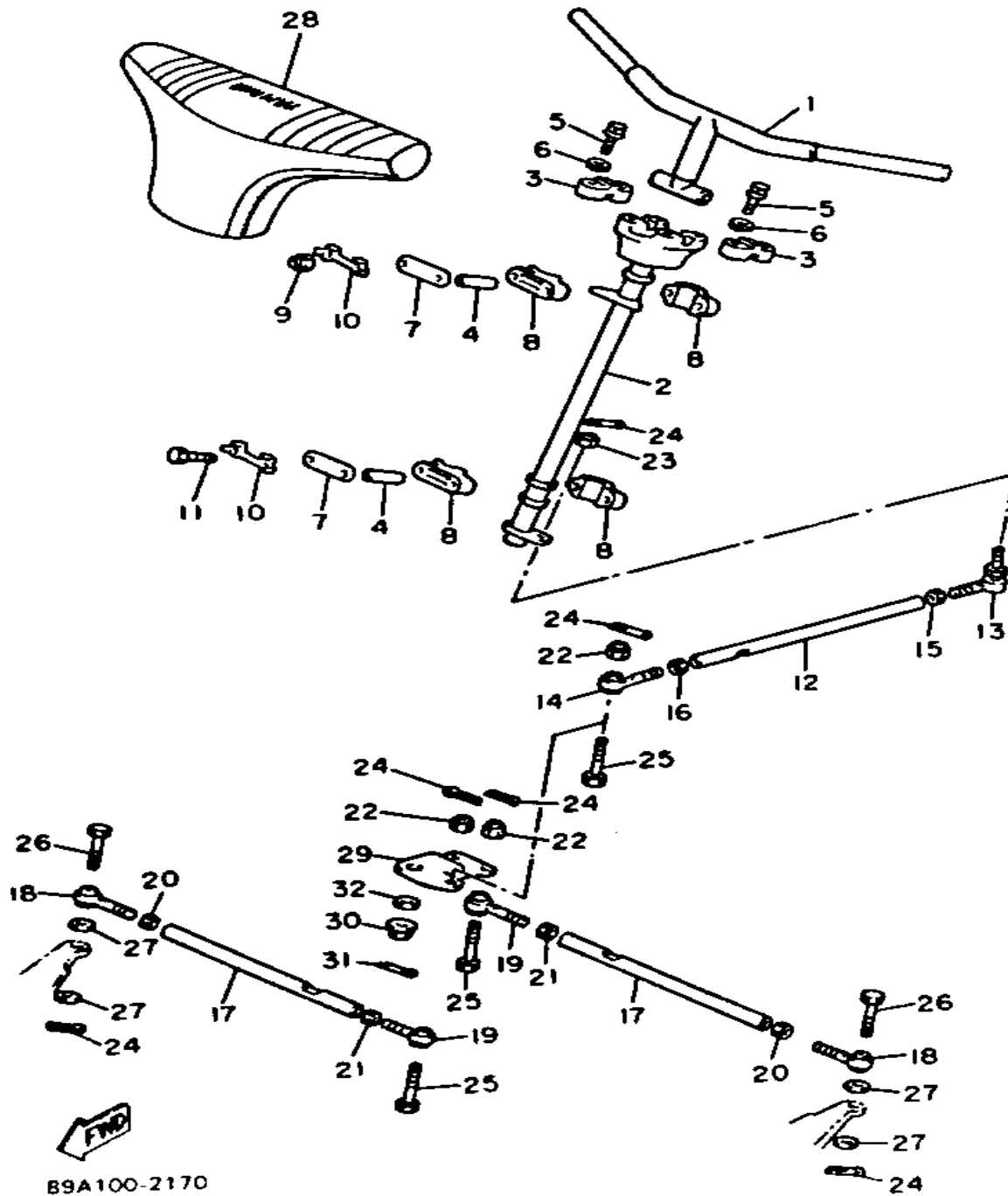
SKI



89A100-2160

Ref. No.	Part Number	Description	Qty	Remarks
57	95712-08300-00	NUT, LOCK	4	
58	89A-23741-00-00	CAP 1	2	
59	89A-2386E-00-00	BAR, STABILIZER FRONT	1	
60	89A-2386F-00-00	LINK, STABILIZER FRONT	1	
61	89A-2385L-00-00	JOINT, STABILIZER 1	1	
62	89A-2385M-00-00	JOINT, STABILIZER 2	1	
63	90113-06055-00	BOLT, SET (90113-06039-00)	2	
64	93605-25223-00	PIN, DOWEL	1	
65	82M-2386R-00-00	SLIDER	2	
66	89A-2386H-00-00	COVER, STABILIZER FRONT	1	
67	12R-82591-00-00	BAND	2	
68	93210-15751-00	O-RING	1	

STEERING

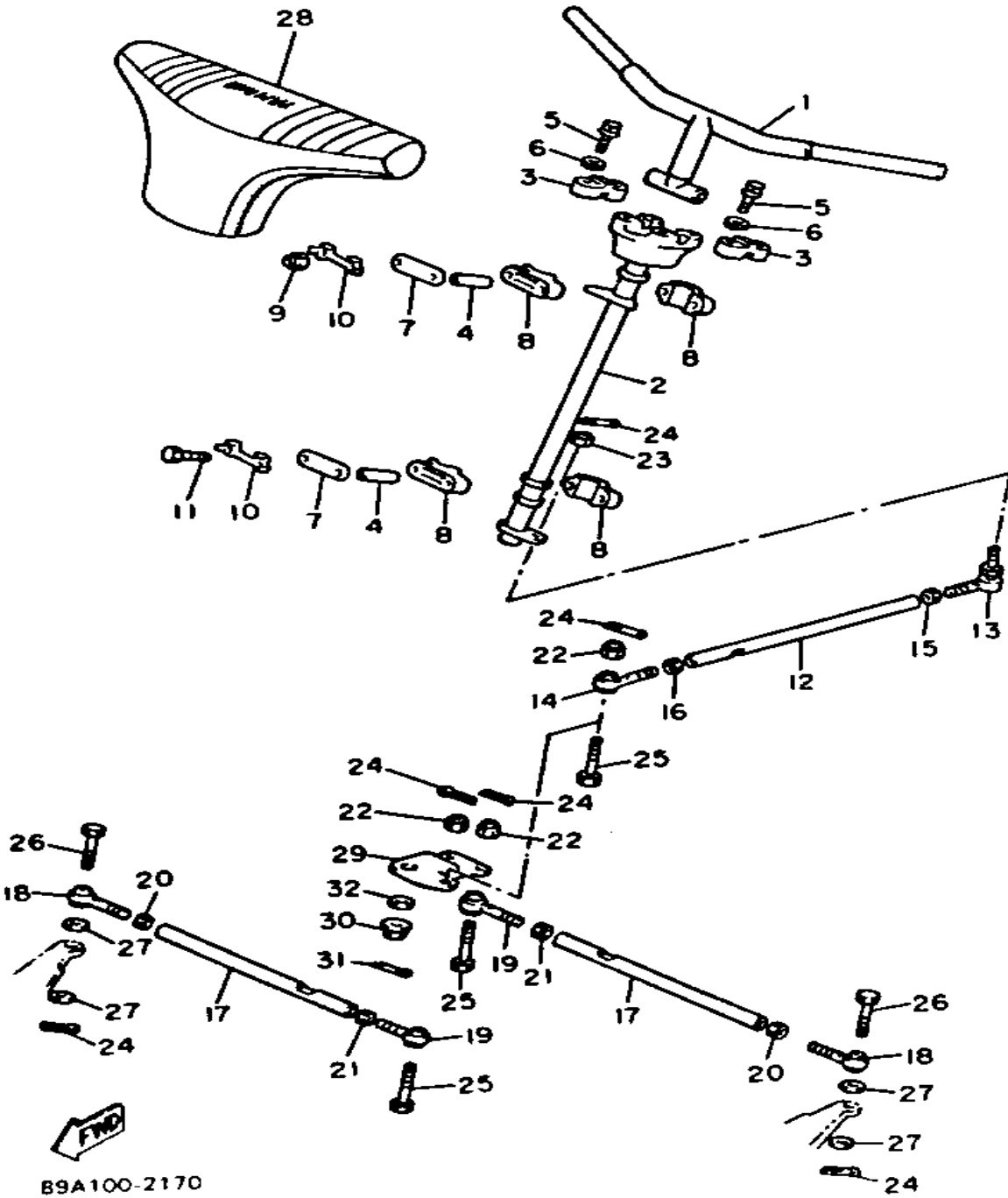


B9A100-2170

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-23811-00-00	COLUMN, STEERING	1	
2	89A-23813-00-00	COLUMN, STEERING 2	1	
3	1E6-23441-00-00	HOLDER, HANDLE UPR	2	
4	90387-106T4-00	COLLAR (903-87090-R0-00)	4	
5	97022-08035-00	BOLT	4	
6	92990-08100-00	WASHER	4	
7	3GD-23868-01-00	BRACKET, STEERING LOWER	2	
8	89A-23812-00-00	PLANE BEARING, STEERING	4	
9	95712-08300-00	NUT, LOCK	2	
10	1UY-23894-01-00	WASHER, LOCK 1	2	
11	97012-08060-00	BOLT	2	
12	89A-23821-00-00	ROD, STEERING RELAY	1	
13	86X-23841-00-00	JOINT, UNIVERSAL 1	1	
14	87S-23847-00-00	JOINT, UNIVERSAL 3	1	
15	95303-10700-00	NUT	1	
16	90170-10186-00	NUT	1	
17	89A-23831-00-00	ROD, TIE	1	
18	87S-23845-00-00	JOINT, UNIVERSAL 2	1	
19	87S-23847-00-00	JOINT, UNIVERSAL 3	2	
20	95303-10700-00	NUT	2	
21	90170-10186-00	NUT	2	
22	95706-10300-00	NUT, NYLON	3	
23	90185-10085-00	NUT, SELF-LOCKING	1	
24	91402-25018-00	PIN, COTTER	6	
25	90102-10031-00	BOLT, WITH HOLE	3	
26	90102-10055-00	BOLT, WITH HOLE	2	
27	92906-10600-00	WASHER	4	
28	89A-23815-00-00	PAD, STEERING	1	
29	89A-23826-00-00	ARM, IDLER	1	

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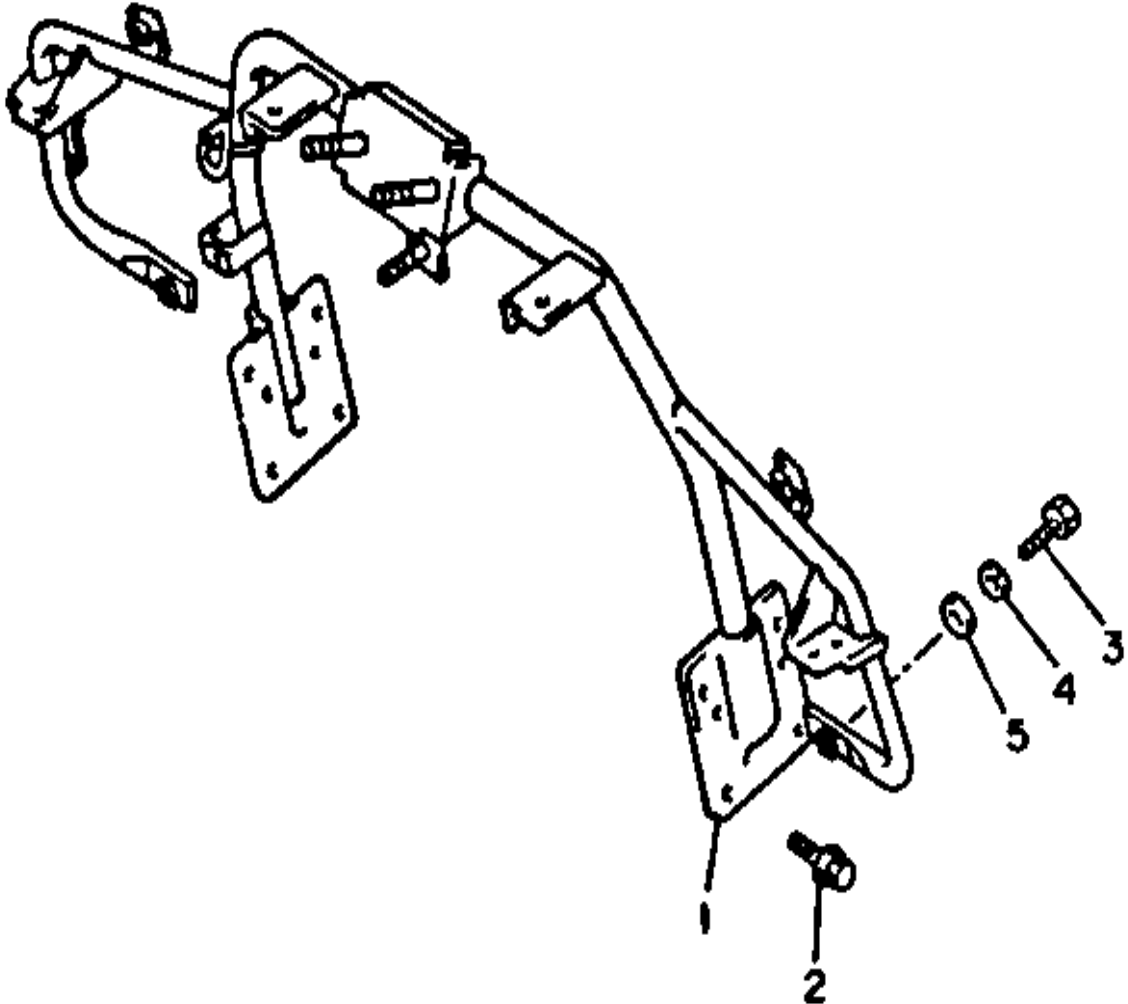
STEERING



B9A100-2170

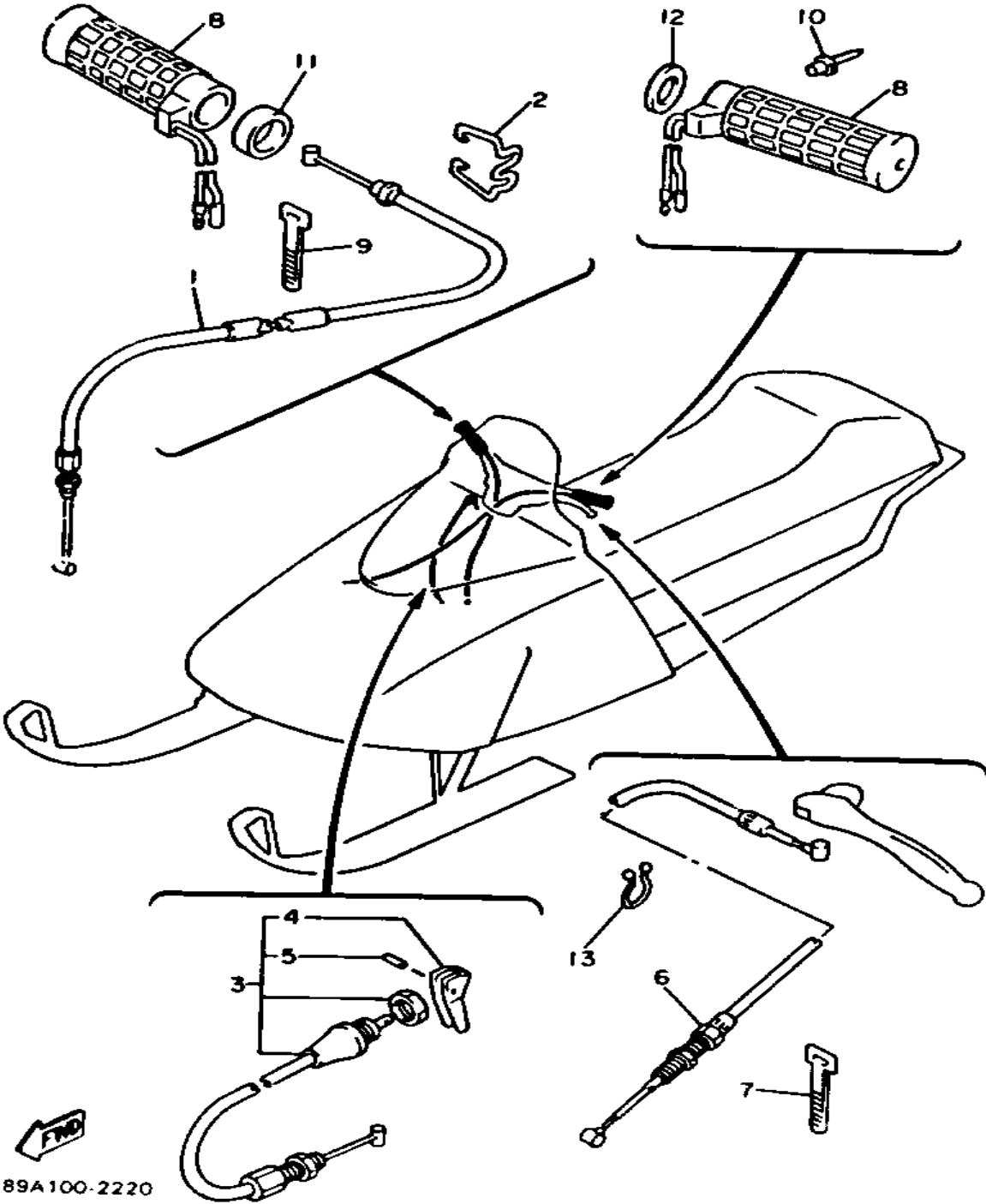
Ref. No.	Part Number	Description	Qty	Remarks
30	95712-12300-00	2	1	
31	91401-30030-00	PIN, COTTER	1	
32	90201-126A7-00	WASHER, PLATE	1	

STEERING GATE



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-23870-00-00	STEERING GATE COMP.	1	
2	90105-08563-00	BOLT, WASHER BASED	8	
3	97011-08030-00	BOLT (97001-08030-00)	2	
4	92990-08100-00	WASHER	2	
5	92990-08600-00	WASHER, PLATE	2	

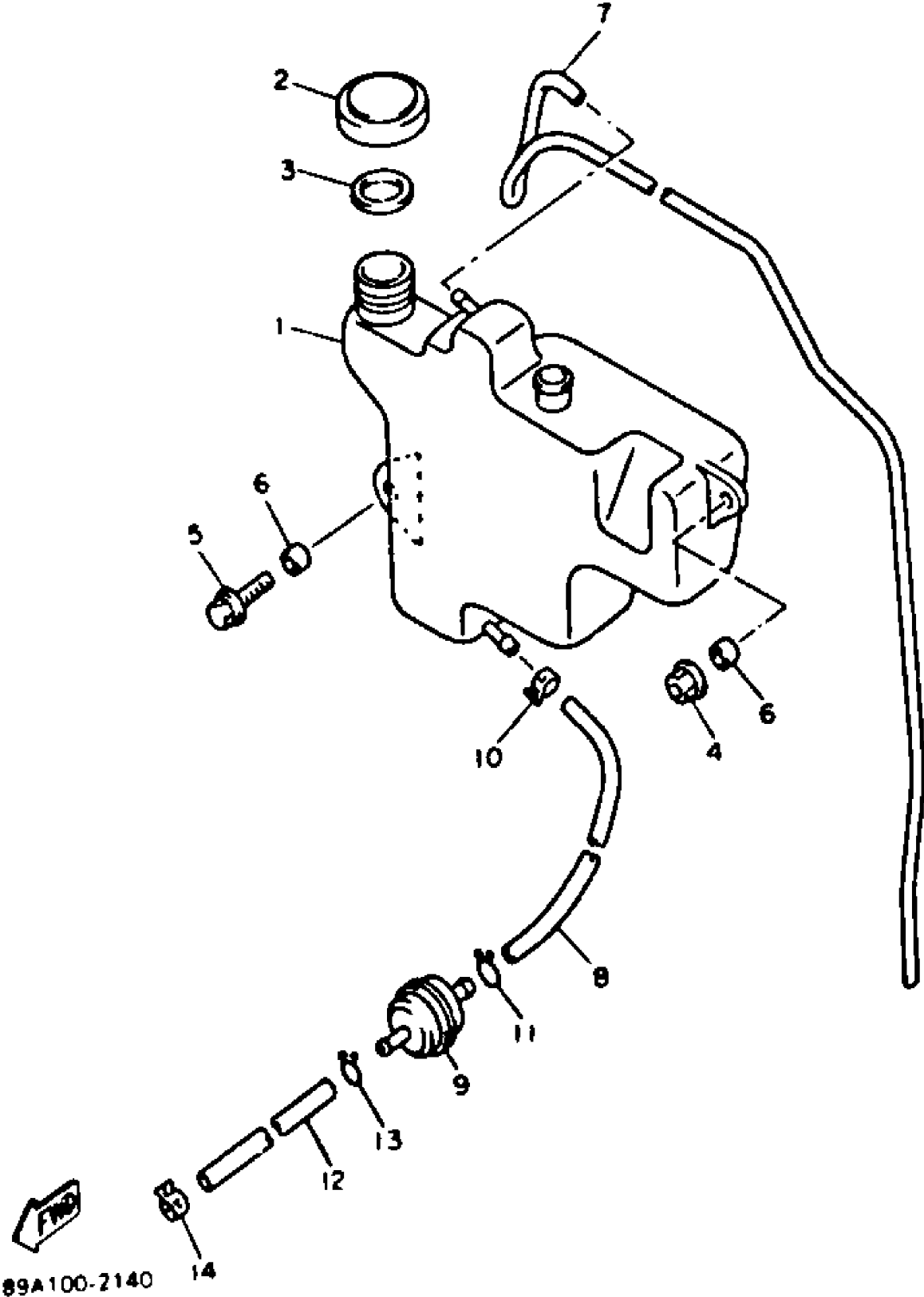
CONTROL CABLE



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-26311-00-00	CABLE, THROTTLE 1	1	
2	8M6-26391-01-00	CLIP, CABLE	1	
3	89A-26330-00-00	STARTER CABLE ASSEMBLY	1	
4	8U9-26325-00-00	. KNOB, STARTER	1	
5	91609-30010-00	. PIN, SPRING	1	
6	89A-26340-00-00	CABLE, BRAKE	1	
7	25G-83936-01-00	BAND, SWITCH CORD	1	
8	88T-26240-00-00	GRIP ASSEMBLY	2	
9	437-83936-01-00	BAND, SWITCH CORD	2	
10	90267-40076-00	RIVET, BLIND	2	
11	90387-224F9-00	COLLAR	1	
12	80Y-23843-00-00	WASHER, PLAIN	1	
13	90464-23041-00	CLAMP	1	

89A100-2220

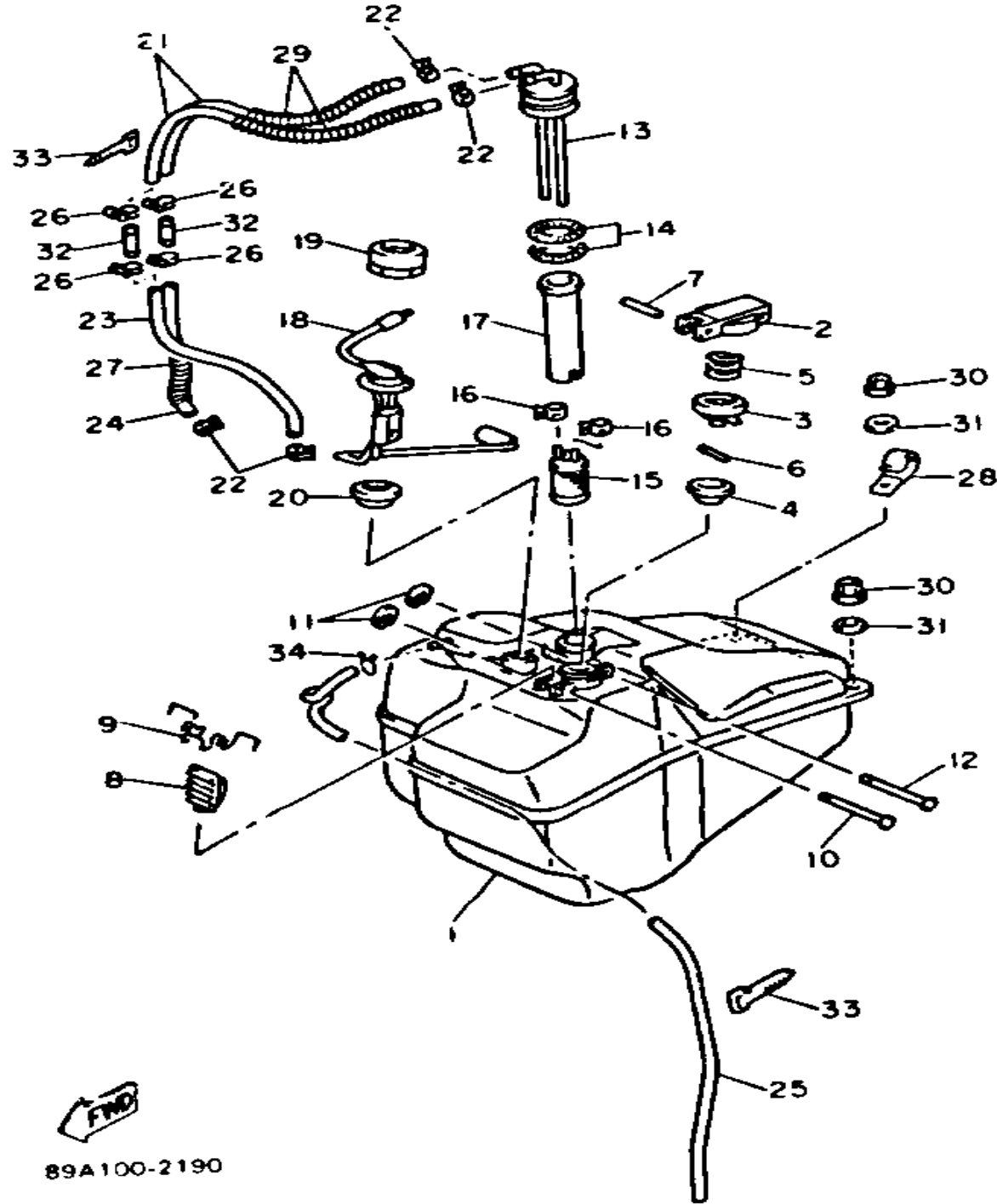
OIL TANK



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-21751-01-00	TANK, OIL	1	
2	863-21771-00-00	BODY, CAP	1	
3	90430-31003-00	GASKET	1	
4	95706-06500-00	NUT, FLANGE	1	
5	90105-06500-00	BOLT, WASHER BASED	1	
6	90387-06681-00	COLLAR	2	
7	89A-21745-01-00	PIPE, OIL TANK BREATHER ..	1	
8	90446-11358-00	HOSE	1	
9	8G8-13410-00-00	STRAINER HOUSING ASSEMBLY	1	
10	90467-11044-00	CLIP	1	
11	90467-11009-00	CLIP	1	
12	90446-09356-00	HOSE	1	
13	90467-09005-00	CLIP, SCISSOR	1	
14	90467-09026-00	CLIP	1	

89A100-2140

FUEL TANK

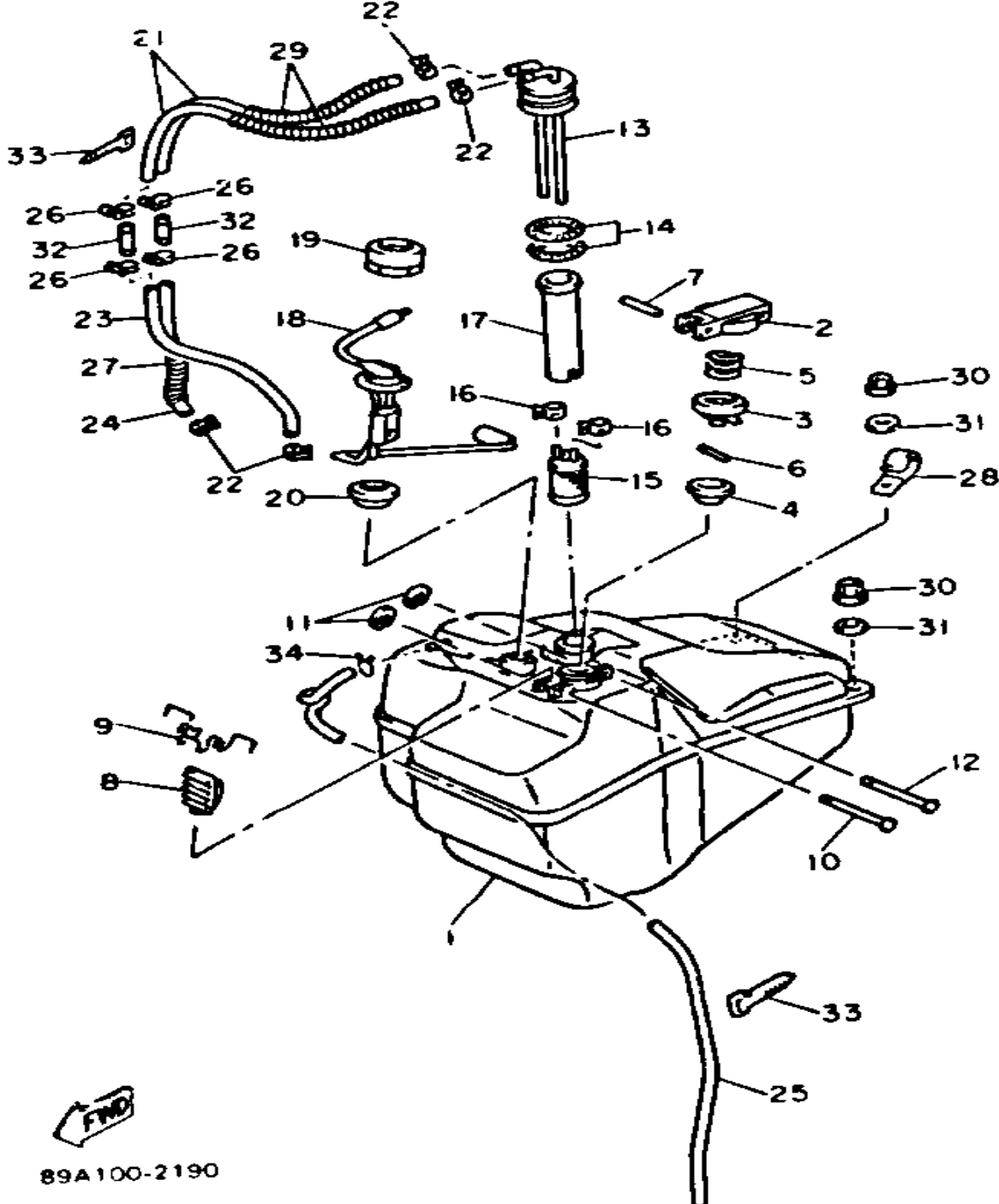


89A100-2190

Ref. No.	Part Number	Description	Qty	Remarks
1	89A-24111-00-00	TANK, FUEL	1	
2	8W6-24611-00-00	BODY, CAP	1	
3	813-24613-01-00	DISC, CAP	1	
4	89A-24641-00-00	GASKET, CAP 1	1	
5	90501-20130-00	SPRING, COMPRESSION	1	
6	91609-30016-00	PIN, SPRING	1	
7	91609-25050-00	PIN, SPRING	1	
8	83M-24628-00-00	HOOK	1	
9	90508-10715-00	SPRING, TORSION	1	
10	90249-03017-00	PIN	1	
11	93430-02001-00	CIRCLIP	2	
12	90249-03175-00	PIN	1	
13	89A-24335-00-00	PIPE, SUCTION 1	1	
14	90506-06065-00	SPRING, TENSION	2	
15	8U9-24560-00-00	FILTER ASSEMBLY	1	
16	90467-11044-00	CLIP	2	
17	89A-24336-00-00	PIPE, SUCTION 2	1	
18	89A-85752-00-00	SENDER UNIT ASSEMBLY, FUEL METER	1	
19	53L-24261-00-00	HOUSING, FUEL METER	1	
20	53L-85753-00-00	GASKET, SENDER UNIT	1	
21	90446-11357-00	HOSE	2	
22	90467-11044-00	CLIP	4	
23	90446-11265-00	HOSE (8V0)	1	
24	90446-11285-00	HOSE	1	
25	89A-21744-00-00	BREATHER	1	
26	90467-11009-00	CLIP	4	
27	85L-24327-00-00	PROTECTOR, PIPE	1	
28	90465-06100-00	CLAMP	1	

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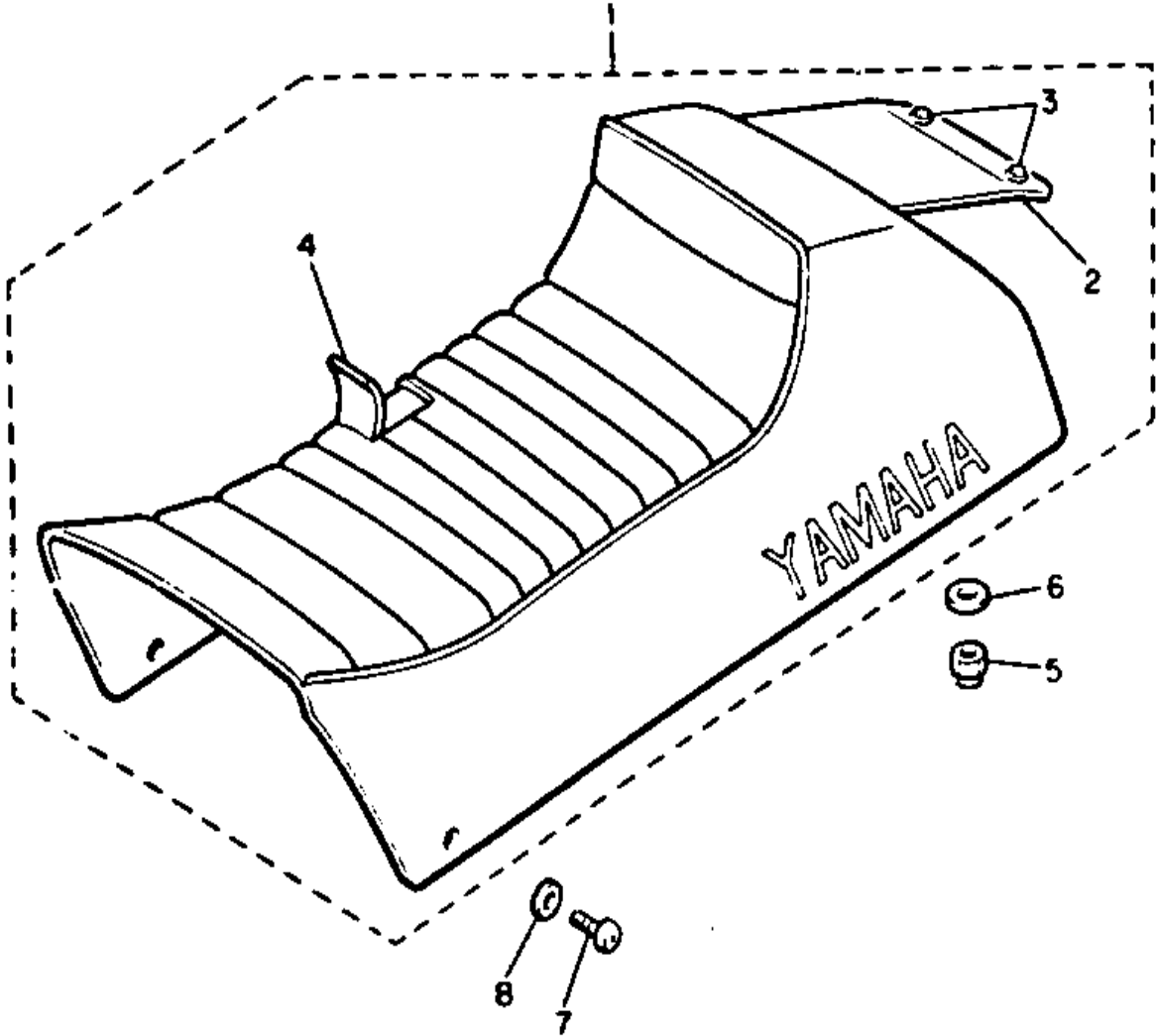
FUEL TANK



Ref. No.	Part Number	Description	Qty	Remarks
29	8F3-24327-00-00	PROTECTOR, PIPE	2	
30	95712-08300-00	NUT, LOCK	2	
31	90201-08784-00	WASHER, PLATE	2	
32	878-24379-00-00	PIPE, JOINT 4	2	
33	341-26397-01-00	BAND	8	
34	90467-09005-00	CLIP, SCISSOR	1	

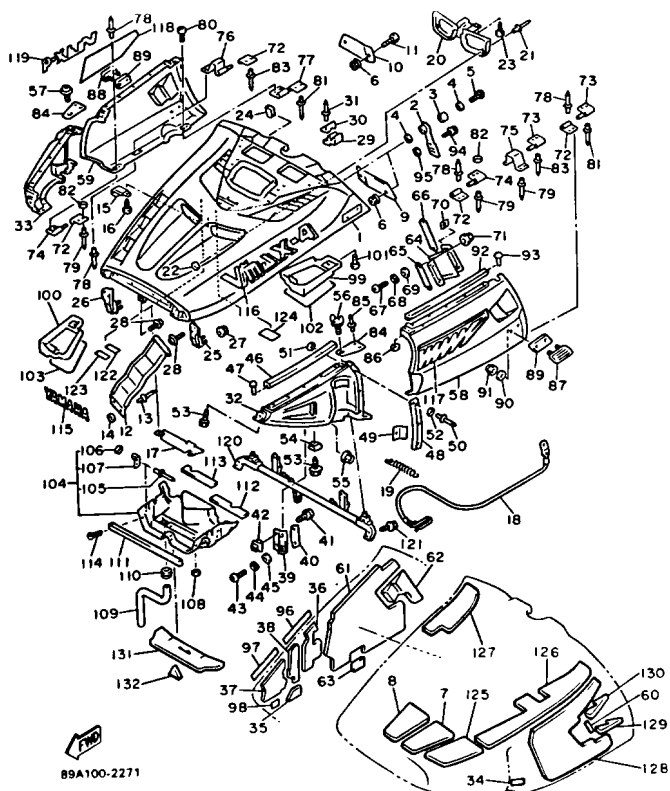
FWD
89A100-2190

SEAT



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-24710-01-00	SINGLE SEAT ASSEMBLY	1	
2	8U9-77377-01-00	. COVER, LUGGAGE BOX 2	1	
3	87E-24754-00-00	. HOOK, SEAT	2	
4	89A-24711-00-00	. COVER, SINGLE SEAT	1	
5	95712-08300-00	NUT, LOCK	2	
6	90201-08748-00	WASHER, PLATE	2	
7	98906-06016-00	SCREW, BIND	2	
8	90201-063J2-00	WASHER, PLATE	2	

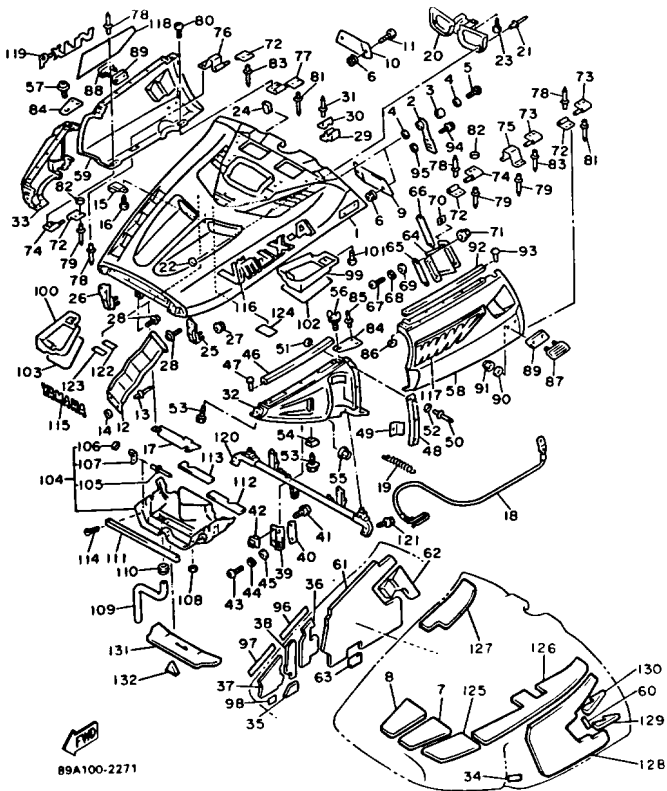
SHROUD



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-W7711-00-KT	SHROUD ASSEMBLY KIT	1	YAM. BLK.
2	8V0-77171-00-00	BODY, LATCH 1	2	
3	90387-06241-00	COLLAR	2	
4	90201-06059-00	WASHER, PLATE	4	
5	98906-06030-00	SCREW, BIND	2	
6	95701-06500-00	NUT, FLANGE	4	
7	89A-77276-00-00	DAMPER, NOISE 6	1	
8	89A-77277-00-00	DAMPER, NOISE 7	1	
9	89A-77555-00-00	PROTECTOR 5	1	
10	89A-77556-00-00	PROTECTOR 6	1	
11	98906-06014-00	SCREW, BIND	2	
12	89A-77557-00-00	PROTECTOR 7	1	
13	90267-48051-00	RIVET, BLIND	4	
14	90201-043H7-00	WASHER, PLATE	4	
15	90465-08277-00	CLAMP	2	
16	97701-50014-00	SCREW, TAPPING	3	
17	89A-77577-00-00	PLATE, 1	1	
18	89A-77118-00-00	STOPPER, SHROUD	2	
19	89A-77159-00-00	CLAMP, ROD	2	
20	89A-77563-00-00	COVER, 3	1	
21	90267-48051-00	RIVET, BLIND	2	
22	90201-043H7-00	WASHER, PLATE	2	
23	97701-50014-00	SCREW, TAPPING	1	
24	89A-77226-00-00	TRIM 6	4	
25	89A-77140-00-00	HINGE ASSEMBLY	1	
26	89A-7714A-00-00	HINGE ASSEMBLY 2	1	
27	95701-06500-00	NUT, FLANGE	4	
28	90159-06108-00	SCREW, WITH WASHER	5	
29	8V0-77188-00-00	STOPPER	2	

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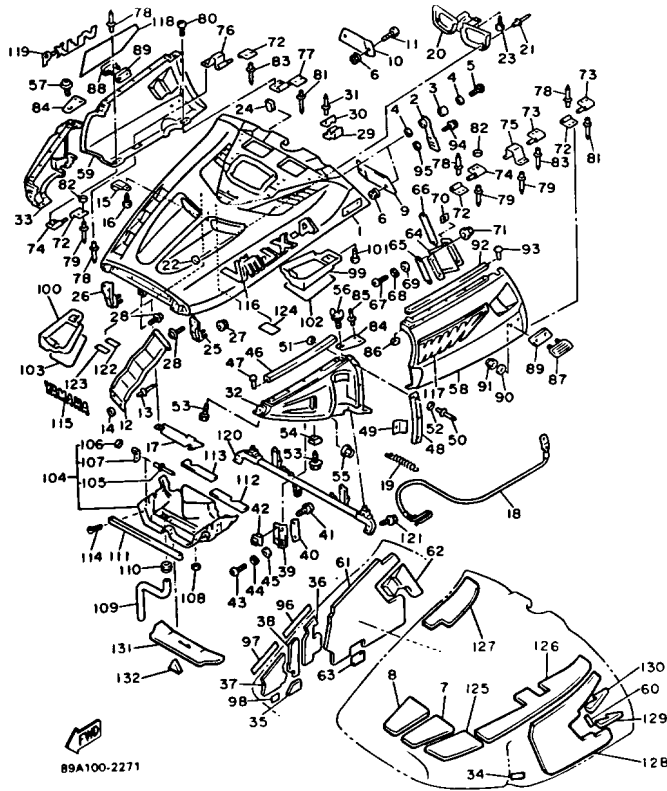
SHROUD



Ref. No.	Part Number	Description	Qty	Remarks
30	8V0-77116-00-00	WASHER, SPECIAL	2	
31	90267-40029-00	RIVET, BLIND	4	
32	89A-21982-00-00	HOOD 1	1	
33	89A-21983-00-00	HOOD 2	1	
34	89A-7717F-00-00	TAPE 2	2	
35	89A-77272-00-00	DAMPER, NOISE 2	1	
36	89A-77273-00-00	DAMPER, NOISE 3	1	
37	89A-77271-00-00	DAMPER, NOISE 1	1	
38	89A-77274-00-00	DAMPER, NOISE 4	1	
39	89A-77552-00-00	PROTECTOR 2	1	
40	89A-77527-00-00	PLATE, BACK UP	1	
41	98506-05014-00	SCREW, PAN HEAD	2	
42	89A-77144-00-00	NUT	2	
43	98506-06014-00	SCREW, PAN HEAD (92506-06014)	2	
44	92906-06100-00	WASHER, SPRING	2	
45	92906-06600-00	WASHER	2	
46	89A-77515-00-00	BUSH, RUBBER 1	2	
47	90269-05039-00	RIVET	10	
48	89A-2196T-00-00	TRIM 1	2	
49	89A-77168-01-00	TRIM 4	2	
50	90267-40076-00	RIVET, BLIND	8	
51	90201-044A2-00	WASHER, PLATE	8	
52	90201-047A2-00	WASHER, PLATE	8	
53	90119-06088-00	BOLT, WITH WASHER	8	
54	90183-06023-00	NUT, SPRING	4	
55	95706-06600-00	NUT, WITH WASHER	2	
56	89A-77212-00-00	BOLT, WIND SHIELD	1	
57	90159-06078-00	SCREW, WITH WASHER	1	

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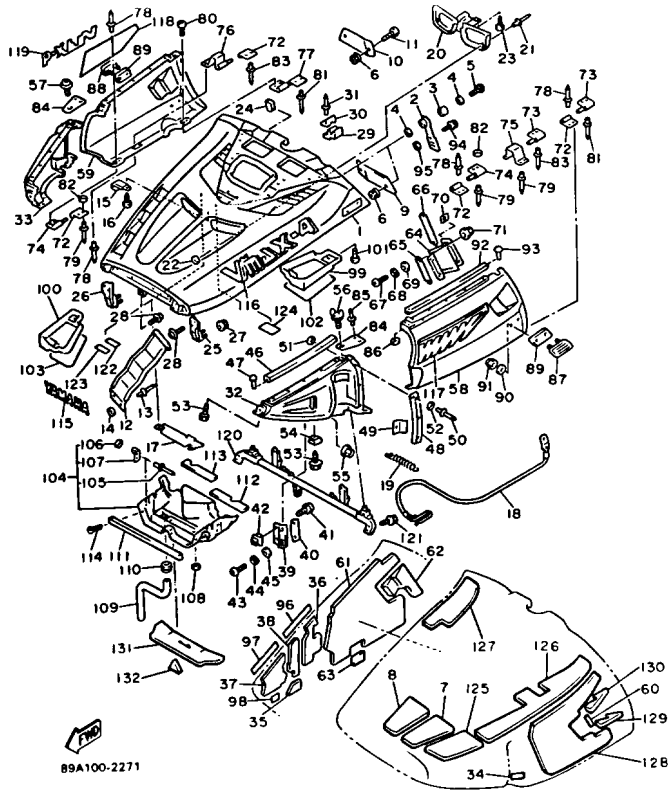
SHROUD



Ref. No.	Part Number	Description	Qty	Remarks
58	89A-2197H-00-00	HOOD 3	1	
59	89A-2198H-00-00	HOOD 4	1	
60	89A-77215-00-00	TRIM 3	1	
61	89A-77275-00-00	DAMPER, NOISE 5	1	
62	89A-77279-00-00	DAMPER, NOISE 9	1	
63	89A-7717E-00-00	TAPE 1	1	
64	89A-77553-00-00	PROTECTOR 3	1	
65	89A-77521-00-00	STOPPER, 1	1	
66	89A-77522-00-00	STOPPER 2	1	
67	98506-06014-00	SCREW, PAN HEAD (92506-06014)	4	
68	92906-06100-00	WASHER, SPRING	4	
69	92906-06600-00	WASHER	4	
70	90183-04005-00	NUT, SPRING	4	
71	95706-06500-00	NUT, FLANGE	4	
72	88F-2194X-00-00	BRACKET 1	4	
73	88R-2195X-00-00	BRACKET 2	2	
74	88F-2195X-00-00	BRACKET 2	2	
75	89A-2197J-00-00	HINGE 1	1	
76	89A-2197K-00-00	HINGE 2	1	
77	89A-2197L-00-00	HINGE 3	1	
78	90267-48059-00	RIVET, BLIND	6	
79	90267-48141-00	RIVET, BLIND	4	
80	90154-05064-00	SCREW, BINDING	2	
81	90267-48057-00	RIVET, BLIND	8	
82	90201-04325-00	WASHER, PLATE	4	
83	90267-48059-00	RIVET, BLIND	4	
84	89A-77385-00-00	STOPPER	2	
85	90267-48053-00	RIVET, BLIND	4	

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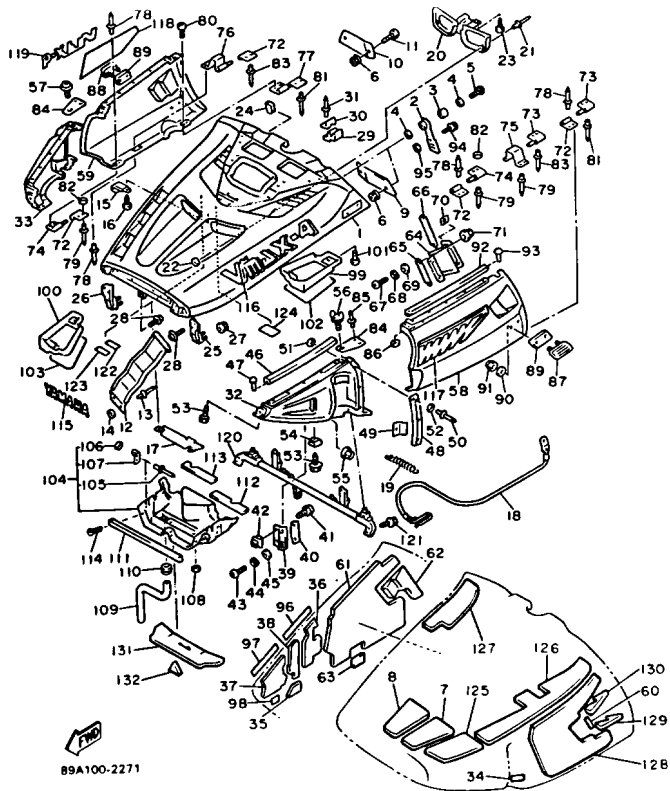
SHROUD



Ref. No.	Part Number	Description	Qty	Remarks
86	90201-04325-00	WASHER, PLATE	4	
87	89A-77561-00-00	PROTECTOR, SIDE	1	
88	89A-77562-00-00	PROTECTOR, SIDE	1	
89	89A-77529-00-00	SPACER, BUMPER	2	
90	90201-05029-00	WASHER, PLATE	4	
91	95701-05300-00	NUT, NYLON	4	
92	89A-77516-00-00	BUSH, RUBBER 2	2	
93	90269-05039-00	RIVET	10	
94	8V0-77175-00-00	HOLDER, LATCH	2	
95	4U5-2176E-00-00	PLATE	2	
96	8V0-7717E-00-00	TAPE 1	3	
97	8V0-7717F-00-00	TAPE 2	1	
98	8V0-7717G-00-00	TAPE 3	3	
99	89A-77185-00-00	PLATE 1	1	
100	89A-77186-00-00	PLATE 2	1	
101	97701-50014-00	SCREW, TAPPING	4	
102	89A-7717G-00-00	TAPE 3	1	
103	89A-7717H-00-00	TAPE 4	1	
104	89A-77123-00-00	GUIDE 1	1	
105	90267-40076-00	. RIVET, BLIND	4	
106	90201-04015-00	. WASHER, PLATE	4	
107	89A-77127-00-00	. STAY 3	2	
108	89A-77116-00-00	WASHER, SPECIAL	2	
109	89A-1243E-00-00	HOSE 2	1	
110	90480-23345-00	GROMMET	1	
111	89A-77165-00-00	TRIM 1	1	
112	89A-77166-00-00	TRIM 2	1	
113	89A-77167-01-00	TRIM 3	1	
114	90269-05055-00	RIVET	14	

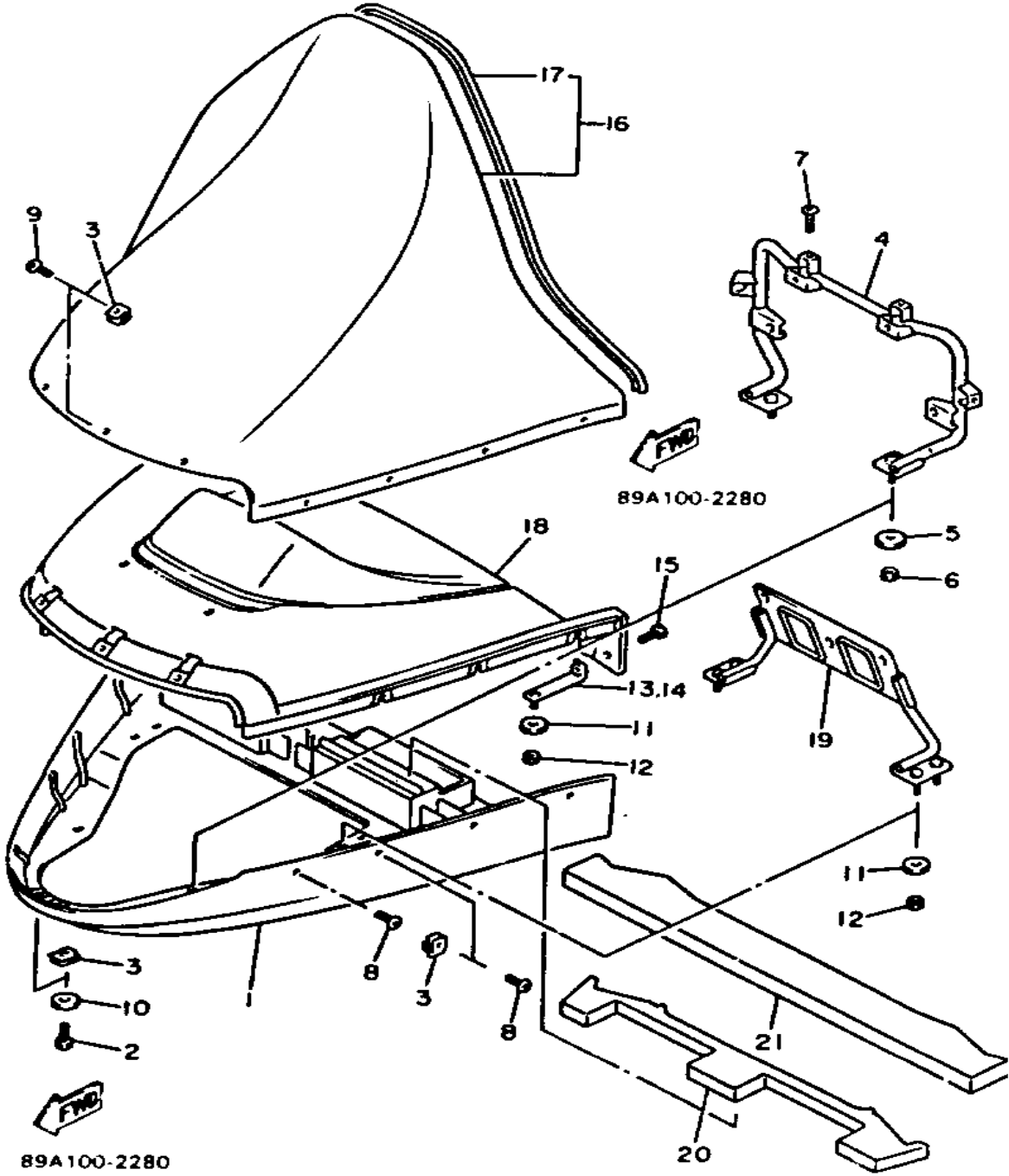
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SHROUD



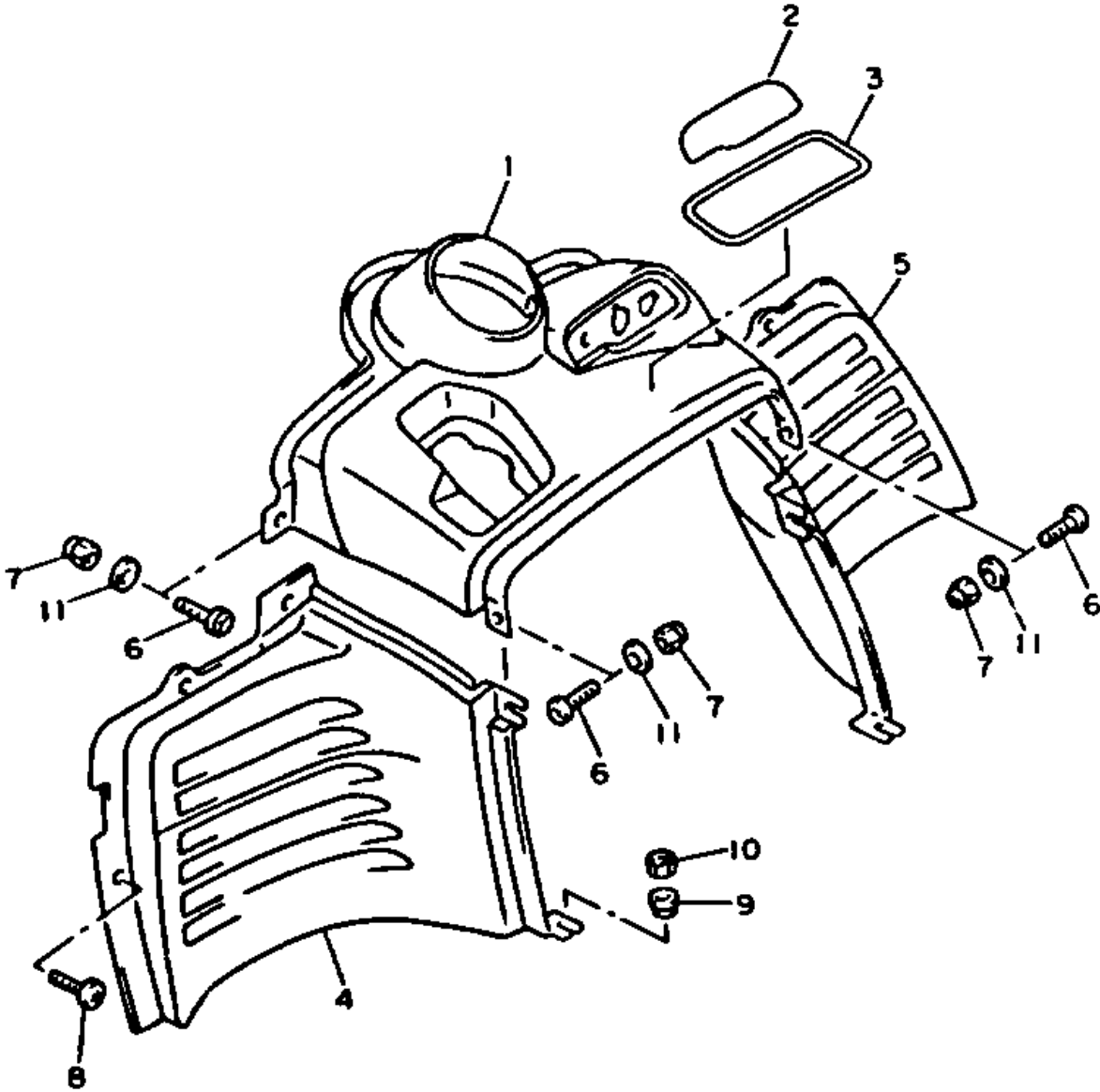
Ref. No.	Part Number	Description	Qty	Remarks
115	99236-00035-00	EMBLEM, YAMAHA	1	
116	89A-77141-00-00	EMBLEM 1	1	
117	89A-77353-00-00	EMBLEM 3	1	
118	89A-77354-00-00	EMBLEM 4	1	
119	89A-77142-00-00	EMBLEM 2	1	
120	89A-12464-00-00	STAY, RADIATOR	1	
121	95811-08012-00	BOLT, FLANGE	4	
122	89A-1417E-00-00	LABEL, CAUTION	1	
123	89A-1417F-00-00	LABEL, CAUTION	1	
124	89A-47578-00-00	LABEL, 1	1	
125	89A-77261-00-00	LINING, SHROUD 1	1	
126	89A-77265-00-00	LINING, SHROUD 5	1	
127	89A-77267-00-00	LINING, SHROUD 7	1	
128	89A-77262-00-00	LINING, SHROUD 2	1	
129	89A-77269-00-00	LINING, SHROUD 9	1	
130	89A-77268-00-00	LINING, SHROUD 8	1	
131	89A-77264-00-00	LINING, SHROUD 4	1	
132	89A-77266-00-00	LINING, SHROUD 6	1	

WINDSHIELD



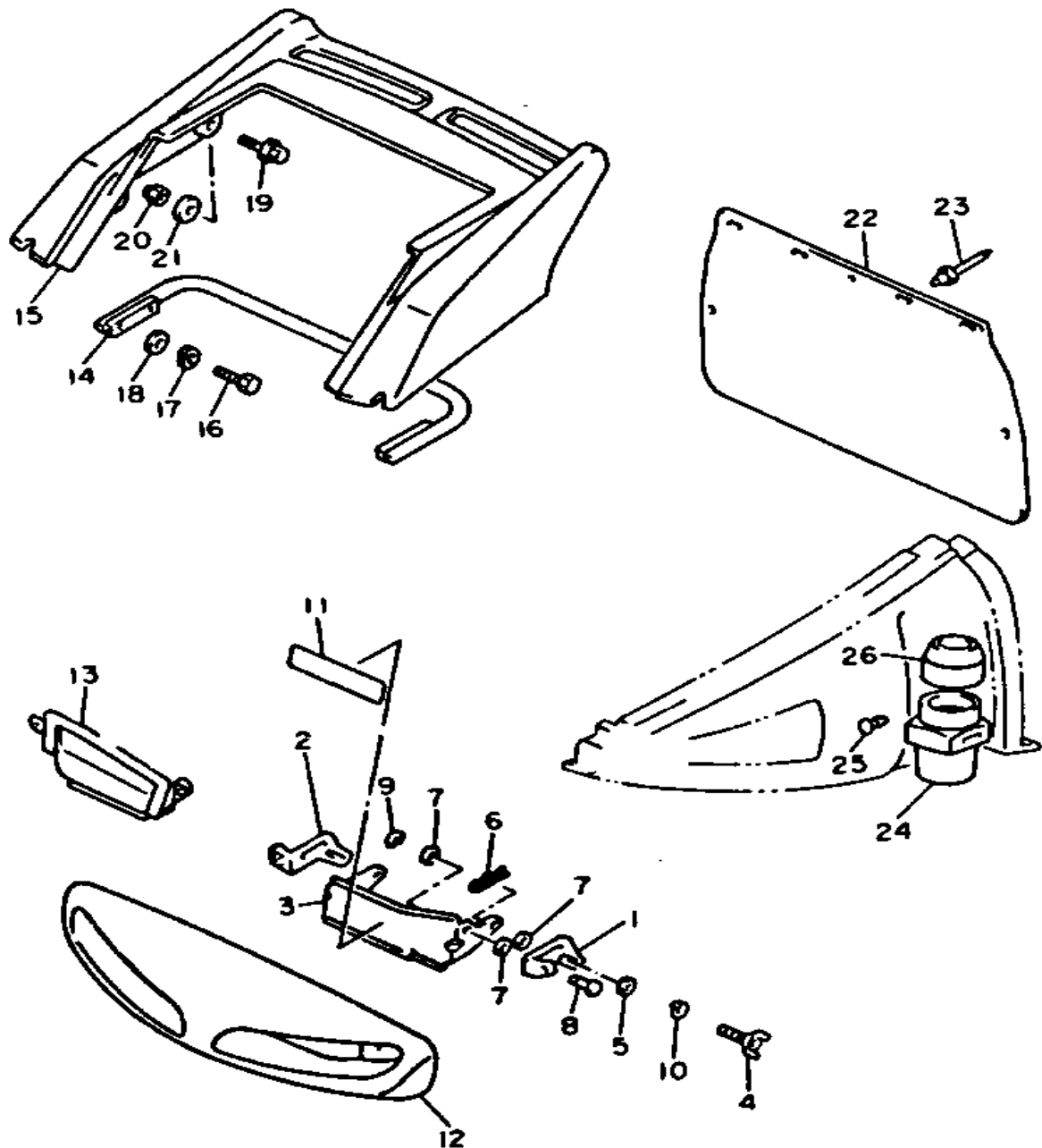
Ref. No.	Part Number	Description	Qty	Remarks
1	89A-77231-00-00	FAIRING	1	
2	97001-05016-00	BOLT (97002-05016-00)	2	
3	89A-77144-00-00	NUT	11	
4	89A-77241-00-00	SRAY, FAIRING	1	
5	90201-082E7-00	WASHER, PLATE	2	
6	95333-08600-00	NUT	2	
7	90154-05013-00	SCREW, BINDING	2	
8	90154-05042-00	SCREW, BINDING	8	
9	90150-05028-00	SCREW, ROUND HEAD	3	
10	90201-052E8-00	WASHER, plate	2	
11	90201-06407-00	WASHER, PLATE (90201-06747-00)	6	
12	95380-06600-00	NUT	6	
13	89A-77153-00-00	PLATE, BACK UP 1	1	
14	89A-77154-00-00	PLATE, BACK UP 2	1	
15	90154-05013-00	SCREW, BINDING	2	
16	89A-77210-00-00	WINDSHIELD COMP.	1	
17	89A-77213-00-00	. TRIM, UPPER	1	
18	89A-77251-00-00	COVER, HEADLIGHT	1	
19	89A-83519-00-00	BRACKET, METER	1	
20	89A-77263-00-00	LINING, SHROUD 3	1	
21	89A-2199J-00-00	SHIELD, NOISE 2	1	

INSTUMENT PANEL



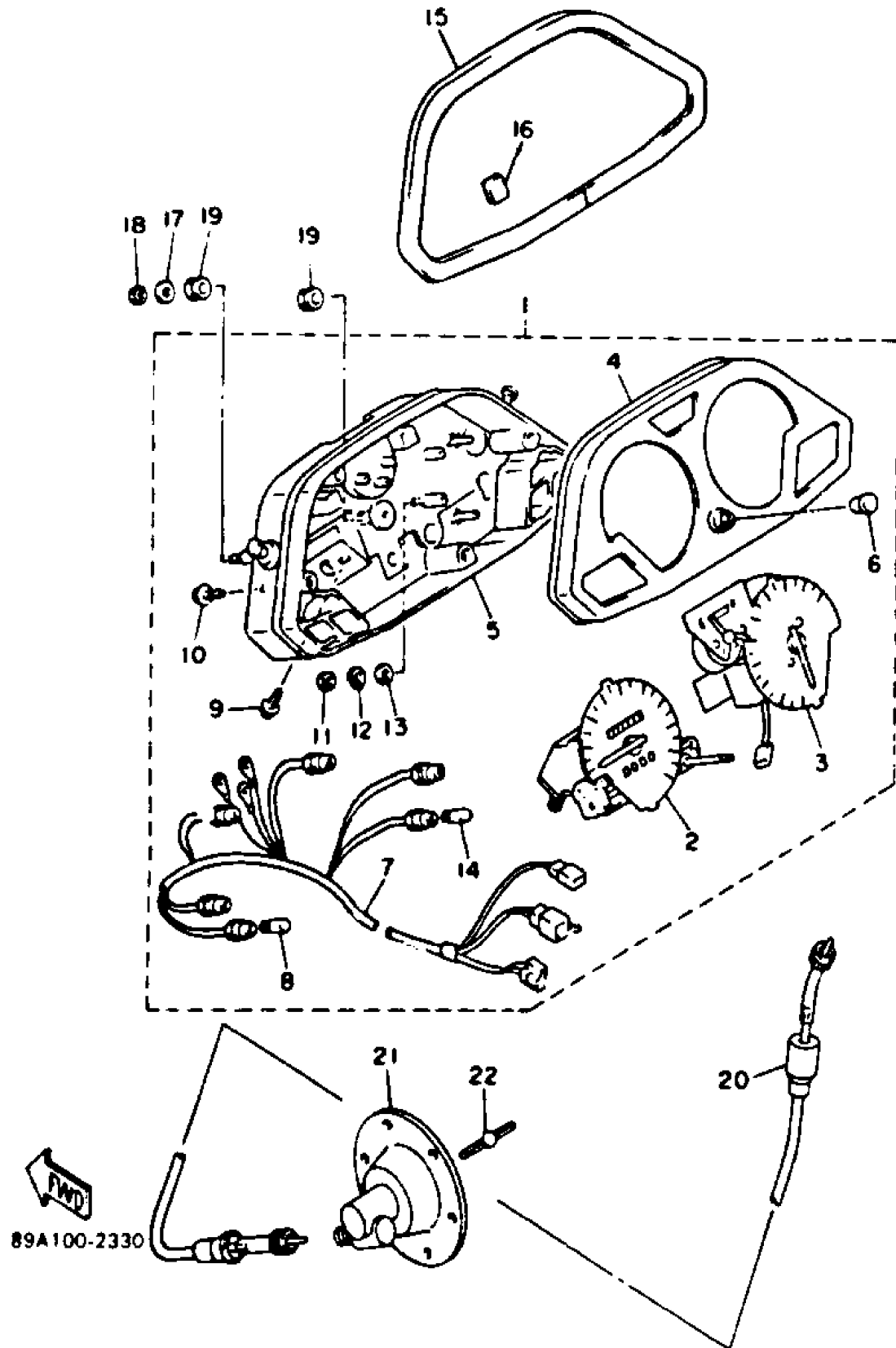
Ref. No.	Part Number	Description	Qty	Remarks
1	89A-77711-00-00	PANEL, INSTRUMENT	1	
2	89A-77741-01-00	INDICATOR 1	1	
3	89A-77761-01-00	LABEL, WARNING 1	1	UR
4	89A-77131-00-00	LOUVER 1	1	
5	89A-77132-00-00	LOUVER 2	1	
6	90159-06071-00	SCREW, WITH WASHER	4	
7	95706-06300-00	NUT, NYLON	4	
8	98906-06012-00	SCREW, BIND	4	
9	90387-061R5-00	COLLAR	2	
10	95701-06300-00	NUT, NYLON	2	
11	90201-06059-00	WASHER, PLATE	4	

BUMPER



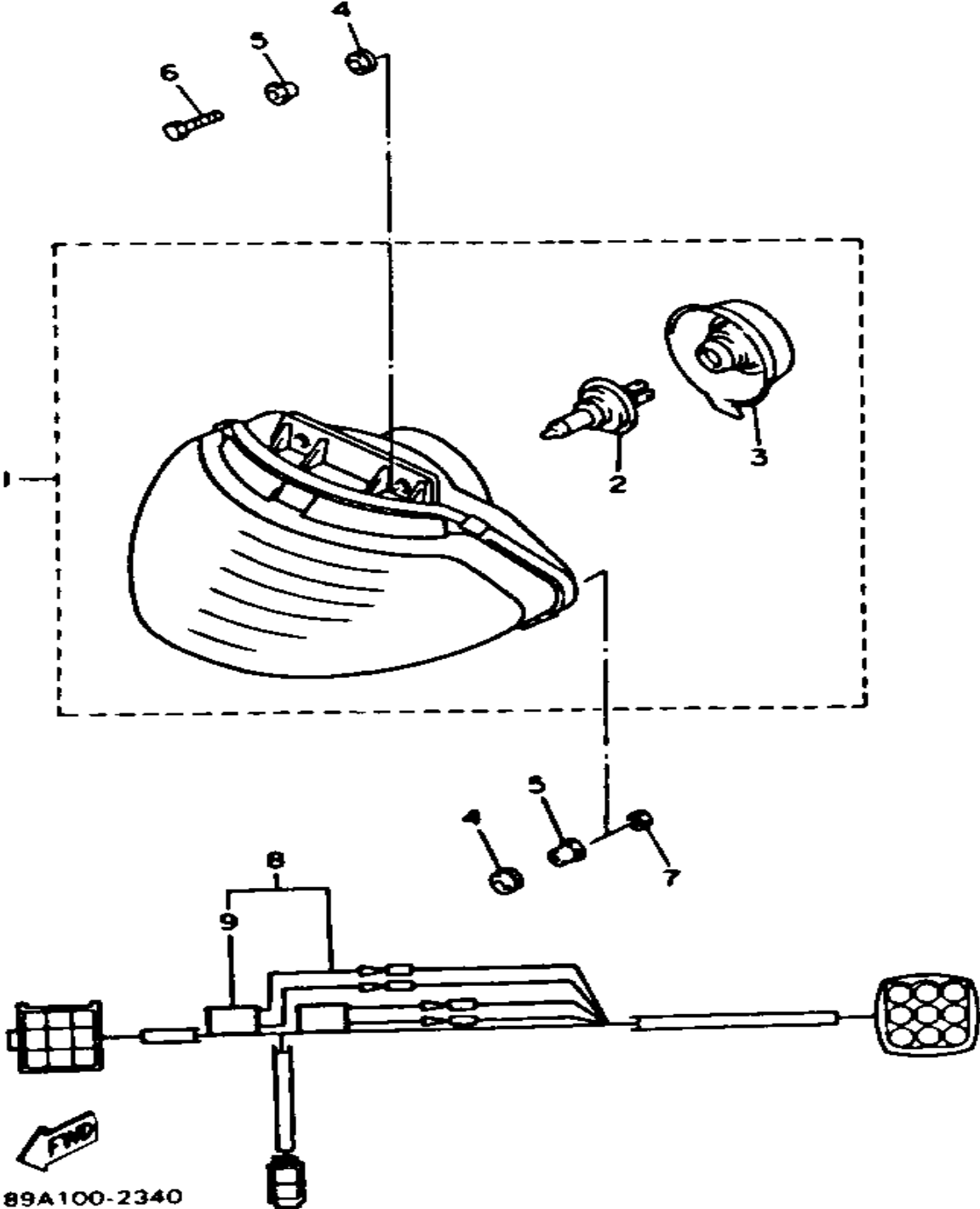
Ref. No.	Part Number	Description	Qty	Remarks
1	89A-77125-00-00	STAY 1	1	
2	89A-77126-00-00	STAY 2	1	
3	89A-77133-00-00	LOUVER 3	1	
4	90122-05032-00	BOLT, WING	2	
5	92990-05200-00	WASHER, PLAIN	2	
6	90468-10003-00	CLIP	2	
7	90202-05088-00	WASHER, PLATE	6	
8	90249-05136-00	PIN	2	
9	99080-04600-00	CIRCLIP (E)	2	
10	92906-05100-00	WASHER, SPRING	2	
11	8Y0-77762-00-00	LABEL, WARNING 2	1	
12	89A-77511-00-00	BUMPER, FRONT 1	1	
13	89A-77128-00-00	STAY 4	1	
14	89A-77541-00-00	BUMPER, REAR 1	1	
15	89A-77542-00-00	BUMPER, REAR 2	1	
16	97313-08020-00	BOLT, HEXAGON	4	
17	92990-08100-00	WASHER	4	
18	92990-08200-00	WASHER, PLAIN	4	
19	95811-06020-00	BOLT, FLANGE	4	
20	95701-06300-00	NUT, NYLON	4	
21	90201-06778-00	WASHER, PLATE	4	
22	8V9-77595-00-00	FLAP	1	
23	90267-48086-00	RIVET, BLIND	5	
24	82M-77551-00-00	PROTECTOR 1	2	
25	90269-04025-00	RIVET	2	
26	82M-77554-01-00	PROTECTOR 4	2	

METER



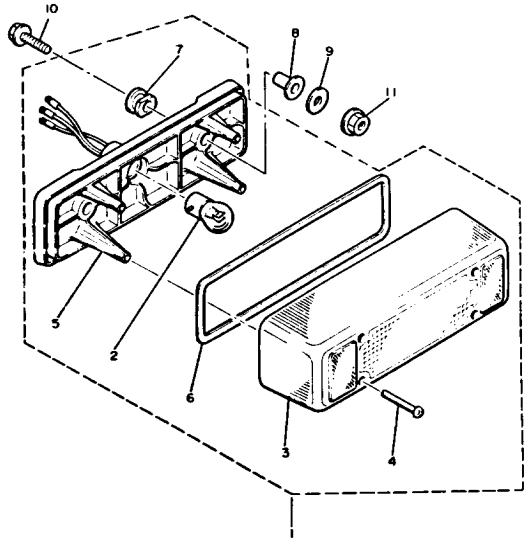
Ref. No.	Part Number	Description	Qty	Remarks
1	89A-83500-40-00	SPEEDOMETER ASSEMBLY ..	1	UR (MILE/H)
2	89A-83580-40-00	. SPEEDOMETER ASSEMBLY .	1	UR
3	89A-83540-40-00	. TACHOMETER ASSEMBLY ..	1	
4	89A-83559-40-00	. COVER, METER	1	
5	89A-8353H-40-00	. CASE, UNDER (8AS-8353H-20-00)	1	
6	29L-83578-00-00	. KNOB, TRIP METER	1	
7	89A-83509-40-00	. SOCKET CORD ASSEMBLY .	1	
8	4G1-84744-00-00	. BULB, MTR.12V3.4W	5	
9	90167-04021-00	. SCREW, TAPPING	2	
10	90164-04009-00	. SCREW, TAPPING	4	
11	95301-04600-00	. NUT	2	
12	92901-04100-00	. WASHER, SPRING	2	
13	92990-04200-00	. WASHER, PLAIN	2	
14	4N0-83516-00-00	. BULB (6V-3W)	1	
15	89A-77225-00-00	TRIM 5	1	
16	89A-77198-00-00	DAMPER 1	1	
17	90201-06067-00	WASHER, PLATE	2	
18	95380-06600-00	NUT	2	
19	5J0-83513-00-00	DAMPER	3	
20	89A-83550-00-00	SPEEDOMETER CABLE ASSEMBLY	1	
21	83R-47700-00-00	METER GEAR HOUSING COMP.	1	
22	8K4-47715-00-00	JOINT	1	

HEADLIGHT



Ref. No.	Part Number	Description	Qty	Remarks
1	89A-84310-00-00	HEADLIGHT UNIT ASSEMBLY	1	
2	5V2-84314-00-XX	. BULB, HL 12V60/55W (2F9-84314-00)	1	
3	89A-84397-00-00	. COVER, SOCKET	1	
4	90480-13163-00	GROMMET	4	
5	90387-062L2-00	COLLAR	4	
6	97011-06020-00	BOLT	2	
7	95380-06600-00	NUT	2	
8	89A-84359-00-00	CORD, HEADLIGHT	1	
9	38W-85774-00-00	. CHECKER, pilot lamp	2	

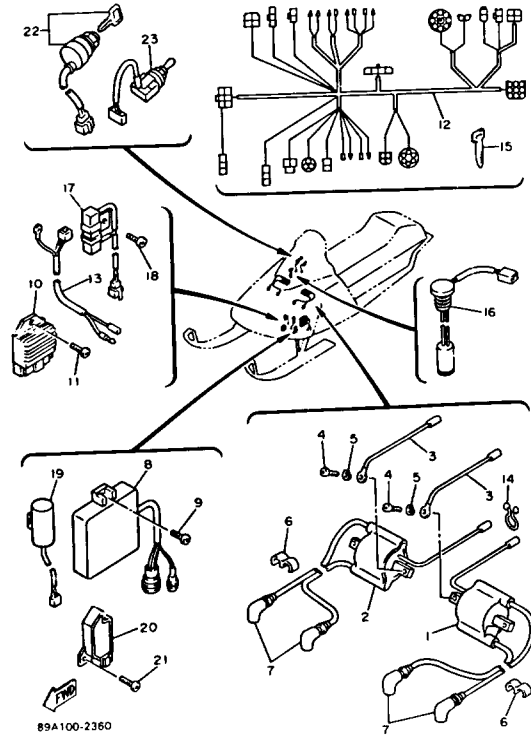
89A100-2340



TAILLIGHT

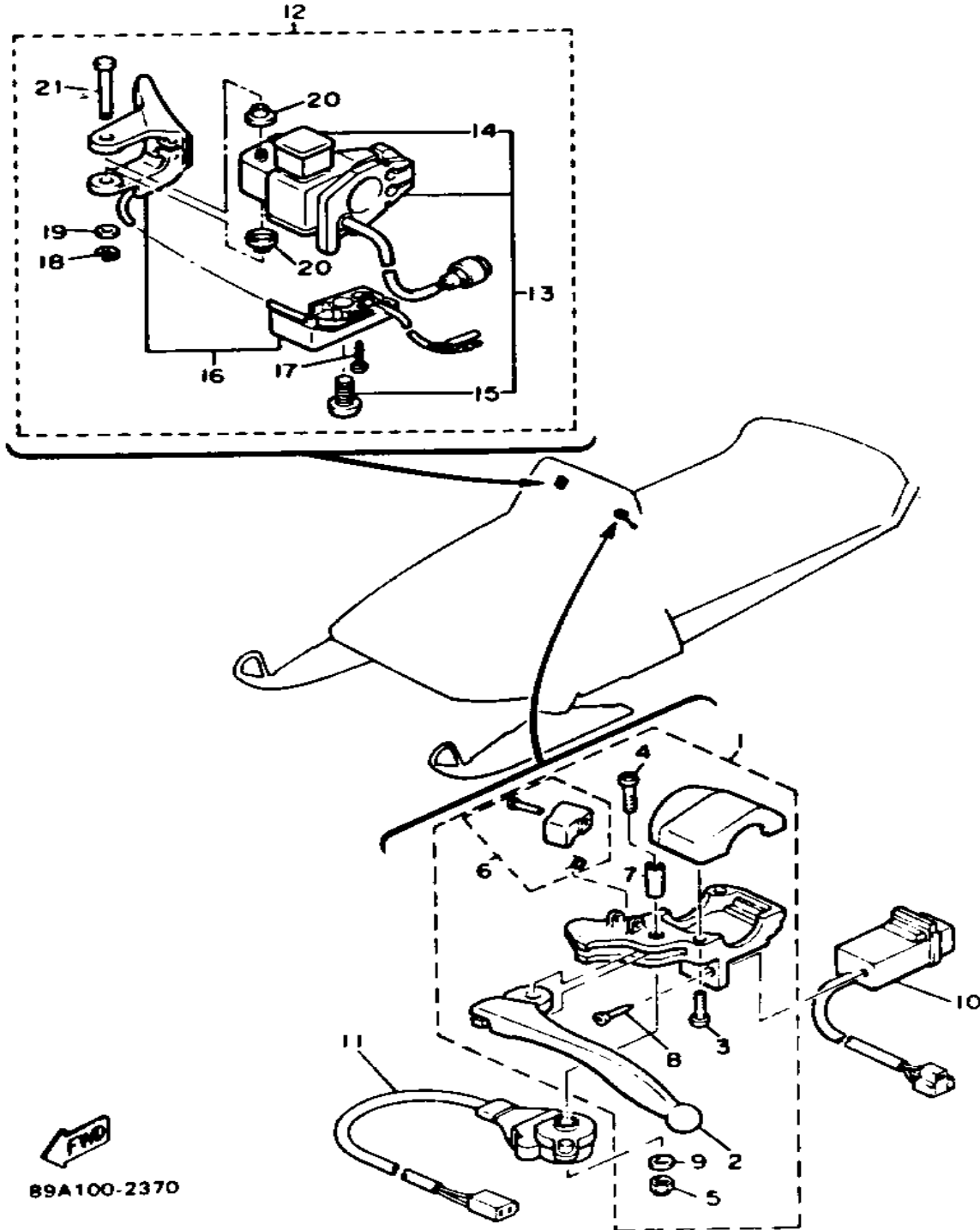
Ref. No.	Part Number	Description	Qty	Remarks
1	82M-84710-00-00	TAILLIGHT UNIT ASSEMBLY ..	1	
2	137-84714-61-00	. BULB, TL 12V23/8W (J50-83311-00)	1	
3	8K4-84721-00-00	. LENS, TAILLIGHT	1	
4	97780-40130-00	. SCREW, PANHEAD TAPPING (97701-40130-00)	4	
5	82M-84711-00-00	. BASE, TAILLIGHT	1	
6	87M-84723-00-00	. GASKET, TAIL LENS	1	
7	8K4-84718-00-00	. GROMMET	1	
8	90387-060G8-00	COLLAR	2	
9	90201-06407-00	WASHER, PLATE (90201-06747-00)	2	
10	90119-06208-00	BOLT, WITH WASHER	2	
11	95701-06500-00	NUT, FLANGE	2	

ELECTRICAL 1



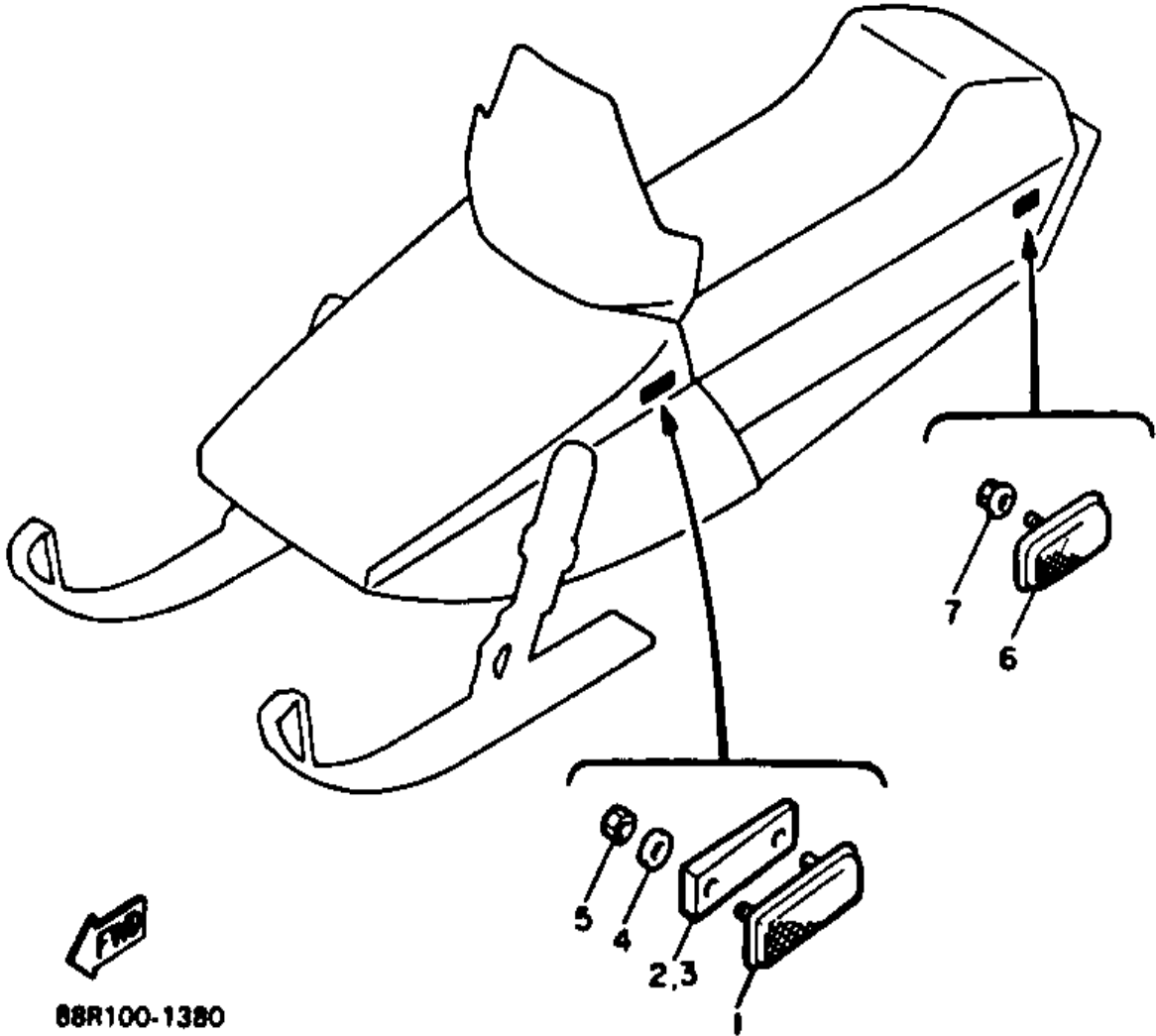
Ref. No.	Part Number	Description	Qty	Remarks
1	88R-82310-00-00	IGNITION COIL ASSEMBLY ...	1	
2	89A-82320-00-00	IGNITION COIL ASSEMBLY ...	1	
3	87D-82318-00-00	WIRE, SUB-LEAD	2	
4	98580-06020-00	SCREW	4	
5	92995-06100-00	WASHER, SPRING	4	
6	861-82361-00-00	CLAMP, CORD	2	
7	81E-82370-20-00	PLUG CAP ASSEMBLY	4	
8	89A-85540-00-00	CDI UNIT ASSEMBLY	1	
9	98980-06016-00	SCREW, BINDING	2	
10	89A-81960-00-00	RECTIFIER & REGULATOR ASSEMBLY	1	
11	90105-06452-00	BOLT, WASHER BASED	1	
12	89A-82590-00-00	WIRE HARNESS ASSEMBLY ..	1	
13	89A-82509-00-00	WIRE, SUB LEAD	1	
14	90464-16039-00	CLAMP	2	
15	341-26397-01-00	BAND	2	
16	3E1-85720-11-00	OIL LEVEL GAUGE ASSEMBLY	1	
17	88T-85370-00-00	RESISTOR ASSEMBLY	1	
18	98980-06016-00	SCREW, BINDING	1	
19	1NL-81965-00-00	CONDENSER, SMOOTHING ...	2	
20	1JK-81960-A1-00	RECTIFIER & REGULATOR ASSEMBLY	1	
21	98980-06016-00	SCREW, BINDING	2	
22	89A-82510-00-00	MAIN SWITCH ASSEMBLY ...	1	
23	88T-82917-01-00	SWITCH	1	

ELECTRICAL 2



Ref. No.	Part Number	Description	Qty	Remarks
1	88R-W8291-00-00	LEVER HOLDER ASSEMBLY (LEFT)	1	
2	8H8-83912-00-00	. LEVER 1	1	
3	90157-05057-00	. SCREW, PANHEAD	2	
4	90157-05113-00	. SCREW, PAN HEAD	1	
5	95701-05300-00	. NUT, NYLON	1	
6	82A-83930-00-00	. LEVER LOCK ASSEMBLY	1	
7	802-83913-00-00	. COLLAR, LEVER 1	1	
8	97780-30312-00	. SCREW, tapping	2	
9	92990-05200-00	. WASHER, PLAIN	1	
10	8H8-83950-01-00	BEAM SWITCH ASSEMBLY (8K4-83950-01-00)	1	
11	88R-82530-00-00	STOP SWITCH ASSEMBLY	1	
12	89A-82720-00-00	LEVER HOLDER ASSEMBLY 2	1	
13	84M-83963-00-00	. SWITCH, HANDLE 3 (RIGHT)	1	
14	84R-82575-09-00	.. ENGINE STOP SWITCH ASSEMBLY	1	
15	84M-83928-00-00	.. SCREW, ADJUSTING	1	
16	89A-82970-01-00	. THUMB WARMER ASSEMBLY	1	
17	97706-03614-00	. SCREW, TAPPING	2	
18	99080-04600-00	. CIRCLIP (E)	1	
19	85G-83663-00-00	. WASHER, SPECIAL	1	
20	85G-83956-00-00	. CAP 1	2	
21	8R6-8399F-00-00	. SHAFT	1	

ELECTRICAL 3



FWD
88R100-1380

Ref. No.	Part Number	Description	Qty	Remarks
1	81E-85110-00-00	REFLECTOR ASSEMBLY	2	
2	82M-85115-00-00	BASE, REFLECTOR	1	
3	82M-85115-50-00	BASE, REFLECTOR	1	
4	92901-05600-00	WASHER, PLATE	4	
5	95701-05300-00	NUT, NYLON	4	
6	3Y6-85130-02-00	REAR REFLECTOR ASSEMBLY	2	
7	95701-05500-00	NUT, FLANGE	2	

CLUTCH KIT

Ref. No.	Part Number	Description	Qty	Remarks
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SERVICE DATA

SNOWMOBILE JAN 93 91

VX750S 1992 SERVICE/HIGH ALTITUDE DATA

MODEL / MODEL CODE	VX750S	BSA
INITIAL ENGINE NUMBER / FRAME NUMBER	89A-000101 / 89A-000101	
ENGINE: Type / Induction System	2-Stroke, Liquid-Cooled / Reed Valve	
Bore / Stroke / Number Cylinders / Displacement	63.0mm / 59.0mm / 4 / 743cc	
Compression Ratio	8.3:1	
Piston Skirt Clearance New / Max	0.085-0.070mm / 0.1mm	
Ring End Gap Top / 2nd	0.35 - 0.55mm / 0.35 - 0.55mm	
Coilover Type / Mounting Rate	Epyrene Glycol-Water / 6.4	
CARBURETOR: Mk. / Type / I.D. Number	Mitsumi / TM33 / 89A-00	
Main Jet	#140 (See setting chart)	
Jet Needle (Clip Position)	06N14 (3)	
Idle Mixture Screw (Turns Out)	2	
Power Jet / Pilot (Slow) Jet	#1 / #50	
Float Height (mm)	13.3 ± 0.0mm (without gasket)	
Idle Speed	1500 rpm	
Pins (Slow Air Jet / Power Air Jet / Main Air Jet)	1.2 / # / #	
AUTOLUBE: Pump Color / Control Rod Adjustment	None / 28 ± 1mm Cable Inseal at idle	
Pump Plunger Stroke Min / Max	# / #	
Output @ 1500 rpm Full Throttle / Idle (cc per minute)	2.85 ± 0.28mm / 0.24 ± 0.07	
DRIVE: Engagement rpm / Shift rpm	3600 / 8250	
Bar Type / Width / Wear Limit	BSA / 35mm / 31.5mm	
Sheave Center-to-center / Offset	208.5 ± 0.2mm / 11 ± 0.1mm	
Primary Spring Color / Length / Rate / Preload	Gold-Yellow-Gold / 82.1mm / 2.5kg/mm / 2.5g	
Secondary Spring Preload / Color / Length	33° (A-3) / Red / 24.0mm	
Secondary Drive Ratio / Chain Free Play	20/33 / #	
Track Width / Tension	15 in. / 20 - 25mm @ 10kg (1.0-1.2 in. @ 22 lb)	
CAPACITIES: - Chain Case / Gear Case Cap. (Type)	350cc/250cc (SAE 75W80 API GL-3)	
Fuel Tank Capacity / Type	38 Lit (10 gal) / Premium Unleaded	
Autolube Tank Capacity / Type	2.8 Lit (2.9 qt) / Yamaha Co 2	
ELECTRICAL: Spark Plug / Gap (mm)	NGK BR8CS / 0.7 - 0.8mm	
Headlight / Taillight / Meter Light	12V/0.55W / 12V/2.8W / 12V/3.4W	
Ignition System / Manufacturer	CDI (Digital) / Mitsubishi	
Ignition Timing	1.85mm (16°) BTDC @ 1500 rpm	
Pulse Coil Color / Code / Resistance	W-R-W-G / 505Q ± 10%, W-B-W-R / 505Q ± 10%	
Charge Coil Color Code / Resistance	B-B-R / 2.55Q ± 10% W - B / 0.33Q ± 10%	
Lighting Coil Color Code / Resistance	Y-B / 0.32Q ± 10%	
Wiper Coil Color Code / Resistance	Y-B / 1.02Q ± 10%	
Primary Ignition Coil Resistance	0.20 ± 20%	
Secondary Ignition Coil Resistance	4.9kQ ± 20%	

= Does not apply to this model
NA = Information not available

* = Available from YPAD
@ = For diagnostic use only

PAGE 1 OF 2

VX750S HIGH ALTITUDE SPECIFICATIONS

DESCRIPTION	0-3500 FT	2500 - 5500 FT	5000-8000 FT	ABOVE 7000 FT
Idle	1500 rpm	Standard	Standard	Standard
Clutch Engagement	3600 rpm	Standard	Standard	Standard
Shift Speed	8250 rpm	Standard	Standard	Standard
Main Jet (STD #140)	See Setting Chart	See Setting Chart	See Setting Chart	See Setting Chart
Jet Needle Clip Position	3rd	Standard	Standard	See Setting Chart
Primary Spring	Gold-Yellow-Gold	White-Yellow-White	White-Yellow-White	Yellow
Clutch Weight Rivet (3)	Steel	Standard	Aluminum	None
Weight Roller Bushing	Vespel	Duralon	Duralon	Yellow
Gear Reduction	20/33	Standard	20/37	20/37
Chain	66L	Standard	66L	66L
Secondary Spring Preload	33° (A-3)	43° (B-3)	53° (C-3)	53° (C-3)
Sec. Clutch Ramp Shoes	Nylon	Peek	Peek	Peek
Torque Cam	36°	Standard	Standard	36°

NOTE: Refer to Technical Bulletin S92-011 for specifications for units equipped with clutch update kit. Kits can be identified by BAX mark cast on the backside of the primary fixed sheave.

CARBURETOR SETTING CHART

ELEVATION	TEMP	-30°C	-20°C	-10°C	0°C	10°C	20°C
		-22°F	-4°F	14°F	32°F	50°F	68°F
0 to 300 ft	MJ #135						MJ #133.8
300 to 2,000 ft	MJ #135						MJ #133.8
2,000 to 4,000 ft	MJ #132.5						MJ #131.3
4,000 to 6,000 ft	MJ #131.3						MJ #130
6,000 to 8,000 ft	MJ #130						MJ #128.8 JN:2
8,000 to 10,000 ft	MJ #128.8 JN:2						MJ #127.5 JN:2

MJ = Main Jet PS = Idle Mixture Screw JN = Jet Needle Clip Position

MLA	Part Number	Part Number	Part Number	Part Number
#140 (STD)	3G2-14231-28-00			
#135	3G2-14231-27-00			
#133.3	3G2-14231-26-00			
#131.3	3G2-14231-25-00			
#132.5	3G2-14231-24-00			
#130	3G2-14231-23-00			
#128.8	3G2-14231-22-00			
#127.5	3G2-14231-21-00			

Publication	Part Number	Remarks
Owner's Manual	LIT-12628-01-35	
Service Manual	LIT-12618-01-35	
Assembly Manual	LIT-12668-01-35	

= Does Not Apply To This Model NA = Information Not Available
* = Available from Yamaha Parts and Accessories Div.

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ROUTE TO: SERVICE PARTS WARRANTY SALES

VX750S HIGH ALTITUDE SPECIFICATIONS

DESCRIPTION	0-3500 FT	2500 - 5500 FT	5000-8000 FT	ABOVE 7000 FT
Idle	1500 rpm	Standard	Standard	Standard
Clutch Engagement	3600 rpm	Standard	Standard	Standard
Shift Speed	8250 rpm	Standard	Standard	Standard
Main Jet (STD #140)	See Setting Chart	See Setting Chart	See Setting Chart	See Setting Chart
Jet Needle Clip Position	3rd	Standard	Standard	See Setting Chart
Primary Spring	Gold-Yellow-Gold	White-Yellow-White	White-Yellow-White	Yellow
Clutch Weight Rivet (3)	Steel	Standard	Aluminum	None
Weight Roller Bushing	Vespel	Duralon	Duralon	Yellow
Gear Reduction	20/33	Standard	20/37	20/37
Chain	66L	Standard	66L	66L
Secondary Spring Preload	33° (A-3)	43° (B-3)	53° (C-3)	53° (C-3)
Sec. Clutch Ramp Shoes	Nylon	Peek	Peek	Peek
Torque Cam	39°	Standard	Standard	36°

NOTE: Refer to Technical Bulletin S92-011 for specifications for units equipped with clutch update kit. Kits can be identified by BAX mark cast on the backside of the primary fixed sheave.

CARBURETOR SETTING CHART

ELEVATION	TEMP	-30°C	-20°C	-10°C	0°C	10°C	20°C
		-22°F	-4°F	14°F	32°F	50°F	68°F
0 to 300 ft	MJ #135						MJ #133.8
300 to 2,000 ft	MJ #135						MJ #133.8
2,000 to 4,000 ft	MJ #132.5						MJ #131.3
4,000 to 6,000 ft	MJ #131.3						MJ #130
6,000 to 8,000 ft	MJ #130						MJ #128.8 JN:2
8,000 to 10,000 ft	MJ #128.8 JN:2						MJ #127.5 JN:2

MJ = Main Jet PS = Idle Mixture Screw JN = Jet Needle Clip Position

MLJ	Part Number	Part Number	Part Number
#140 (STD)	3G2-14231-28-00		
#135	3G2-14231-27-00		
#133.3	3G2-14231-26-00		
#131.3	3G2-14231-25-00		
#132.5	3G2-14231-24-00		
#130	3G2-14231-23-00		
#128.8	3G2-14231-22-00		
#127.5	3G2-14231-21-00		

Sprocket	Part Number
20T (STD)	89A-17582-00-00
33T (STD)	89A-47587-30-00
37T	89A-47587-70-00

SERVICE LITERATURE

Publication	Part Number	Remarks
Owner's Manual	LIT-12628-01-35	
Service Manual	LIT-12618-01-35	
Assembly Manual	LIT-12668-01-35	

= Does Not Apply To This Model NA = Information Not Available
* = Available from Yamaha Parts and Accessories Div.

Secondary Torque Cam	Part Number
39° (Std)	89A-17684-9A-00
36°	89A-17684-6A-00

VX750S HIGH ALTITUDE SPECIFICATIONS

DESCRIPTION	0-3500 FT	2500 - 5500 FT	5000-8000 FT	ABOVE 7000 FT
Idle	1500 rpm	Standard	Standard	Standard
Clutch Engagement	3600 rpm	Standard	Standard	Standard
Shift Speed	8250 rpm	Standard	Standard	Standard
Main Jet (STD #140)	See Setting Chart	See Setting Chart	See Setting Chart	See Setting Chart
Jet Needle Clip Position	3rd	Standard	Standard	See Setting Chart
Primary Spring	Gold-Yellow-Gold	White-Yellow-White	White-Yellow-White	Yellow
Clutch Weight Rivet (3)	Steel	Standard	Aluminum	None
Weight Roller Bushing	Vespel	Duralon	Duralon	Duralon
Gear Reduction	20-33	Standard	20-37	20-37
Chain	66L	Standard	68L	68L
Secondary Spring Preload	33" (A-3)	43" (B-3)	53" (C-3)	53" (C-3)
Sec. Clutch Ramp Shoes	Nylon	Peak	Peak	Peak
Torque Cam	39"	Standard	Standard	36"

NOTE: Refer to Technical Bulletin S92-011 for specifications for units equipped with clutch update kit. Kits can be identified by BAX mark cast on the backside of the primary fixed sheave.

CARBURETOR SETTING CHART

ELEVATION	TEMP	-30°C	-20°C	-10°C	0°C	10°C	20°C	
		-22°F	-4°F	14°F	32°F	50°F	68°F	
0 to 300 ft		MJ #135 ----- MJ #133.8						0-3,500 FT. DRIVE LINE SETTINGS
300 to 2,000 ft		MJ #135 ----- MJ #133.8						
2,000 to 4,000 ft		MJ #132.5 ----- MJ #131.3						2,500-5,500 FT. DRIVE LINE SETTINGS
4,000 to 6,000 ft		MJ #131.3 ----- MJ #130						5,000-8,000 FT. DRIVE LINE SETTINGS
6,000 to 8,000 ft		MJ #130 ----- MJ #128.8 JN:2						ABOVE 7,000 FT. DRIVE LINE SETTINGS
8,000 to 10,000 ft		MJ #128.8 JN:2 ----- MJ #127.5 JN:2						

MJ = Main Jet PS = Idle Mixture Screw JN = Jet Needle Clip Position

M.J.	Part Number	Pri. Clutch Weight Roller Bushing	Part Number	Primary Spring	Part Number
#140 (STD)	3G2-14231-28-00	Vespel	90386-08182-00	Gold-Yellow-Gold (Std)	90501-524G5-00
#135	3G2-14231-27-00	Duralon	90380-08221-00	White-Yellow-White	90501-553G8-00
#133.3	3G2-1423E-53-00			Yellow	90501-555G8-00
#131.3	3G2-1423E-52-00				
#132.5	3G2-1423A-77-A1				
#130	3G2-14231-26-A0				
#128.8	3G2-1423E-51-00				
#127.5	3G2-1423A-76-00				

Sprocket	Part Number	Sec. Clutch Ramp Shoes	Part Number	Drive Chain	Part Number
20T (STD)	89A-17582-00-00	Nylon (STD)	89A-17688-00-00	66L (Std)	94880-03068-00
33T (STD)	89A-47587-30-00	Peak	89A-17688-10-00	68L	94880-03068-00
37T	89A-47587-20-00				

Clutch Weight Rivet	Part Number
Steel (Std)	90261-08019-00
Aluminum II	90261-08028-00

NOTE: 3 Aluminum rivets are included in the crate with the unit.

SERVICE LITERATURE

Publication	Part Number	Remarks
Owner's Manual	LIT-12628-01-35	
Service Manual	LIT-12618-01-35	
Assembly Manual	LIT-12668-01-35	

= Does Not Apply To This Model NA = Information Not Available
 * = Available from Yamaha Parts and Accessories Div

Secondary Torque Cam	Part Number
39" (Std)	89A-17684-9A-00
36"	89A-17684-6A-00

TECHNICAL BULLETIN

SNOWMOBILE DATE: 8/20/91 NO. 591-004

VX750S CORRECTED ASSEMBLY INFORMATION

INTRODUCTION

This bulletin provides corrected assembly information, as well as some tips to make assembly easier.

Make note of these additions in your VX750S Assembly Manual (LT-12668-01-35) and keep a copy of this bulletin with the assembly manual.

AFFECTED UNITS

All VX750S

ADDITIONAL ASSEMBLY INFORMATION

Page	Set-up Point	Assembly Instructions	Page	Set-up Point	Assembly Instructions
4	4.	Fit the windshield clip nuts, No. (6) shown on Page 3 to the inner panel before attaching the fairing assembly to the shroud.	5	2.	Install the TSS Damper Adjuster rubber grommet (10) before installing the skis.
4	4.	There are two clip nuts in Vinyl Bag "4" that are not listed in the Parts List on Page 3. These nuts are slipped onto the fairing at the front underneath before attaching the fairing assembly to the shroud. See small insert in the Step 4 illustration.	5	*	Before installing the Cap (9) shown in insert illustration, check the TSS damper nuts. Tighten if necessary.
4	4.	There are also 8mm studs on the fairing to attach it to the shroud. These studs are not shown in the illustrations on Pages 3 and 4.	7	2.	When installing the rear bumper, remove the rear seat mounting nuts (5) and washer (8) as shown. Lift the seat and install the bumper. Retighten the seat nuts and washers when the rear bumper is mounted.
4	4.	Install the clamp on the wire harness at this time. See (14) in the illustration on Page 3.	7	2.	There are flat washers included in Vinyl Bag "4" that are used with the bolts (4) and nut (7). Put them on the bolts before putting on the nuts.
4	5.	Install three clip nuts from Vinyl Bag "1" at the front of the fairing assembly for the windshield.	7	2.	There are only two bolts (4) per side, rather than three as the chart shows.
5	1.	The raised portion of the stopper (2) does not go forward as the illustrations show. Follow the direction arrow stamped on the stopper and match the notch on the stopper with the rib on the ski.	8	1.	Check and adjust the clutch offset and center-to-center settings and clean the sheaver of both clutches before installing the drive V-belt. Note the directional arrows on the drive belt.
5	2.	Check the TSS damper adjustment before installing the seat. Adjust if necessary, using the procedures on Page 63 of the VX750S Owner's Manual.	10	*	Check the drive chain free play, and adjust if needed. See Page 60 of the VX750S Owner's Manual.

* This procedure is not listed in the Assembly Manual, but should be performed at the same time as other procedures on this page.

Page	Set-up Point	Assembly Instructions	Page	Set-up Point	Assembly Instructions
11		The listed Oil Pump Bleeding Procedure is normally not necessary. Use this procedure instead: 1. Add oil to the tank if needed. 2. Start the engine and let it idle. 3. Advance the oil pump to full stroke by pulling the upper cable out of the adjuster. Let engine idle for 2 to 3 minutes while holding the cable fully out. (See Page 48 in the VX750S Owner's Manual for adjuster location.)	15	*	Check the Rear Suspension Spring Preload and adjust if needed. See Page 64 of the VX750S Owner's Manual for adjustment procedures. NOTE: Measure the spring seat distance for the rear suspension's front shock from the shock eye center to the bottom of the spring, not to the bottom of the spring seat as shown on Page 64, reference (2).
		NOTE: The machine should smoke excessively with this procedure. If it does, no additional bleeding is necessary. If not, then follow the bleeding procedure in the Assembly Manual.	15	*	Remove and/or open all the Engine Hood Plates for normal operation. See Page 19 of the VX750S Owner's Manual for procedures. There are two plates attached to the inside of the shroud that are not shown in the manual illustration. Be sure to remove these plates also.
12	*	After making the Throttle Cable adjustment, check Oil Pump Cable free play. See Page 48 of the VX750S Owner's Manual for adjustment procedures.	16		The carburetor settings should be disregarded. Refer to the VX750S Service/High Altitude Tuning Data sheet.

* This procedure is not listed in the Assembly Manual, but should be performed at the same time as other procedures on this page.

WARRANTY INFORMATION

This bulletin is for information only. No special warranty applies.

PAGE: 1 OF 2 PAGE 2 OF 2 ROUTE TO: SERVICE PARTS WARRANTY SALES

TECHNICAL BULLETIN

SNOWMOBILE DATE: 11/5/91 NO. 591-010

VX750S SPECIAL CLUTCH TOOLS

INTRODUCTION

This bulletin introduces two new essential tools for setting the clutch distance and alignment on the VX750S, Vmax-4. These tools are supplied together in a kit and are used in conjunction with your existing clutch alignment gauge set to measure clutch offset, alignment, and center-to-center distance.

YS-38508 KIT,
CENTER-TO-CENTER GAUGE
3MM STRIP



AFFECTED UNITS

VX750S All

TOOL INFORMATION

The new tool kit will be shipped automatically to your dealership from Kent-Moore as part of the essential tool program. Your Yamaha Parts and Accessories account will be charged the special price of \$15.65 plus any applicable

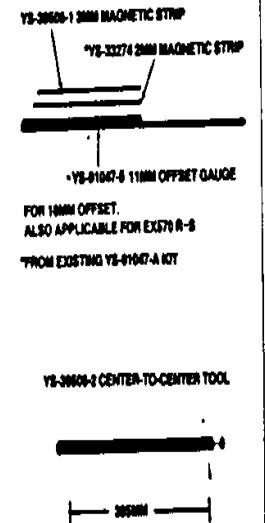
taxes. Additional tool kits are available from Kent-Moore at the regular price of \$17.35. Each tool is also available separately. See parts pricing information below.

PART NUMBER	DESCRIPTION	SPECIAL PRICE	REGULAR PRICE
YS-38508	New Vmax-4 Clutch Tool Kit	\$15.65	
YS-38508-1	3mm Magnetic Strip & Center-to-center tool	—	
YS-38508-2	Converts of Kit. (Available Separately)	—	
YS-32274	3mm Magnetic Strip	—	
YS-91047-5	Center-to-center tool	—	
YS-32274	Required tools from existing Kit YS-91047-A. (YS-91047-A Kit contains an additional tool which is not used on this model)	—	
YS-32274	2mm Magnetic Strip	—	
YS-91047-5	11mm Offset Gauge	—	

NOTE: To order additional kits or individual tools, contact Kent-Moore directly at (800) 345-2233.

SERVICE PROCEDURES

The new Vmax-4 essential tool kit mentioned above must be used in conjunction with certain tools from the existing Clutch Tool Kit #YS-91047-A. To check clutch offset and alignment, the 3mm magnetic strip included in the new kit must be added to the existing 11mm offset gauge alignment tool and 2mm magnetic strip, both from the YS-91047-A Clutch Tool Kit. You should already have these tools in your dealership's special tool inventory. If not, refer to Tool Information Section for ordering information. For adjustment and alignment procedures and additional information on the use of these tools, refer to the VX750S Service Manual (LT-12618-01-35).



WARRANTY INFORMATION

This bulletin is for information only. No warranty applies.

PAGE: 1 OF 2 PAGE 2 OF 2 ROUTE TO: SERVICE PARTS WARRANTY SALES

TECHNICAL BULLETIN

SNOWMOBILE DATE 9/1/92 No. 592-006

VX750S REAR SUSPENSION STOPPERS

INTRODUCTION

Under certain conditions, the rear suspension shock absorber can bottom out before the rear rail stoppers contact suspension arm 2. Severe, abrupt bottoming of the rear suspension can cause damage to the rear suspension components and/or frame tunnel.

new rear frame rail stoppers are the same as those used in production on the 1993 VX750T.

NOTE: If the original rear rail stoppers have already been changed to the taller VK (83R) style rear stoppers, which will correct the problem, this modification is not necessary.

REMEDY: Remove the original stoppers and install new, taller rear frame rail stoppers. The

DEALER ACTION SUMMARY

UNSOLD UNITS: Modify all unsold units in your inventory during pre-delivery setup.

PARTS REQUIRED: Yes

WARRANTY: Service-per-bulletin

SOLD UNITS: Notify all customers who have purchased affected units. Make arrangements for these units to be brought in for repair. To help you contact your customers, a list of all units sold and registered by your dealership is included with this bulletin.

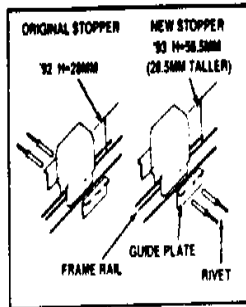
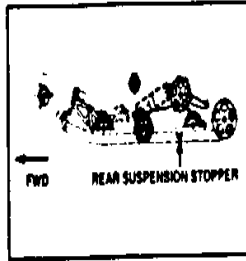
NOTE: No warranty or Y.E.S. coverage will be considered for frame tunnel damage on units which have not been modified according to this bulletin.

AFFECTED UNITS

VX750S All

SERVICE PROCEDURES

1. Remove the original rear suspension stoppers by drilling out the rivets with a 3/16 inch drill bit.
2. Using a rivet gun, install the new, taller rear suspension stoppers. Be sure to use the new guide plates in each side of the stopper.



PARTS INFORMATION

Repair parts must be ordered from Yamaha Parts and Accessories. These parts will not be shipped automatically.

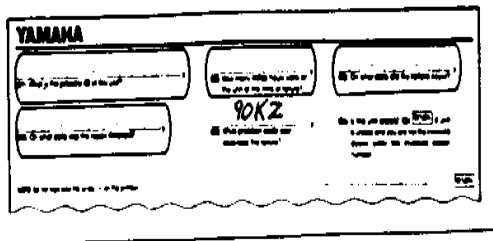
Description	Part Number	Qty
Stopper	8AX-47457-00-00	2
Guide Plate	8AX-47458-00-00	4
Rivets	90267-48062-00	4

WARRANTY INFORMATION

This modification is authorized for all affected units, regardless of ownership or warranty status. To receive credit for the parts and labor, submit a standard Service-Per-Bulletin warranty request. The labor allowance is 0.3 hours. The Problem Code is 90KZ. Refer to your Warranty Handbook, Chapter 11, Section I for more information concerning Service-Per-Bulletin warranty requests. As with all warranty

repairs, tag and hold the original parts that were removed for 90 days from the date you submit the warranty request.

NOTE: If the unit has suffered frame tunnel damage as a result of the above problem, contact your RTA to discuss repair authorization. Warranty replacement of frame tunnels on units which do not have the new taller rear suspension stoppers will not be considered.



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ROUTE TO

SERVICE

PARTS

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TECHNICAL BULLETIN

SNOWMOBILE DATE 9/1/92 No. 592-007

GENERAL SNOWMOBILE SPECIAL TOOLS

INTRODUCTION

This bulletin introduces two new special snowmobile tools.

1 YXR Clutch Bushing (Roller/Weight) Jig Kit for removing and replacing the weight and roller bushings in the YXR Primary Clutch.

2 16mm Clutch Offset Tool used to more easily set the primary clutch offset on some models equipped with the YXR Clutch.

APPLICABLE MODELS

YXR Bushing Jig Kit:

PZ480S, ES, T, ET All
PZ480STS, STT All
VT480S, T All
VT480GTS, GTT All
VK540T All
EX570STT All
EX570SXT All
EX570R, ER, S, ES, T, ET All
VX750S, T All

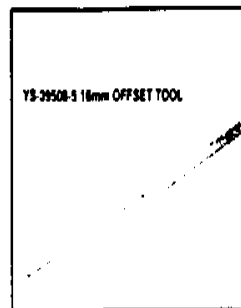
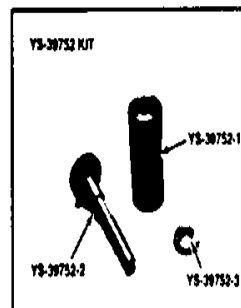
16mm Offset Tool:

VK540T All
EX570R, ER, S, ES, T, ET All
VX750S, T All

TOOL INFORMATION

1 The YXR Clutch Bushing Jig Kit will be shipped automatically to your dealership from Kent-Moore Tool Group as part of the snowmobile essential tool program. Your YPAD account will be charged the special price of \$24.70 plus any applicable taxes. Additional tool lists are available from Kent-Moore at the regular price of \$27.20.

2 The 16mm Offset Tool will not be shipped automatically. You should already have a form of this tool in your dealership tool inventory. The previous tool was a combination of an 11mm offset plus 2 magnetic strips. Because the magnetic strips are frequently lost or misplaced, this new one-piece 16mm offset tool is more convenient for easier offset adjustment.



TOOL ORDERING INFORMATION

Part Number	Description	Special Price	Regular Price
YS-39752	YXR Clutch Bushing Jig Kit		
YS-39506-5	16mm Offset Tool	—	

For the YXR Clutch Bushing Jig Kit, your dealership will be charged the special price of \$24.70 and will be invoiced through your parts account. Depending on each dealer's credit status, some orders may arrive COD. If you wish to acquire additional tools for your service

department or if you wish to order the 16mm Offset Tool, order directly from:
Kent-Moore Tool Group
Automotive Division
28635 Mound Road
Warren, MI 48092
1-800-345-2233

SERVICE PROCEDURES

Each YXR Clutch Bushing Jig Kit contains a set of instructions.

Refer to the proper service manual for instructions for using the 16mm offset tool.

WARRANTY INFORMATION

This bulletin is for information only. No warranty applies.

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ROUTE TO

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TECHNICAL BULLETIN

SNOWMOBILE CAT 9/1/92 S92-005

VX750S EXHAUST PIPE BREAKAGE

INTRODUCTION

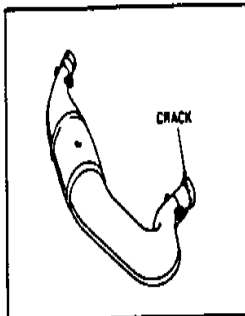
When used extensively on rough trails, the exhaust pipe may crack at the header pipe joint area. Refer to the illustration.

PROBLEM: Excessive wear and subsequent cracking in the header pipe to "Y" pipe joint area.

CAUSE: Insufficient material thickness.

REMEDY: Repair the exhaust pipe by cutting off the cracked head pipe and welding a new head pipe piece in its place. Replace the pipe #2 (LH) securing spring with a new shorter spring.

NOTE: The new head pipe piece is the same as used in production on the 1993 model.



DEALER ACTION SUMMARY

REPAIR: All failed units

PARTS REQUIRED: Yes

NOTE: On all sold units, inspect the inner contact area of the header pipes for excessive wear or cracking, repairing the pipes as necessary.

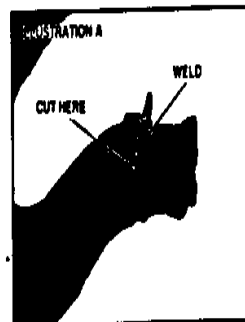
WARRANTY: Service-Per-Bulletin

AFFECTED UNITS

VX750S All

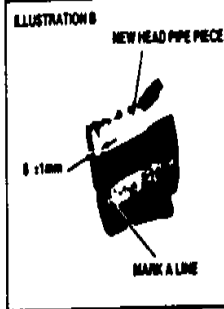
SERVICE PROCEDURES

1. Remove the exhaust pipe(s).
2. Separate the head pipe (joint) from the exhaust pipe body by cutting the pipe just behind the weld. Use a hacksaw for this procedure. See Illustration A.
3. Remove the burrs from cut areas of the pipe body.

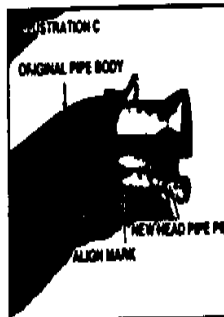


SERVICE PROCEDURES (Cont'd)

4. Mark a line 6mm from the base of the new head pipe piece (pipe joint). See Illustration B.



5. Insert the new head pipe piece into the exhaust pipe body and align the mark to the end of the pipe. See Illustration C.
6. Tack weld the new head pipe piece to the exhaust pipe body to prepare for welding. Check the alignment again.



NOTE: If the unit is available, temporarily install the pipe. Check the alignment of the new head pipe piece. Make sure the exhaust pipe fits securely to prevent leaks.

7. Weld the two pieces together securely.

NOTE: WELDING RECOMMENDATIONS:

- 1st Choice - Inert gas electric welding (Tig or Mig)
- 2nd Choice - Oxygen/Acetylene using steel rod

CAUTION:

Use low heat when welding with gas. Gas welding at too high a temperature can cause pipe cracking around the weld area.

8. Clean the new weld with a wire brush to prepare for painting. See Illustration D.



9. Paint the pipe with heat resistant black paint. This paint is available from Yamaha Parts and Accessories (Part Number PNT-0000-00-75) or from any auto parts supplier.

10. Install the pipe. Replace the securing spring on pipe #2 (LH top) with the new shorter spring for a tighter pipe fit.

TECHNICAL BULLETIN

SNOWMOBILE CAT 9/1/92 S92-005

PARTS INFORMATION

Part Number	Description	Remarks	Dealer Cost
90891-50123-00	Exhaust pipe joint	1 req'd per pipe	\$3.60
90506-16386-00	Spring	1 req'd for LH pipe	1.10

WARRANTY INFORMATION

Dealers can perform these repairs with proper welding equipment, or send the pipe out to an outside source for repair.

To receive credit for these repairs, submit a standard Service-per-bulletin warranty request. The labor allowance for this repair is 1.5 hours per pipe. Use Problem code 90LA1 for the repair of one exhaust pipe or 90LA2 for the repair of both pipes. (Both problem codes include an allowance for 1 spring).

As with all warranty repairs, tag and hold the cracked head pipe piece(s) that was removed for 90 days from the date you submit the warranty request.

NOTE: If the exhaust pipe in question is damaged beyond repair, contact your Regional Technical Advisor (RTA) to request replacement authorization.

FOR REPAIR OF ONE EXHAUST PIPE

YAMAHA		
What is the problem of the unit?	All work done under these conditions is the work of the shop.	All work done under these conditions is the work of the shop.
90LA1	1.5 hours	1.5 hours
Is the unit covered by this problem code?	Yes	No

FOR REPAIR OF BOTH EXHAUST PIPES

YAMAHA		
What is the problem of the unit?	All work done under these conditions is the work of the shop.	All work done under these conditions is the work of the shop.
90LA2	3.0 hours	3.0 hours
Is the unit covered by this problem code?	Yes	No

ROUTE TO SERVICE PARTS WARRANTY SALES PAGE 3 OF 3

TECHNICAL BULLETIN

SNOWMOBILE JAN 1/1992 No. S92-001

VX750S

SECONDARY CLUTCH PERFORMANCE IMPROVEMENT

INTRODUCTION

This bulletin describes secondary clutch modifications necessary to prevent the secondary clutch from binding.

PROBLEM: Inconsistent shift rpm.

SYMPTOM: Poor performance - The shift rpm is either high or low, and clutch backshifting can be slow. Standard shift rpm is 8000 - 8250. Shifting that occurs below 7800 rpm is too low and shifting above 8500 rpm is too high.

CAUSE: Binding of the secondary sliding sheave against the post and torque cam.

REMEDY: Install a new longer center bushing into the secondary sliding sheave. This requires machining with a lathe. Also, polish the spring seat (torque cam).

NOTE: Overall performance depends upon proper jetting. Check the revised Service Data dated 1-8-92 for the latest jetting recommendations.

DEALER ACTION SUMMARY

MODIFY: Any affected unit exhibiting the above symptoms.

WARRANTY: Normal warranty applies. Follow instructions in this bulletin.

PARTS REQUIRED: Yes

AFFECTED UNITS

All VX750S (89A-000101 - 002710)

SERVICE PROCEDURES

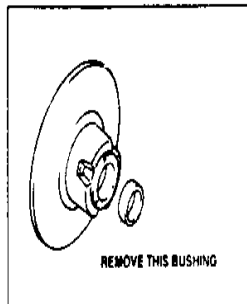
If the unit appears to have incorrect shift rpm, check the unit's tachometer against another known good tachometer. If there is a shift speed problem, proceed with the following steps.

Caution

The following procedures require accurate machining. If you do not do machining, contact a machine shop in your area.

1. Remove the secondary clutch assembly and disassemble the clutch assembly. Refer to the Service Manual (Part Number LIT-12618-01-35) if necessary.

2. Remove the standard center durakon bushing from the sliding sheave. In doing this, the bushing will be destroyed.

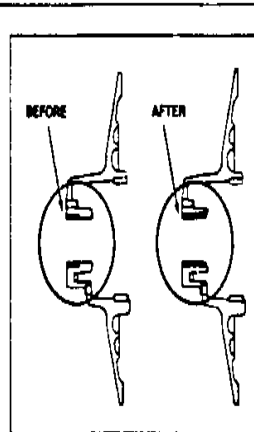


SERVICE PROCEDURES - (Cont'd)

3. Using a lathe, machine the center bushing bore of the sliding sheave all the way through as represented to the right. Actual machining specifications are provided on the last page of this bulletin. Chamfer both ends of the bore, and lightly sand the bore with 400 grit sandpaper to remove machining imperfections.

CAUTION:

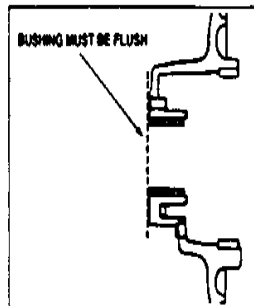
The large sliding bushing (torque cam bushing) remains in the sliding sheave during this machining process. Be careful to avoid damage to this bushing. If this bushing would be damaged during the machining of the center bushing bore, replacement would be necessary.



4. Apply blue Loctite to the outer circumference of the new center bushing. Using a press, install the bushing into the bore of the sliding sheave. Be sure that when you press the bushing in that it is in line with the bore. Press the bushing in until the bushing surface is flush with the aluminum surface on the outside of the sheave.

CAUTION:

Do not let Loctite get on the inner surface of the bushing. If any Loctite should get onto the inner surface, clean it off immediately to avoid damage to the bushing.

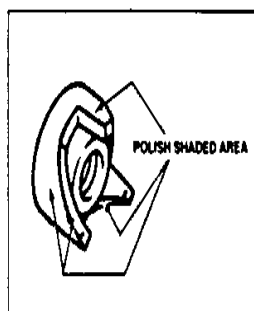


5. Polish the circumference and ramp contact surfaces of the spring seat (torque cam).

NOTE: A machine shop can do this easily. You can also do this using 600 grit wet sandpaper. Remove most of the machining marks. Then, using aluminum polish, buff the surfaces until they look like chrome.

CAUTION:

Remove as little material as possible and as evenly as possible. Uneven or excessive sanding or polishing may cause surface cupping.



SNOWMOBILE JAN 1/1992 No. S92-001

SERVICE PROCEDURES - (Cont'd)

6. Inspect the ramp shoes (plastic buttons) for wear at the point they contact the torque cam ramps. If the ramp shoes are worn, remove them and rotate them 180°, then reinstall them. This will give the polished torque cam ramps a fresh, low-friction mating surface. If the ramp shoes are badly worn, replace them.

7. Reassemble the secondary clutch. Set the preload to the recommended specification for the elevation at which the snowmobile will be used.

CAUTION:

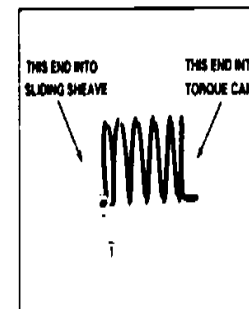
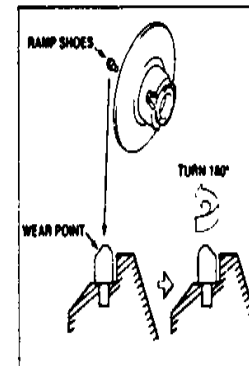
Never use lubricant on any Durakon bushing, including the new center bushing.

Be sure to install the secondary spring into the secondary clutch with the short spring catch ⚡ toward the sliding sheave.

8. Install the secondary clutch assembly and set to the proper V-belt height. Check the clutch offset and center-to-center alignment. If the V-belt has excessive wear or damage, replace it.

CAUTION:

Scrub the V-belt in warm water with a mild soap before installing it to prevent glazing.



PARTS INFORMATION

Part Number	Description	Remarks	Dealer Cost	Retail
90380-38206-XX	Center Bushing	1 required	\$12.25	\$24.50

WARRANTY INFORMATION

Yamaha will reimburse your dealership under warranty for the new bushing, and for your labor to remove and reinstall the sheave. Yamaha will also reimburse you for your labor or machine shop's charges you paid to bore the sheave, press in the new bearing and polish the torque cam surfaces.

Submit a standard warranty request with the following information:

- Use Problem Code 30.
- Put the new bearing (90380-38206-XX) as the Primary Failed Part.
- Use Job Code 7101 (Secondary Sliding Sheave Exchange, 0.5 hours).
- Then claim your machining labor as follows:

1. If you did the work, claim your time under extra labor on line 10 and explain what you did on line 11.

2. If a machine shop did some or all of the work for you, convert their bill into hours at your labor rate and enter the time under extra labor. Enter the name of the machine shop on line 11.

Example: Demco's Machine Shop charges you \$30.00 for the work. Your labor rate is \$25. So 30.00 divided by 25 equals 1.2 hours. Put this amount under extra labor. Write "Demco's Machine Shop, receipt number B3211" on line 11.

NOTE: Normally a sublet labor receipt would be required for any outside work. However, to expedite your payment on this particular warranty request, please use the "extra labor" method. Then you won't need to mail the receipt. Keep the receipt on file until the request is paid. We may ask to see it.

• On lines 13, 14, and 15, write "Per Bulletin S92-001."

YAMAHA

30

9038038206XX

7101

ENTER MACHINING COST HERE IN HOURS AND TENTHS

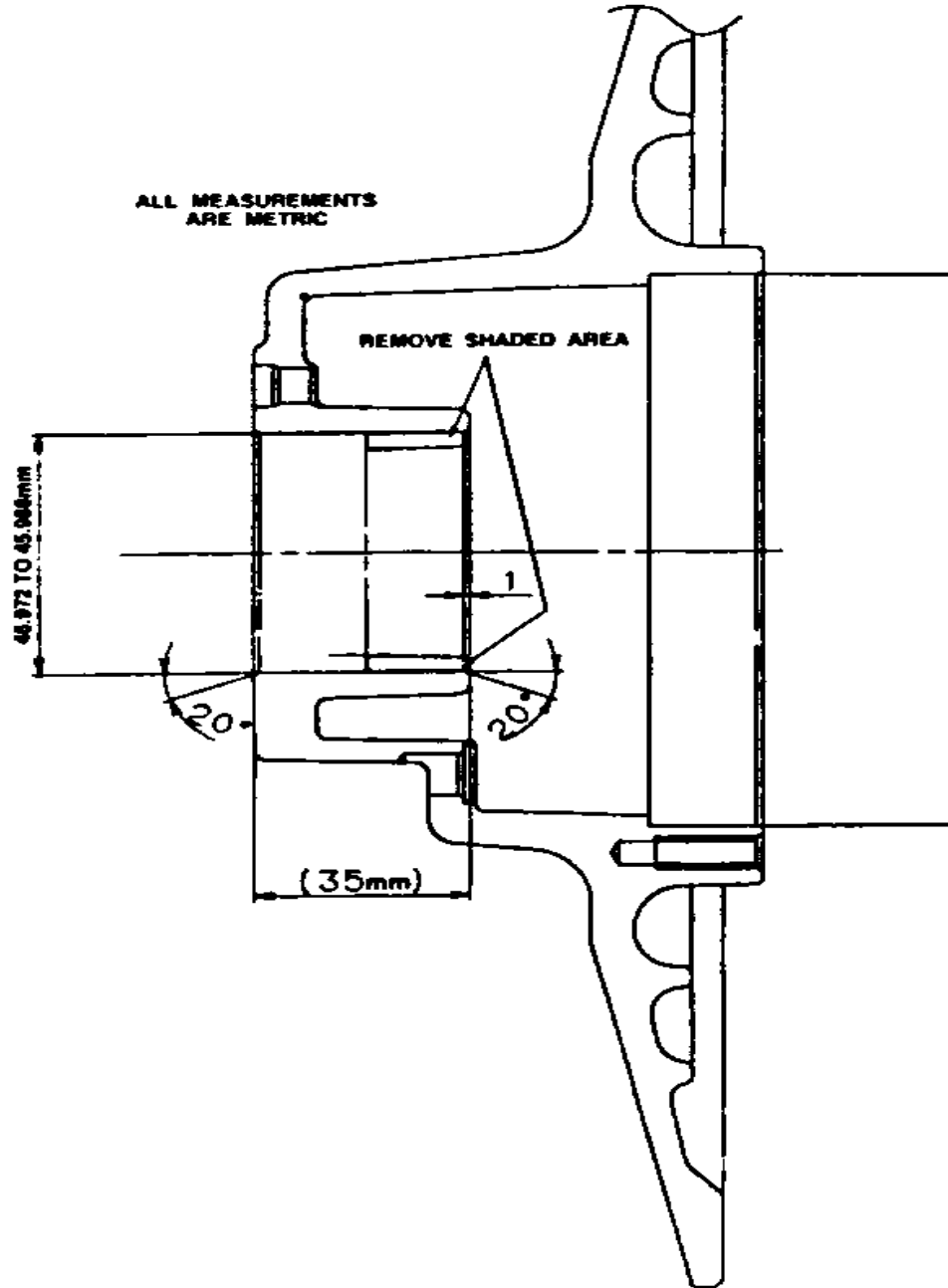
PER BULLETIN S92-001

PER BULLETIN S92-001

PER BULLETIN S92-001

TECHNICAL BULLETIN

SNOWMOBILE DATE 1/10/92 No. S92-001



ALL MEASUREMENTS ARE METRIC

REMOVE SHADED AREA

46.872 TO 45.966mm

(35mm)

ROUTE TO SERVICE PARTS WARRANTY SALES PAGE 3 OF 5

TECHNICAL BULLETIN

SNOWMOBILE DATE 12.8.91 No. S91-014

VX750S DRIVE TRACK STUDDING PROCEDURES

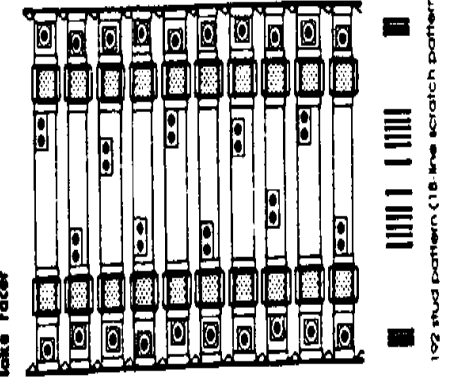
INTRODUCTION
This bulletin provides specific information about drive track studding patterns and Woody's traction products which are endorsed by Yamaha for racing purposes.

AFFECTED UNITS
VX750S All

ADDITIONAL INFORMATION
NOTE: The following combinations of track patterns and tractions products are endorsed by Yamaha when used in conjunction with the following:
Tunnel Protector
Rear Heat Exchanger Protector
4th Wheel Kit
Snow Flap Tether

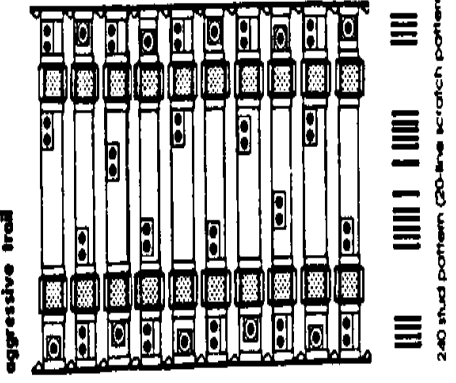
USAGE	STUDS	WASHERS	COMMENTS	PATTERN
Trail	Qty 144 0.875" Gold Diggers	Qty 48 Bonder/ Studmate Qty 48 Ss. Washers Qty 144 7mm T-nuts	Place Bonder/Studmate on center ball and 2 square washer on outside of ball, every other ball. Use either 4" Trail Blazer Carbide Ski Runner or Stock 4" Carbide Ski Runner	See Illustration A on the next page for Trail Pattern
Aggressive Trail	Qty 240 0.875" Gold Diggers	Qty 96 Bonder/ Studmate Qty 48 Ss. Washers Qty 240 7mm T-nuts	Place Bonder/Studmate in center ball plus every other outside ball. Place square plate in every other outside ball. Use either the 4" or 6" Trail Blazer Carbide Ski Runner	See Illustration B on the next page for Aggressive Trail Pattern
Lake Racing	Qty 192 0.875" Extractor	Qty 48 Bonder/ Studmate Qty 96 Ss. Washers Qty 192 7mm T-nuts	Place Bonder/Studmate in the center ball. Use the 6" Trail Blazer Carbide Ski Runner	See Illustration C on the next page for Lake Racing Pattern

Illustration C
Lake racer



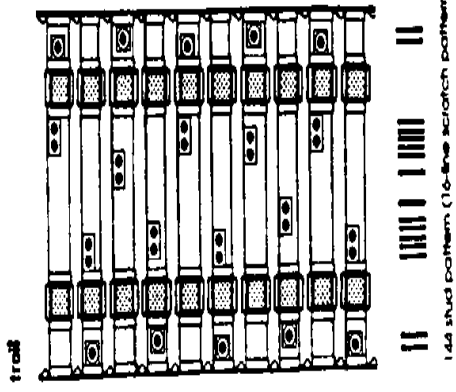
18 line stud pattern (18 line scratch pattern)

Illustration B
aggressive trail



20 line stud pattern (20-line scratch pattern)

Illustration A
trail



16 line stud pattern (16-line scratch pattern)

IMPORTANT: Study the chosen pattern carefully. The lines below each track illustration represent that particular track's scratch pattern.

TECHNICAL BULLETIN

SNOWMOBILE DATE: 12-8-91 No. SP1-011

SERVICE PROCEDURES

Always follow the traction products manufacturers' installation directions carefully. Their experience and testing provide a proven method for installing studs without damage to the track.

move the tool. Put a drop of No. 262 or No. 271 Red Loctite® on the threads of the studs and T-nuts. Torque each stud to 70-80 in-lb and let dry for 24 hours at room temperature.

5. Check all the studs carefully after each trip.

NOTE: Drive track deflection should be 10-15mm at 10kg (22 lb) pull.

WARNING

A broken track, track fittings or debris thrown by the track could be dangerous to an operator or bystanders. Do not allow anyone to stand directly behind the snowmobile.

1. Mark the appropriate pattern on the track. Carefully study each pattern illustration in the preceding section.

2. Drill a 1/8" pilot hole for each stud.

3. Heat a 9/32" probe and enlarge the pilot hole. (This will expand the hole while melting the track cord together for prolonged track life).

4. Using the Woody's T-Nut Tool, pull the T-Nut into place. Hold the T-Nut in place and re-

PARTS INFORMATION

For the preceding service procedures, the following parts, tools, and Woody's traction

products can be ordered from Yamaha Parts and Accessories (YPAD).

PART NUMBER	DESCRIPTION	REMARKS	DLR COST	RETAIL
SHP-TUNL2-PR-01	Tunnel Protector	Kit	\$29.95	\$49.95
BBA-21976-00-00	Rear Wheel Exch. Protector	Each, 2 req'd	18.00	32.00
SHP-TCASW-30-50	Steel Square Washer	24 pcs.	3.45	5.45
SHP-TCAML-30-00	Steel Bender/Sludmate	12 pcs.	7.50	11.75
SHP-TCATL-30-20	7mm T-Nut	48 pcs.	0.95	13.95
SHP-TCGDC-07-50	0.875" Cold Digger	24 pcs.	26.45	45.35
SHP-TCGDM-07-50	0.875" Moulded Gold Digger	48 pcs.	55.95	85.95
SHP-TCGDW-07-50	0.875" Arrow Wedge	24 pcs.	45.95	69.95
SHP-TCGEL-07-57	0.875" Elevator	48 pcs.	21.95	33.95
SHP-TCTVY-03-50	4" Trail Blazer Ski Runner	Set of 2	40.75	62.75
BBA-23751-00-101	4" Carbide Ski Runner	Each, 2 req'd	19.40	32.35
SHP-TCTVY-03-51	6" Trail Blazer Ski Runner	Set of 2	46.50	74.95
SHP-TCAST-40-00	T-Nut Tool	Each	0.95	13.75
SHP-TCATT-40-70	T-Nut Holder, Track Saver Tool	Each	10.95	16.85
SHP-FLAP2-78-7H	Snow Flap Tether*	Each, 2 req'd	T.B.A.	T.B.A.
SHP-YBRWZ-04-00	4th Rear Wheel Kit**	Kit	T.B.A.	T.B.A.

*You may also construct your own Snow Flap Tether. Call your RTA for instructions.

**The 4th Wheel Kit is also available from Bender Racing at (716) 941-5010.

WARRANTY INFORMATION

The traction products parts are covered by Woody's normal manufacturers' warranty program. A copy of this warranty policy can be

found in the Woody's catalog. Because the above procedures are for racing purposes, no Yamaha warranty applies.

TECHNICAL BULLETIN

DATE: 9/15/92 No. S92-011

VX750S

CLUTCH UPDATE

1 Level and Mid Elevations Units (Up to 5000 Feet)

ACTION

It describes primary and secondary modifications necessary to improve performance on the VX750S.

It: Poor clutch performance.

It: Inconsistent shift RPM, sluggish belt slippage, poor acceleration.

CAUSE: Incorrect clutch calibration and binding of the secondary clutch.

REMEDY: Install the Clutch Update Kit and associated parts as instructed in this bulletin.

ACTION SUMMARY

Any affected unit exhibiting the above symptoms. Modify any unaid unit in your inventory.

NOTIFY CUSTOMER: Yes, A letter explaining that authorized Yamaha dealers have updated Vmax-4 specifications is being mailed to each registered customer from Yamaha (a copy is attached).

REQUIRED: Yes

ITY: Service-Par-Bulletin. Follow the instructions in the Warranty Information section of this bulletin.

ED UNITS

IS (88A-000101 - 002710)

This bulletin applies specifically to units primarily between 0 - 5000 ft elevation to Technical Bulletin S92-010 for

update information on units primarily run at elevations between 5000 - 10000 ft.

PROCEDURES

Before proceeding with the following steps, refer to the 1992 Vmax-4 Clutch Update Kit. Make sure you read Chapter 4 of the 1992 service manual (LIT-12018-01-01750S microfiche Service Manual) and have a service manual handy as you do this job. Also, make sure you have all the tools required to remove and replace the primary and secondary sheaves. The tools are listed in the above mentioned section of the service manual and in special file SP1-010 and S92-007.

The procedures in this bulletin are in addition to those detailed in the instructions in the service manual.

Clutch

Remove

Remove and disassemble the primary clutch (primary sheave assembly) by following the procedures in the service manual. Remove

the primary clutch cap and spring and then separate the spider from the fixed sheave using the separator tool. Refer to the service manual.

2. Remove the plastic sliders, weight pins, washers, and screws, and the conical center bushing from the sliding sheave. You will use these parts again with the new sliding sheave.

NOTE: If the center conical bushing is frozen into the sliding sheave, loosen it by applying heat to the sliding sheave with a heat gun. If the conical bushing is damaged, replacement is necessary. Refer to the service manual if replacement is required. The center conical bushing is not included in the kit and must be ordered separately. Refer to the Parts Information section.

3. Remove the roller pins and roller assembly from the spider.

Service Procedures (Cont'd.)

Preparation for Assembly

1. Remove the bushings from the rollers and install the new Duralon bushings. Use the new YXR Clutch Bushing Jig Kit (Technical Bulletin S92-007).

2. With a ball-peen hammer, install the steel rivets into the outside hole in each new weight from the kit.

NOTE: If done carefully, a press can also be used to install the rivets into the new weights.

3. Using the YXR Clutch Bushing Jig Kit, remove the Vespal bushings from the new weights and install the Duralon bushings.

4. Clean and inspect the plastic sliders and roller brass bushing.

Remove any burrs from the weight and roller pins.

Reassembly

1. Install the roller assemblies into the spider. As shown in the service manual, install the bolts so that they are all facing in the same direction.

2. Install the following parts into the sliding sheave:

- Plastic Sliders
 - Center bushings
 - Weight pins, washers, weight assemblies, pin bolts/nuts, and set screws.
- Make sure to install the weight pin bolts in the same direction.

3. Reassemble the primary clutch using the new fixed sheave and primary spring from the kit. Pay close attention to the procedures in the service manual. Make sure to use Loctite® in the proper places and follow all torque recommendations listed in the service manual. Pay close attention to the "X" mark and proper clutch cap alignment procedures in the service manual.

4. Clean the taper area on the primary sheave and countershaft then install the primary clutch assembly as shown in the service manual. Make sure to properly torque the primary clutch bolt twice as instructed in the service manual.



TECHNICAL BULLETIN

Service Procedures (Cont'd.)

Secondary Clutch

Study the following service procedures before starting the Secondary Clutch modifications.

Disassembly

1. Remove the secondary clutch (secondary sheave assembly).
2. Remove the circlip, washer, torque cam (spring seat), and spring.
3. Remove the secondary sliding sheave.

Preparation for Reassembly

Important! Inspect the secondary sliding sheave small bushing to see if the originally installed 18mm wide bushing has been replaced with the updated 32.5mm bushing as instructed in Technical Bulletin S92-001.

- If the original bushing (18mm) has not been replaced with the wider 32.5mm bushing, proceed with the machining instructions in Technical Bulletin S92-001.

- If the new 32.5mm bushing is already installed in the sliding sheave, proceed with the following steps:

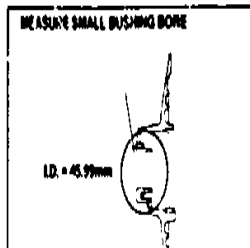
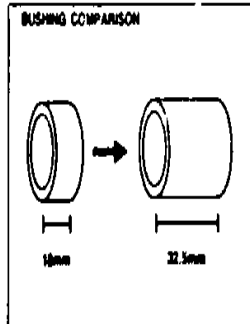
1. Remove both the large and small bushings from the secondary sliding sheave.

NOTE: For easier removal, cut slots in the bushing using a hacksaw blade and then tap out the bushing.

2. Using a cylinder bore gauge, measure the small bushing bore diameter to make sure the machining mentioned in Technical Bulletin was done correctly. The maximum allowable bore diameter is 45.98mm (1.811 inch). If the bore size is correct, install the new small and large bushing from the kit as instructed in the following step 3.

CAUTION

Replace the secondary sliding sheave assembly if the bore size was machined too large. Otherwise, the new small bushing from the kit will fall out during operation. A new secondary sliding sheave already has the new bushings and ramp shoes installed, so the following steps concerning these parts can be omitted.



PAGE 3 OF 8

Service Procedures (Cont'd.)

3. Apply Loctite® #271 to the outer circumference of the small and large bushing included in the kit and install them into the sliding sheave using a press.

4. Check the material and condition of the ramp shoes.

NOTE: As a production change, the material of the ramp shoes was changed from nylon to PEEK. The nylon ramp shoes are a translucent white color while the PEEK ramp shoes are a solid off-white (almond) color. DO NOT use the nylon ramp shoes regardless of their condition.

- If the ramp shoes are nylon, remove and replace them as a set with the PEEK type.

NOTE: The new style PEEK ramp shoes are not included in the kit. Order these separately and have them on hand during any secondary clutch service.

- If the ramp shoes are of the PEEK type, remove them and rotate 180° so the unused side is against the torque cam.

5. Clean the secondary fixed sheave post, making sure it is free of grease, rust, and/or dirt.

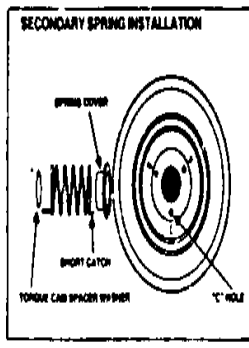
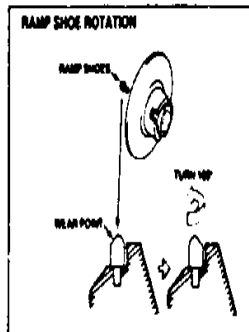
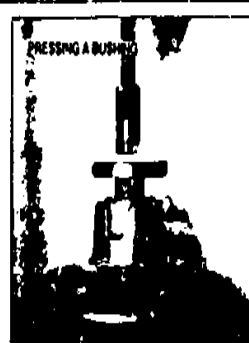
6. Remove the retainer plate from the old torque cam. You will reuse this retainer plate with the new torque cam.

Reassembly

1. Install the secondary sliding sheave assembly, following the instructions in the service manual.

2. Place the spring cover from the kit onto the short catch and of the secondary spring, then install the spring into the secondary sliding sheave. Make sure the secondary spring is installed so the short spring catch is inserted in the hole marked "C" in the sliding sheave. Install the new torque cam spacer washer from the kit. See the illustration for details.

3. Install the new torque cam from the kit. Check the fit of the new torque cam onto the original fixed sheave post, then proceed.



PAGE 4 OF 8

TECHNICAL BULLETIN

SNOWMOBILE

REV. 8/15/92

S92-011

Service Procedures (Cont'd.)

A. Press Fitting the Torque Cam

Because of close production tolerances, in some cases the new torque cam may fit onto the fixed sheave post spline so tightly that a press may be required to install the torque cam. If this is the case, proceed with the following:

- After placing the sliding sheave, spring cover, spring, and washer onto the fixed sheave, secure the sliding sheave assembly into the press and place the torque cam onto the post. Using a steel plate and spacer (such as the spacer from crankshaft puller YU-90058 or fork seal installer YM-34482), press the torque cam onto the post slightly. Make sure that the long catch on the secondary spring is inserted into the hole marked "C" on the torque cam. Before pressing the torque cam onto the post completely, preload the secondary spring by rotating the sliding sheave counterclockwise approximately 90°. Now, press the torque cam onto the post the rest of the way until about 12MM (1/2 inch) of the spline protrudes above the top of the torque cam.

- Install the retainer, washer and circlip.

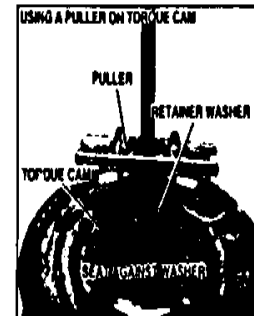
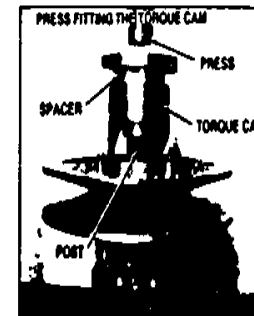
- If the torque cam is not seated flush against the retainer washer, use a general puller to pull the torque cam back out against the retainer washer. Refer to the illustration.

- Using Loctite® #242, install the retainer screws and tighten.

B. Slip Fitting the Torque Cam

If the torque cam will slide easily onto the fixed sheave post, proceed with the following assembly instructions:

- After placing the sliding sheave, spring cover, spring, and washer onto the fixed sheave, install the new torque cam by aligning the splines and the spring catch to the hole marked "C" on the torque cam. Push



PAGE 5 OF 8

Service Procedures (Cont'd.)

- Before pushing the torque cam completely onto the fixed sheave post, preload the secondary spring by rotating the sliding sheave counterclockwise approximately 90°.

- Push the torque cam on all the way, then install the retainer, retainer washer and circlip.

- Using Loctite® #242, install and tighten the retainer securing screws.

4. After assembly of the secondary clutch is complete, test the spring preload by turning the sliding sheave counterclockwise to make sure the spring catches are seated. If either spring catch dislodges, remove the torque cam and repeat Steps 2 & 3 of the Reassembly Procedures.

NOTE: If the torque cam is difficult to remove, use a general puller as discussed in Step 3, A, c).

5. Clean any dirt and/or rust off the secondary jockshaft and apply a light coat of grease.
6. Install the secondary clutch assembly as instructed in the service manual.

7. Following the procedures in the service manual, check the clutch offset and center-to-center distance. Use the new 16mm Offset Tool YS-39508-5 (Technical Bulletin S92-007) for checking clutch offset and tool YS-39508-2 (Technical Bulletin S91-010) for center-to-center.

8. Before installing the new V-Belt, check for proper belt height in the secondary clutch by wrapping the belt around the secondary clutch sheaves. Adjust the number of shims to achieve the correct V-belt height. V-belt height adjustment instructions are explained in the service manual and assembly manual.

9. Install the new V-belt.

10. For maximum performance be sure to check these normal maintenance items:

- Hyflux (side runner) condition
- Track tension and alignment
- Ski runner condition

NOTE: After the installation of Clutch Update Kit, the clutch specification of the '92 VX750S will be similar to the '93 VX750T. For alternate high altitude settings for an updated VX750S, refer to the VX750T Service Data/High Altitude Specification.

PARTS INFORMATION

The Clutch Update Kit is available from Yamaha Parts and Accessories Division (YPAD). Order enough to modify any VX750S you have sold or may still have in your inventory.

Part Number	Description	Qty	Remarks	Dealer Cost
90861-50121-KT	Clutch Update Kit	1		\$242.50
	Contents:			
	Primary Fixed Sheave	1		
	Primary Sliding Sheave	1		
	Weight Complete	3	W/Vessel Bushing Installed	
	Weight Pinset	3	13.3 Steel (3.1 gram)	
	Primary Spring	1	White/Yellow/White (25-2.25)	
	Durston Roller/Weight Bushings	6	For Ph. Roller/Weights	
	Torque Cam (Spring Seat)	1	42-37 angle, nickel coating	
	Torque Cam Washer	1	For Torque cam adjustment	
	Secondary Spring Cover	1	For reduced wear	
	Small Size Sliding Sheave Bushing	1	Optional	

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PAGE 5 OF 8

TECHNICAL BULLETIN

SNOWMOBILE MAY 1992 N. S92-011

Service Procedures (Cont'd.)

The parts below may be required for this conversion. With the exception of the secondary sliding sheave, have a sufficient supply on hand before performing the modification.

Part Number	Description	Qty	Remarks	Dealer Cost
89A-1788-10-00	PEEK Ramp Shoe	3	Improved Ramp Shoe Button (the '92 style sliding sheave)	TBA
90289-41031-00	Primary Bushing	1	Conical center bushing (for primary sliding sheave)	\$ 12.25
89A-1787-10-00	Secondary Sliding Sheave	1	Replace only if original was machined improperly (Requires RTA authorization)	\$110.40

NOTE: Some quantities of other clutch wear parts should also be in your inventory, such as rollers, sliders, V-belts, bolts, plastic washers, set screws, weight and roller pins, etc. Check your parts inventory and order any necessary parts from YPAD if your stock is depleted or low.

Both types of Loctite® required for this job are normal shop supplies, and available from YPAD. See your YPAD Accessories Catalog for part numbers.

NOTE: Parts on this Technical Bulletin are not eligible for the Snowmobile Parts Dating Program.

WARRANTY INFORMATION

This warranty repair is authorized for all units which are primarily used between 0 - 5000 feet elevation, regardless of ownership.

To receive credit for the cost of the Clutch Update Kit and the labor to install it, submit a standard Service-Per-Bulletin warranty request. The labor allowance for this modification is 2.0 hours. The Problem Code is 90LD1. For more information about Service-Per-Bulletin warranty requests, read Chapter 11, Section I of your Warranty Handbook.

YAMAHA

90LD1

If additional parts (such as primary conical center bushings, secondary ramp shoes, etc.) with the exception of the secondary sliding sheave) are required, as discussed in the service procedures, submit a second standard warranty request for parts only. Complete the request as usual. However, be sure to insert the date of this bulletin, 8-15-92, as the failure date. For Reason for Delay (line 7), as well as for problem, defect, and repair (lines 13, 14, 15), fill in this bulletin's number, S92-011.

All of these additional parts warranty requests must be submitted by March 31, 1993. Requests received after this date will not be considered.

NOTE: These additional parts warranty requests are covered as a factory authorized campaign under the normal product warranty and are not eligible under Yamaha Extended Service (Y.E.S.)

NOTE: If the secondary sliding sheave must be machined to complete this modification, follow the instructions on Technical Bulletin S92-001 for reimbursement. If the secondary sliding sheave requires replacement, call your Regional Technical Advisor and request replacement authorization.

V-BELTS: Installing a new V-belt is recommended with the installation of the Clutch Update Kit. Because V-belts are considered normal wear items, and in some cases, already have a season of wear, replacement cost is the customer's responsibility.

As with all warranty repairs, tag and hold the parts removed for 90 days from the date you submit the warranty request(s).

YAMAHA Warranty Request

Model: _____

Serial: _____

Year: _____

Problem Description: _____

Reason for Delay: _____

Part Number: _____

Quantity: _____

Unit Price: _____

Total: _____

Remarks: _____

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L-3

TECHNICAL BULLETIN



YAMAHA MOTOR CORPORATION, U.S.A.

6555 KATELLA AVENUE - CYPRESS, CALIFORNIA 90630
 MAIL ADDRESS: P.O. BOX 6555, CYPRESS, CALIFORNIA 90630
 PHONE: (714) 761-7300

Dear Yamaha Vmax-4 Owner:

Last season, American Snowmobiler and Snowgoer magazines both picked the Vmax-4 as Snowmobile of the Year.

This year we want to be even better! We have just supplied your Yamaha dealer with the most up-to-date information about the Vmax-4. The latest tuning specifications. The latest clutch information. And many other tips your dealer can use to help you get the most from the best snowmobile around.

Your Vmax-4 deserves a good pre-season service of normal maintenance items. While your dealer is performing this service for you, he will also perform any applicable updates for you that are covered by warranty.

Please call your dealer as soon as possible to arrange an appointment for your pre-season service. He will need to schedule time for the update work, and for any other work you need to have performed. He'll also want to be sure he has all the parts on hand before you come in. Please don't delay, because some update work will only be eligible for warranty coverage when performed before March 31, 1993.

Thank you again for choosing a Yamaha Vmax-4, the most exciting snowmobile ever produced. Now get ready for an even more exciting ride this year!

Sincerely,
 Yamaha Service Division

ROUTE TO: SERVICE PARTS WARRANTY SALES WINDSHIELD

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TECHNICAL BULLETIN

SNOWMOBILE JAN 9/15/92 A- S92-010

VX750S CLUTCH UPDATE High-Altitude Elevation Units (5000 to 10,000 Feet)

INTRODUCTION

This bulletin describes primary and secondary clutch modifications necessary to improve high altitude clutch performance on the VX750S.

PROBLEM: Poor clutch performance and poor V-belt life.

SYMPTOM: Inconsistent shift rpm, sluggish backshift, and poor V-belt life.

CAUSE: Binding of the secondary clutch and incorrect gearing.

REMEDY: Install the parts recommended in this bulletin.

DEALER ACTION SUMMARY

MODIFY: Any affected unit exhibiting the above symptoms. Modify unsold units in your inventory.

PARTS REQUIRED: Yes

WARRANTY: Service-Per-Bulletin. Follow the instructions in the Warranty Information section of this bulletin.

NOTIFY CUSTOMER: Yes. A letter explaining that authorized Yamaha dealers have updated Vmax-4 specifications is being mailed to each registered customer from Yamaha (a copy is attached).

AFFECTED UNITS

All VX750S (89A-000101 - 002710)

NOTE: This bulletin applies specifically to units operated primarily between 5000 and 10,000 ft. elevation. Refer to Technical Bulletin S92-011 for update for units used mainly at elevations below 5000 ft.

SERVICE PROCEDURES

NOTE: Before proceeding with the following steps, make sure you first watch the 1992 Vmax-4 Clutch Update video, and read Chapter 4 of your VX750S Service Manual (LT-12618-01-35) or the VX750S microfiche Service Manual. Keep the service manual handy as you do the modification. Also, make sure you have all the special tools required to perform the modifications described in this bulletin. These tools are listed in the above mentioned chapter of the service manual and in special tool bulletins S91-010 and S92-007. The procedures in this bulletin are in conjunction with the Service Manual.

Primary Clutch

Disassembly

1. Remove the primary clutch from the unit according to the service manual.
2. Remove the primary clutch cap and spring.
3. Remove the roller and weight assemblies.

Preparation for Assembly

1. Remove the bushings from the roller and weight assemblies. Use the new YXR Clutch Bushing Jig Kit (Technical Bulletin S92-007). Install the new Duralon bushings with the jig.

Service Procedures (Cont'd.)

3. Remove any burrs from the pins before re-assembly.

Reassembly

1. Install the roller and weight assemblies.

NOTE: As shown in the service manual, install the bolts so that they are all facing in the same direction.

2. Reassemble the primary clutch according to the service manual.

NOTE:

- Refer to the revised service data for the primary spring specification.
- Pay close attention to the procedures in the service manual. Make sure to use Loctite® in the proper places and follow all torque recommendations listed in the service manual. Pay close attention to the "X" mark and proper clutch cap alignment procedures in the service manual.

3. Clean the taper area on the primary sheave and countershaft. Then install the primary clutch assembly as shown in the service manual. Make sure to properly torque the primary clutch bolt twice as instructed in the service manual.

Secondary Clutch

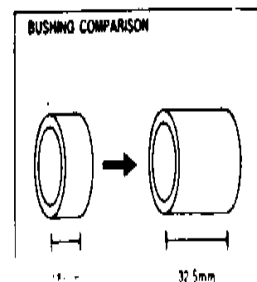
Study the following service procedures before starting the Secondary Clutch modifications.

Disassembly

1. Remove the secondary clutch (secondary sheave assembly).
2. Remove the circlip, washer, torque cam (spring seat), and spring.
3. Remove the secondary sliding sheave.

Preparation for Reassembly

Important! Inspect the secondary sliding sheave small bushing to see if it's originally installed 18mm wide bushing has been replaced with the updated 32.5mm bushing as instructed in Technical Bulletin S92-001. If the original bushing (18mm) has not been re-



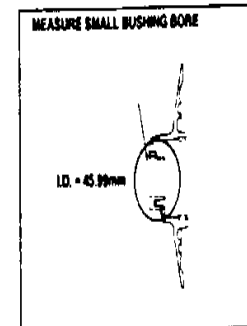
Service Procedures (Cont'd.)

1. If the unit has not been operated, but Technical Bulletin S92-001 was performed, go to step 5.
2. If the unit has been operated, remove both the large and small bushings from the secondary sliding sheave, then go to step 3.

NOTE: For easier removal, cut slots in the bushing using a hacksaw blade and then tap out the bushing.



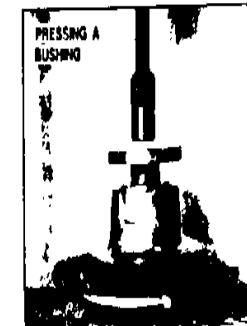
3. Using a cylinder bore gauge, measure the small bushing bore diameter to make sure the machining mentioned in Technical Bulletin was done correctly. The maximum allowable bore diameter is 45.99mm (1.811 inch). If the bore size is correct, install the new small and large bushing as instructed in the following step 4.



CAUTION
Replace the secondary sliding sheave assembly if the bore size was machined too large. Otherwise, the new small bushing may fall out during operation. A new secondary sliding sheave already has the new bushings and ramp shoes installed, so go to step 6.

4. Apply Loctite® #271 to the outer circumference of the small and large bushing and install them into the sliding sheave using a press. Some heat will ease installation of the bushings.

5. Check the material and condition of the ramp shoes.



TECHNICAL BULLETIN

Service Procedures (Cont'd.)

NOTE: As a production change, the material of the ramp shoes was changed from nylon to PEEK. The nylon ramp shoes are a translucent white color, while the PEEK ramp shoes are an off-white (almond) color. DO NOT use the nylon ramp shoes regardless of their condition.

- If the ramp shoes are nylon, remove and replace them as a set with the PEEK type.
- If the ramp shoes are of the PEEK type, remove them and rotate 180° so the unused side is against the new torque cam.

6. Clean the secondary fixed sheave post, making sure it is free of grease, rust, and/or dirt.

7. Remove the retainer plate from the old torque cam. You will reuse this retainer plate with the new torque cam.

Reassembly

1. Install the secondary sliding sheave assembly onto the fixed sheave, following the instructions in the service manual.

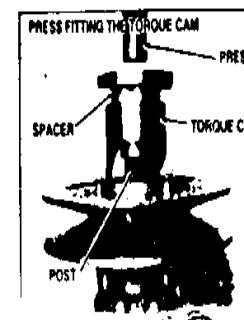
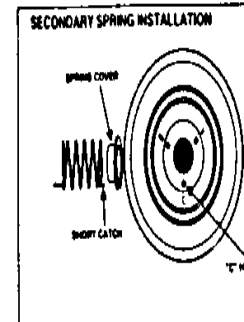
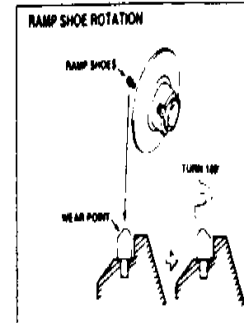
2. Place the spring cover onto the short catch end of the secondary spring, then install the spring onto the secondary sliding sheave. Make sure the secondary spring is installed so the short spring catch is inserted in the hole marked "C" in the sliding sheave.

3. Install the new torque cam. Refer to the revised Service Data specifications for proper torque cam selection. Check the fit of the new torque cam onto the original fixed sheave post, then proceed.

A. Press Fitting the Torque Cam

Because of close production tolerances, in some cases the new torque cam may initially fit onto the fixed sheave post so tightly that a press may be required to install the torque cam. If this is the case, proceed with the following:

- a) After placing the sliding sheave, spring cover, and spring, onto the fixed sheave as instructed in Step 2, secure the sliding sheave assembly into the press and place the torque cam onto the post. Using a steel plate and spacer (such as the spacer from crankshaft puller YU-90059 or fork seal installer YM-34482), press the torque cam onto the post.



TECHNICAL BULLETIN

Service Procedures (Cont'd.)

Service Procedures (Cont'd.)

secondary spring is inserted into the hole marked "3" on the torque cam. Before pressing the torque cam onto the post completely, preload the secondary spring by rotating the sliding sheave counterclockwise approximately 90°. Now, press the torque cam onto the post the rest of the way until about 12mm (1/2 inch) of the spine protrudes above the top of the torque cam.

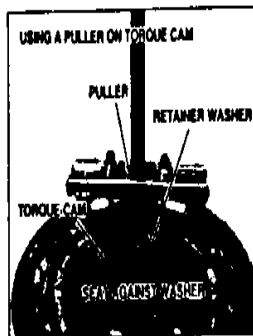
- b) Install the retainer, washer and circlip.
- c) If the torque cam is not seated flush against the retainer washer, use a general puller to pull the torque cam back out against the retainer washer. Refer to the illustration.
- d) Using Loctite® #242, install the retainer screws and tighten.

B. Slip Fitting the Torque Cam

If the torque cam will slide easily onto the fixed sheave post, proceed with the following assembly instructions:

- a) After placing the sliding sheave, spring cover, and spring onto the fixed sheave as instructed in step 2, install the new torque cam by aligning the spines and the spring catch to the hole marked "3" on the torque cam. Push the torque cam onto the post just enough to engage the spring catch.
- b) Before pushing the torque cam completely onto the fixed sheave post, preload the secondary spring by rotating the sliding sheave counterclockwise approximately 90°.
- c) Push the torque cam on all the way, then install the retainer, retainer washer and circlip.
- d) Using Loctite® #242, install and tighten the retainer securing screws.

4. After assembly of the secondary clutch is complete, test the spring preload by turning the sliding sheave counterclockwise to make sure the spring catches are seated. If the either spring catch dislodges, remove the



CAUTION:

Never allow the sliding sheave to snap back freely. This can damage the ramp shoes.

5. Clean any dirt and/or rust off the secondary jackshaft and apply a light coat of grease.
6. Install the secondary clutch assembly as instructed in the service manual.
7. Following the procedures in the service manual, check the clutch offset and center-to-center distance. Use the new 16mm Offset Tool YS-39508-5 (Technical Bulletin S92-007) for checking clutch offset and tool YS-39508-2 (Technical Bulletin S91-010) for center-to-center.
8. Before installing the new V-Belt, check for proper belt height in the secondary clutch by wrapping the belt around the secondary

clutch sheaves. Adjust the number of shims to achieve the correct V-belt height. V-belt height adjustment instructions are explained in the service manual and assembly manual.

9. Install the new V-belt.
10. For maximum performance, be sure to check these normal maintenance items:
 - Hyflex (slide runner) condition
 - Track tension and alignment
 - Ski runner condition

Gearing

Drain the chain case oil, then remove the chain case cover. Check the gearing setting for the intended elevation, referring to the revised Service Data (dated 9/1/92) for recommendations.

PARTS INFORMATION

The clutch performance update parts are available from Yamaha Parts and Accessories Division. Order enough to modify any VX750S you have sold or may still have in your inventory.

The following parts will be used on all units:

Part Number	Description	Qty.	Remarks	Dealer Cost
90380-08221-00	Duralon Weight/Roller Bushings	6		\$ 2.80
89A-17684-9A-00*	Torque Cam (nickel plating)	1	30" for 5000 to 8000 ft.	TBA
89A-17684-8A-00*	Torque Cam (nickel plating)	1	30" for 7000 ft. and above	TBA
8AX-17674-00-00	Secondary Spring Cover	1	Prevents wear	6.30

*Choose the appropriate Torque Cam for the altitude.

The following additional parts may be needed:

Part Number	Description	Qty.	Remarks	Dealer Cost
90380-38220-00	Secondary Small Bushing (Duralon)	1	Width 32.5	9.10
90380-96207-00	Secondary Large Bushing (Duralon)	1		23.00
89A-17688-10-00	PEEK Ramp Shoe	3		TBA
89A-17670-10-00	Secondary Sliding Sheave Assy.	1	Replace only if original was machined improperly	110.40
90281-08019-00	Aluminum Weight Pivot	3	5000 to 8000 ft.	0.35
89A-47587-70-00	3/77 Driven Gear	1	5000 ft. and above	23.10
94880-03068-00	58L Chain	1	5000 ft. and above	47.25
89A-17641-00-00	V-Belt	1	Replacement recommended on units in use	48.95

TECHNICAL BULLETIN

Warranty Information (Cont'd.)

Parts Information (Cont'd.)

NOTE: You should have the appropriate jets on hand to setup any unsold units for the intended altitude. Some quantities of clutch wear parts should also be in your inventory, such as rollers, sliders, V-belts, bolts, plastic washers, set screws, weight and roller pins. Check your parts inventory and order any necessary parts from YPAD if your stock is depleted or low.

Both types of Loctite® required for this job are normal shop supplies and available from YPAD. See your YPAD Accessories Catalog for part numbers.

NOTE: Parts on this technical bulletin are not eligible for the Snowmobile Parts Dating Program.

WARRANTY INFORMATION

This warranty repair is authorized for all units which are usually operated in high elevation (5000 feet and above), regardless of ownership.

To receive credit for the cost of the primary clutch Duralon bushings, the torque cam and the secondary spring cover, and the labor to update the clutches, file a standard service-per-bulletin warranty request. The labor allowance is 1.2 hours. Use Problem Code 90LD2. For more information about Service-Per-Bulletin warranty requests, read Chapter 11, Section I of your Warranty Handbook.

NOTE: If a new, unsold unit must be rejected or the primary spring changed to match the latest high-altitude service data, claim parts reimbursement on the High-Altitude Compensation form, not a warranty request.

(Warranty Information continued on following page.)

If other parts were required, such as replacement of the large and small secondary bushings, PEEK ramp shoes, and gearing components as discussed in the service procedures, submit a second standard warranty request for parts only. Complete the request as usual. However, be sure to insert the date of this bulletin, 9-15-92, as the failure date. For Reason for Delay (line 7), as well as Problem, Defect, and Repairs (lines 13, 14, and 15), fill in this bulletin's number, S92-010.

All of these additional-parts warranty requests must be submitted by March 31, 1993. Requests received after this date will not be considered.

NOTE: These additional-parts warranty requests are covered as a factory-authorized campaign under the normal product warranty and are not eligible under Yamaha Extended Service (Y.E.S.).

NOTE: SECONDARY SLIDING SHEAVE: If the secondary sliding sheave must be machined to complete this modification, follow the instructions on Technical Bulletin S92-001 for reimbursement. If the secondary sliding sheave is damaged and requires replacement, call your Regional Technical Advisor and request replacement authorization.

V-BELTS: Installing a new V-belt is recommended with the installation of these clutch performance update parts. Because V-belts are considered normal wear items and, in most cases already have a season of wear, replacement cost is the customer's responsibility.

As with all warranty repairs, tag and hold the parts removed for 90 days from the date you submit the warranty request.

TECHNICAL BULLETIN

SNOWMOBILE

DATE 9/15/92

NO. S92-010



YAMAHA MOTOR CORPORATION, U.S.A.

8555 KATELLA AVENUE • CYPRESS, CALIFORNIA 90630

MAIL ADDRESS P.O. BOX 8555, CYPRESS, CALIFORNIA 90630

PHONE: (714) 781-7300

Dear Yamaha Vmax-4 Owner:

Last season, *American Snowmobiler* and *Snowgoer* magazines both picked the Vmax-4 as Snowmobile of the Year.

This year we want to be even better! We have just supplied your Yamaha dealer with the most up-to-date information about the Vmax-4. The latest tuning specifications. The latest clutch information. And many other tips your dealer can use to help you get the most from the best snowmobile around.

Your Vmax-4 deserves a good pre-season service of normal maintenance items. While your dealer is performing this service for you, he will also perform any applicable updates for you that are covered by warranty.

Please call your dealer as soon as possible to arrange an appointment for your pre-season service. He will need to schedule time for the update work, and for any other work you need to have performed. He'll also want to be sure he has all the parts on hand before you come in. Please don't delay, because some update work will only be eligible for warranty coverage when performed before March 31, 1993.

Thank you again for choosing a Yamaha Vmax-4, the most exciting snowmobile ever produced. Now get ready for an even more exciting ride this year!

Sincerely,

Yamaha Service Division