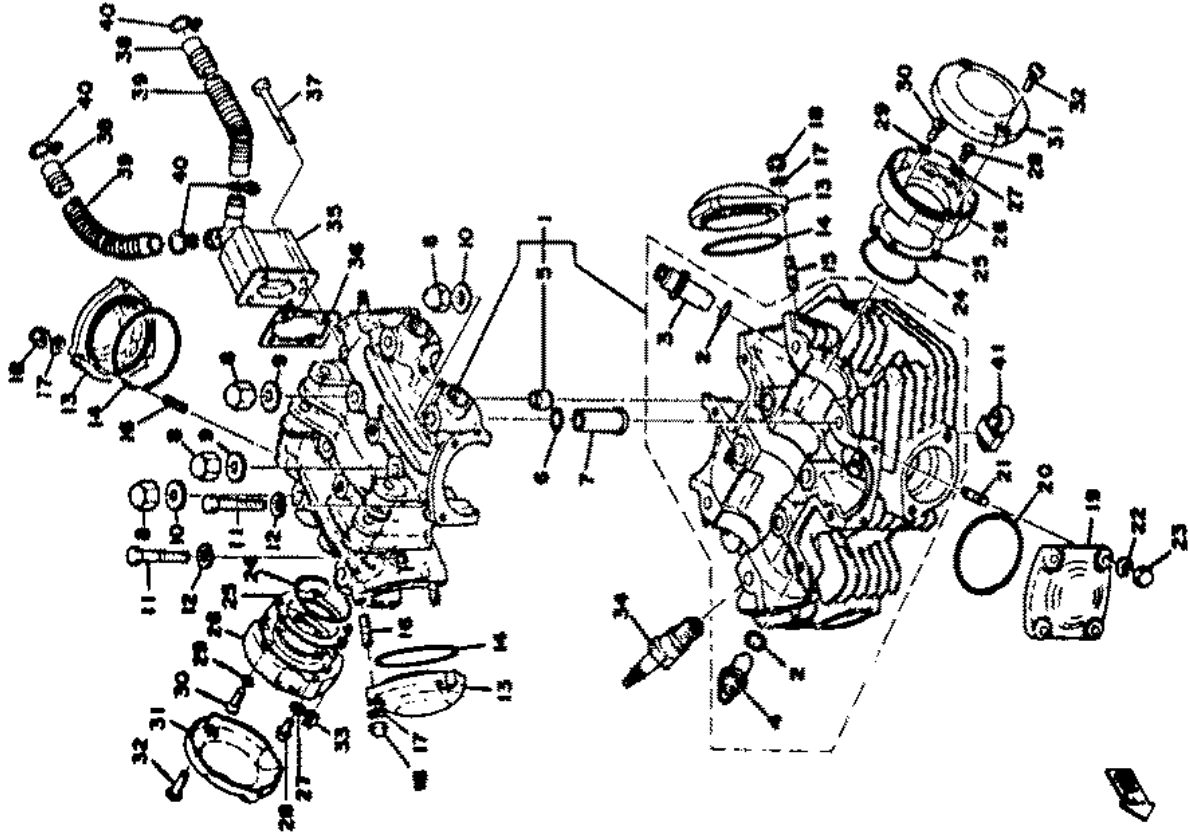


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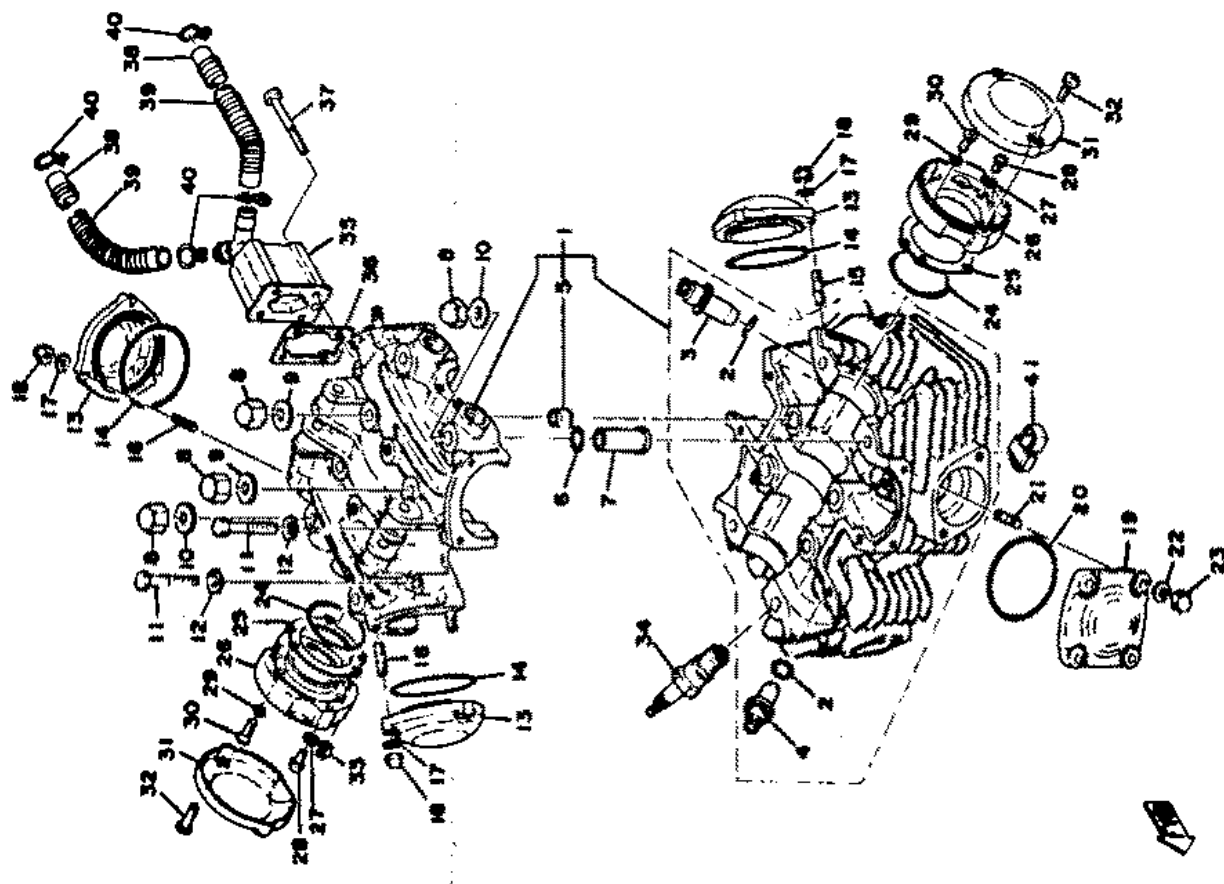
Ref. No.	Part Number	Description	DEF
1	2F0-11110-00-00	CYLINDER HEAD ASS'Y (306-11110-09)	1 1 1
2	93210-15151-00	. O-RING (1.5-4.5)	4 4 4
3	341-11133-11-00	. GUIDE, intake valve (1st O.S.) (256-11133-11).....	2 2 2
4	258-11133-21-00	. GUIDE, intake valve (2nd O.S.)	2 2
5	341-11134-11-00	. GUIDE, exhaust valve (1st O.S.) (256-11134-11).....	2 2 2
6	256-11134-21-00	. GUIDE, exhaust valve (2nd O.S.)	2 2
7	91830-24016-00	. PIN, dowel (12.3-15-16) (91800-16016)	2 2 2
8	93210-12152-00	O-RING (1.8-11.5).....	4 4 4
9	256-11199-00-00	SLEEVE, cylinder head cover	4 4 4
10	90176-10008-00	NUT (256-11171-00).....	8 8 8
	2F0-00000-20-00	GASKET KIT.....	S Kit
	3G1-W0001-00-XX	TOP END GASKET KIT.....	S Kit
9	90201-10131-00	WASHER (256-11174-00)	4 4 4
10	90210-10004-00	WASHER, seal (256-11173-02)	4 4 4
11	97321-08060-00	BOLT, hexagon.	4 4 4
12	92903-08200-00	WASHER, plain	4 4 4
13	447-11186-00-00	COVER, cylinder head side 1	3 3 3
14	93210-62451-00	O-RING (2.8-62) (93210-62304)	3 3 3
15	90116-06017-00	BOLT, stud (256-11179-00)	3 3 3
16	90116-06238-00	BOLT, stud	6 6 6
17	92903-06600-00	WASHER, plain	9 9 9
18	92903-06200-00	WASHER, plain	9 0
19	95303-06800-00	NUT, crown	9 9 9
20	447-11185-00-00	COVER, cylinder head side 3	1 1 1
21	93210-62451-00	O-RING (2.8-62) (93210-62304)	1 1 1



SEE GRIDS J1, J2 FOR SERVICE DATA.

DEF

Ref. No.	Part Number	Description	DEF
21	90116-08150-00	BOLT, stud (802-13558-00).....	4 4 4
22	92903-08200-00	WASHER, plain.....(650D/E)	4 4
	92901-08600-00	WASHER, plate.....(650F)	4
23	95303-08800-00	NUT, crown.....	4 4 4
24	93210-45150-00	O-RING (2.3-45).....	2 2 2
25	256-11146-00-00	GASKET, breaker cover.....	2 2 2
26	256-11157-Q3-00	COVER, breaker 1.....	2 2 2
27	92903-06200-00	WASHER, plain.....	2 2 2
28	92503-06015-00	SCREW (90147-06001).....	2 2 2
29	92903-06500-00	WASHER, tooth (92901-06500)	6 6 6
30	92701-06015-00	SCREW, flat head.....	6 6 6
31	256-11158-01-00	COVER, breaker 2.....	2 2 2
	2F0-00000-20-00	GASKET KIT.....	1 KI
	3G1-W0001-00-XX	TOP END GASKET KIT.....	1 KI
32	92903-06020-00	SCREW, blind.....	4 4 4
33	90338-12044-00	PLUG, blind (256-11159-00).....	1 1 1
34	NGK-BP7ES-00-00	PLUG, spark (BP-7ES) (94701-00117).....	2 2 2
	CMP-N7Y00-00-00	PLUG, spark (N-7Y) (94701-00135)	2 2 2 U.
35	584-11108-00-00	BREATHER COVER ASS'Y.....	1 1 1
36	256-11169-01-00	GASKET, breather cover.....	1 1 1
37	91316-06060-00	BOLT, hexagon socket head.....	4 4 4
38	584-11166-00-00	PIPE, breather 1.....	2 2 2
39	90501-08046-00	SPRING, compression (256-14474-00).....	2 2 2
40	90467-14011-00	CLIP, pipe (256-11189-00).....	4 4 4
41	447-11135-00-00	PLATE, breather 3.....	1 1 1



SEE GRIDS J1, J2 FOR SERVICE DATA.

DEF

Part Number Description

Ref. No.

1	306-11310-01-00	CYLINDER (306-11311-01)	1	1	1
2	91830-24016-00	PIN, dowel (10.5-14-16) (91800-16016)	4	4	4
3	90116-10108-00	BOLT, stud (256-11361-00)	8	8	8
4	93210-82153-00	O-RING (1.5-81.5)	2	2	2
5	256-11351-01-00	GASKET, cylinder 1 (256-11351-00)	1	1	1
6	306-11181-00-00	GASKET, cylinder head	1	1	1
	2F0-00000-20-00	GASKET KIT	1	1	1
					Kit
7	97321-08035-00	BOLT, hexagon	2	2	2
8	92903-08200-00	WASHER, plain	2	2	2
9	97313-06035-00	BOLT, hexagon (97323-06035)	1	1	1
10	92903-06200-00	WASHER, plain	1	1	1
11	256-11395-02-00	HOLDER	2	2	2
12	90430-11033-00	GASKET (256-11397-01)	2	2	2

XS650D

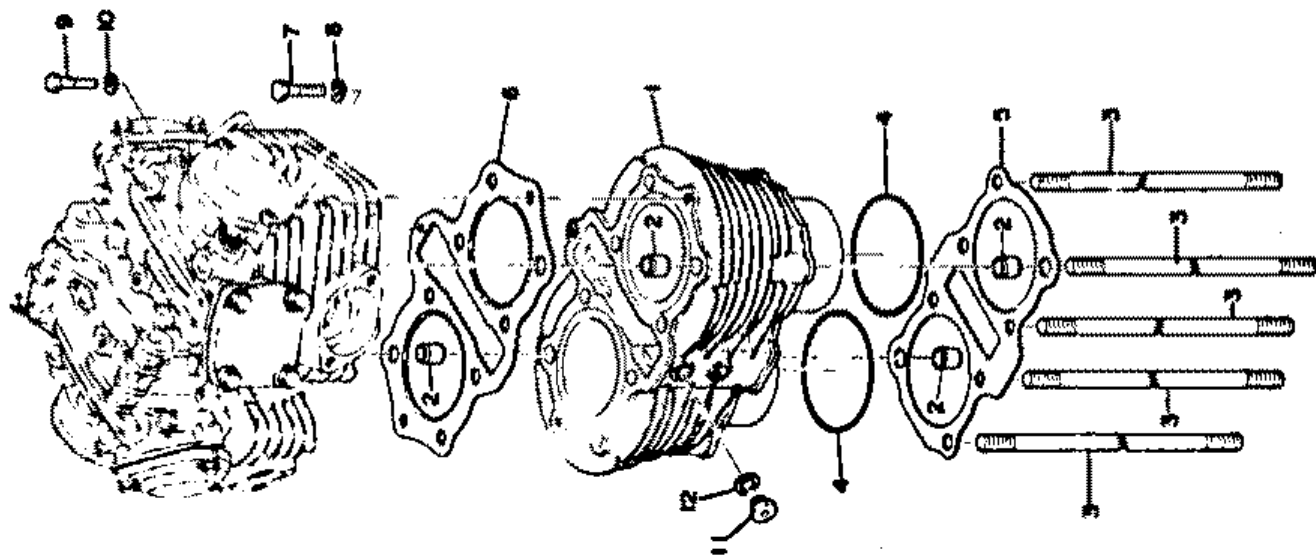
Bore x Stroke x Cylinder(s)	75 x 74mm x 2	653cc (39.85 CID)
Compression Ratio	8.4:1	

XS650E

Bore/Stroke/Number Cylinders/Displacement (cc)	75mm / 74mm / 2 / 653cc
Compression Ratio/Compression Pressure min. ~ max.	8.5:1 / 128 ~ 156 psi

XS650F

ENGINE TYPE	4-Stroke, SOHC, Air-Cooled
Bore/Stroke/Number Cylinders/Displacement (cc)	75mm / 74mm / 2 / 654cc
Compression Ratio/Compression Pressure min ~ max	8.5:1 / 9.5 ~ 11.5 kg/cm ²



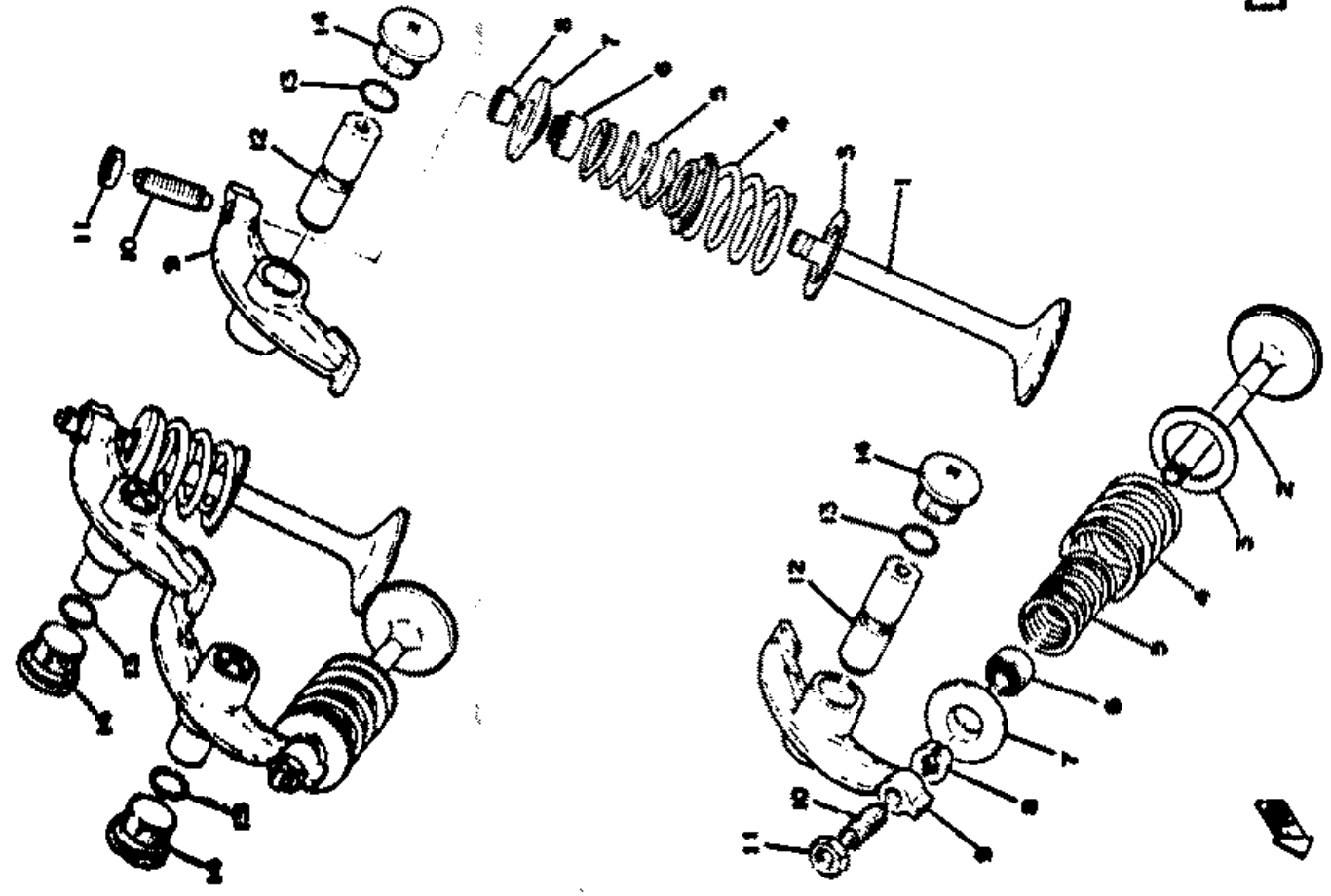
1	341-12111-04-00	VALVE, intake (341-12111-03)	2	2	2
2	341-12121-01-00	VALVE, exhaust.....	2	2	2
3	256-12116-01-00	SEAT, valve spring.....	4	4	4
4	90501-42286-00	SPRING (447-12114-00)	4	4	4
5	90501-29284-00	SPRING (447-12113-00)	4	4	4
6	341-12119-02-00	SEAL, valve stem oil	4	4	4
7	256-12117-02-00	RETAINER, valve spring (256-12117-01)	4	4	4
8	341-12118-00-00	LOCK, valve spring retainer	8	8	8
9	306-12151-00-00	ARM, valve rocker.....	4	4	4
10	90149-08098-00	SCREW, valve adjusting (583-12159-00)	4	4	4
11	90170-08173-00	NUT, hexagon	4	4	4
12	256-12156-01-00	SHAFT, rocker.....	4	4	4
13	93210-17143-00	O-RING (2.5-17.7)	4	4	4
14	90340-18017-00	PLUG (256-11177-00)	4	4	4

XS650D

Valve Clearance (avg. cold)	Intake/Exhaust	IN: .05mm (.002") / EX: 0.15mm (.006")
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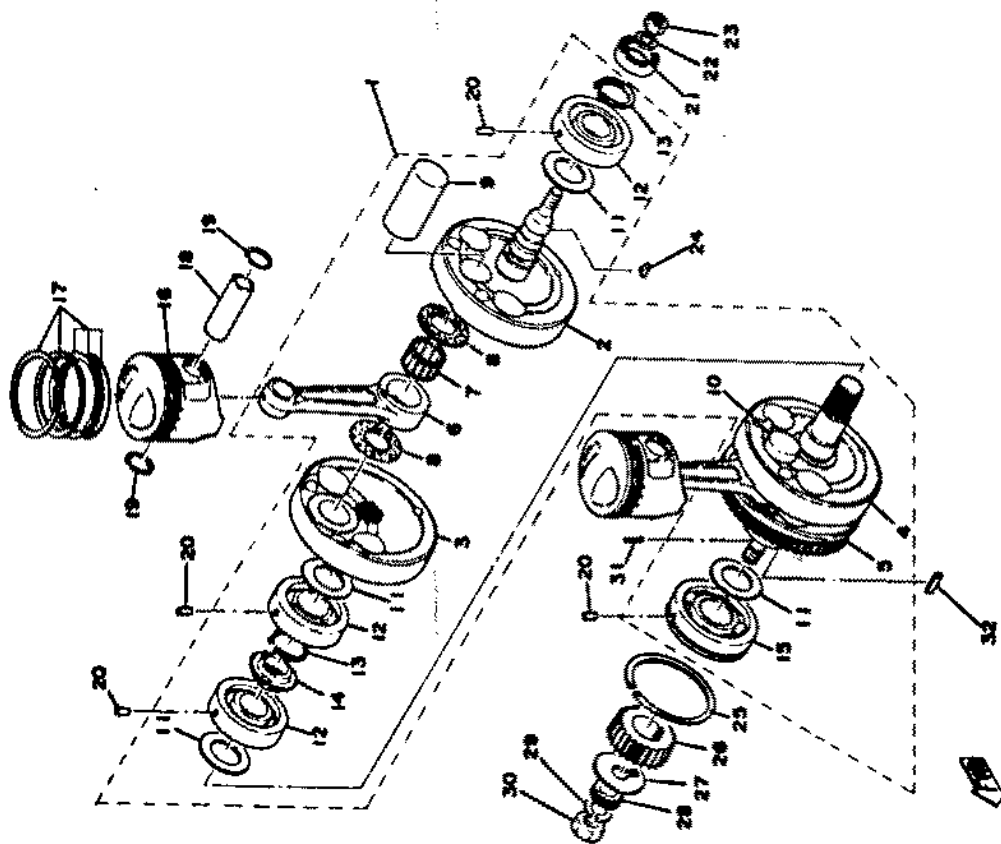
XS650E/F

Valve Clearance (cold)	Intake/Exhaust	0.06mm / 0.15mm
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Ref. No.	Part Number	Description
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1	447-11400-01-00	CRANK ASS'Y	1	1
2	256-11412-01-00	CRANK 1, left	1	1
3	256-11422-01-00	CRANK 1, right	1	1
4	256-11432-02-00	CRANK 2, left	1	1
5	306-11442-03-00	CRANK 2, right	1	1
6	447-11651-00-00	ROD, connecting	2	2
7	93310-62660-00	BEARING, con-rod big end	2	2
8	90209-26014-00	WASHER (256-11685-00)	4	4
9	256-11681-00-00	PIN, crank left	1	1
10	306-11681-00-00	PIN, crank right	1	1
11	256-11561-00-00	SHIM, crank (32.2-44-1.0)	4	4
12	93390-00003-00	BEARING	3	3
13	93410-32019-00	CIRCLIP	2	2
14	447-11549-01-00	SPROCKET, cam chain (18T)	1	1
15	93306-30604-00	BEARING (B6306 C3 special)	1	1
16	447-11631-01-96	PISTON (74.96mm STD)	2	2
	447-11635-01-00	PISTON (75.25mm 1st O.S.)	2	2
	447-11636-01-00	PISTON (75.50mm 2nd O.S.)	2	2
	447-11637-01-00	PISTON (75.75mm 3rd O.S.)	2	2
	447-11638-01-00	PISTON (76.00mm 4th O.S.)	2	2
	447-11630-00-00	PISTON ASS'Y (STD)	1s	1s
	447-11630-10-00	PISTON ASS'Y (1st O.S.)	1s	1s
	447-11630-20-00	PISTON ASS'Y (2nd O.S.)	1s	1s
	447-11630-30-00	PISTON ASS'Y (3rd O.S.)	1s	1s
	447-11630-40-00	PISTON ASS'Y (4th O.S.)	1s	1s



XS650D

Piston Skirt Clearance (new/max.)	.050 ~ .055mm (.0020 ~ .0022") / 0.1mm (.004")
Ring End Gap (top/2nd/3rd)	0.2 ~ 0.4mm (.008 ~ .016") / Same / ϕ
Ring Groove Clearance (top/2nd/3rd)	.04 ~ .08mm (.0016 ~ .0032") / .03 ~ .07mm / ϕ

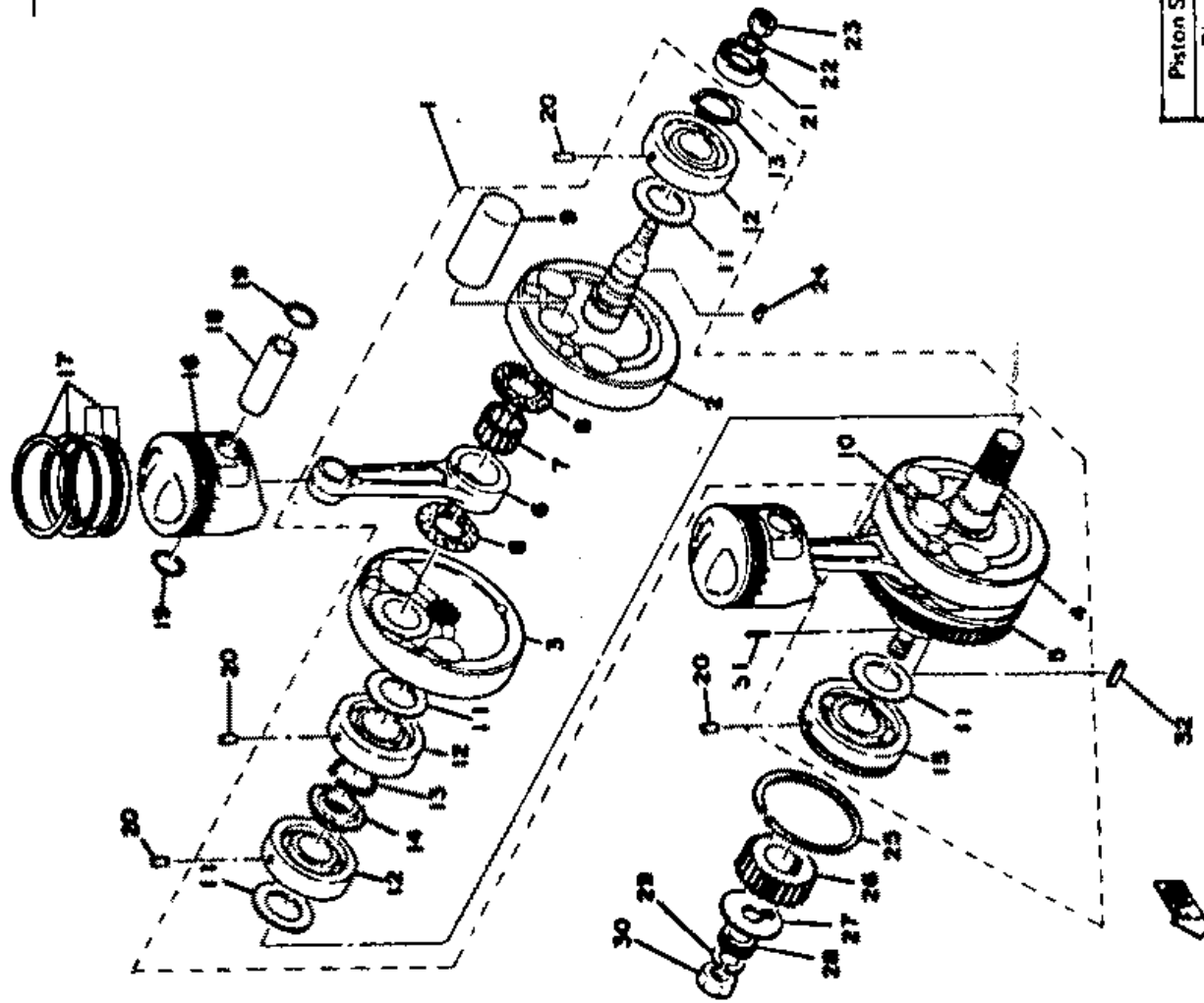
XS650E

Piston Skirt Clearance new/max.	.050 ~ .055mm / 0.1mm
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / same / 0.3 ~ 0.9mm

XS650F

Piston Skirt Clearance new/max.	0.050 ~ 0.055mm / 0.1mm
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / 0.2 ~ 0.4mm / 0.3 ~ 0.9mm

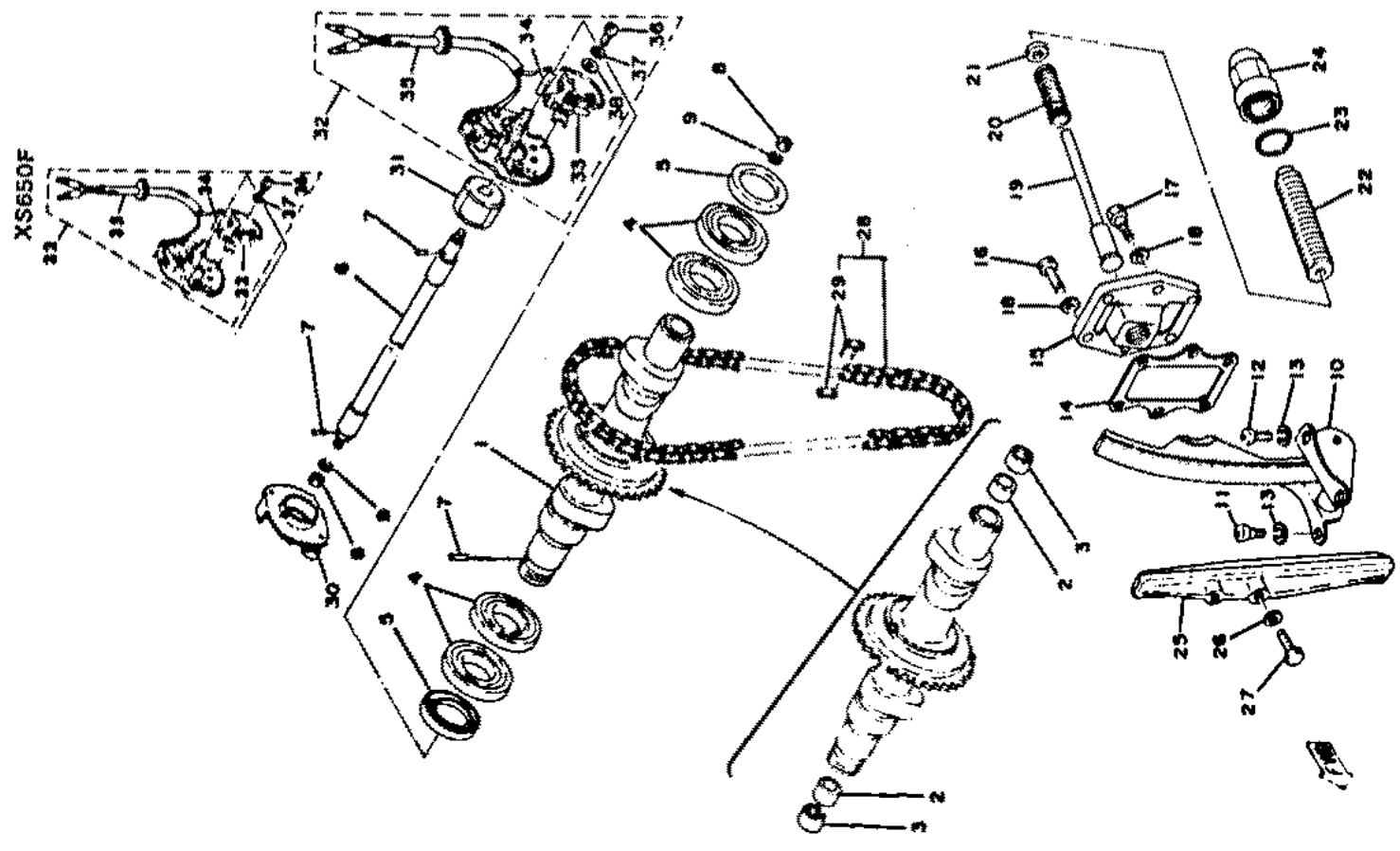
Ref. No.	Part Number	Description	DEF
17	447-11610-00-00	PISTON RING SET (STD).....	2s 2s 2s
	447-11610-10-00	PISTON RING SET (1st O.S.) ...	2s 2s 2s
	447-11610-20-00	PISTON RING SET (2nd O.S.) ...	2s 2s 2s
	447-11610-30-00	PISTON RING SET (3rd O.S.) ...	2s 2s 2s
	447-11610-40-00	PISTON RING SET (4th O.S.) ...	2s 2s 2s
18	447-11633-00-00	PIN, piston	2 2 2
19	93450-22027-00	CLIP (341-11634-00)	4 4 4
20	93605-12069-00	PIN, dowel (4.5-11.8)	4 4 4
21	93102-25121-00	OIL SEAL (SD-25-40.6-9)	1 1 1
22	92901-12100-00	WASHER, spring	1 1 1
23	90170-12064-00	NUT (256-11556-00)	1 1 1
24	90280-04005-00	KEY, woodruff (341-11545-00)	1 1 1
25	93440-78011-00	CIRCLIP (78φ special)	1 1 1
26	256-16111-00-00	GEAR, primary drive (27T)	1 1 1
27	90201-16579-00	WASHER, plate	1 1 1
28	256-13324-01-00	GEAR, drive 1 (17T)	1 1 1
29	92901-14100-00	WASHER, spring	1 1 1
30	90170-14076-00	NUT (256-11555-00)	1 1 1
31	93603-17070-00	PIN, dowel (3-16.8)	1 1 1
32	90282-07023-00	KEY, straight	1 1 1



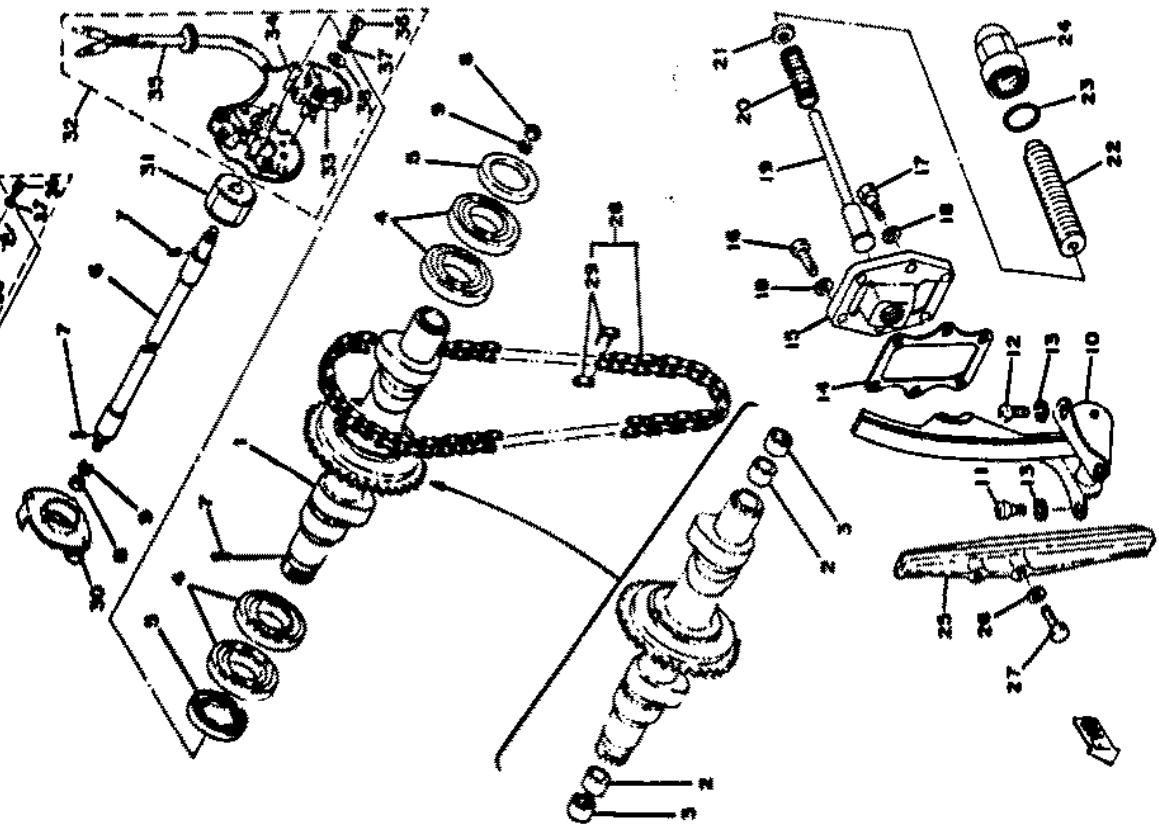
XS650D

Piston Skirt Clearance (new/max.)	.050 ~ .055mm (.0020 ~ .0022") / 0.1mm (.004")
Ring End Gap (top/2nd/3rd)	0.2 ~ 0.4mm (.008 ~ .016") / Same / φ

Ref. No.	Part Number	Description	DEF
1	447-12170-00-00	CAMSHAFT ASS'Y	1 1 1
2	90388-12093-00	BUSHING (256-11154-00)	2 2 2
3	256-11155-00-00	SEAL, labyrinth	2 2 2
4	93316-00504-00	BEARING (B16005 special)	4 4 4
5	93101-25044-00	OIL SEAL (S-25-40-6)	2 2 2
6	256-11156-00-00	SHAFT, breaker	1 1 1
7	93603-07073-00	PIN, dowel (3-7)	3 3 3
8	95301-06600-00	NUT, hexagon	2 2 2
9	92903-06100-00	WASHER, spring	2 2 2
10	447-12220-00-00	TENSIONER ARM ASS'Y	1 1 1
TUNE-UP KIT			
	ACC-01100-37-01	TUNE-UP KIT	1 1 1
	256-81621-11-00	CONTACT BREAKER	2 2 2
	256-81625-10-00	CONDENSER	1 1 1
		POINT GAUGE	1 1 1
	NGK-BP7ES-00-00	SPARK PLUG (BP7ES) (94701-00117)	2 2 2
11	90149-06009-00	BOLT, reamer (256-12248-00)	2 2 2
12	92503-06015-00	SCREW, pan head	2 2 2
13	92903-06100-00	WASHER, spring	4 4 4
14	306-12213-02-00	GASKET, tensioner case 1 (306-12213-01)	1 1 1
15	584-12211-00-00	HOLDER, tensioner	1 1 1
16	97303-06018-00	BOLT, hexagon	4 4 6
	97303-06018-00	BOLT, hexagon	6
17	90109-06019-00	BOLT (256-12249-00)	2 2
18	92903-06200-00	WASHER, plain (92901-06200)	6 6 6
19	341-12217-03-00	ROD	1 1 1
20	90501-14095-00	SPRING (341-12216-02)	1 1 1

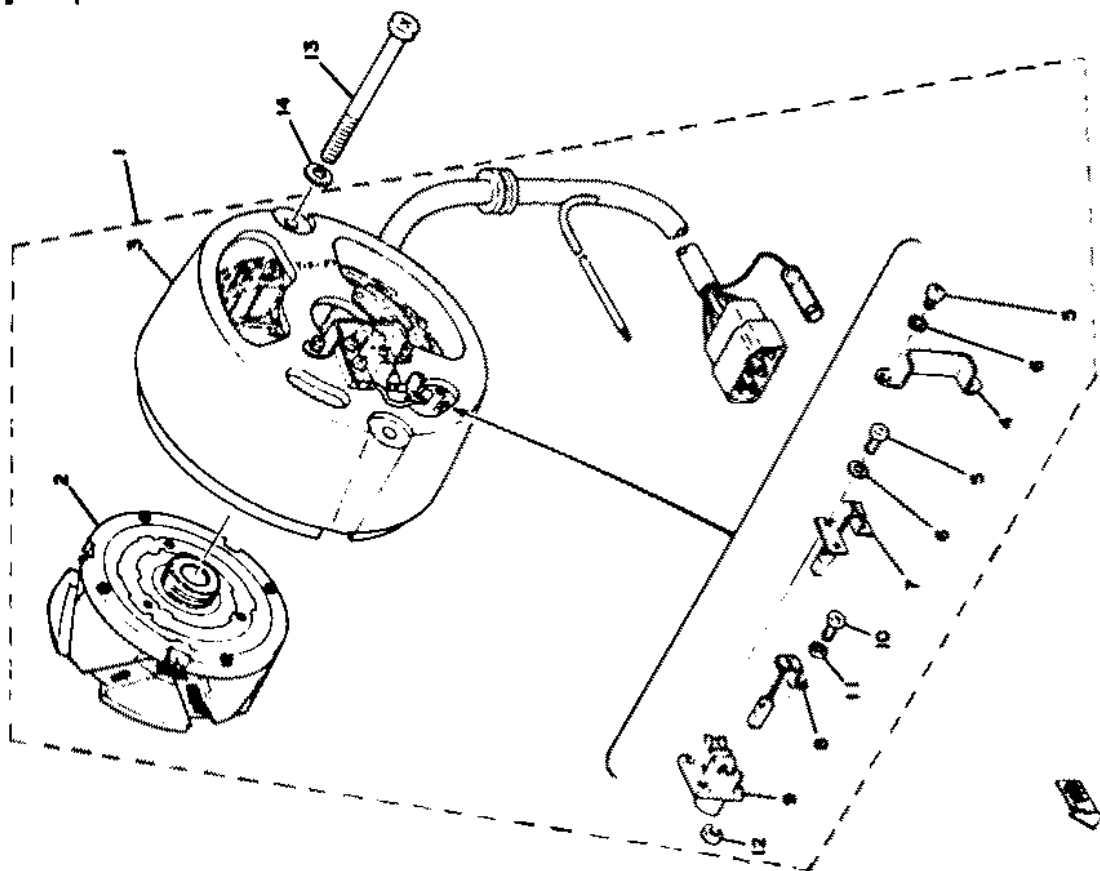


XS650F



Ref. No.	Part Number	Description	DEF
21	341-12232-01-00	DAMPER	1 1 1
22	99999-01144-00	BOLT (90109-18037-00)	1 1 1
	90109-18580-00	BOLT	1
	240-12232-00-00	DAMPER, chain tensioner	1
23	93210-21190-00	O-RING (2.6-20.6)	1 1 1
24	90176-18021-00	NUT, cap	1 1 1
25	256-12231-01-00	GUIDE, stopper 1	1 1 1
26	90430-06014-00	GASKET (256-11396-00)	2 2 2
27	97303-06020-00	BOLT, hexagon	2 2 2
28	94562-19106-00	CHAIN (DK219FT 106L)	1 1 1
	94500-02106-00	CHAIN (DK002 106L)	1 1 1
29	94662-19001-00	JOINT, chain	1 1 1
	94600-02001-00	JOINT, chain	1 1 1
TUNE-UP KIT			
	ACC-01100-37-01	TUNE-UP KIT	
	256-81621-11-00	CONTACT BREAKER	2 2 2
	256-81625-10-00	CONDENSER	1 1 1
		POINT GAUGE	1 1 1
	NGK-BP7ES-00-00	SPARK PLUG (94701-00117)	2 2 2
30	256-81653-10-00	GOVERNOR ASS'Y	1 1 1
31	256-81651-10-00	DAM	1 1 1
32	447-81620-10-00	BREAKER PLATE ASS'Y	1 1 1
33	256-81621-11-00	CONTACT BREAKER	2 2 2
34	256-81631-10-00	LUBRICATOR	2 2 2
35	256-81615-10-00	WIRE, lead	1 1 1
36	110-81345-21-00	SCREW, pan head (M4-6) (110-81345-20)	6 6 6
37	92901-04100-00	WASHER, spring	6 6 6
	92901-04200-00	WASHER, plain	6 6 6
38	92901-04200-00	WASHER, plain	6 6 6
	92901-04200-00	WASHER, plain	6 6 6

Ref. No.	Part Number	Description	DEF
1	308-81600-14-00	A.C. GENERATOR ASSY.....	1 1 1
	138-82540-01-00	NEUTRAL SWITCH ASSY.....	1
2	258-81650-11-00	ROTOR ASSY.....	1 1 1
3	308-81610-12-00	STATOR ASSY.....	1 1 1
	138-82540-01-00	NEUTRAL SWITCH ASSY.....	1
4	258-81614-10-00	PROTECTOR.....	1 1 1
5	98501-04008-00	SCREW, pan head.....	2 2 2
6	92901-04100-00	WASHER, spring.....	2 2 2
7	258-81611-11-00	BRUSH 1.....	1 1 1
8	258-81612-11-00	BRUSH 2.....	1 1 1
9	258-81613-10-00	HOLDER, brush 1.....	1 1 1
10	98501-04012-00	SCREW, pan head.....	4 4 4
11	92901-04100-00	WASHER, spring.....	4 4 4
12	95301-04600-00	NUT, hexagon.....	1 1 1
13	92501-06075-00	SCREW, pan head.....	2 2 2
14	92903-06100-00	WASHER, spring.....	2 2 2



XS650D

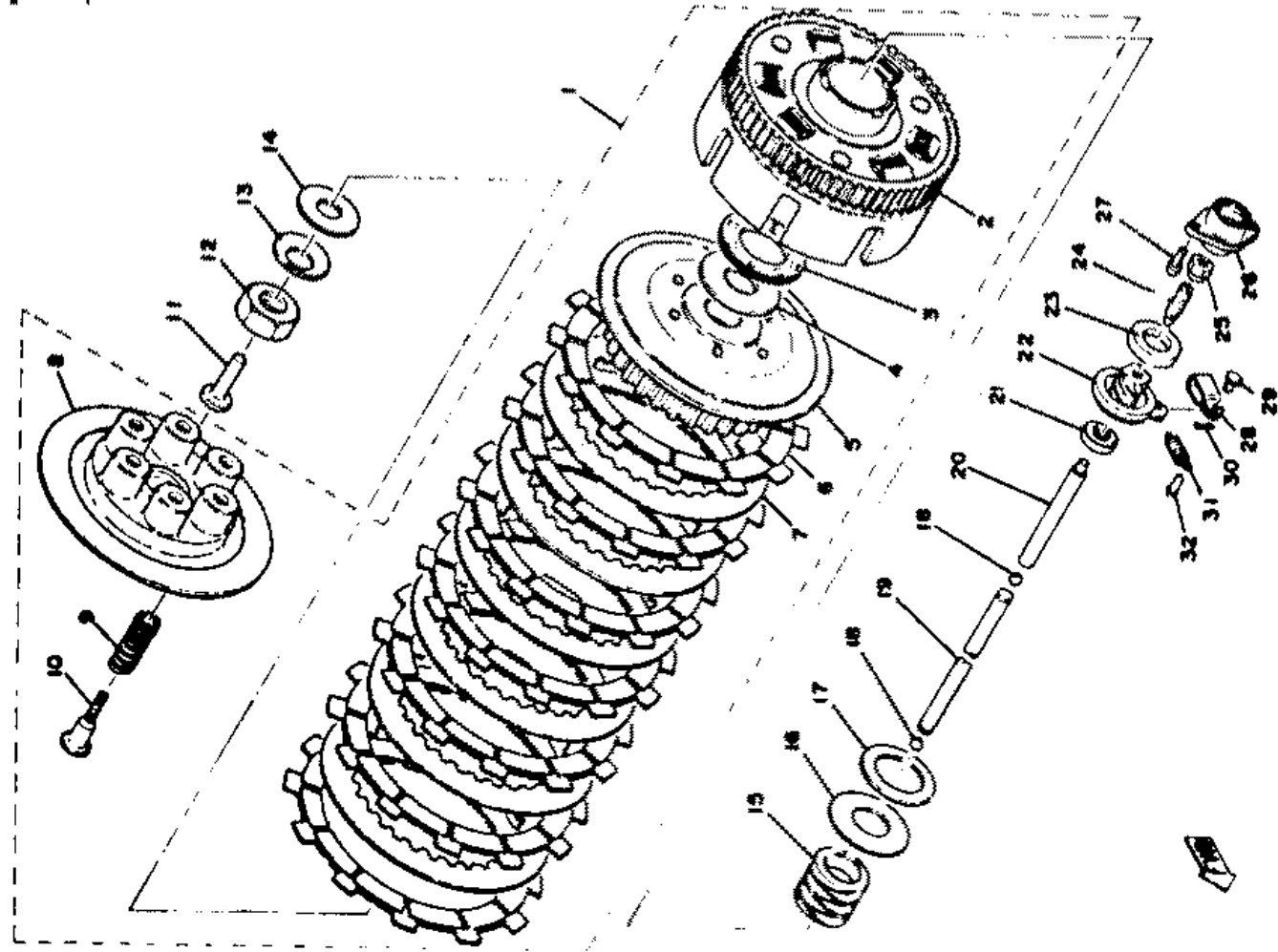
ELECTRICAL - Charging System (Init.) (Type)	Hitachi / Regulated A.C. Generator
No Load Voltage Adj. (AC & DC generators)	14.5 ± 0.5V @ 3,000rpm
Max. Generator (Magnetron) Output	14V 11A @ 2,000rpm
Ign. Coil Min. Spark Gap/Pr. Res./Sec. Res.	7mm @ 7,000rpm / 3.9Ω / 8.0KΩ
Source Coil Res./Pulse Coil Res.	0
Condenser Capacity	0.22μF
Point Gap/Spark Plug (type/gap)	0.35mm (0.014") / NGK BP-7ES / 0.6 ~ 0.7mm
Timing (advanced) (retarded)	(41.5° @ 3,000rpm) (13 ~ 17° @ 1,200rpm)

XS650E

ELECTRICAL - System/Type	AC Generator / Battery & Coil
Maximum Output	14V11A @ 2000 rpm
Field Coil Color Code/Ω	Rotor: 5.75Ω ± 10% Stator: 0.46Ω ± 10%
Ignition Coil test gap / Primary Ω / Secondary Ω	6mm / 3.9Ω ± 10% / 8KΩ ± 20%
Battery—model/type, g.w./chg rate a hour	Yuasa YB14L (12V14AH) / 1.280 / 1.4A x

XS650F

CHARGING SYSTEM	A.C. Generator / 3 Phase / Full Wave
Battery: Model / Spec. Grav. / Chg. Rate	Yuasa YB14L A2 (12V14AH) / 1.28 / 1.4A
Maximum Output	14V11A @ 2000 rpm
TROUBLESHOOTING	
Field Coil Color Code / Ω	Rotor: 5.75Ω ± 10% Stator: 0.46Ω ± 10%



Ref. No.	Part Number	Description	DEF
1	1T3-16301-00-00	CLUTCH ASS'Y (447-16301-01)	1 1
	447-16301-02-00	CLUTCH ASS'Y (447-16301-00)	1
	447-16301-02-00	CLUTCH ASS'Y (447-16301-00)	1
2	256-16150-02-00	PRIMARY DRIVEN GEAR COMP. (72T)	1 1 1
3	93341-23504-00	BEARING	1 1 1
4	170-16164-00-00	PLATE, thrust 2 (25-50-2)	1 1 1
5	341-16371-01-00	BOSS, clutch	1 1 1
6	341-16321-13-00	PLATE, friction 1	7 7 7
7	341-16325-01-00	PLATE, clutch	6 6 6
8	341-16351-01-00	PLATE, pressure	1 1 1
9	90501-26148-00	SPRING, compression	6 6 6
10	90149-06102-00	SCREW	6 6 6
11	256-16356-00-00	ROD, push 1	1 1 1
12	90170-18089-00	NUT (156-16174-00)	1 1 1
13	214-16119-00-00	SPRING, Belleville	1 1 1
14	92901-18200-00	WASHER, plain	1 1 1
15	90560-25131-00	SPACER (256-16181-01)	1 1 1
16	170-16164-00-00	PLATE, thrust 2 (25-50-2)	1 1 1
17	90201-25290-00	WASHER, plate (131-15653-00)	1 1 1
18	93505-16006-00	BALL (5/16 inch)	2 2 2

XS650E/F

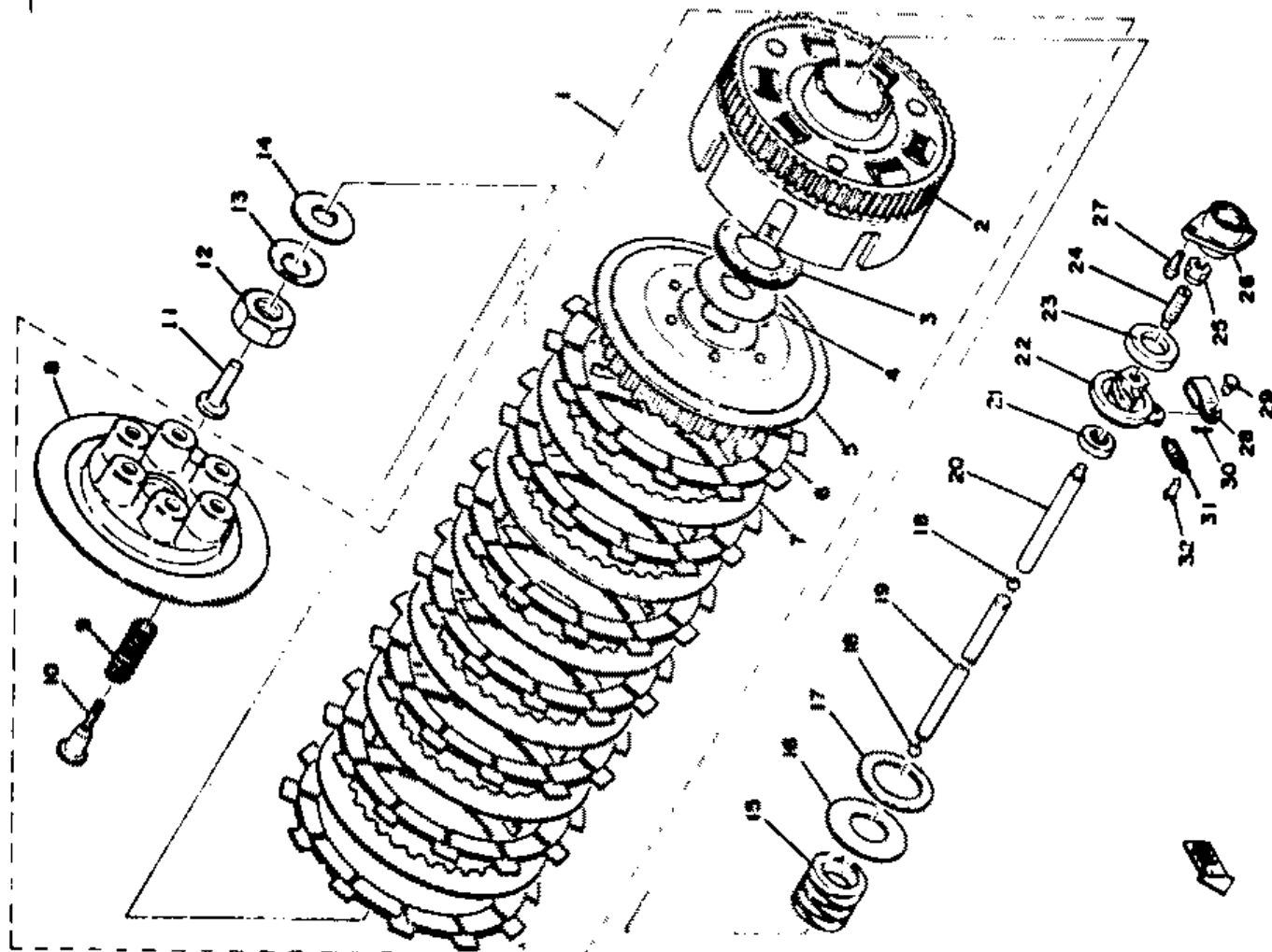
Clutch Friction Plate Thickness std ~ min.	3.0mm ~ 2.7mm
Clutch Spring Length std ~ min.	34.6mm std

Ref. No. Part Number Description DEF

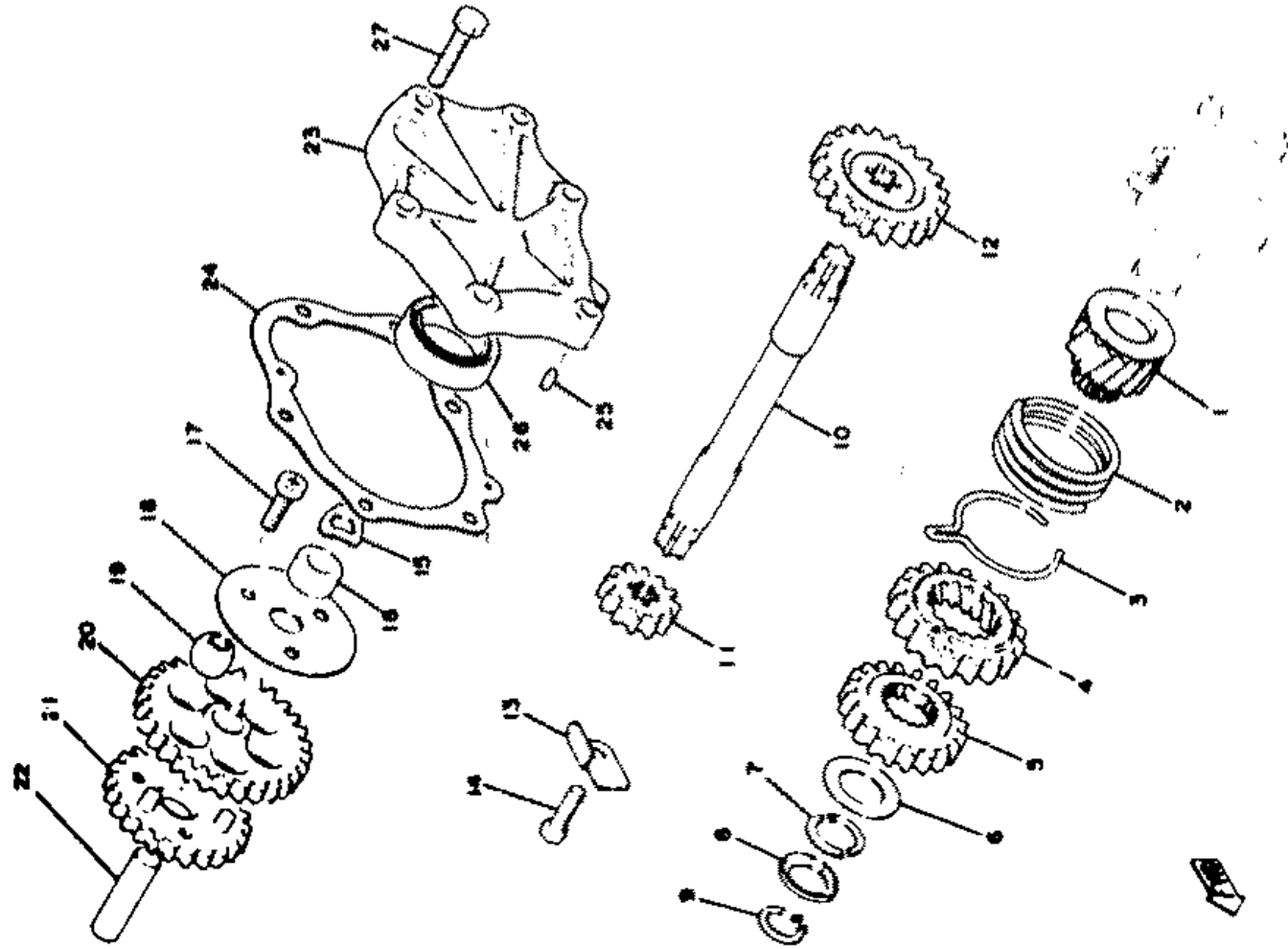
19	447-16357-01-00	ROD, push 2 (447-16357-00).....	1	1	1
20	341-16376-00-00	ROD, push 3.....	1	1	1
21	93102-08206-00	OIL SEAL (SD-8-25-6) (93102-08118).....	1	1	1
22	447-16340-00-00	PUSH LEVER ASS'Y.....	1	1	1
23	214-16347-01-00	SEAL, dust.....	1	1	1
24	90113-08021-00	BOLT (256-16343-01).....	1	1	1
25	90179-08179-00	NUT.....	1	1	1
26	256-16396-01-00	HOUSING, push screw.....	1	1	1
27	98503-05012-00	SCREW, pan head.....	2	2	2
28	214-16389-00-00	JOINT.....	1	1	1
29	90240-06005-00	PIN (214-16379-00).....	1	1	1
30	91401-10010-00	PIN, cotter.....	1	1	1
31	90506-10023-00	SPRING (168-16345-00).....	1	1	1
32	132-16346-00-00	HOOK, spring.....	1	1	1

XS650E/F

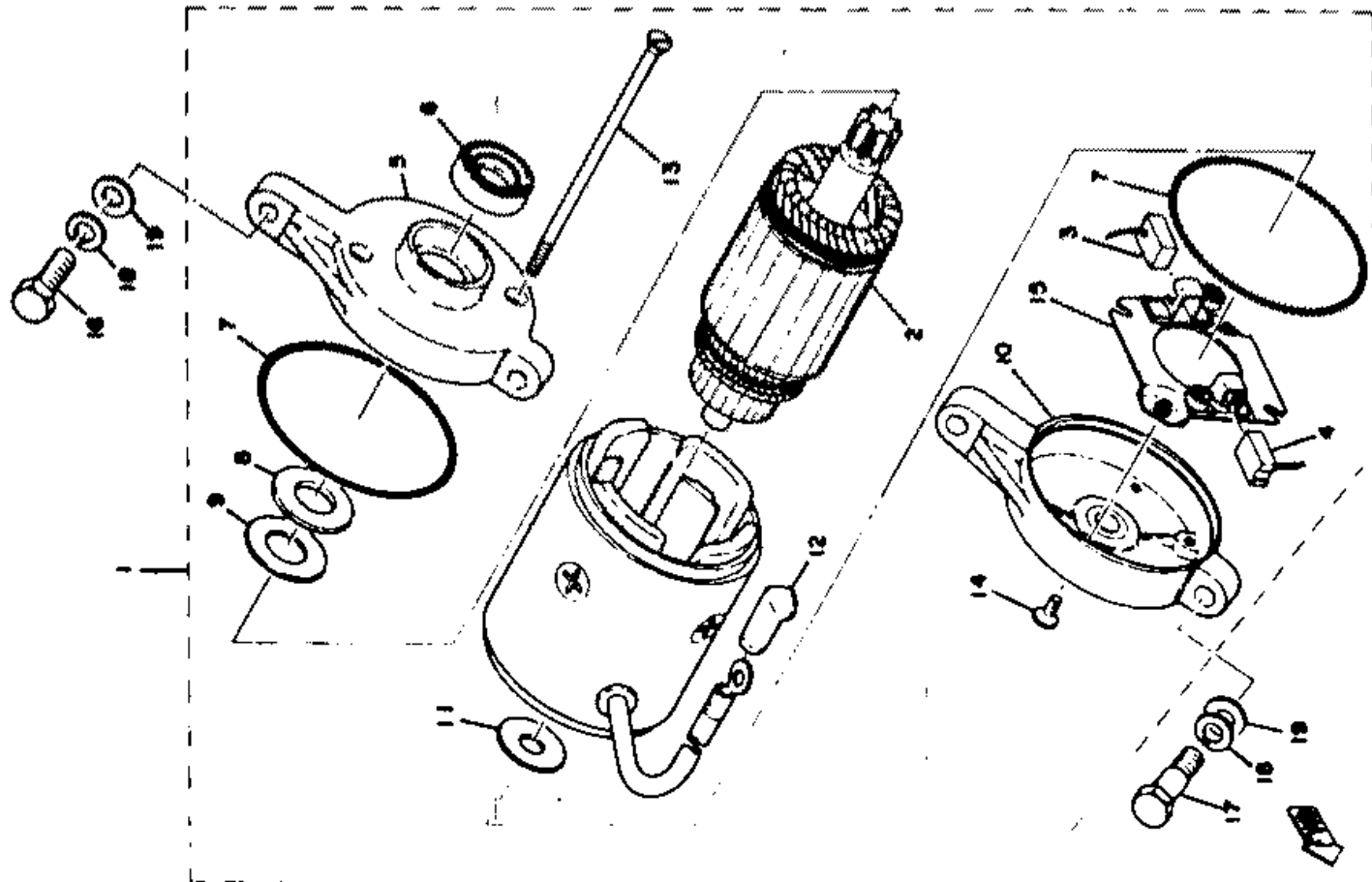
Clutch Friction Plate Thickness std ~ min.	3.0mm ~ 2.7mm
Clutch Spring Length std ~ min.	34.8mm std



1	306-Y1554-00-00	WHEEL, starter (306-15524-00)	1	1	1
2	90501-15409-00	SPRING, compression	1	1	1
3	90468-29062-00	CLIP	1	1	1
4	447-15516-00-00	GEAR 4 (23T)	1	1	1
5	306-15515-00-00	GEAR 3 (24T)	1	1	1
6	90201-17257-00	WASHER, plate (306-15561-00)	1	1	1
7	306-15562-00-00	CLIP	2	2	2
8	306-15563-00-00	HOLDER, clip	1	1	1
9	93410-17008-00	CIRCLIP (S-17)	1	1	1
10	306-15522-00-00	SHAFT 2	1	1	1
11	306-15514-00-00	GEAR 2 (14T)	1	1	1
12	306-15513-00-00	GEAR 1 (24T)	1	1	1
13	447-15531-00-00	PLATE, stopper	1	1	1
14	92503-06020-00	SCREW, pan head (92501-06020)	1	1	1
15	90206-12034-00	WASHER, wave (826-18195-00)	1	1	1
16	90387-12093-00	COLLAR (306-15541-00)	1	1	1
17	92503-06018-00	SCREW, pan head (92501-06018)	3	3	3
18	306-15532-00-00	PLATE, idle gear	1	1	1
19	306-15571-00-00	ABSORBER	6	6	6
20	306-15512-00-00	GEAR, idle 1 (36T)	1	1	1
21	306-15517-00-00	GEAR, idle 2 (25T)	1	1	1
22	306-15521-00-00	SHAFT 1	1	1	1
23	306-15431-00-00	COVER, gear train	1	1	1
24	306-15452-00-00	GASKET, gear train cover	1	1	1
25	93604-08071-00	PIN, dowel (4-8)	2	2	2
26	93102-34095-00	OIL SEAL (SD-34-46-10.5)	1	1	1
27	97301-06025-00	BOLT, hexagon	6	6	6

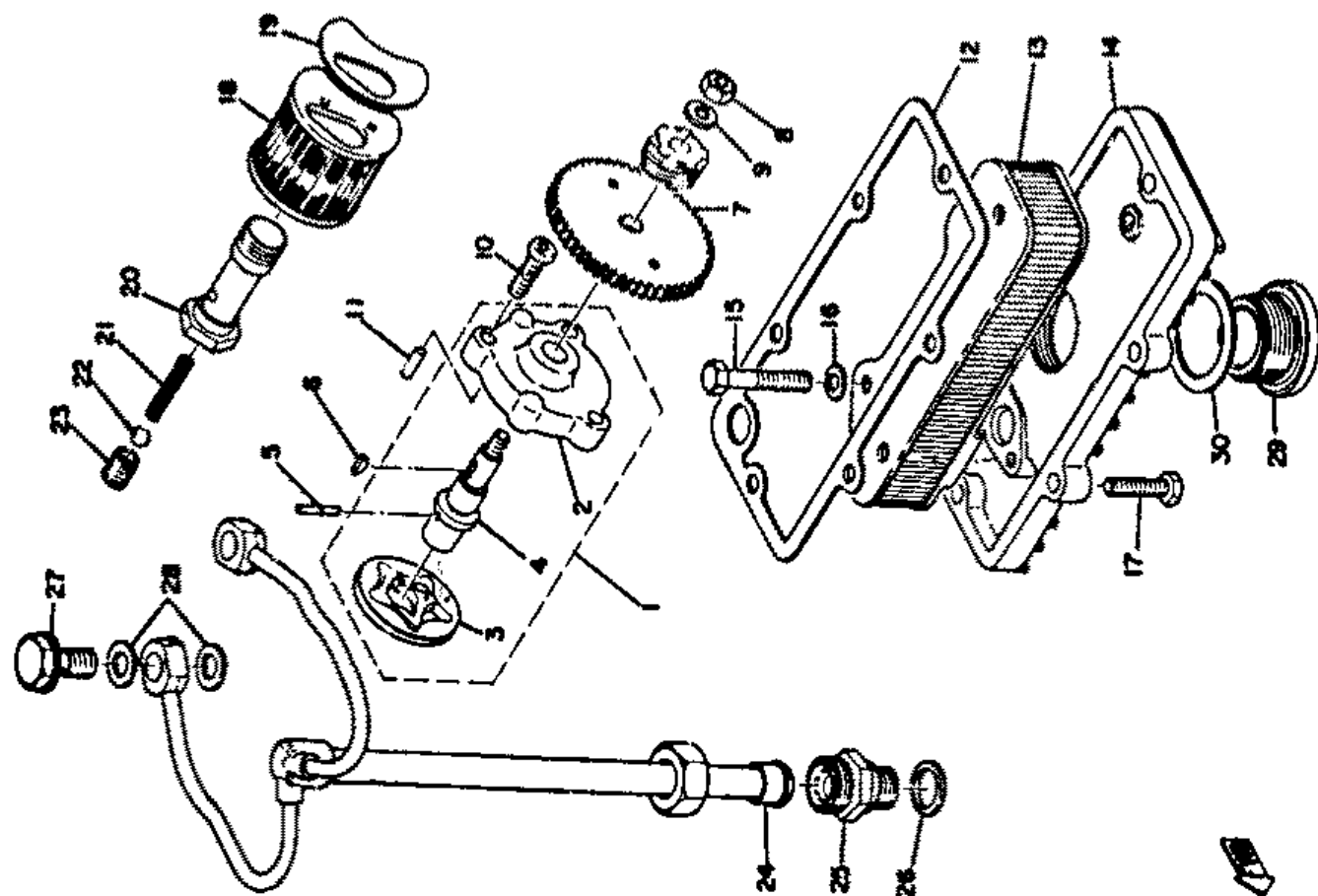


1	306-81800-12-00	STARTING MOTOR ASSY	1	1
2	306-81850-11-00	ARMATURE	1	1
3	306-81811-10-00	BRUSH 1	1	1
4	306-81812-10-00	BRUSH 2	1	1
5	306-81825-10-00	COVER, starting motor 1	1	1
6	93101-17047-00	OIL SEAL (S-17-28-8)	1	1
7	306-81827-10-00	O-RING	2	2
8	306-81893-10-00	WASHER, special	1	1
9	306-81828-10-00	WASHER, thrust 1	1	1
10	306-81826-10-00	COVER, starting motor 2	1	1
11	306-81829-10-00	WASHER, thrust 2	2	2
12	306-81862-10-00	CAP	1	1
13	306-81823-10-00	SCREW, special	2	2
14	98701-04010-00	SCREW, flat head	2	2
15	306-81840-10-00	HOLDER, brush	1	1
16	90109-08393-00	BOLT	2	2
17	97321-08035-00	BOLT, hexagon	2	2
18	92903-08100-00	WASHER, spring	4	4
19	92903-08200-00	WASHER, plain	4	4

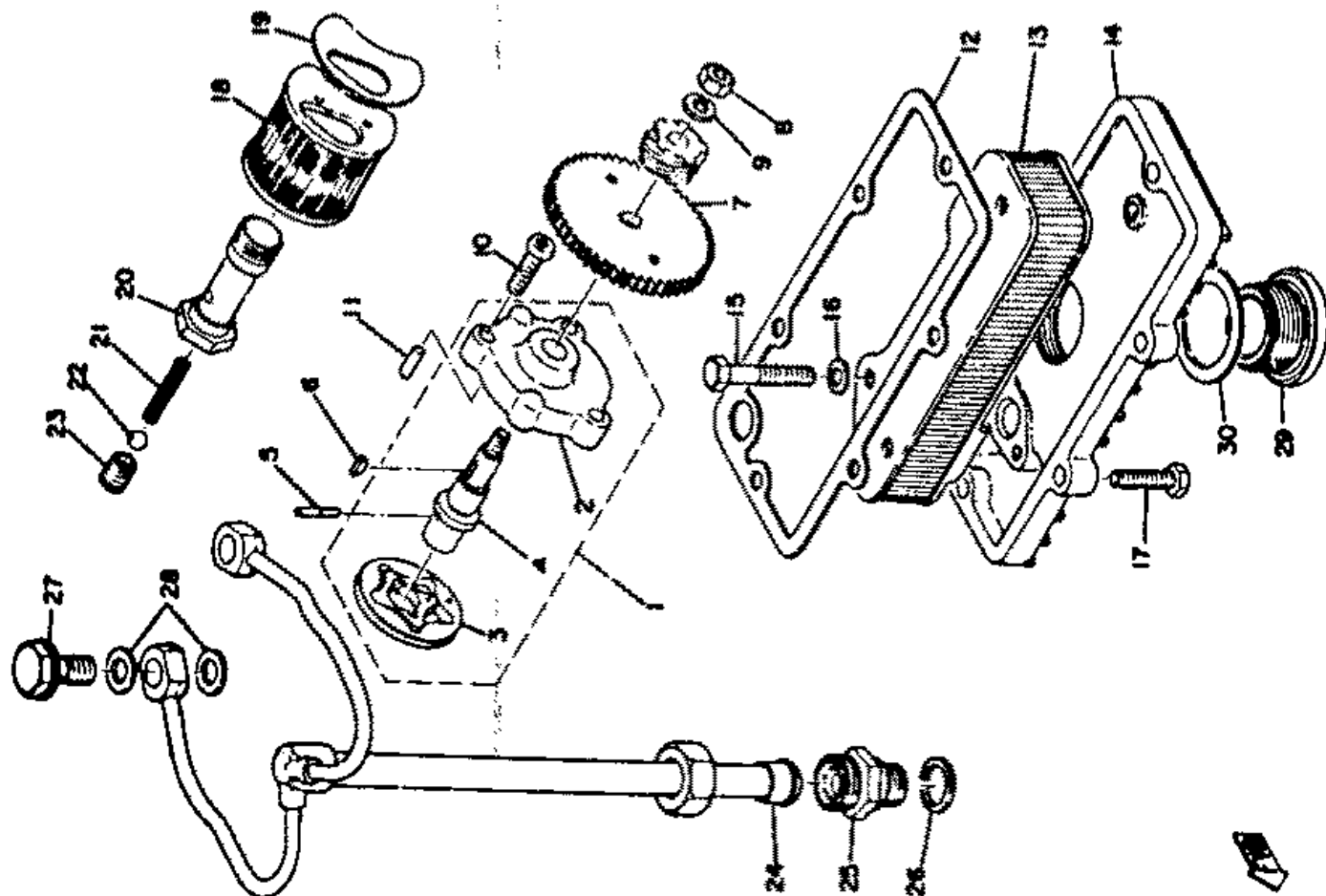


Ref. No.	Part Number	Description
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1	256-00001-01-00	ROTOR AND SHAFT ASS'Y..... 1s 1s 1s
2	256-13316-02-00	COVER, pump..... 1 1 1
3	256-13310-02-00	ROTOR ASS'Y..... 1 1 1
4	256-13314-02-00	SHAFT..... 1 1 1
5	93603-17070-00	PIN, dowel (3-16.8)..... 1 1 1
6	90280-03023-00	KEY, woodruff (256-13334-00)..... 1 1 1
7	256-13325-00-00	GEAR, driven (43T)..... 1 1 1
8	95301-06600-00	NUT, hexagon..... 1 1 1
9	92903-06100-00	WASHER, spring..... 1 1 1
10	92503-06020-00	SCREW, pan head..... 3 3 3
11	93604-12037-00	PIN, dowel (4-11.8)..... 2 2 2
12	256-13414-00-00	GASKET, strainer..... 1 1 1
13	256-13411-01-00	STRAINER..... 1 1 1
14	256-13417-00-00	COVER, strainer..... 1 1 1
15	97301-06045-00	BOLT, hexagon..... 3 3 3
16	92903-06100-00	WASHER, spring..... 3 3 3
17	97301-06025-00	BOLT, hexagon..... 6 6 6
18	256-13441-00-00	ELEMENT, oil..... 1 1 1
19	256-13445-00-00	GASKET, element..... 1 1 1
20	256-13495-00-00	SCREW, element..... 1 1 1



Ref. No.	Part Number	Description	DEF
21	90501-07031-00	SPRING (256-13494-00)	1 1 1
22	93501-04011-00	BALL (1/4 inch)	1 1 1
23	90149-10019-00	SCREW (256-13493-00).....	1 1 1
24	256-13161-01-00	PIPE, delivery 1	1 1 1
25	256-13165-02-00	BOLT, banjo 1	1 1 1
26	90430-14043-00	GASKET (256-13167-00)	1 1 1
27	90401-10004-00	BOLT (256-13166-00).....	2 2 2
28	90430-10027-00	GASKET (256-13168-00)	4 4 4
29	256-15351-00-00	PLUG, drain	1 1 1
30	256-15353-00-00	GASKET, drain plug.....	1 1 1



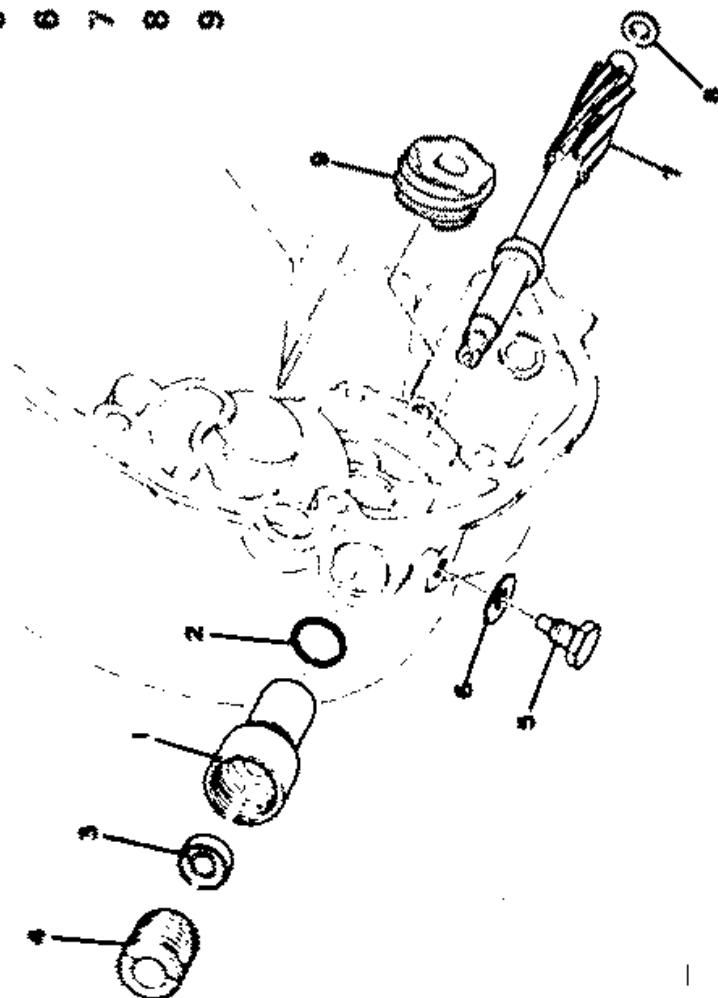
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No.

PART
Number

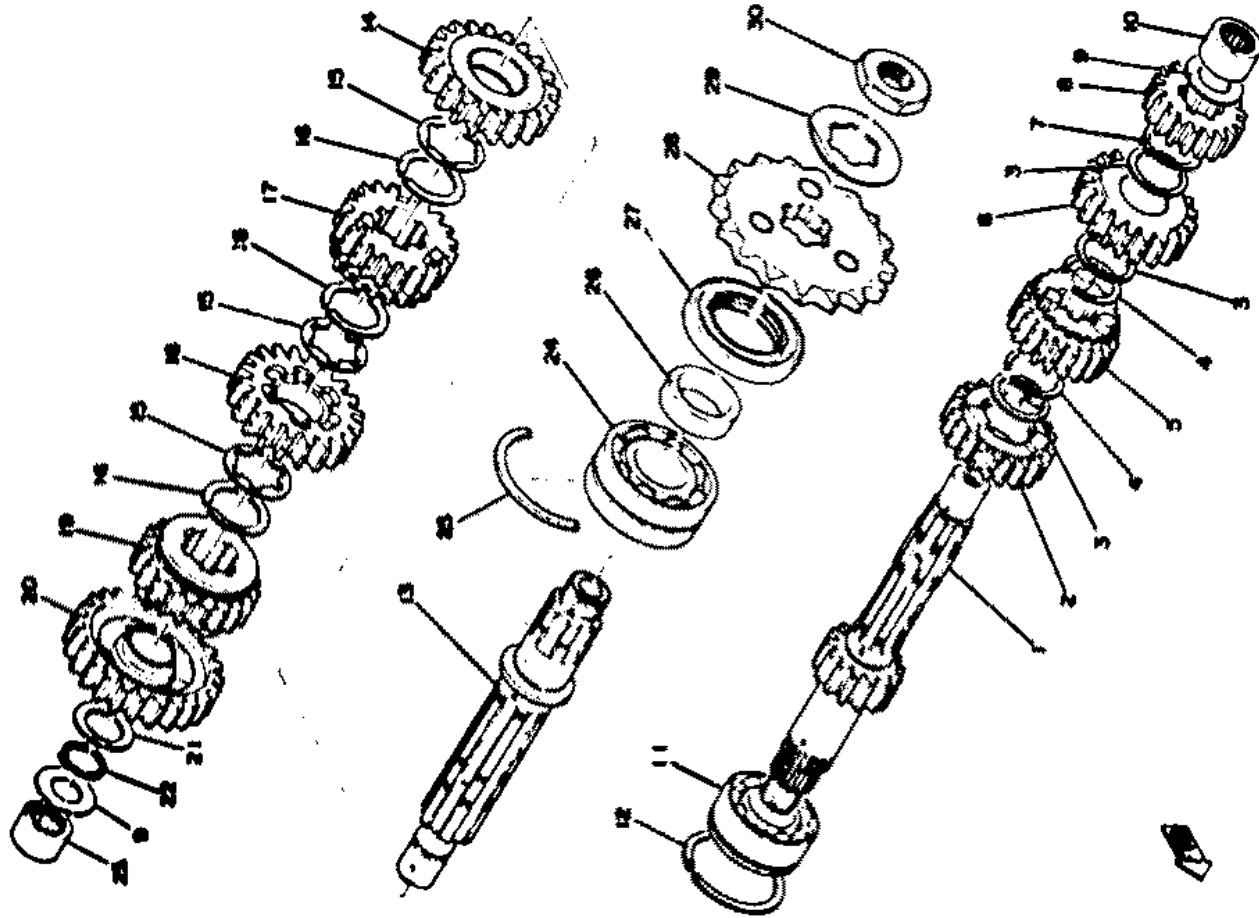
DEF

Description

1	256-17811-01-00	HOUSING.....	1	1	1
2	93210-12154-00	C-RING (1.3-11.5).....	1	1	1
3	93104-07038-00	OIL SEAL (SO-7-13-4).....	1	1	1
4	256-17848-00-00	ADAPTER.....	1	1	1
5	90109-06078-00	BOLT (256-17867-00).....	1	1	1
6	90430-06014-00	GASKET (256-11396-00).....	1	1	1
7	256-17841-01-00	GEAR, driven.....	1	1	1
8	256-17837-00-00	SHIM (8.2-12-1.0).....	1	1	1
9	256-17831-00-00	GEAR, drive.....	1	1	1

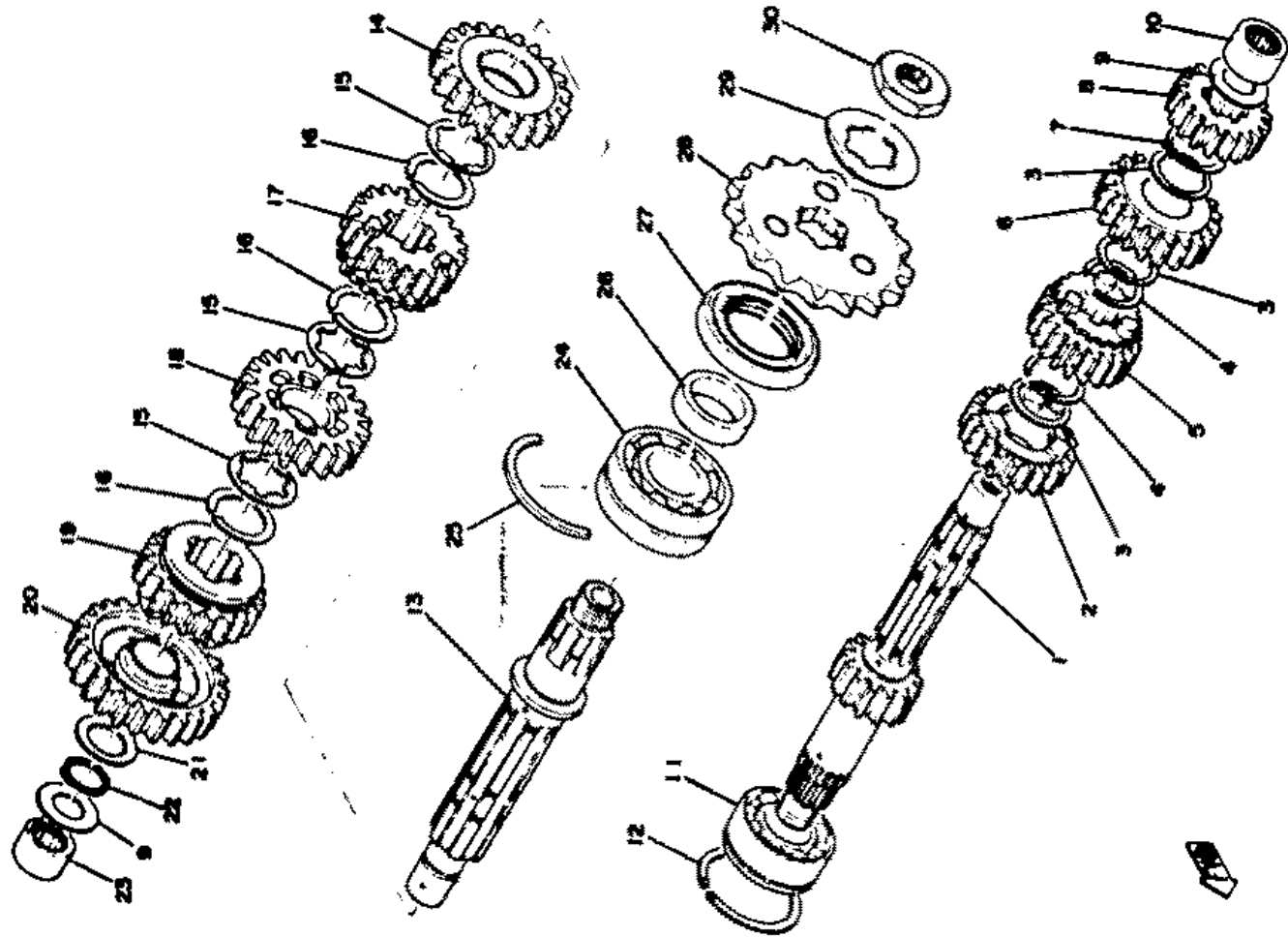


No.	Number	Description	
1	306-17411-00-00	AXLE, main (13T).....	1
	306-17411-03-00	AXLE, main (13T) (306-17411-02)	1 1 1
2	256-17141-01-00	GEAR, 4th pinion (21T).....	1
	256-17141-02-00	GEAR, 4th pinion (21T).....	1 1 1
3	256-17154-00-10	WASHER, gear hold 5 (25.2-30-1.0).....	(650D) 3
	256-17154-00-12	WASHER, gear hold 5 (25.2-30-1.2).....	(650D) 3
	90201-25287-00	WASHER, plate.....	(650D/E) 3 3
4	93440-25020-00	CIRCLIP (25φ special).....	2 2 2
5	99999-00908-00	GEAR 3rd & 5th pinion gear (256-17131-01).....	1
	256-17131-03-00	GEAR, 3rd pinion.....	1
	341-17151-03-00	GEAR, 5th pinion.....	1
	256-17131-04-00	GEAR, 3rd pinion (20T).....	1 1
6	341-17151-03-00	GEAR, 5th pinion (23T).....	1
	341-17151-04-00	GEAR, 5th pinion (23T).....	1 1 1
7	93410-25017-00	CIRCLIP (S-25).....	1 1 1
8	256-17121-00-00	GEAR, 2nd pinion (17T).....	1
	256-17121-01-00	GEAR, 2nd pinion (17T).....	1 1 1
9	137-17427-00-06	SHIM, drive axle (20.2-33-0.6)	URUR
	137-17427-00-09	SHIM, drive axle (20.2-33-1.0) (137-17427-00-10).....	2 2 2
10	93313-32007-00	BEARING.....	1 1 1
11	93305-20504-00	BEARING (B5205).....	1 1 1
12	93440-52014-00	CIRCLIP (52~ special).....	1 1 1
13	256-17421-00-00	AXLE, drive.....	1
	256-17421-01-00	AXLE, drive.....	1 1 1



SEE GRIDS J1, J2 FOR SERVICE DATA

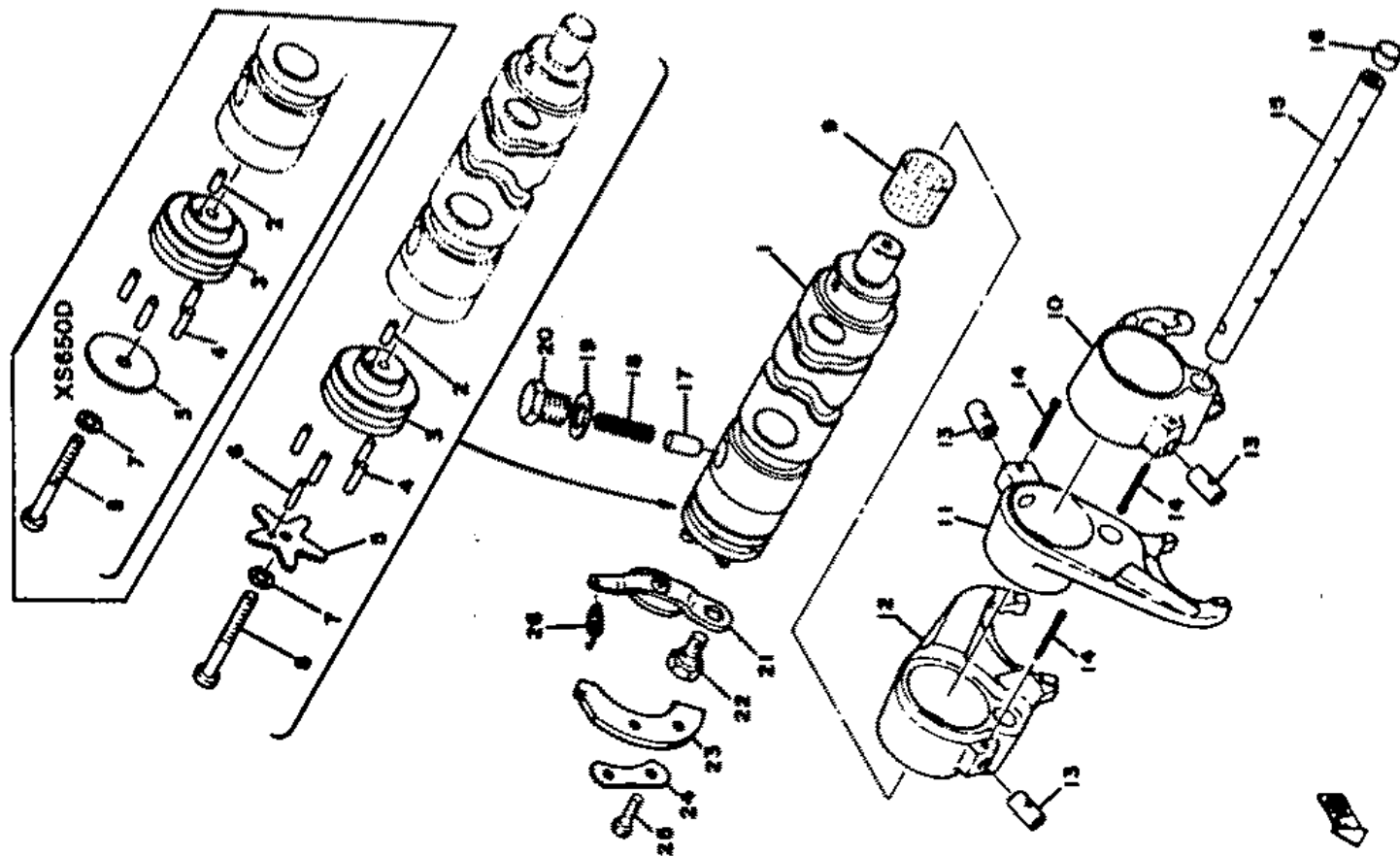
Ref. No.	Part Number	Description	
14	256-17221-01-00	GEAR, 2nd wheel (27T)	1
	256-17221-02-00	GEAR, 2nd wheel (27T)	1 1 1
15	256-17236-00-10	WASHER, gear hold 3 (26.2-34-1.0)	3 3 3
	256-17236-00-12	WASHER, gear hold 3 (26.2-34-1.2)	3 3 3
16	93440-30015-00	CIRCLIP (30 ϕ special)	3 3 3
17	256-17251-03-00	GEAR, 5th wheel (22T)	1
	256-17251-04-00	GEAR, 5th wheel (22T)	1 1 1
18	256-17231-03-00	GEAR, 3rd wheel (26T)	1
	256-17231-04-00	GEAR, 3rd wheel (26T)	1 1 1
19	256-17241-01-00	GEAR, 4th wheel (23T)	1
	256-17241-02-00	GEAR, 4th wheel (23T)	1 1 1
20	306-17211-00-00	GEAR, 1st wheel (32T)	1 1 1
21	90201-20268-00	WASHER, plate (132-17216-00)	1 1 1
22	93410-20021-00	CIRCLIP (S-20)	1 1 1
23	93313-32005-00	BEARING	1 1 1
24	93305-20602-00	BEARING (B5206 special)	1 1 1
25	168-17424-00-00	CIRCLIP	1 1 1
26	90387-30200-00	COLLAR (256-17462-00)	1 1 1
27	93105-40018-00	OIL SEAL (40-62-9)	1 1 1
28	256-17461-71-00	SPROCKET, drive (17T) (256-17461-70)	1 1 1
29	90215-26024-00	WASHER, lock (256-17464-00)	1 1 1
30	90179-22022-00	NUT, lock (256-17463-00)	1 1 1



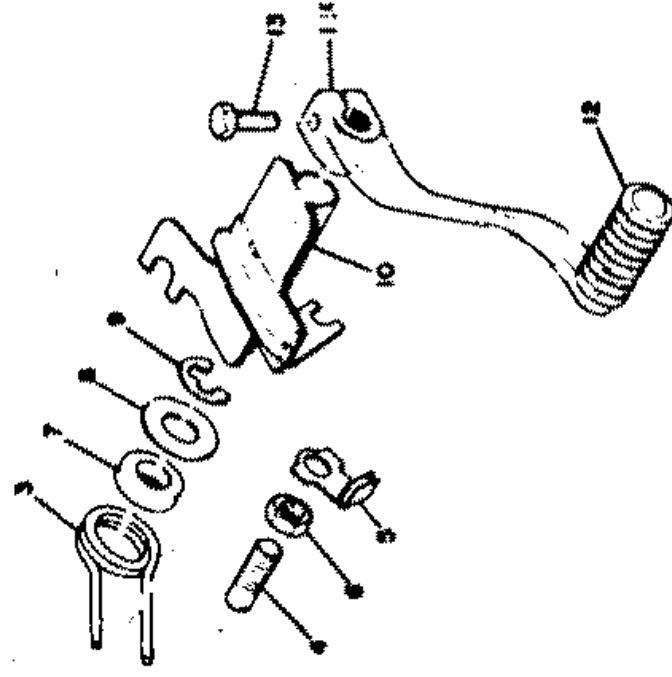
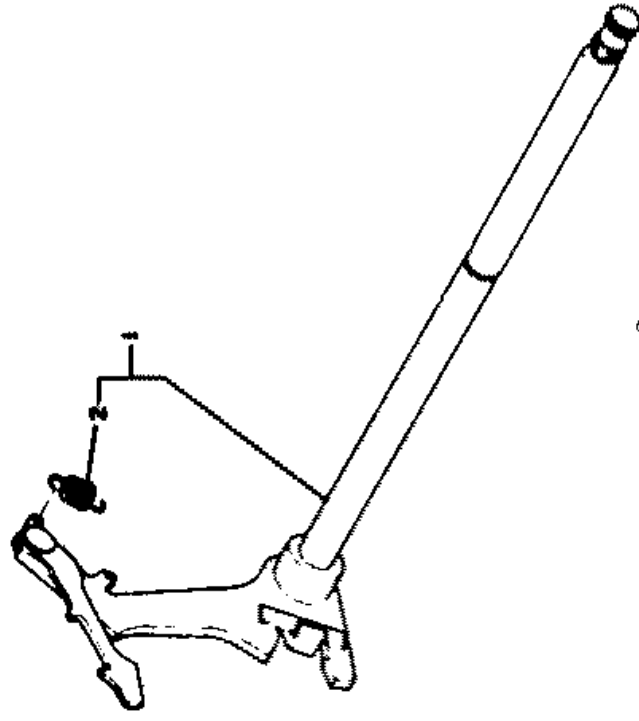
SEE GRIDS J1, J2 FOR SERVICE DATA.

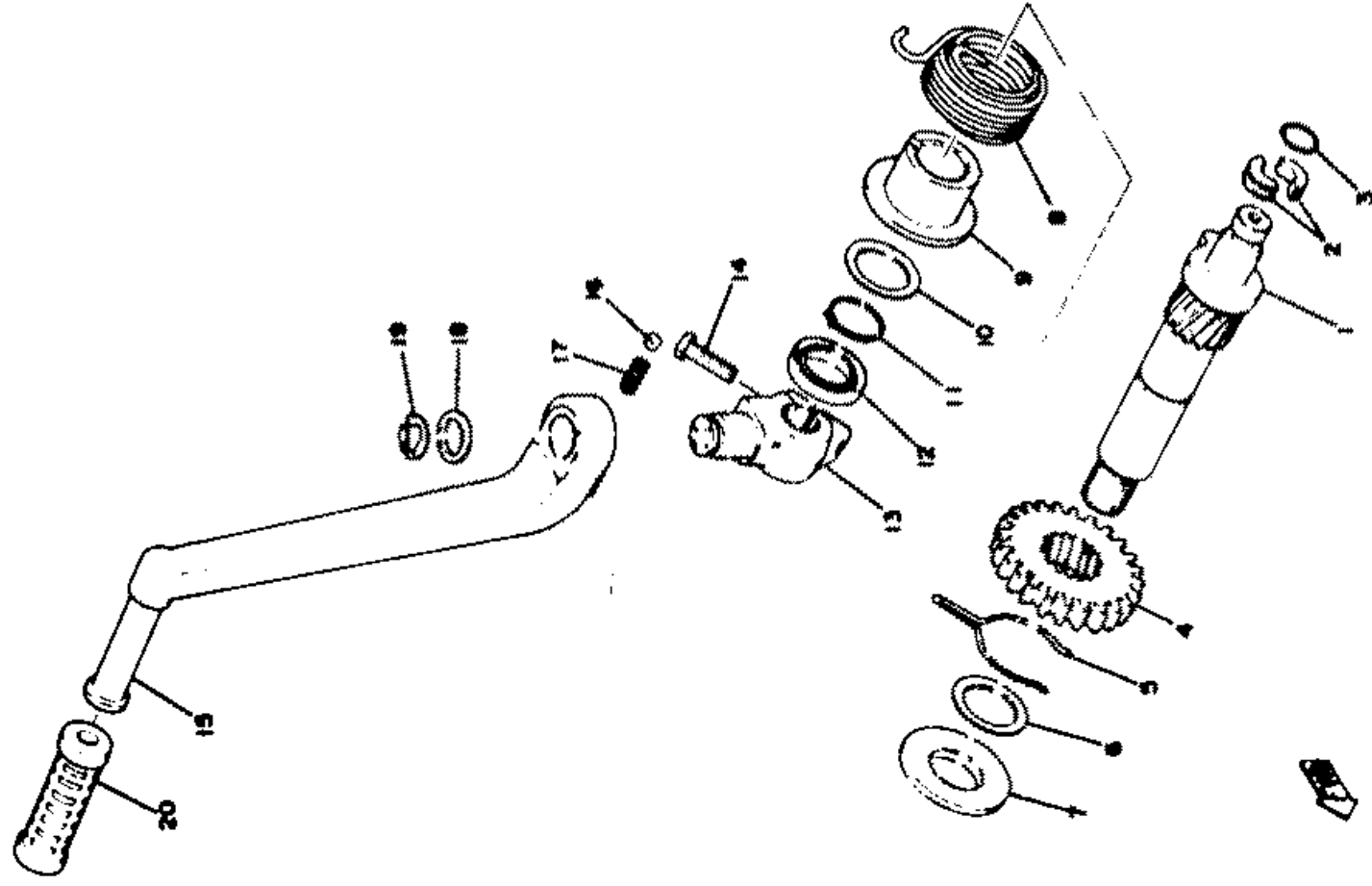
DEF

Ref. No.	Part Number	Description	DEF
1	306-18540-00-00	SHIFT CAM ASSY	1 1 1
2	93604-10011-00	PIN, dowel	2 2 2
3	306-18546-00-00	CAM, shift 2	1 1 1
4	93604-14012-00	PIN, dowel (4-13.8)	4 4 4
5	168-18561-00-00	PLATE, slide	1 1 1
6	93603-14026-00	PIN, dowel (3-14)	1 1 1
7	92901-05300-00	WASHER, tooth	1 1 1
8	98501-05046-00	SCREW, pan head (98501-05045)	1 1 1
9	93320-31501-00	BEARING	1 1 1
10	256-18511-00-00	SHIFT FORK, 5th gear wheel	1 1 1
11	256-18512-00-00	SHIFT FORK, 3rd pinion gear	1 1 1
12	256-18513-00-00	SHIFT FORK, 4th gear wheel	1 1 1
13	90249-08122-00	PIN	3 3 3
14	91401-25025-00	PIN, cotter	3 3 3
15	256-18531-00-00	BAR, shift fork guide	1 1 1
16	90334-10007-00	PLUG (256-15439-00)	1 1 1
17	137-18547-00-00	STOPPER, cam	1 1 1
18	90501-10068-00	SPRING (306-18558-00)	1 1 1
19	90430-16047-00	GASKET (256-18567-00)	1 1 1
20	90109-16392-00	BOLT	1 1 1
21	341-18140-00-00	STOPPER LEVER ASSY	1 1 1
22	90109-06181-00	BOLT (256-18177-00)	1 1 1
23	256-18562-00-00	PLATE, stopper	1 1 1
24	256-18565-00-00	PLATE, screw lock	1 1 1
25	90101-06091-00	BOLT (341-18594-00)	2 2
	90101-06091-00	BOLT (341-18594-00)	1
26	90506-10022-00	SPRING, tension (256-18143-02)	1 1 1

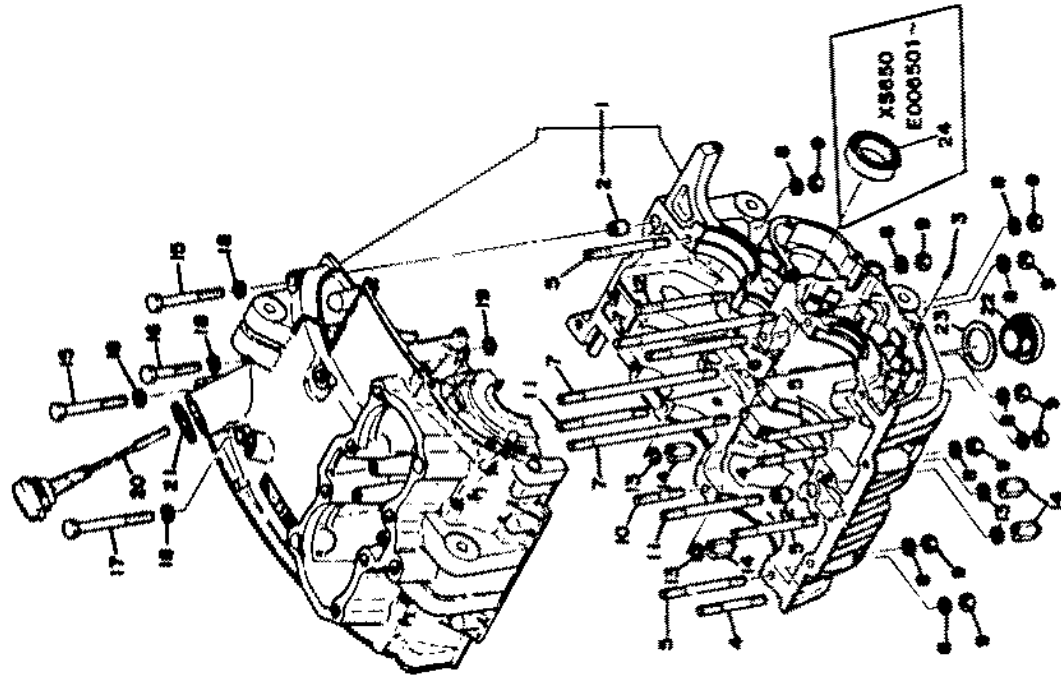


Part No.	Part Number	Description	DEF
1	258-18101-02-00	SHIFT SHAFT ASSY	1 1 1
2	90508-08007-00	SPRING (188-18123-00)	1 1 1
3	90508-32053-00	SPRING (188-18124-00)	1 1 1
4	90149-10018-00	SCREW (188-18133-00)	1 1 1
5	90215-10105-00	WASHER, lock (306-18139-00)	1 1 1
6	95311-10700-00	NUT, hexagon	1 1
	90170-10038-00	NUT, hexagon	1 1
7	93109-14010-00	OIL SEAL (SDD-14-24-6)	1 1 1
8	90201-14222-00	WASHER, plate (248-18137-00)	1 1 1
9	93430-12009-00	CIRCLIP (E-12)	1 1 1
10	447-17467-02-00	GUIDE, chain	1 1 1
11	1J7-18111-01-00	PEDAL, shift (1J7-18111-01-93)	1 1 1
12	132-18113-01-00	COVER, shift pedal	1 1 1
13	97321-06020-00	BOLT, hexagon	1 1 1





Ref. No.	Part Number	Description	DEF
1	256-15660-02-00	KICK AXLE ASS'Y	1 1 1
2	256-15654-00-00	HOLDER	2 2 2
3	256-15673-00-00	CLIP	1 1 1
4	306-15641-01-00	GEAR, kick (25T)	1 1 1
5	90468-26044-00	CLIP (256-15687-00)	1 1 1
6	611-45567-00-01	SHIM (25.5-35-0.1)	1 1 1
	611-45567-00-03	SHIM (25.5-35-0.3)	1 1 1
	611-45567-00-05	SHIM (25.5-35-0.5)	1 1 1
7	90560-25048-00	SPACER (256-15666-00)	1 1 1
8	90508-32062-00	SPRING, kick (256-15665-00)	1 1 1
9	256-15664-01-00	GUIDE, spring	1 1 1
10	90201-25290-00	WASHER, plate (131-15653-00)	2
	90201-25290-00	WASHER, plate (131-15653-00)	1 1
11	93410-25017-00	CIRCLIP	1 1 1
12	93102-25064-00	OIL SEAL (SD-25-35-7)	1 1 1
13	341-15621-00-00	BOSS, kick rank	1
	2M0-15621-00-00	BOSS, kick crank	1 1
14	97321-08030-00	BOLT, hexagon	1 1 1
15	2M0-15620-02-00	CRANK, kick (2M0-15611-00-93)	1 1 1
16	93505-16006-00	BALL (5/16 inch)	1 1 1
17	90501-15091-00	SPRING (168-15622-01)	1 1 1
18	90201-17256-00	WASHER, plate (256-15615-00)	1 1 1
19	93430-12022-00	CIRCLIP (E-12)	1 1 1
20	214-15618-00-00	COVER, kick lever	1 1 1



Ref. No.	Part Number	Description	DEF
1	306-15100-03-00	CRANKCASE ASS'Y	1 1 1
2	91830-22016-00	PIN, dowel (8.4-12-16)	2 2 2
3	93603-14026-00	PIN, dowel (3-14)	1 1 1
4	90116-08196-00	BOLT, stud (256-15192-00)	2 2 2
5	90116-08084-00	BOLT, stud (243-11361-00)	4 4 4
6	90116-08232-00	BOLT, stud	1 1 1
7	90116-08199-00	BOLT, stud (256-15196-00)	3 3 3
8	92903-08200-00	WASHER, plain	8 8 8
9	95301-08600-00	NUT, hexagon	8 8 8
10	90116-08047-00	BOLT, stud (306-15192-00)	1 1 1
11	90116-08066-00	BOLT, stud (306-15193-00)	2 2 2
12	90116-08055-00	BOLT, stud (306-15197-00)	1 1 1
13	90430-08143-00	GASKET (256-11198-00)	6 6 6
	2F0-00000-20-00	GASKET KIT	1 1 1
14	90176-08019-00	NUT, hexagon	6 6 6
15	97323-08075-00	BOLT, hexagon	2 2 2
16	97313-08055-00	BOLT, hexagon (97323-08055)	1 1 1
17	97323-08090-00	BOLT, hexagon	1 1 1
18	92903-08200-00	WASHER, plain	4 4 4
19	256-15395-00-00	GASKET, oil sealing	1 1 1
20	256-15362-02-00	PLUG, oil level	1 1 1
21	90430-29050-00	GASKET (256-15364-00)	1 1 1
22	256-15351-00-00	PLUG, drain	1 1 1
23	256-15353-00-00	GASKET, drain plug	1 1 1
24	93102-34095-00	OIL SEAL (SD-34-46-10.5)	1 1

XS650F

Oiling System	Wet Sump
Capacity: Dry	2500cc
Oil and Filter Change	2000cc
Oil Change	2000cc
Lubricant:	Temp above 5°C (40°F) Below 15°C (60°F)
	Yamalube 4° or SAE 20W40 SE Yamalube 4° or SAE 20W40 SE

XS650D

CAPACITIES - Transmission	(See Engine Oil) Yamalube 4-cycle* (SAE)
Oil Tank or Engine Sump	Change 2,000cc Total 2,500cc

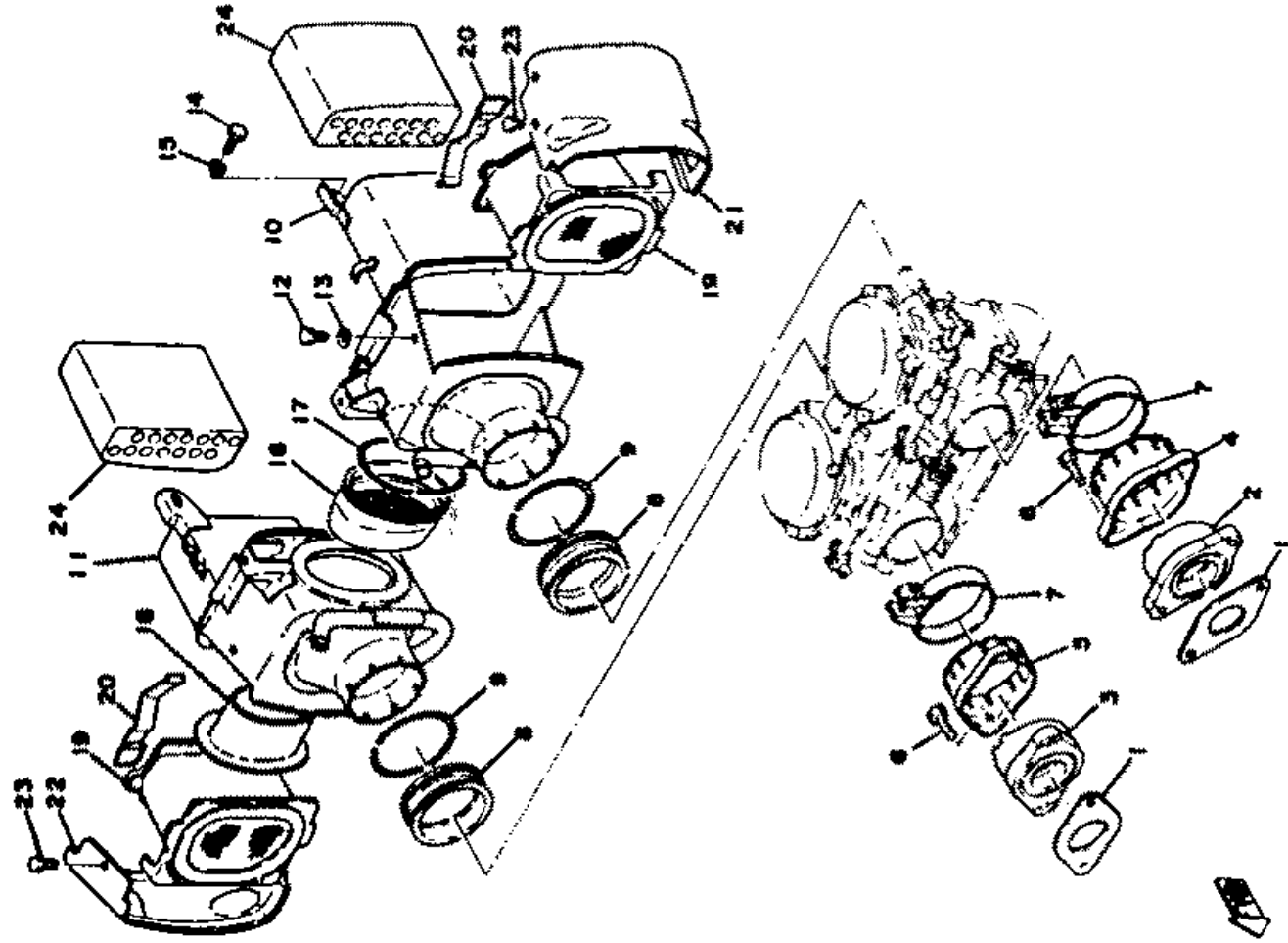
XS650E

Oil Tank or Engine Sump Capacity	Oil Chg 2000cc / Dry 2500cc
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1	256-13556-01-00	GASKET, manifold.....	2
2	447-13555-01-00	MANIFOLD, left.....	1
3	447-13565-01-00	MANIFOLD, right.....	1
4	447-13564-00-00	COVER, manifold left.....	1
5	447-13584-00-00	PIPE, manifold right.....	1
6	91316-06020-00	BOLT, hexagon socket head.....	4
7	90460-58015-00	BAND (371-14456-00).....	2
8	341-14453-00-00	JOINT, cleaner.....	2
9	90506-06006-00	SPRING (256-14487-00).....	2
10	584-14411-00-00	CASE, air cleaner left.....	1
11	584-14421-00-00	CASE, air cleaner right.....	1
12	97301-06016-00	BOLT, hexagon (97301-06015).....	4

XS650D

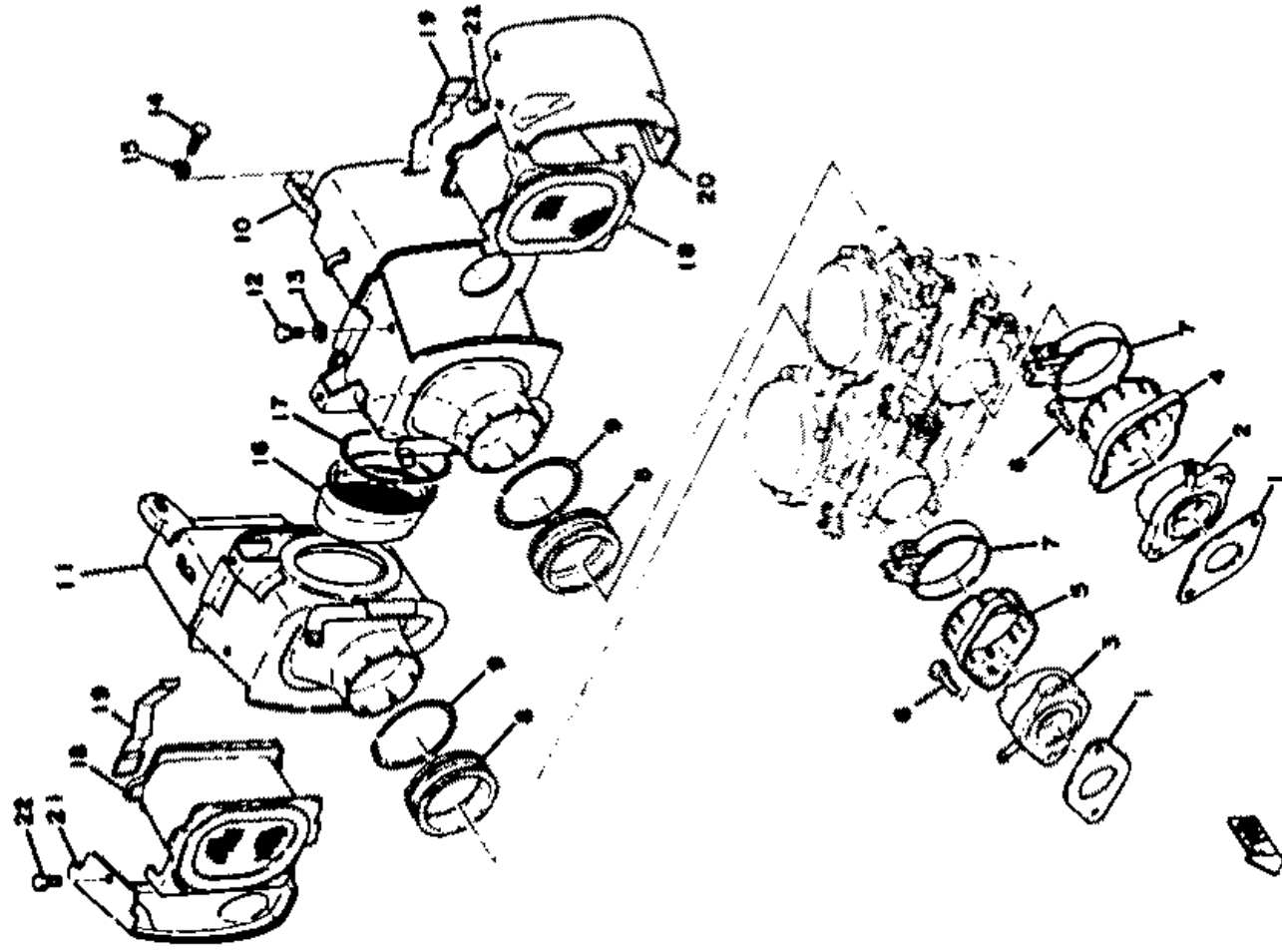
13	92903-06200-00	WASHER, plain.....	4
14	97301-06025-00	BOLT, hexagon.....	2
15	92903-06100-00	WASHER, spring.....	2
16	447-14463-01-00	JOINT, air cleaner.....	1
17	90506-06095-00	SPRING (288-14455-00).....	1
18	447-14454-00-00	JOINT.....	1
19	533-14451-00-00	ELEMENT, air cleaner.....	2
20	533-14468-02-00	SPRING, element fitting.....	2
21	447-14412-01-00	CAP, case left.....	1
22	447-14422-01-00	CAP, case right.....	1
23	97301-06010-00	BOLT, hexagon.....	2
24	533-14441-00-00	SILENCER, intake.....	2



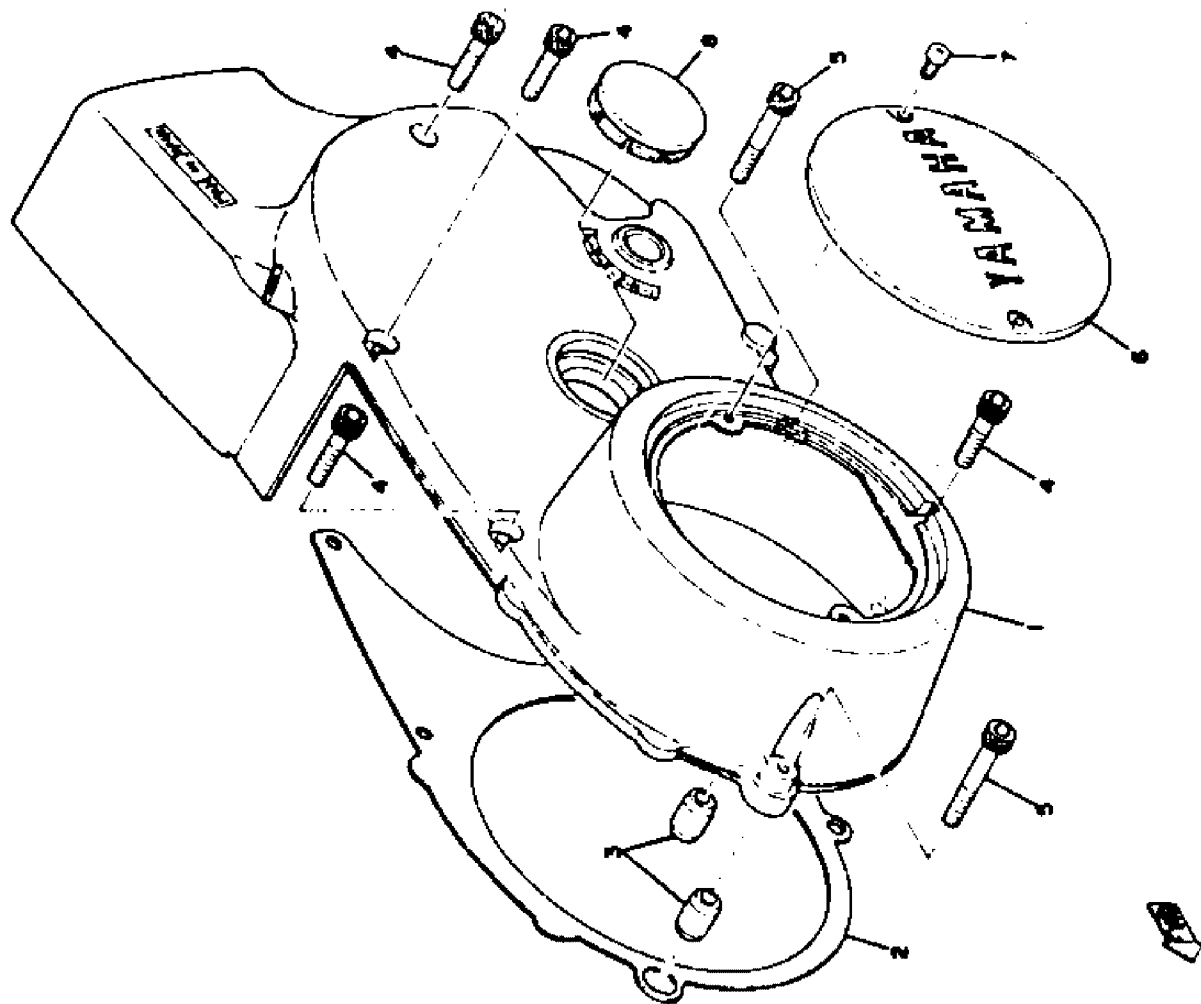
1	256-13556-01-00	GASKET, manifold.....	2 2
2	2F0-13586-00-00	JOINT, carburetor left.....	1 1
3	2F0-13596-00-00	JOINT, carburetor right.....	1 1
4	2F0-13564-00-00	COVER, manifold left.....	1 1
5	2F0-13584-00-00	PIPE, manifold right.....	1 1
6	91316-06020-00	BOLT, hexagon socket head.....	4 4
7	90460-58015-00	BAND (371-14456-00).....	2 2
8	341-14453-00-00	JOINT, cleaner.....	2 2
9	90506-06006-00	SPRING (256-14487-00).....	2 2
10	1E1-14411-00-00	CASE, air cleaner left.....	1 1
11	1E1-14421-00-00	CASE, air cleaner right.....	1 1

XS650E/F

12	97301-06016-00	BOLT, hexagon (97301-06015)	4
13	97301-06014-00	BOLT, hexagon.....	4
14	92903-06200-00	WASHER, plain.....	4 4
15	97301-06025-00	BOLT, hexagon.....	2 2
16	92903-06100-00	WASHER, spring.....	2 2
17	447-14463-01-00	JOINT, air cleaner.....	1 1
18	90506-06095-00	SPRING (288-14455-00).....	1 1
19	533-14451-00-00	ELEMENT, air cleaner.....	2 2
20	533-14468-02-00	SPRING, element fitting.....	2 2
21	447-14412-01-00	CAP, case left.....	1 1
22	447-14422-01-00	CAP, case right.....	1 1
23	97301-06010-00	BOLT, hexagon.....	2 2

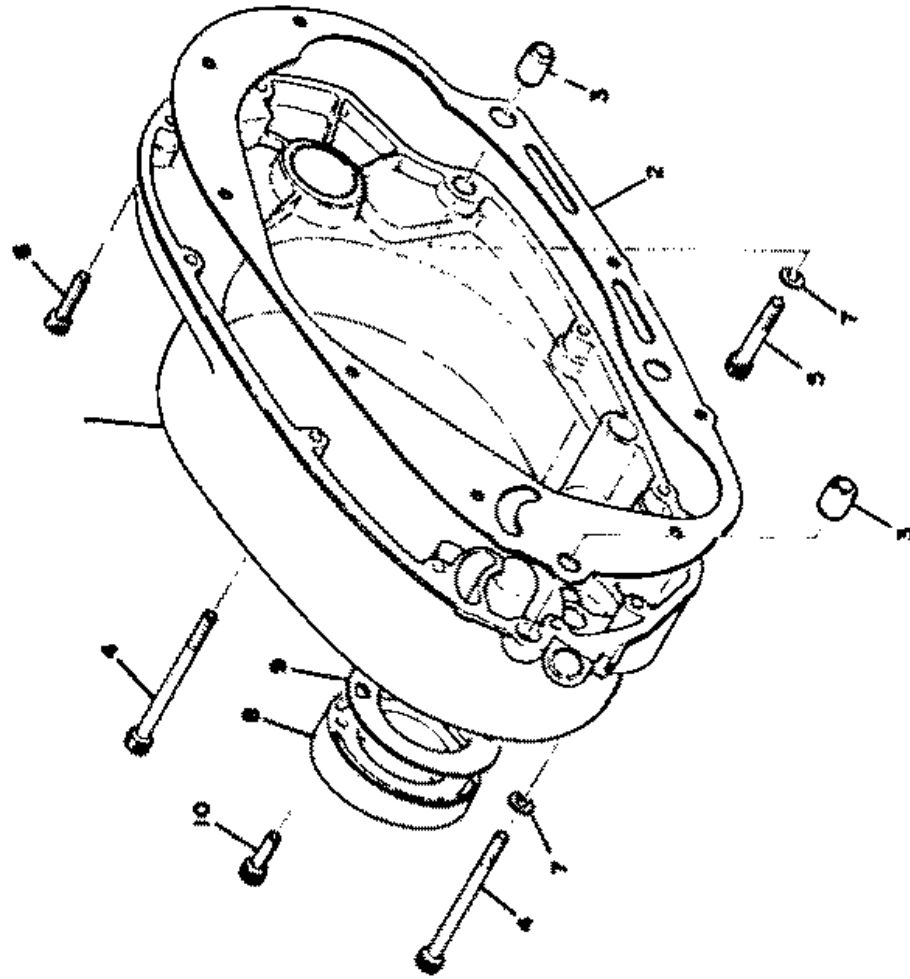


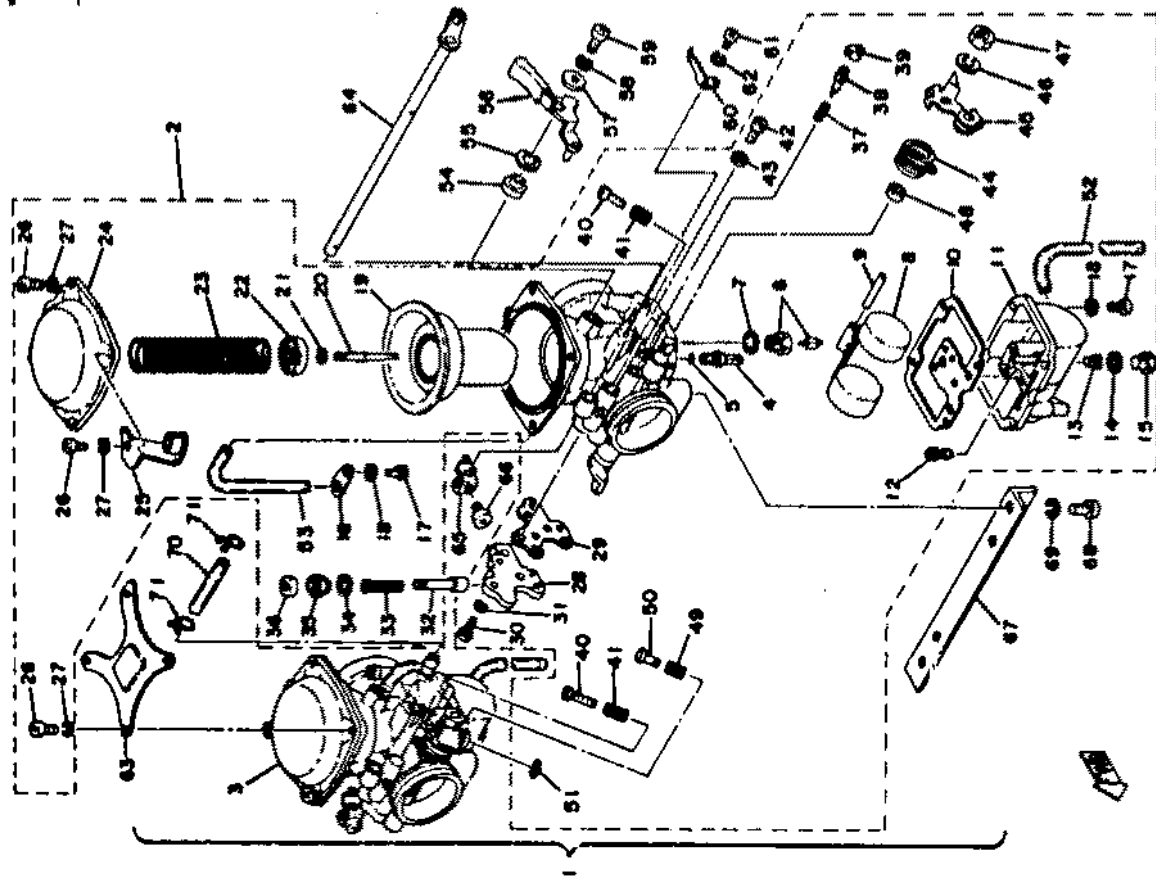
Ref. No.	Part Number	Description	DEF
1	584-15411-00-00	COVER, crankcase left.....	1 1 1
2	306-15461-00-00	GASKET, crankcase cover left...	1 1 1
3	91830-22016-00	PIN, dowel (8.4-12-16).....	2 2 2
4	91316-06025-00	BOLT, hexagon socket head.....	4 4 4
	2F0-00000-20-00	GASKET KIT.....	1 1 1
5	91316-06040-00	BOLT, hexagon socket head.....	2 2 2
6	256-15425-00-00	COVER, generator.....	1 1 1
7	98501-05010-00	SCREW, pan head.....	2 2 2
8	256-15417-01-00	COVER, adjust.....	1 1 1



DEF

Ref. No.	Part Number	Description	
1	99999-01146-00	COVER, crankcase right (256-15421-04)	1 1 1
	4E3-15421-00-00	. COVER, crankcase 2	1 1 1
	2H7-15361-00-00	. GAUGE, level	1 1 1
2	256-15451-00-00	GASKET, crankcase cover right	1 1 1
3	91830-22016-00	PIN, dowel (8.4-12-16)	2 2 2
4	91316-06075-00	BOLT, hexagon socket head	4 4 4
5	91316-06040-00	BOLT, hexagon socket head	1 1 1
	2F0-00000-20-00	GASKET KIT	
6	91316-06025-00	BOLT, hexagon socket head	5 5 5
7	90430-06014-00	GASKET (256-11396-00)	4 4 4
8	256-15416-02-00	COVER, oil cleaner	1 1 1
9	256-15456-00-00	GASKET	1 1 1
10	91316-06025-00	BOLT, hexagon socket head	2 2 2





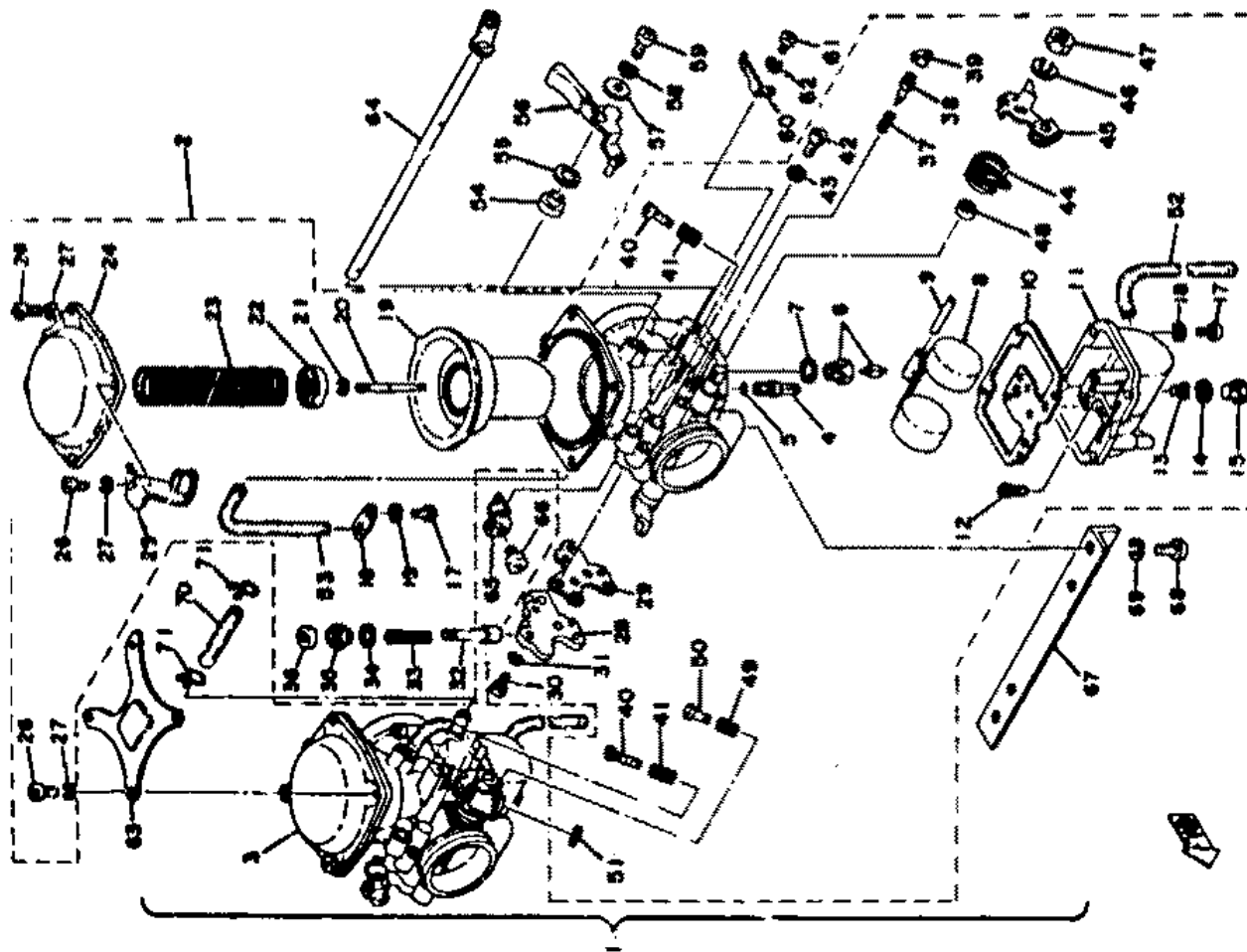
Ref. No.	Part Number	Description	D
1		CARBURETOR ASS'Y.....	1s
2	584-14901-00-00	CARBURETOR ASS'Y, left.....	1
3	584-14902-00-00	CARBURETOR ASS'Y, right.....	1
4	341-14941-88-00	NOZZLE, main (Z-8).....	2
5	93210-03142-00	O-RING.....	2
6	168-14190-20-00	VALVE SEAT ASS'Y (No. 20).....	2
7	214-14195-00-00	WASHER, valve seat.....	2
8	256-14985-00-00	FLOAT.....	2
9	127-14186-00-00	PIN, float.....	2
10	256-14984-00-00	GASKET, float chamber.....	2
11	584-14981-16-00	BODY, float chamber.....	2
12	584-14142-25-00	JET, pilot (No. 25).....	2

XS650D

13	256-14944-24-00	JET, main (No. 120).....	2
	256-14944-75-00	JET, main (No. 122.5).....	2
	256-14944-25-00	JET, main (No. 125).....	2
	256-14944-76-00	JET, main (No. 127.5).....	2
14	256-14956-01-00	WASHER.....	2
15	256-14991-00-00	SCREW, plug.....	2
16	256-14148-01-00	PLATE.....	2
17	98501-04012-00	SCREW, pan head.....	8
18	92901-04100-00	WASHER, spring.....	8
19	256-14940-00-00	DIAPHRAGM ASS'Y (256-14940-01).....	2
20	584-14116-01-00	NEEDLE (4M1-3).....	2
21	584-14919-00-00	CLIP.....	2
22	256-14946-00-00	PLATE, needle fitting.....	2

XS65

CARBURETOR (mfr.) (type) (I.D. number)	Mikuni / BS38 / 58400
Main Jet	No. 122.5 / M.A.J. 1.0
Needle Jet	Z-8
Jet Needle/Clip Position	4M1-3
Curaway	No. 120
Pilot Jet	No. 25
Air Jet	(1.0) (1.4)
Starter Jet	No. 1; No. 80 / No. 2; 0.5
Air Screw (turns out) (idle speed)	1 1/2 ± 1/8 (mixture screw - with cap removed)
Float Level	25.0 ± 1.0mm



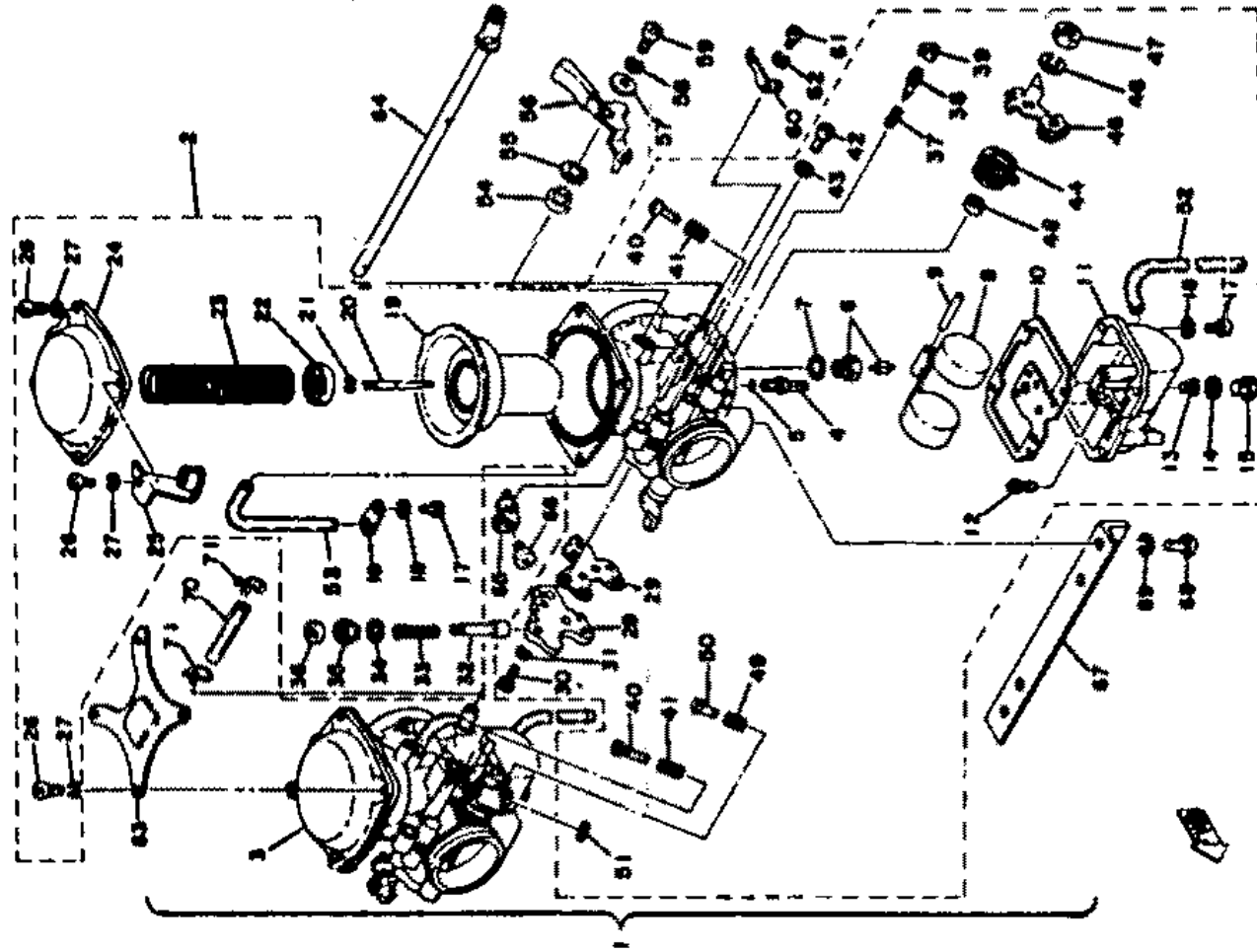
Ref. No.	Part Number	Description	D
23	584-14933-00-00	.. SPRING, diaphragm	2
24	256-14958-00-00	.. COVER, diaphragm	2
25	447-14926-00-00	.. THROTTLE BRACKET ASSY 1	1
26	98503-05015-00	.. SCREW, pan head	8
27	92903-06100-00	.. WASHER, spring	8
28	584-14907-00-00	.. BODY, starter	2
29	447-14979-00-00	.. GASKET, starter body	2
30	98501-04012-00	.. SCREW, pan head	6
31	92901-04100-00	.. WASHER, spring	6
32	584-14171-00-00	.. PLUNGER, starter	2
33	256-14135-00-00	.. SPRING, plunger	2
34	256-14954-00-00	.. WASHER	2
35	584-14175-00-00	.. CAP, plunger	2

XS650D

36	306-14173-00-00	.. COVER, plunger cap	2
37	127-14134-00-00	.. SPRING, air adjusting	2
38	584-14923-00-00	.. SCREW, pilot	2
39	584-14969-00-00	.. CAP, pilot screw	2
40	256-14922-01-00	.. SCREW, throttle stop	3
41	256-14934-01-00	.. SPRING, throttle stop	3
42	341-14991-00-00	.. PLUG, screw	2
43	584-14956-00-00	.. WASHER, plug screw	2
44	584-14931-00-00	.. SPRING, throttle left	1
45	306-14964-00-00	.. LEVER, throttle left	1
46	92903-08100-00	.. WASHER, spring	2
47	95301-12600-00	.. NUT, hexagon	2

YCSA

CARBURETOR (mfr.) (type) (I.D. number)	Mikuni / BS38 / 58400
Main Jet	No. 122.5 / M.A.J. 1.0
Needle Jet	Z-8
Jet Needle/Clip Position	4M1-3
Curaway	No. 120
Pilot Jet	No. 25



XS650D

Ref. No.	Part Number	Description	D
48	256-14997-00-00	SEAL (8φ).....	1
49	584-14934-00-00	SPRING, adjusting.....	1
50	584-14992-00-00	ROD, push.....	1
51	584-14937-00-00	CLIP, push rod.....	1
52	256-14197-01-00	HOSE.....	2
53	256-14987-00-00	HOSE.....	2
54	256-14918-00-00	RING.....	1
55	584-14955-00-00	WASHER, starter lever.....	1
56	306-14905-02-00	LEVER ASSY.....	1
57	256-14952-00-00	WASHER.....	1
58	92901-04100-00	WASHER, spring.....	1
59	98501-04012-00	SCREW, pan head.....	1
60	584-14938-00-00	SPRING, starter lever.....	1
61	98501-04005-00	SCREW, pan head.....	1
62	92901-04100-00	WASHER, spring.....	1
63	584-14243-00-00	PLATE, upper.....	1
64	584-14977-00-00	SHAFT, starter lever.....	1
65	1J7-14986-00-00	LEVER, starter 2 (584-14905-00).....	2
66	584-14991-00-00	SCREW, starter lever 2.....	2
67	584-14146-00-00	PLATE, lower.....	1
68	92503-06015-00	SCREW, pan head.....	4
69	92903-06100-00	WASHER, spring.....	4
70	306-14988-00-00	HOSE.....	1
71	341-14919-00-00	CLIP.....	2

CARBURETOR (mfr.) [type] (I.D. number)	Mikuni / BS38 / 58400
Main Jet	No. 122.5 / M.A.I.10
Needle Jet	Z-8
See Manual/Trim Position	4M1.3

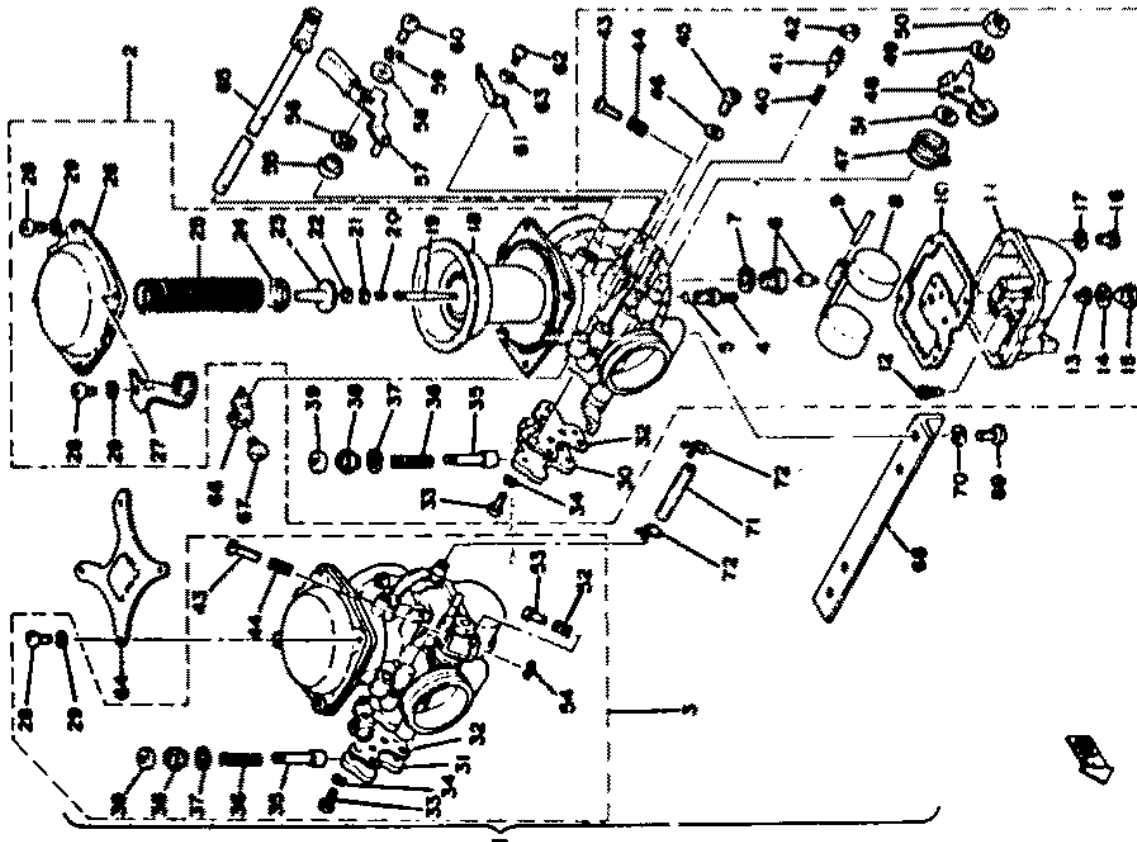
1	CARBURETOR ASS'Y.....	1s
2	2FO-14901-00-00	1
3	2FO-14902-00-00	1
4	2FO-14941-82-00	2
5	93210-03142-00	2
6	188-14190-20-00	2
7	214-14195-00-00	2
8	256-14985-00-00	2
9	127-14185-00-00	2
10	256-1984-00-00	2
11	1J7-14981-09-00	2
12	584-14142-27-00	2

XS650E

13	256-14944-26-00	2
14	256-14944-27-00	2
15	256-14944-28-00	2
16	256-14956-01-00	2
17	1A0-14991-00-00	2
18	98501-04012-00	8
19	92901-04100-00	8
20	2FO-14940-00-00	2
21	2FO-14116-02-00	2
22	2FO-14589-00-00	2
23	256-14919-00-00	2
24	2FO-14918-00-00	2
25	2F3-14946-00-00	2

XS650

B-8



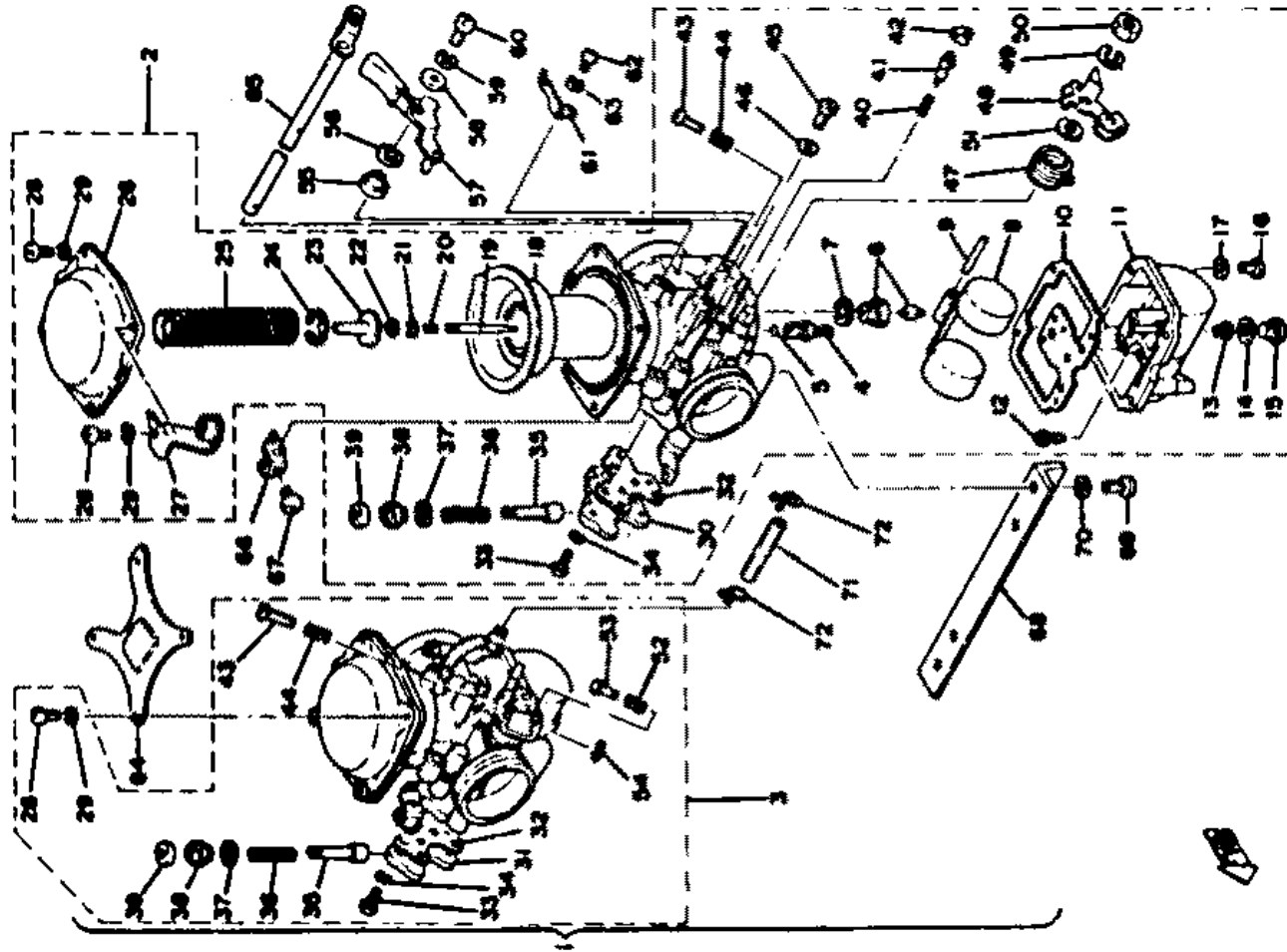
CARBURETOR - mfr./type/I.D. number	Mixture / BS38 / 2FO 00
Main Jet/Pilot Jet	135 / 27.5
Needle Jet/Needle-Clip Position	2.2 / 502-3
Slide Outwear or Throttle Valve	1.70
Float Level	24mm ± 1mm
Mixture Screw - turns out/dia rpm	2 1/2 / 1200 ± 50 rpm

Ref. No.	Part Number	Description
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24	2FO-14919-00-00	CLIP	2
25	2J-14933-00-00	SPRING, diaphragm	2
26	256-14958-00-00	COVER, diaphragm	2
27	447-14928-00-00	THROTTLE BRACKET ASSY	1
28	98501-05018-00	SCREW, pan head	8
29	92903-06100-00	WASHER, spring	8
30	2FO-14907-00-00	BODY, starter left	1
31	1A8-14907-00-00	BODY, starter right	1
32	447-14979-00-00	GASKET, starter body	2
33	98501-04012-00	SCREW, pan head	6
34	92901-04100-00	WASHER, spring	6
35	584-14171-00-00	PLUNGER, starter	2

XS650E

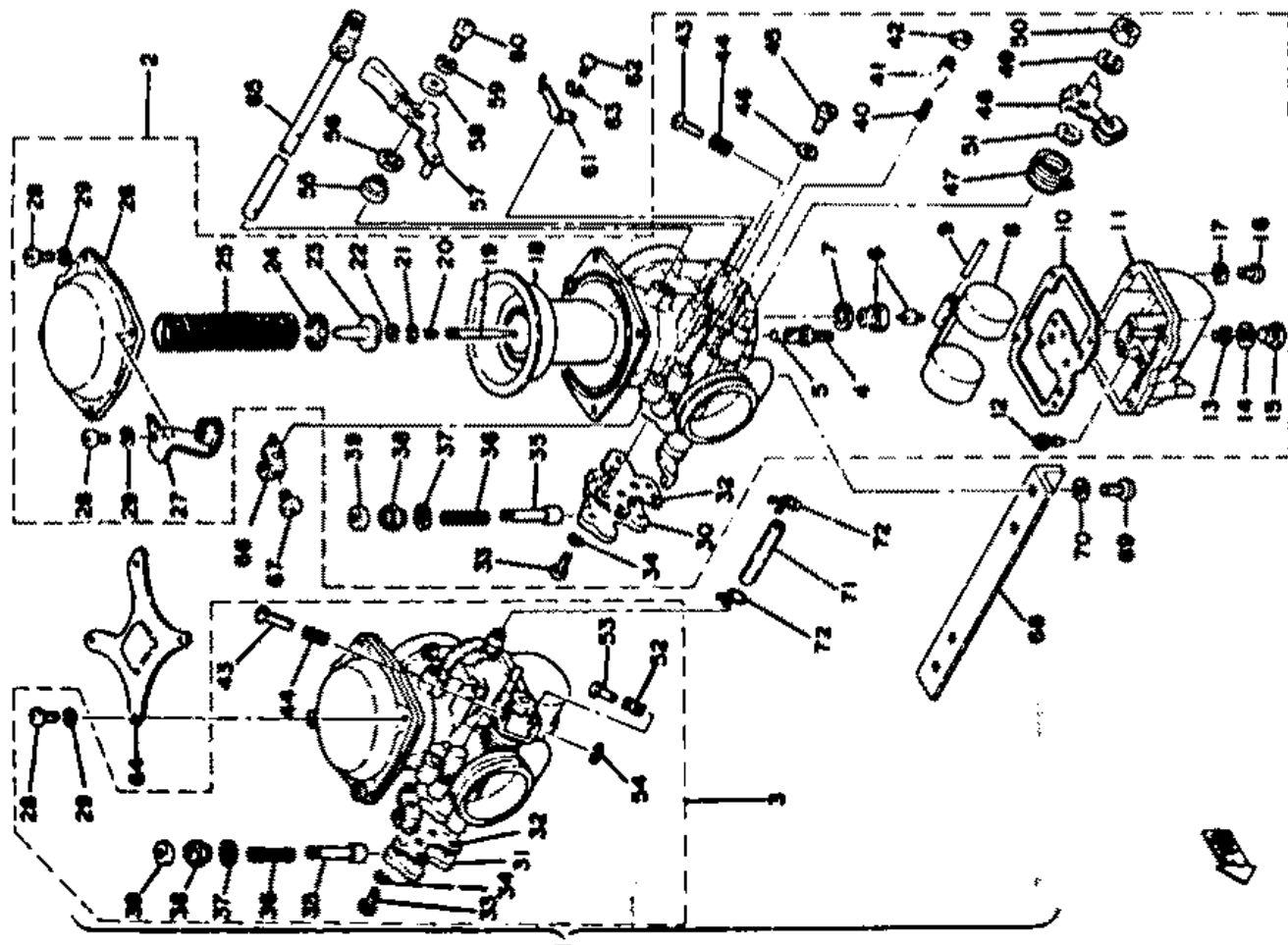
36	256-14135-00-00	SPRING, plunger	2
37	256-14954-00-00	WASHER	2
38	584-14176-00-00	CAP, plunger	2
39	306-14173-00-00	COVER, plunger cap	2
40	2FO-14134-00-00	SPRING, air adjusting	2
41	2FO-14923-00-00	SCREW, pilot	2
42	584-14969-00-00	CAP, pilot screw	2
43	256-14922-01-00	SCREW, throttle stop	2
44	256-14934-01-00	SPRING, throttle stop	2
45	341-14991-00-00	PLUG, screw	2
46	584-14956-00-00	WASHER, plug screw	2
47	584-14931-00-00	SPRING, throttle left	1
48	306-14964-00-00	LEVER, throttle left	1



Ref. No.	Part Number	Description	
49	92903-08100-00	WASHER, spring	2
50	95301-12000-00	NUT, hexagon	2
51	306-14970-00-00	COLLAR, spring	1
52	584-14934-00-00	SPRING, adjusting	1
53	584-14992-00-00	ROD, push	1
54	584-14937-00-00	CLIP, push rod	1
55	256-14918-00-00	RING	1
56	584-14955-00-00	WASHER, starter lever	1
57	306-14905-02-00	LEVER ASS'Y	1
58	256-14952-00-00	WASHER	1
59	92901-04100-00	WASHER, spring	1
60	98501-04012-00	SCREW, pan head	1

XS650E

61	584-14938-00-00	SPRING, starter lever	1
62	98501-04005-00	SCREW, pan head	1
63	92901-04100-00	WASHER, spring	1
64	584-14243-00-00	PLATE, upper	1
65	2F0-14977-00-00	SHAFT, starter lever	1
66	2F0-14905-00-00	LEVER, starter 2	2
67	584-14991-00-00	SCREW, starter lever 2	2
68	584-14146-00-00	PLATE, lower	1
69	92503-06015-00	SCREW, pan head	4
70	92903-06100-00	WASHER, spring	4
71	306-14988-00-00	HOSE	1
72	341-14919-00-00	CLIP	2

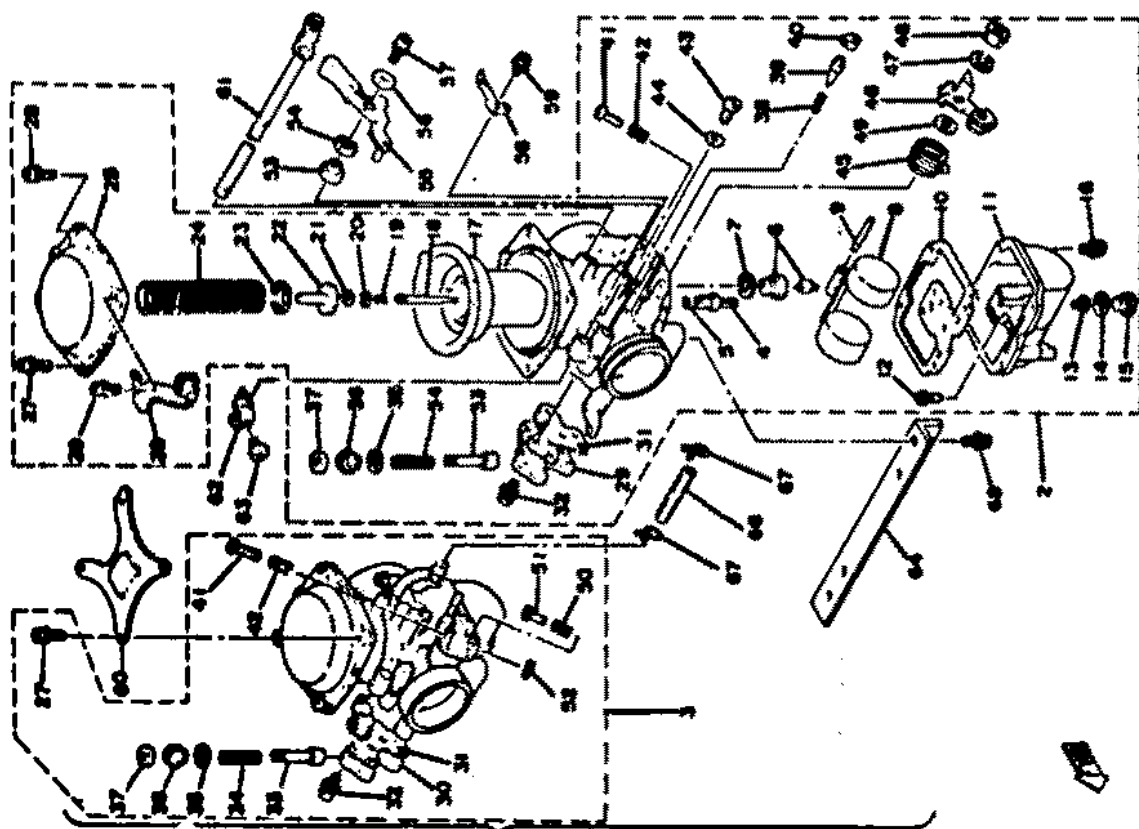


1		CARBURETOR ASS'Y.....	1s 1s N/A 000
2	2F0-14901-00-00	CARBURETOR ASS'Y, left....	1 1
3	2F0-14902-00-00	CARBURETOR ASS'Y, right....	1 1
4	2F0-14941-82-00	NOZZLE, main (Z-2)	2 2
5	93210-03142-00	O-RING.....	2 2
6	168-14190-20-00	VALVE SEAT ASS'Y (#20)....	2 2
7	214-14195-00-00	WASHER, valve seat.....	2 2
8	256-14985-00-00	FLOAT.....	2 2
9	127-14186-00-00	PIN, float.....	2 2
10	256-14984-00-00	GASKET, float chamber.....	2 2
11	1J7-14981-09-00	BODY, float chamber.....	2 2

XS650 E006501~ /F

12	584-14142-27-A0	JET, pilot (#27.5)	2 2
13	256-14944-27-A0	JET, main (#135)	2 2
14	256-14956-01-00	WASHER.....	2 2
15	1A8-14991-00-00	SCREW, plug.....	2 2
16	97601-04112-00	SCREW, pan head w/washer	8 8
17	2F0-14940-00-00	DIAPHRAGM ASS'Y.....	2 2
18	2F0-14116-02-00	NEEDLE (502-3)	2 2
19	2F0-14589-00-00	SPRING	2 2
20	256-14919-00-00	CLIP	2 2
21	2F0-14918-00-00	RING.....	2 2
22	2F3-14946-00-00	PLATE, needle fitting	2 2
23	2F0-14919-00-00	CLIP	2 2

XS650E/F



XS850F

CARBURETOR - Mfr./Type/I.D. Number	Mikuni / BSJ8 / 2F000
Main Jet/Pilot Jet	135 / 27.5
Needle Jet/Needle-Clip Position	2-2 / 502-3
Slide Outflow or Throttle Valve	120
Float Level	24 ± 2.5mm
Idle RPM	1200
CO % @ Idle (Diagnostic Use Only)	3 ± 2%

Part
No.

Part
Number

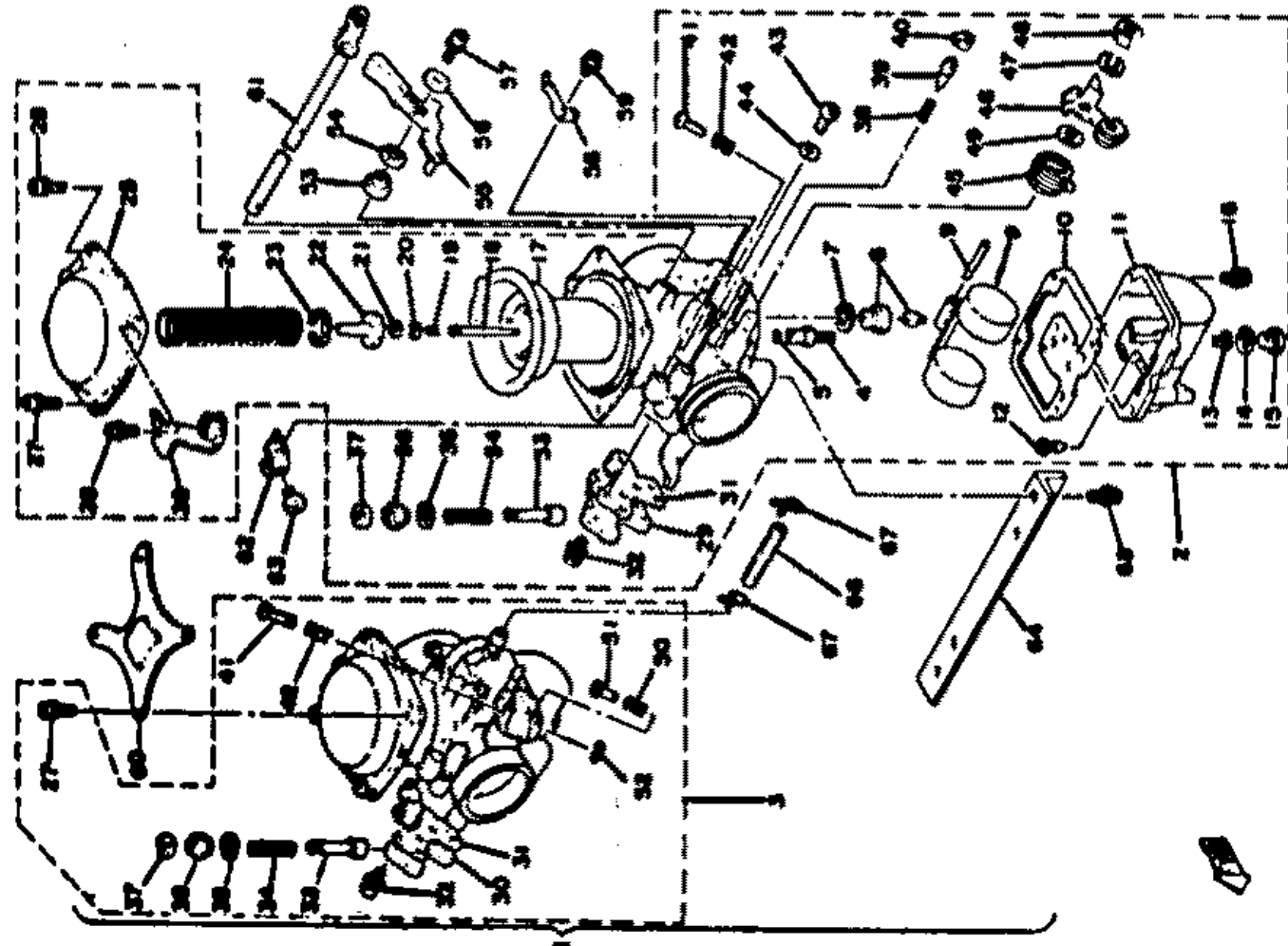
Description

DEF

24	2FO-14933-00-00	.. SPRING, diaphragm	2 2
25	256-14958-00-00	.. COVER, diaphragm	2 2
26	447-14926-00-00	.. THROTTLE BRACKET ASSY	1 1
27	97602-05116-00	.. SCREW, pan head w/washer	4 4
28	97601-05114-00	.. SCREW, pan head w/washer	4 4
29	2FO-14907-00-00	.. BODY, starter left	1 1
30	1A8-14907-00-00	.. BODY, starter right	1 1
31	447-14979-00-00	.. GASKET, starter body	2 2
32	97601-04112-00	.. SCREW, pan head w/washer	6 6
33	584-14171-00-00	.. PLUNGER, starter	2 2
34	256-14135-00-00	.. SPRING, plunger	2 2

XS650 E006501 ~

35	256-14954-00-00	.. WASHER	2 2
36	584-14176-00-00	.. CAP, plunger	2 2
37	306-14173-00-00	.. COVER, plunger cap	2 2
38	2FO-14134-00-00	.. SPRING, air adjusting	2 2
39	2FO-14923-00-00	.. SCREW, pilot	2 2
40	584-14969-00-00	.. CAP, pilot screw	2 2
41	256-14922-01-00	.. SCREW, throttle stop	2 2
42	256-14934-01-00	.. SPRING, throttle stop	2 2
43	341-14991-00-00	.. PLUG, screw	2 2
44	584-14956-00-00	.. WASHER, plug screw	2 2
45	584-14931-00-00	.. SPRING, throttle left	1 1



DEF

Part
Number

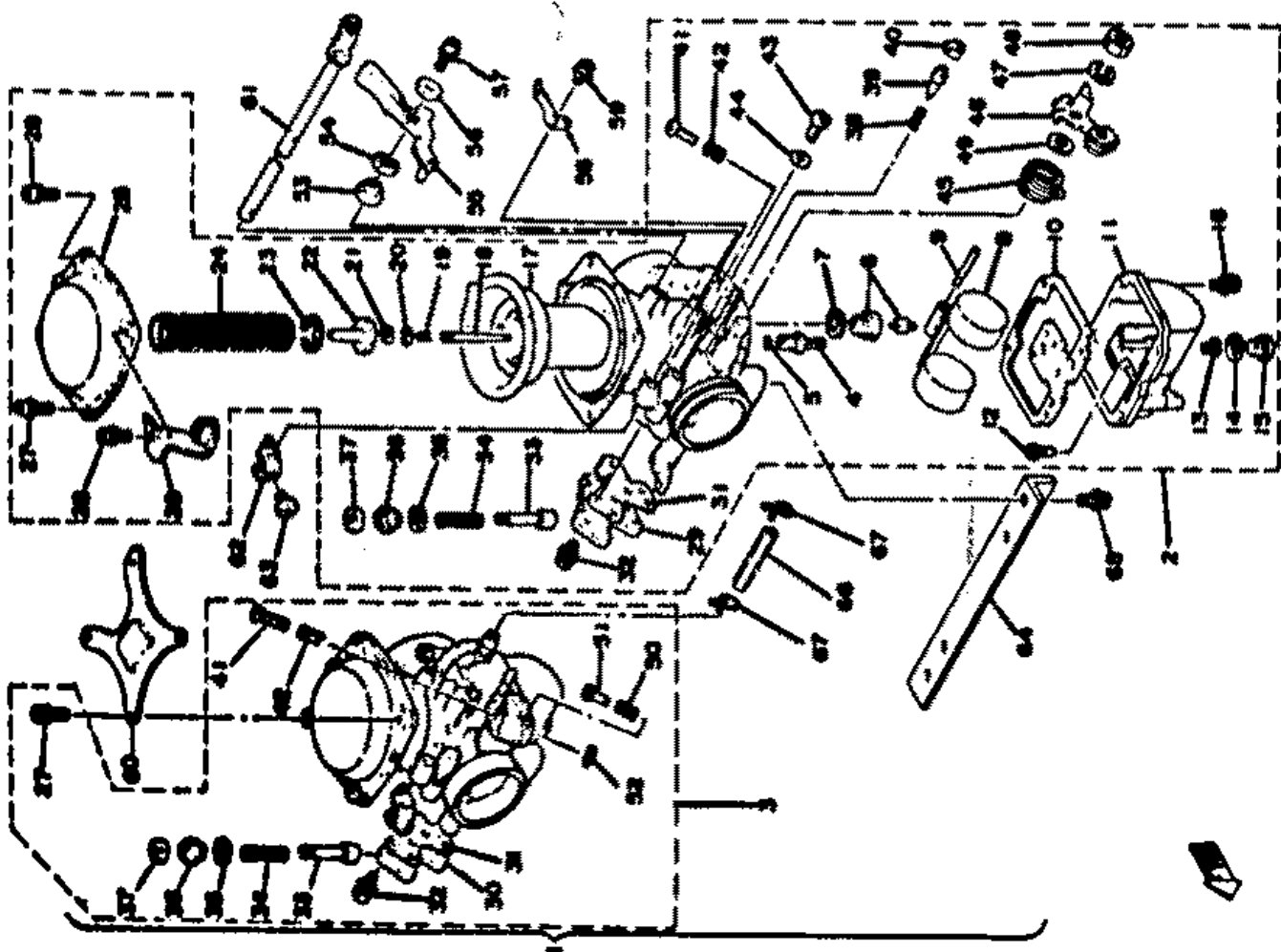
Description

46	306-14964-00-00	LEVER, throttle left.....	1 1
47	92903-08100-00	WASHER, spring.....	2 2
48	90170-12175-00	NUT, hexagon.....(650E)	2
49	95303-08600-00	NUT, hexagon (98803-08100)	2
50	306-14970-00-00	COLLAR, spring.....	1 1
51	584-14934-00-00	SPRING, adjusting.....	1 1
52	584-14992-00-00	ROD, push.....	1 1
53	584-14937-00-00	CLIP, push rod.....	1 1
54	256-14918-00-00	RING.....	1 1
55	584-14955-00-00	WASHER, starter lever.....	1 1
56	306-14905-02-00	LEVER ASS'Y.....	1 1
57	256-14952-00-00	WASHER.....	1 1

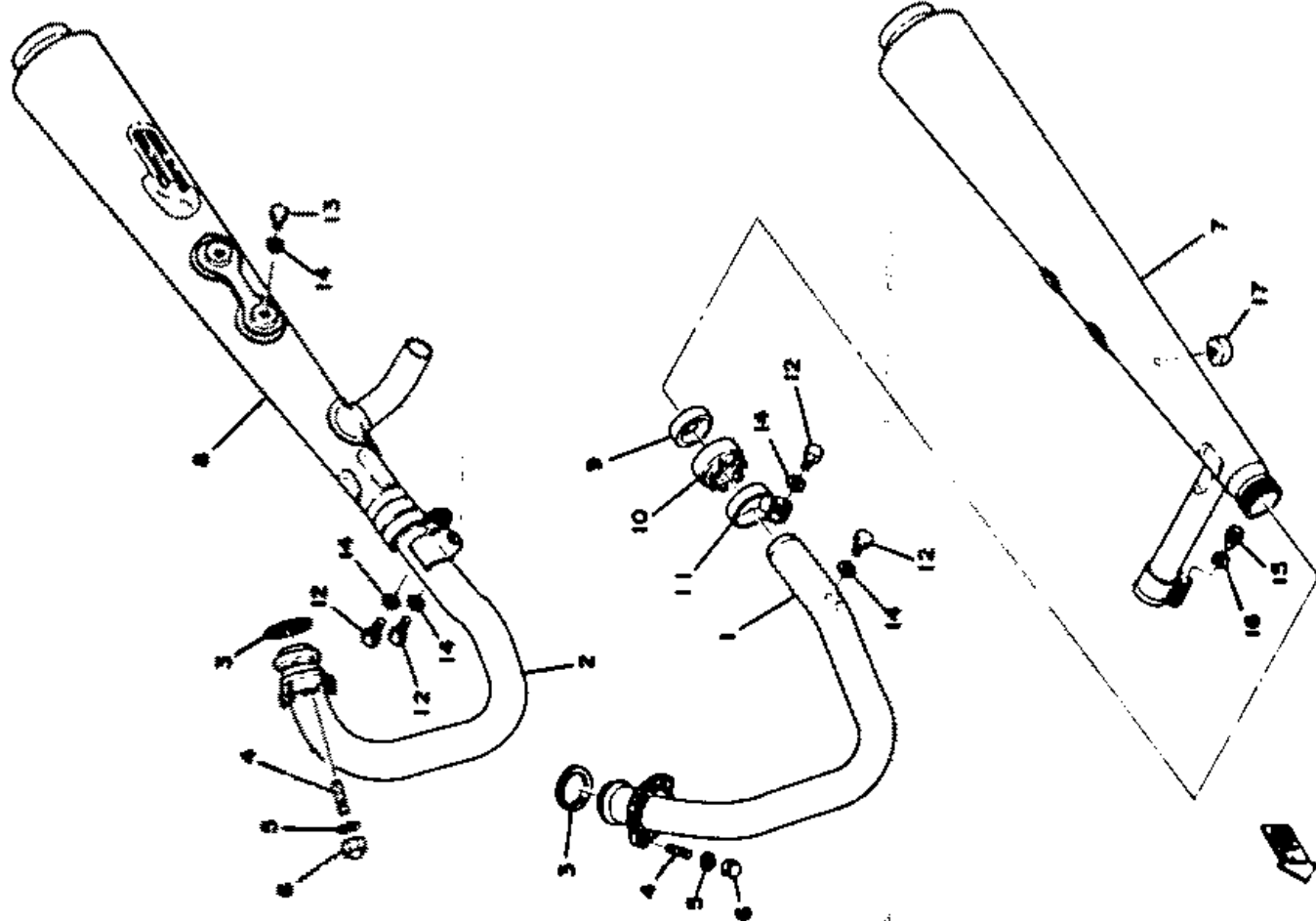
XS650 E006501~1

57	97601-04112-00	SCREW, pan head w/washer	1 1
58	584-14938-00-00	SPRING, starter lever.....	1 1
59	97601-04106-00	SCREW, pan head w/washer	1 1
60	584-14243-00-00	PLATE, upper.....	1 1
61	2F0-14977-00-00	SHAFT, starter lever.....	1 1
62	2F0-14905-00-00	LEVER, starter 2.....	2 2
63	584-14991-00-00	SCREW, starter lever 2.....	2 2
64	584-14146-00-00	PLATE, lower.....	1 1
65	97601-06114-00	SCREW, pan head w/washer	4 4
66	306-14988-00-00	HOSE.....	1 1
67	341-14919-00-00	CLIP.....	2 2

VOCENE/E



No.	Number	Description	UET
1	447-14610-03-00	PIPE, exhaust left (447-14611-03)	1 1 1
2	447-14620-03-00	PIPE, exhaust right (447-14621-03)	1 1 1
3	90430-38054-00	GASKET (256-14613-00)	2 2 2
4	90116-10195-00	BOLT, stud (306-14651-00)	4 4 4
5	92903-10100-00	WASHER, spring	4 4 4
6	95303-10800-00	NUT, crown	4 4 4
7	584-14711-01-00	MUFFLER, left (584-14711-00)	1 1 1
8	584-14721-01-00	MUFFLER, right (584-14721-00)	1 1 1
9	371-14714-03-00	GASKET, muffler joint	2 2 2
10	371-14713-00-00	NUT, muffler joint	2 2 2
11	90460-46057-00	BAND (447-14715-02)	2 2 2
12	90105-10058-00	BOLT, hexagon	4 4 4
13	97301-10016-00	BOLT, hexagon (97301-10015)	4 4 4
14	92903-10100-00	WASHER, spring	8 8 8
15	97301-08025-00	BOLT, hexagon	1 1 1
16	92901-08600-00	WASHER, plate	1 1 1
17	371-27114-00-00	STOPPER, main stand	1 1 1



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

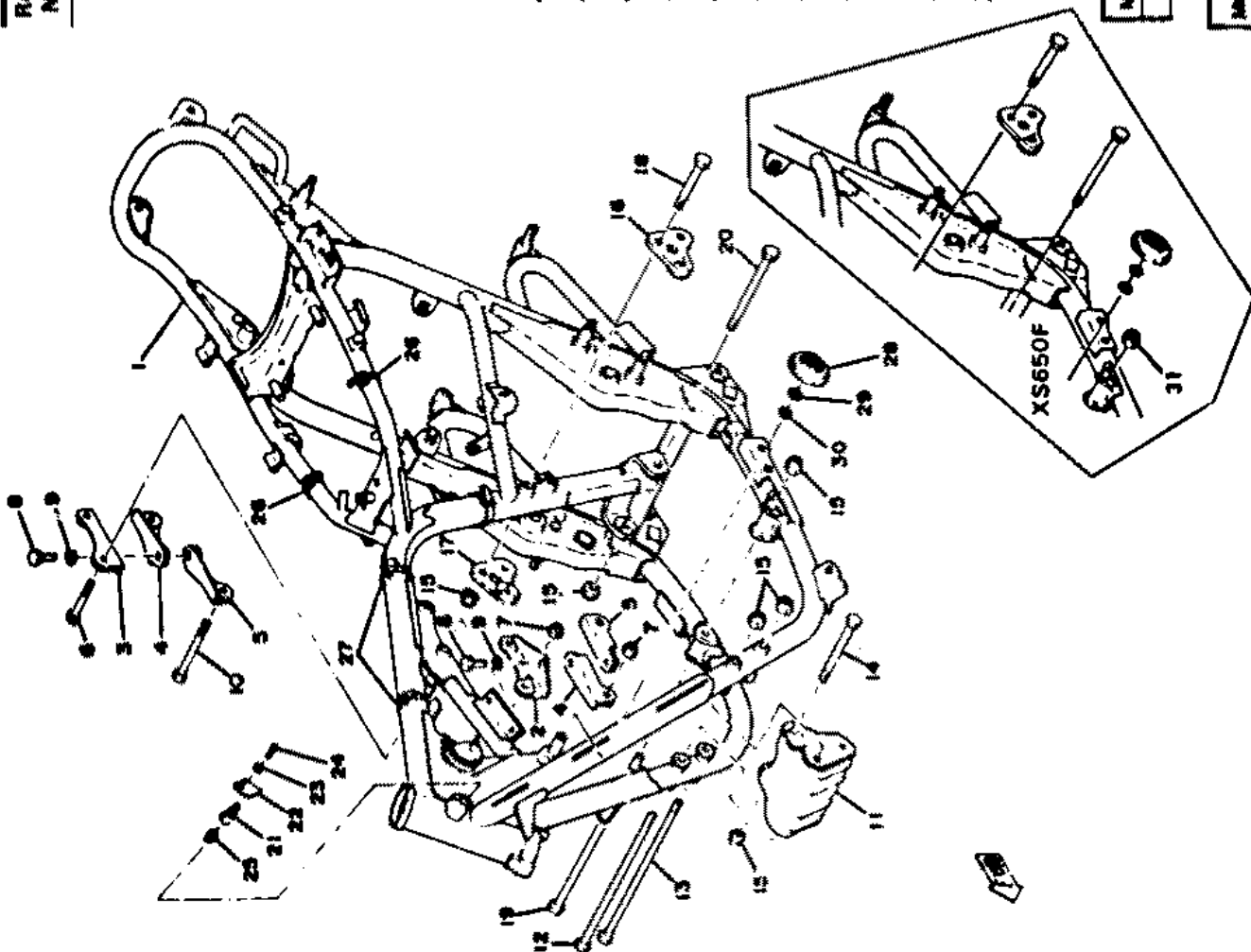
DEF

Ref. No.

Part Number

Description

1	1T3-21110-00-33	FRAME COMP. (650D/E)	1	1
2	2F0-21110-00-33	FRAME COMP.	1	1
3	447-21314-00-00	STAY, engine 5 (left)	1	1
4	447-21315-00-00	STAY, engine 1 (right)	1	1
5	256-21317-01-00	STAY, engine 3	2	2
6	256-21318-01-00	STAY, engine 2	2	2
7	95821-08055-00	BOLT, flange	2	2
8	90185-08089-00	NUT, self-locking (90185-08054)	4	4
9	95821-10025-00	BOLT, flange	2	2
10	92903-10100-00	WASHER, spring	2	2
11	95821-08090-00	BOLT, flange	2	2
12	447-21318-00-33	STAY, engine 4	1	1
13	90105-10043-00	BOLT, hexagon	1	1
14	90105-10044-00	BOLT, hexagon	1	1
15	90105-10039-00	BOLT, hexagon	1	1
16	90185-10035-00	NUT, self-locking	8	8
17	447-21319-00-00	STAY, engine 6 (left)	1	1
18	447-21387-00-00	STAY, engine 7 (right)	1	1
19	95821-10070-00	BOLT, flange	3	3
20	90106-10029-00	BOLT, round hexagon	1	1
21	90105-10041-00	BOLT, hexagon	1	1



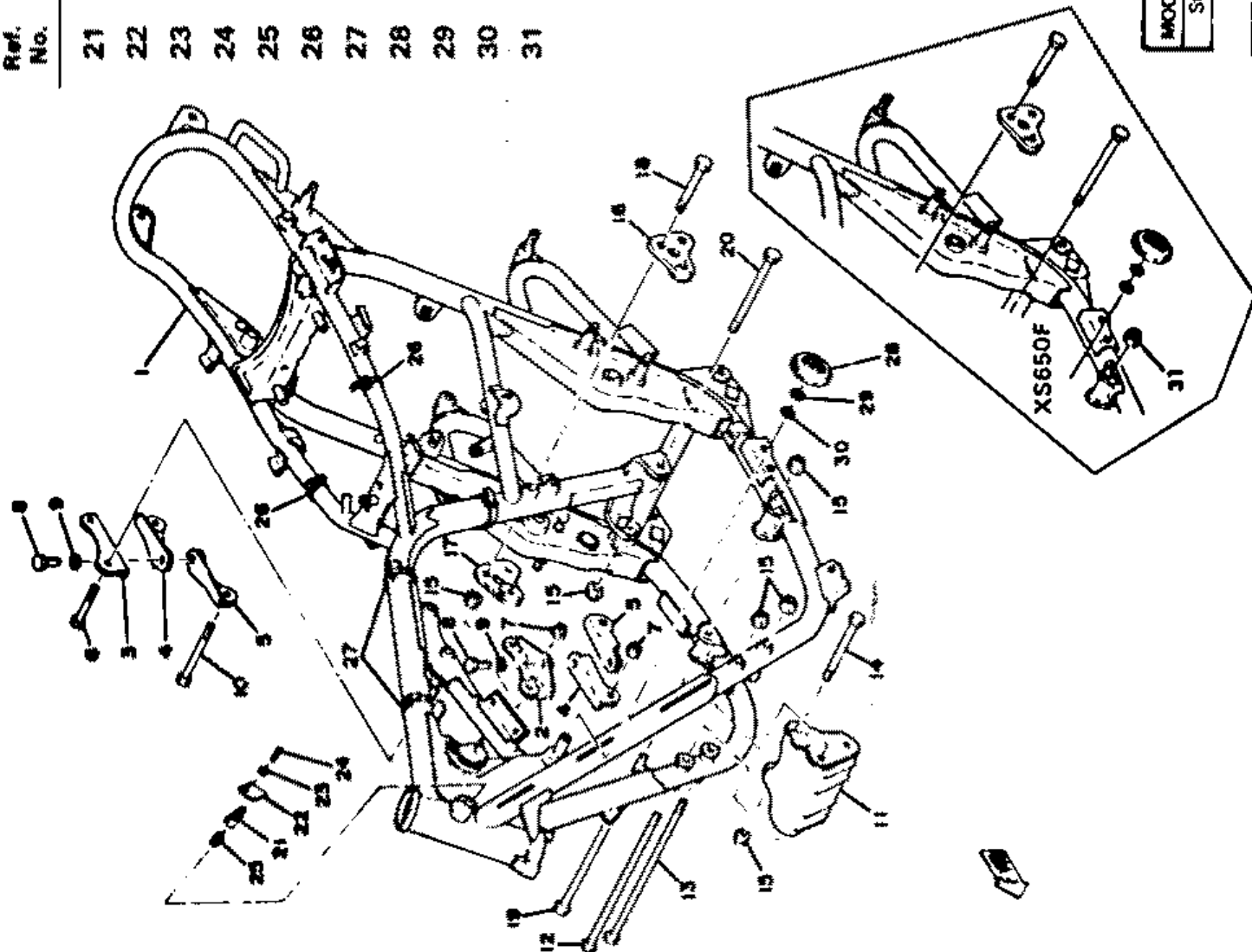
MODEL - IBM I.D. NUMBER	XS650D	1T3
Starting Engine and Frame Number	447-700101	

MODEL - IBM I.D. NUMBER	XS650EB / XS650EG - 2F0
Initial Engine Number/Frame Number	2F0-000101 / 2F0-000101

MODEL - IBM I.D. NUMBER	XS650F	2F0
Initial Engine Number/Frame Number	2F0-020101 / 2F0-020101	

DEF

Ref. No.	Part Number	Description	DEF
21	584-23408-00-00	STEERING LOCK ASS'Y.	1 1 1
22	584-23484-01-00	CAP, handle lock	1 1 1
23	90208-04003-00	WASHER, wave (214-23488-00)	1 1 1
24	90269-04003-00	RIVET (214-23483-00)	1 1 1
25	90502-09024-00	SPRING, conical	1 1 1
26	447-82591-00-00	BAND (L=105)	2 2 2
27	435-13474-00-00	BAND	2 2 2
28	2N8-85111-00-00	REFLECTOR (355-85111-00)	2 2 2
29	92903-05100-00	WASHER, spring	2 2 2
30	92901-05200-00	WASHER, plain	2 2 2
31	90185-10060-00	NUT, self-locking	1



MODEL - IBM I.D. NUMBER
Starting Engine and Frame Number

XS650D
447-700101

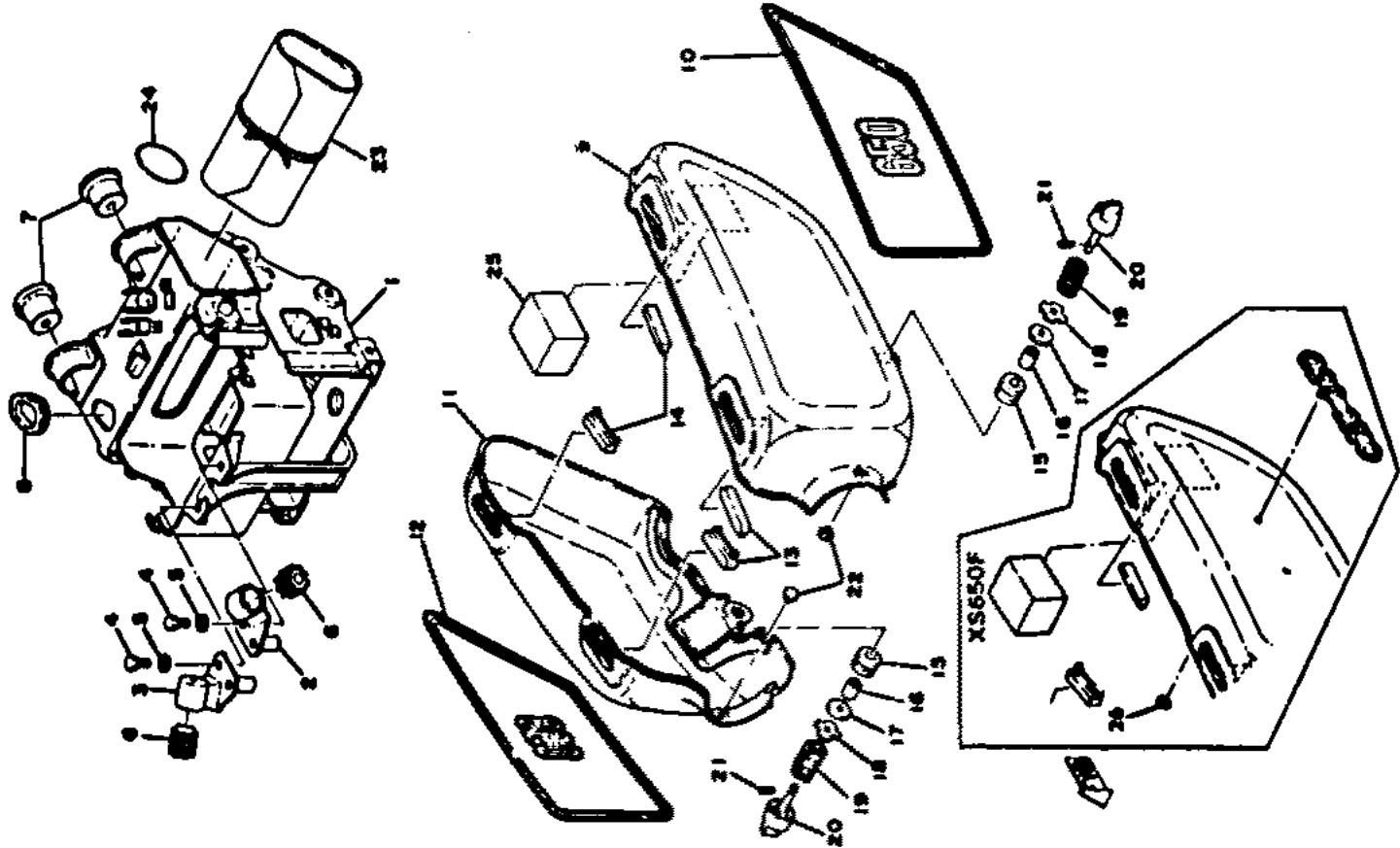
1T3

REPAIR KIT - 447-700101

REPAIR KIT - 447-700101

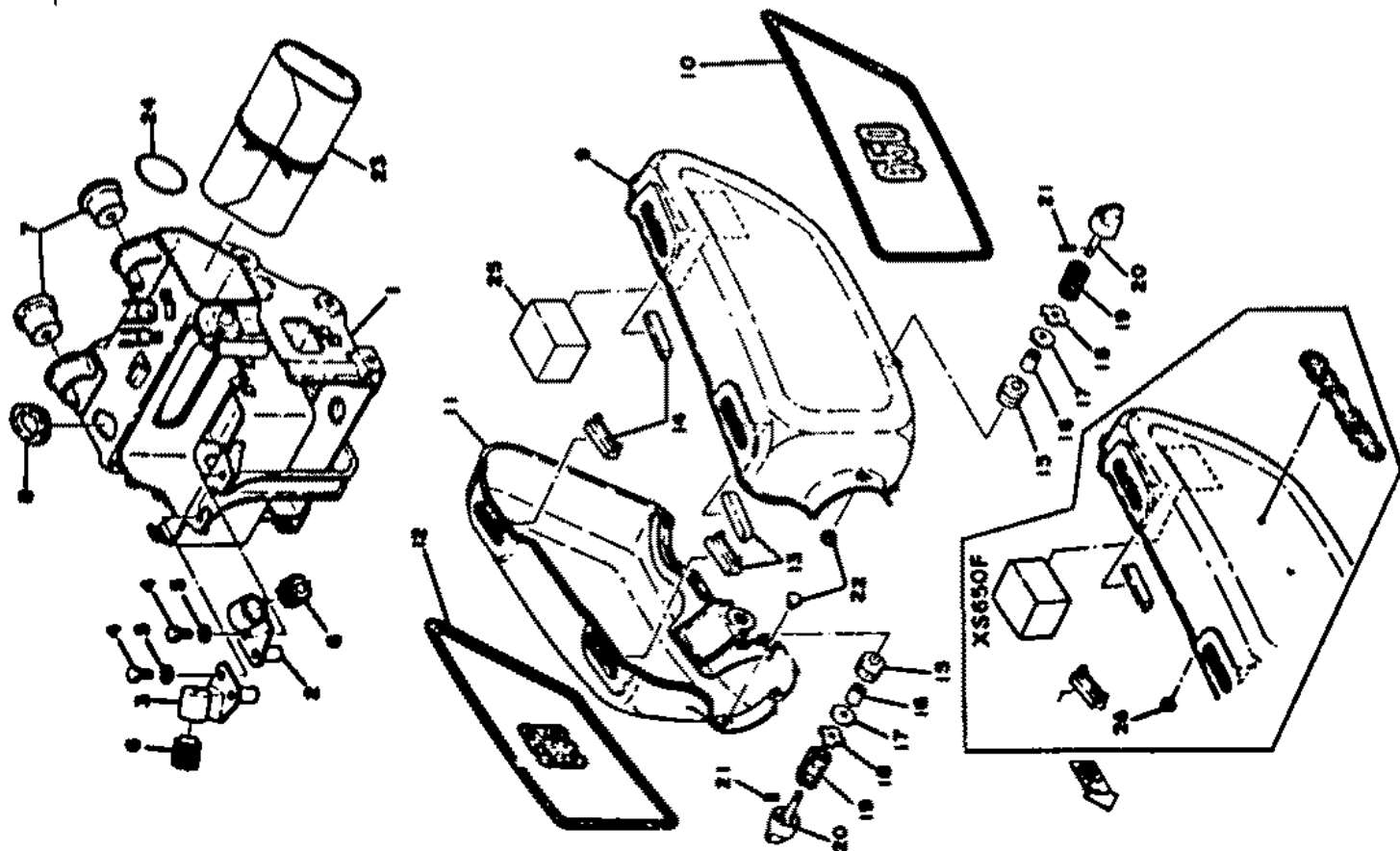
DEF

Ref. No.	Part Number	Description	DEF
1	447-21170-04-33	BOX, battery (447-21170-03-33)	1 1 1
2	447-21149-00-00	BRACKET, battery box left.....	1 1 1
3	447-21344-00-00	BRACKET, battery box right.....	1 1 1
4	97301-06016-00	BOLT, hexagon (97301-06015)	2 2 2
5	92903-06100-00	WASHER, spring.....	2 2 2
6	256-21729-00-00	DAMPER, front.....	2 2 2
7	256-21747-00-00	DAMPER, rear.....	2 2 2
8	447-82128-00-00	GROMMET.....	1 1 1
9	447-21711-01-U8	COVER, side left.....	1 1 1
	447-21711-01-J3	COVER, side left..... (650D/E)	1 1
	447-21711-01-R7	COVER, side left..... (650E)	1
	447-21711-01-T4	COVER, side left..... (650E)	1
	2F0-21711-00-2G	COVER, side left..... (650F)	1
10	1T3-21784-00-00	EMBLEM, side cover left. (650D)	1
	2F0-21784-00-00	EMBLEM, side cover left. (650E)	1
	2F0-21781-10-00	EMBLEM, side cover..... (650F)	2
11	447-21721-01-U8	COVER, side right..... (650D)	1
	447-21721-01-J3	COVER, side right..... (650D)	1
	447-21721-01-R7	COVER, side right..... (650E)	1
	447-21721-01-T4	COVER, side right..... (650E)	1
	2F0-21721-00-2E	COVER, side right..... (650F)	1



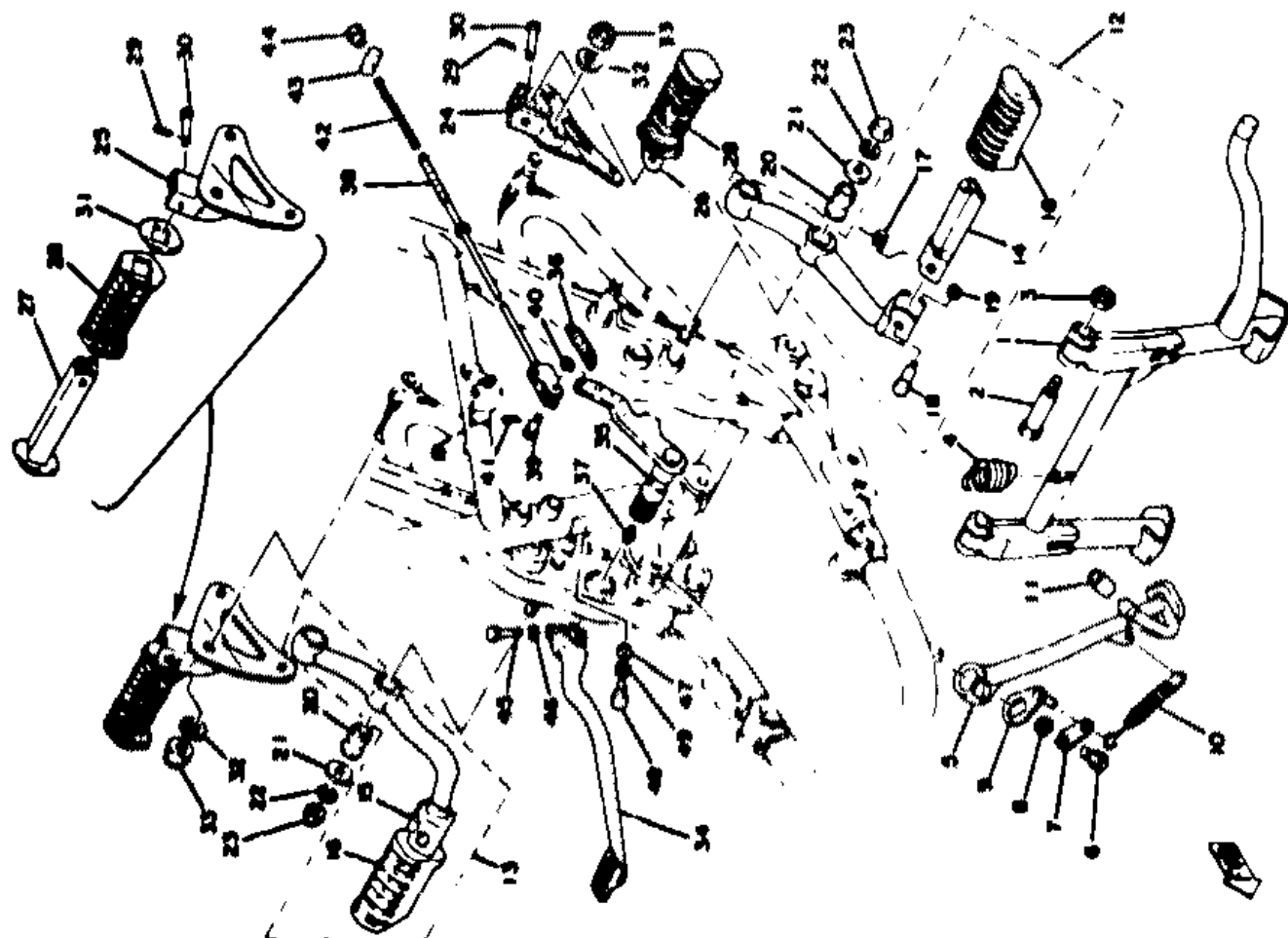
DEF

Ref. No.	Part Number	Description	DEF
12	1T3-21786-00-00	EMBLEM, side cover right.....	1
	2F0-21786-00-00	EMBLEM, side cover right.....	1
13	447-21717-00-00	DAMPER, side cover.....	2 2 2
14	447-21747-00-00	DAMPER, side cover.....	2 2 2
15	90480-14102-00	GROMMET (214-21717-00).....	2 2 2
16	90387-07390-00	COLLAR (7-10-11.5).....	2 2 2
17	90201-06063-00	WASHER, plate (810-77318-00).....	2 2 2
18	90209-06044-00	WASHER, special.....	2 2 2
19	90501-18205-00	SPRING, side cover.....	2 2 2
20	447-21714-01-00	KNOB, side cover.....	2 2 2
21	91609-25015-00	PIN, spring.....	2 2 2
22	256-21717-00-00	DAMPER, side cover.....	2 2 2
23	447-28100-12-00	TOOL ASS'Y.....	1
	2F0-28100-00-00	TOOL ASS'Y (2F0-28100-10).....	1 1
24	93210-40040-00	O-RING (3-39.5).....	1 1 1
25	447-21746-00-00	DAMPER, tool box.....	1 1 1
26	90183-04005-00	NUT, spring.....	4



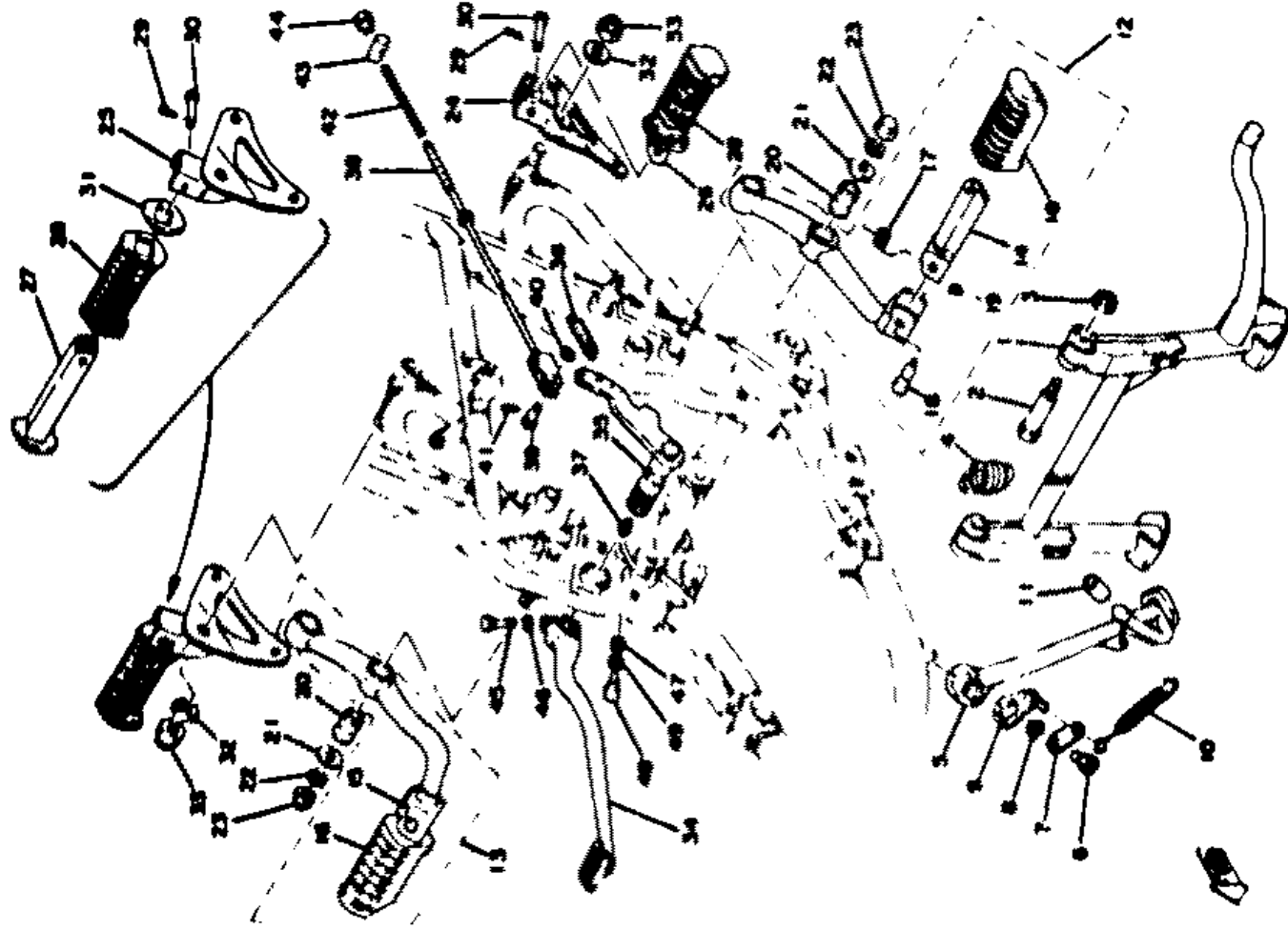
DEF

Ref. No.	Part Number	Description	DEF
1	1T3-27111-02-00	STAND, main (1T3-27111-01)...	1 1 1
2	90109-10268-00	BOLT (447-27112-00).....	2 2 2
3	90185-10035-00	NUT, self-locking.....	2 2 2
4	90506-50064-00	SPRING, tension (256-27116-00)	1 1 1
5	1T3-27311-00-00	STAND, side.....	1 1 1
6	97301-08020-00	BOLT, hexagon.....	1 1 1
7	1T3-27322-00-00	WASHER, lock.....	1 1 1
8	90201-08114-00	WASHER, plate (156-24186-00)	1 1 1
9	1T3-27315-00-00	LINK, side stand.....	1 1 1
10	90507-29009-00	SPRING, tension.....	1 1 1
11	278-27314-00-00	STOPPER, side stand.....	1 1
	1T3-27314-00-00	STOPPER, side stand.....	1
12	1T3-27410-00-33	FOOTREST ASS'Y, left (1T3-27410-00).....	1 1 1
13	1T3-27420-00-33	FOOTREST ASS'Y, right (1T3-27420-00).....	1 1 1
14	1T3-27451-00-00	FOOTREST, left.....	1 1 1
15	1T3-27461-00-00	FOOTREST, right.....	1 1 1
16	1J7-27413-01-00	COVER, footrest right.....	2 2 2
17	90508-20023-00	SPRING, torsion (214-27426-00)	2 2 2



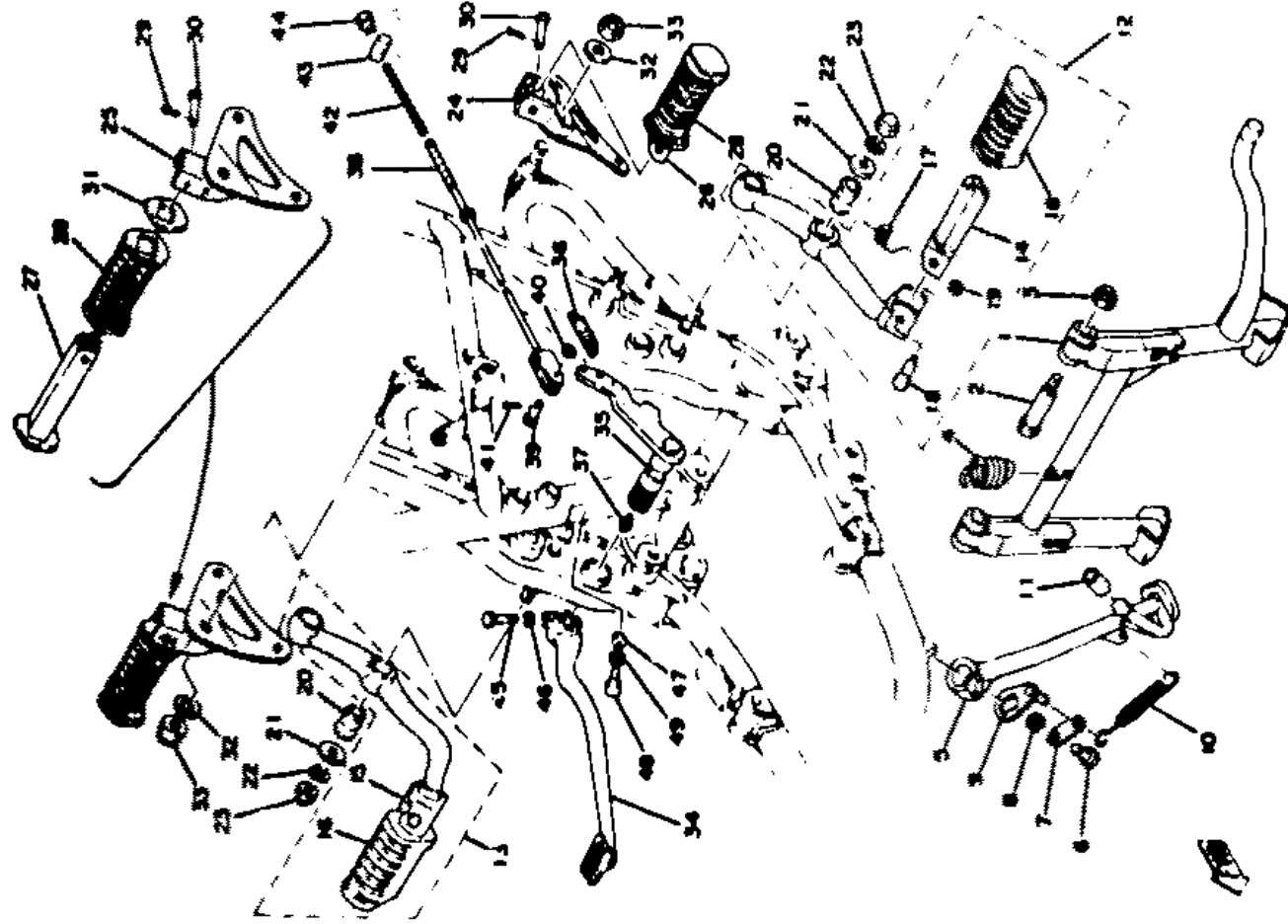
DEF

Ref. No.	Part Number	Description	DEF
18	90243-08006-00	PIN (214-27418-00)	2 2 2
19	90201-06042-00	WASHER, plate (214-27417-00)	2 2 2
20	256-27414-00-00	DAMPER, rubber 1	4 4 4
21	90201-10437-00	WASHER, plate	4 4 4
22	92903-10100-00	WASHER, spring	4 4 4
23	90176-10013-00	NUT, cap	4 4 4
24	584-27432-00-00	BRACKET, rear footrest left	1 1 1
25	584-27442-00-00	BRACKET, rear footrest right	1 1 1
26	447-27431-00-00	FOOTREST, rear left	1 1 1
27	447-27441-00-00	FOOTREST, rear right	1 1 1
28	447-27433-00-00	COVER, rear footrest	2 2 2
29	91401-16015-00	PIN, cotter	2 2 2
30	91501-06035-00	PIN, clevis	2 2
	91701-06035-00	PIN, clevis	2
31	90209-18070-00	WASHER (447-27437-00)	2 2 2
32	90201-13502-00	WASHER, plate	2 2 2
33	90185-12046-00	NUT, self-locking	2 2 2
34	533-27211-01-93	PEDAL, brake (533-27211-00-93)	1 1 1
35	533-27212-00-00	SHAFT, brake pedal	1 1 1
36	90506-23046-00	SPRING, tension (341-27216-00)	1 1 1

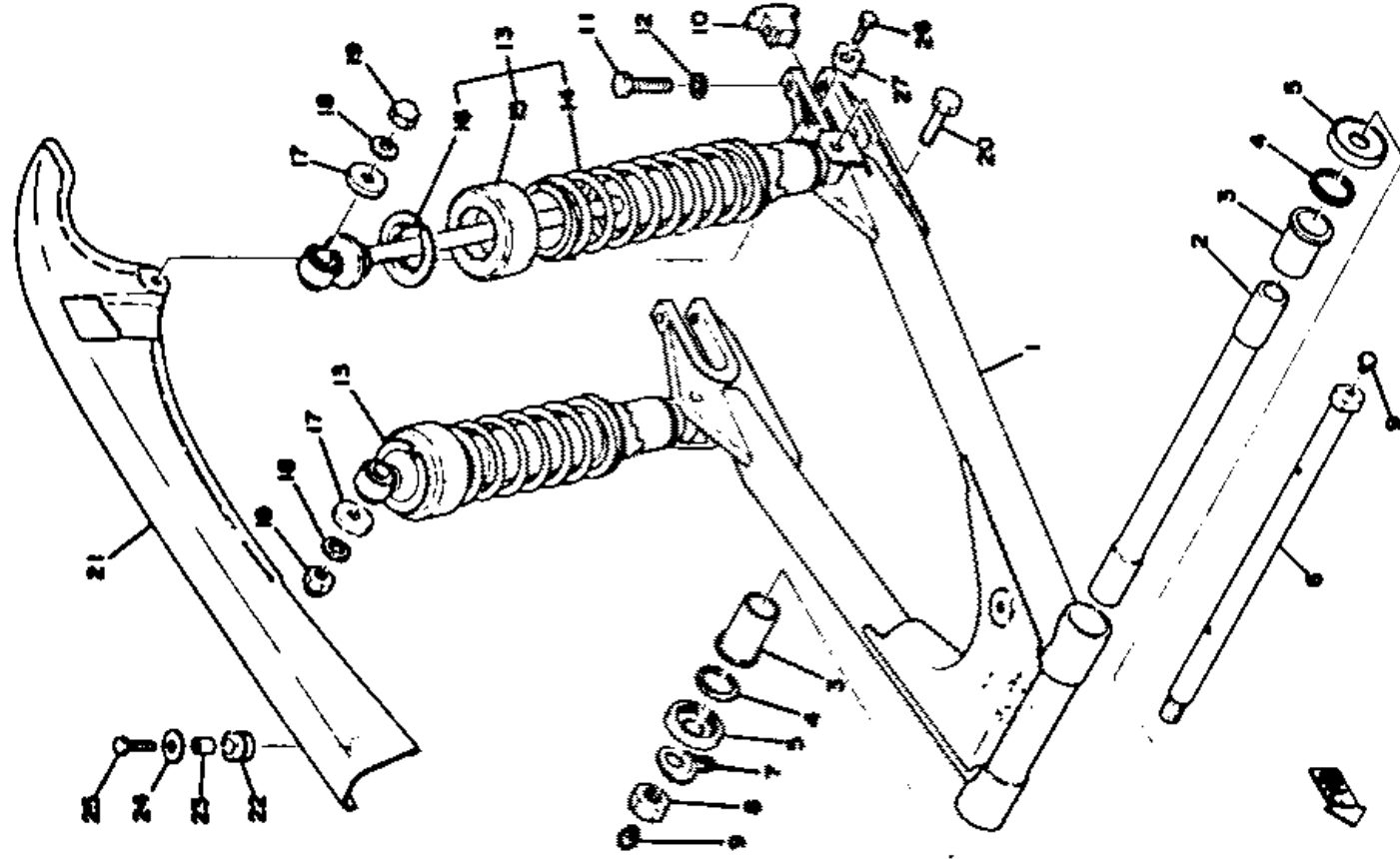


DEF

Ref. No.	Part Number	Description	DEF
37	93700-06004-00	NIPPLE, grease	1 1 1
38	447-27231-02-00	ROD, brake.....	1 1 1
39	90240-08013-00	PIN (156-27237-00)	1 1 1
40	90201-08083-00	WASHER, plate (156-27226-00)	1 1 1
41	91401-20015-00	PIN, cotter	1 1 1
42	90501-10245-00	SPRING, compression (180-27236-00)	1 1 1
43	90249-12008-00	PIN, with hole (307-18118-00)	1 1 1
44	90179-06176-00	NUT, hexagon	1 1 1
45	90109-06468-00	BOLT	1 1 1
46	92903-06100-00	WASHER, spring	1 1 1
47	90170-06184-00	NUT, hexagon	1 1 1
48	90153-06008-00	SCREW (341-27217-00).....	1 1 1
49	92903-06100-00	WASHER, spring.....	1 1 1



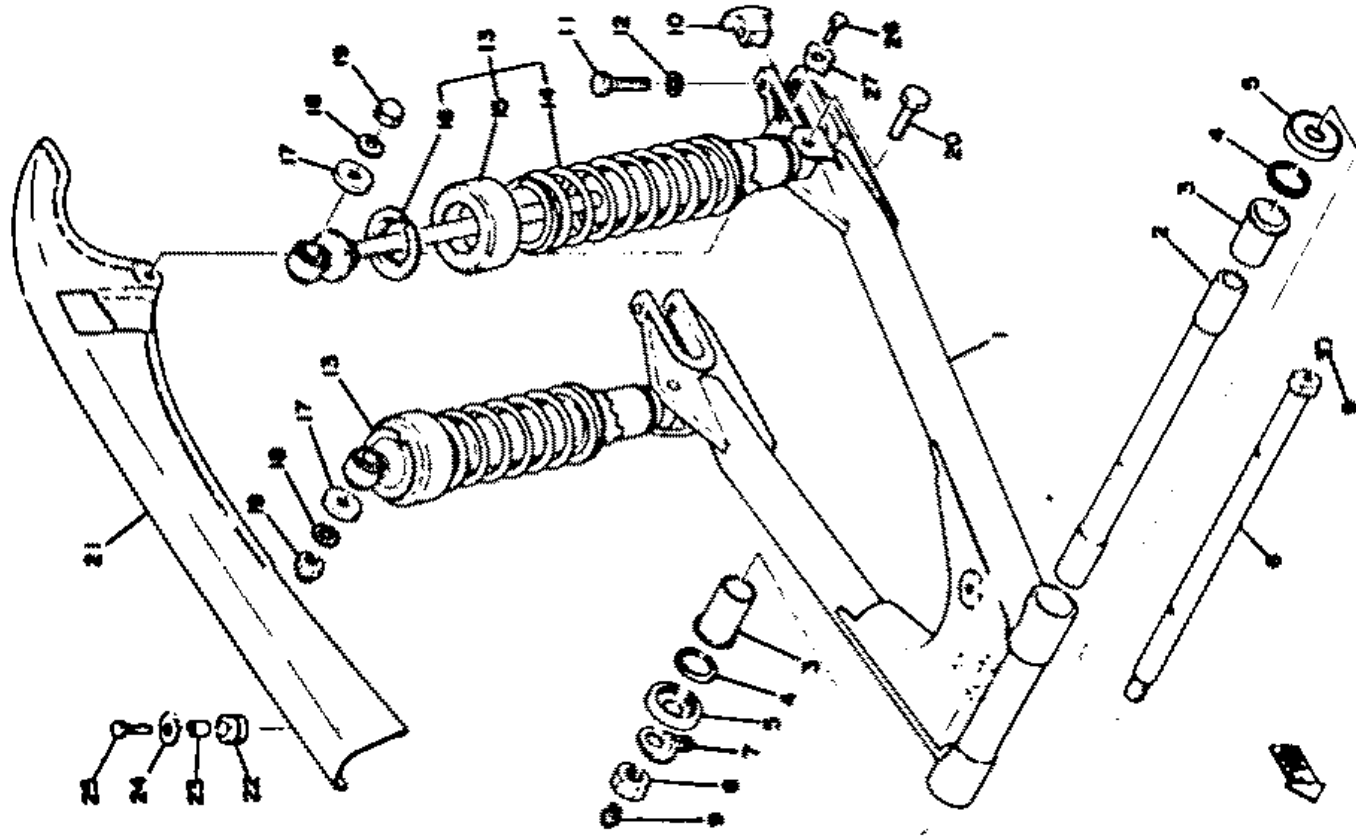
Qty. No.	Part Number	Description	DEF
1	447-22110-00-98	REAR ARM COMP. (447-22110-00-33)	1 1 1 1
2	341-22184-00-00	BUSHING (447-22184-00)	1 1 1
3	90386-22029-00	BUSHING (256-22123-01)	2 2 2
4	240-22127-00-00	SHIM, rear arm (26-34-0.3)	URURUR
5	447-22128-00-00	COVER, thrust	2 2 2
6	447-22141-00-00	SHAFT, pivot	1 1 1
7	90215-14055-00	WASHER, lock (447-22149-00)	1 1 1
8	90170-14174-00	NUT, hexagon	1 1 1
9	93700-06004-00	NIPPLE, grease	2 2 2
10	341-22177-00-00	END, rear arm	2 2 2
11	97301-08040-00	BOLT, hexagon	2 2 2
12	92903-08100-00	WASHER, spring	2 2 2
13	1T3-22210-21-00	REAR CUSHION ASSY	2 2 2
	2F0-22210-10-00	REAR CUSHION ASSY	2
14	1T3-22212-20-00	SPRING, rear cushion	2 2 2
	2F0-22212-10-00	SPRING, rear cushion	2
15	447-22211-21-00	COVER, outer	2 2 2
16	341-22213-20-00	GUIDE, spring	2 2 2
17	90201-10142-00	WASHER, plate (341-22243-00)	2 2 2



Ref. No.	Part Number	Description	2	2	2
18	92903-10100-00	WASHER, spring	2	2	2
19	90176-10013-00	NUT, cap (650D)	2		
	90176-10009-00	NUT, cap (650E/F)	2	2	
20	90106-10025-00	BOLT, round (214-22241-00)	2	2	2
21	447-22311-02-98	CHAIN CASE	1	1	1
22	90480-14102-00	GROMMET (214-21717-00)	1	1	1
23	90387-07390-00	COLLAR (7-10-11.5)	1	1	1
24	90201-06066-00	WASHER, plate (101-28323-00)	1	1	1
25	97301-06025-00	BOLT, hexagon	1	1	1
26	97303-06020-00	BOLT, hexagon	1	1	1
27	90215-06117-00	WASHER	1	1	1

OPTIONAL EQUIPMENT

2F0-22210-10-00	REAR CUSHION ASS'Y	2
2F0-22212-10-00	SPRING, rear cushion	2

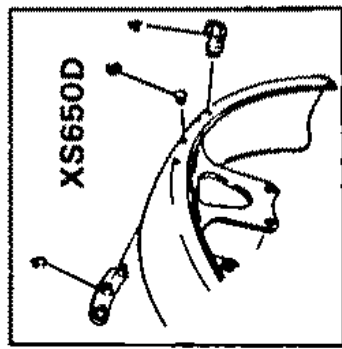
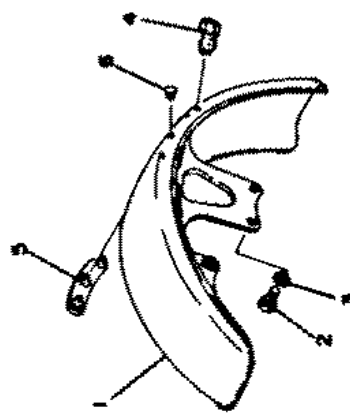
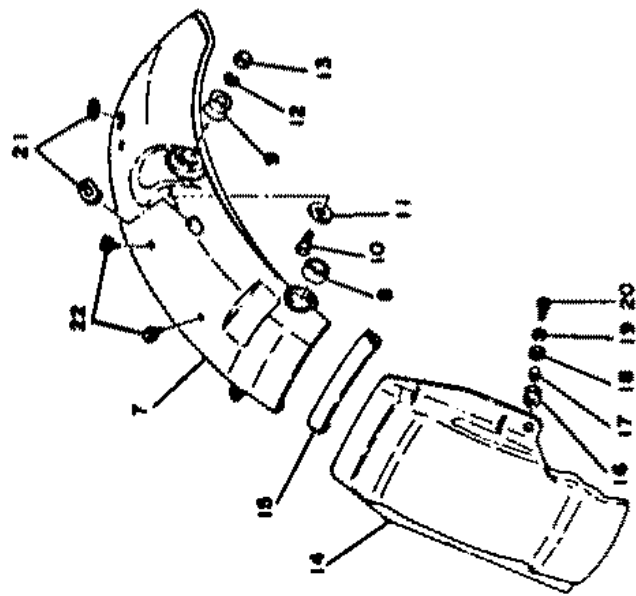


1	1T3-21510-00-93	FRONT FENDER COMP.	1 1
2	97301-08020-00	BOLT, hexagon.	4 4
3	92903-08100-00	WASHER, spring	4 4
4	1A0-21518-00-00	HOLDER, wire	1 1
5		PAD, wire	1
6		PLUG.	3
7	447-21610-02-93	REAR FENDER COMP.	1 1
8	447-21638-00-00	DAMPER, locating	2 2
9	168-21639-00-00	DAMPER, rear	2 2
10	90109-10349-00	BOLT.	2 2
11	90201-15239-00	WASHER, special (168-21615-00)	2 2
12	92903-10100-00	WASHER, spring	2 2

XS650D/E

13	90176-10013-00	NUT, cap	2 2
14	447-21629-01-00	MUD GUARD.	1 1
15	447-21268-01-00	SEAL	1 1
16	90480-14102-00	GROMMET (214-21717-00)	3 3
17	90387-07390-00	COLLAR (7-10-11.5)	3 3
18	90201-06067-00	WASHER, plate	3 3
19	92903-06100-00	WASHER, spring	3 3
20	92501-06025-00	SCREW, pan head	3 3
21	90480-15061-00	GROMMET.	2
	90480-15061-00	GROMMET.	3
22	90464-04014-00	CLAMP (341-21637-00)	2
	90464-04014-00	CLAMP (341-21637-00)	3

XS650D/E

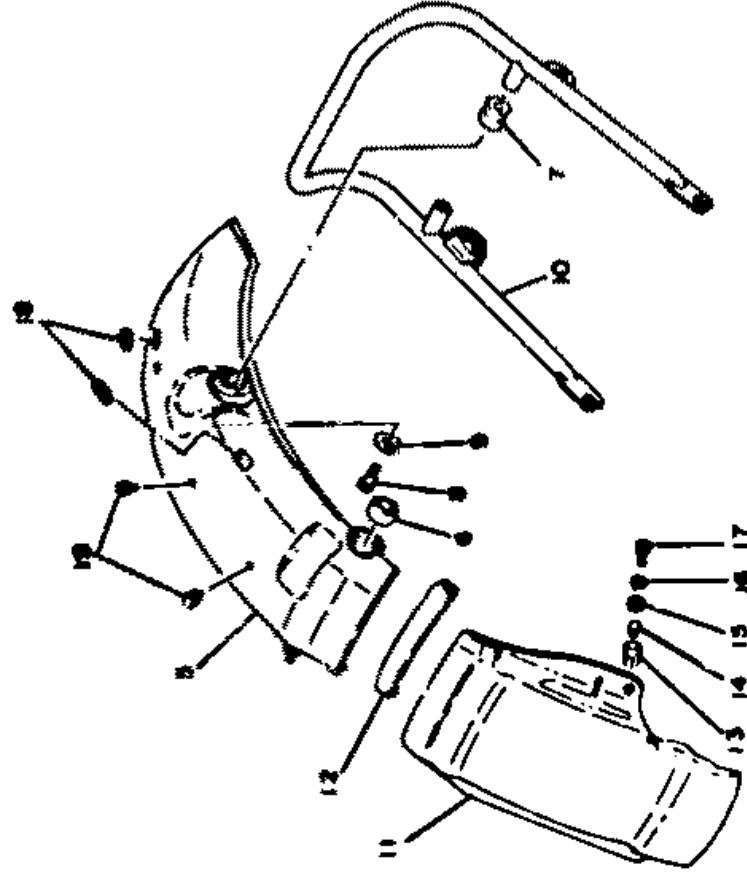


Ref. No.	Part Number	Description	DEF
1	1T3-21510-00-93	FRONT FENDER COMP.	1
2	97301-06020-00	BOLT, hexagon.	4
3	92903-08100-00	WASHER, spring (92901-08100)	4
4	1A0-21518-00-00	HOLDER, wire.	1
5	447-21610-02-93	REAR FENDER COMP.	1
6	447-21638-00-00	DAMPER, locating.	2
7	168-21639-00-00	DAMPER, rear.	2
8	90109-10349-00	BOLT.	2
9	90201-15239-00	WASHER, special (168-21615-00)	2

XS650F

10	2F0-21645-00-00	STAY, rear.	1
11	447-21629-01-00	MUD GUARD.	1
12	447-21268-01-00	SEAL.	1
13	90480-14102-00	GROMMET (214-21717-00) . .	3
14	90387-07390-00	COLLAR (7-10-11.5)	3
15	90201-06067-00	WASHER, plate.	3
16	92903-06100-00	WASHER, spring (92901-06100)	3
17	92501-06025-00	SCREW, pan head.	3
18	90480-15061-00	GROMMET.	2
19	90484-04014-00	CLAMP (341-21637-00)	2

XS650F



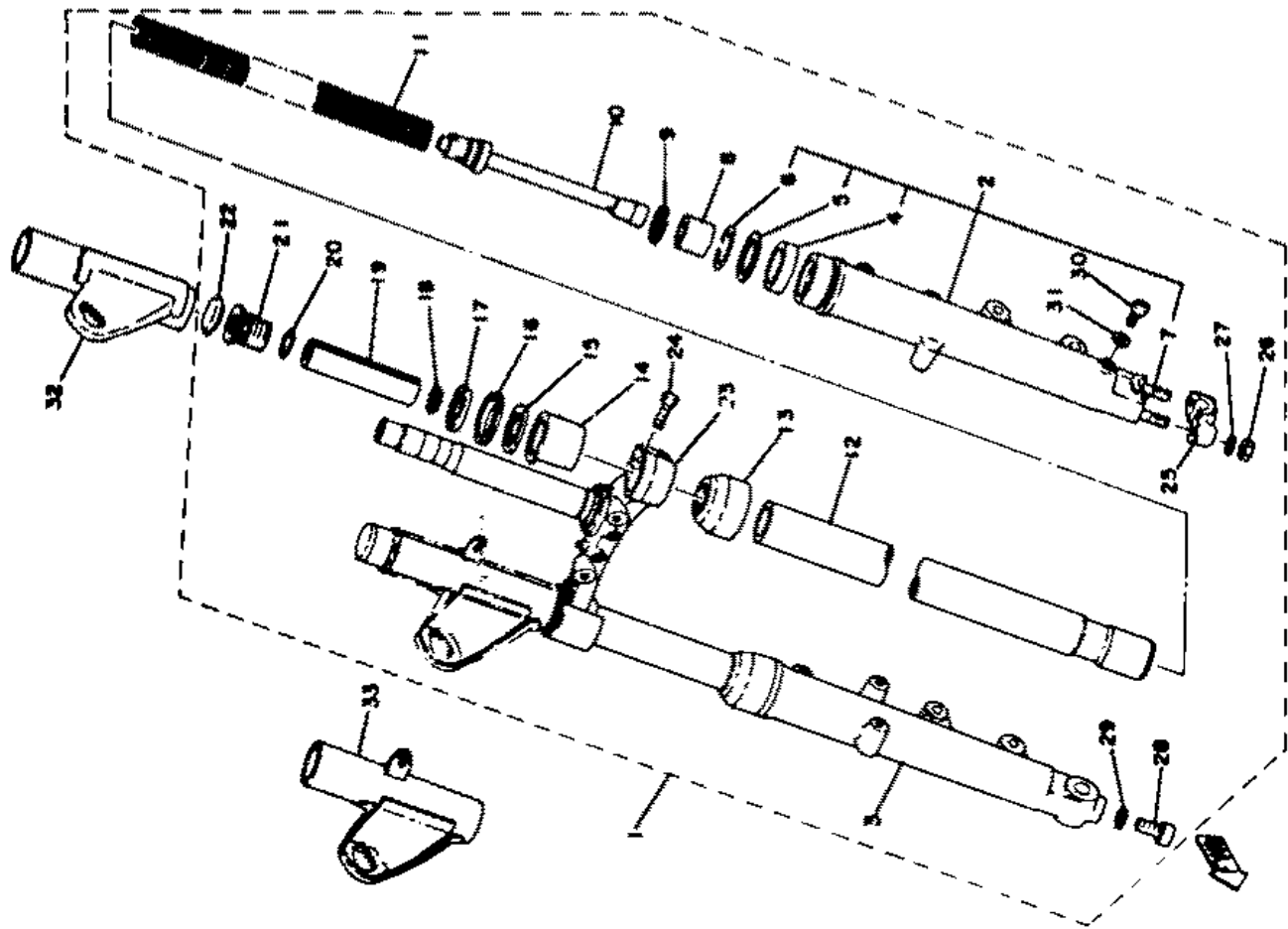
Ref. No.	Part Number	Description
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1	1T3-23101-52-00	FRONT FORK ASS'Y (1T3-23101-51)
2	1T3-23128-50-00	FORK TUBE, outer left
3	1T3-23136-50-00	FORK TUBE, outer right
4	1T3-23145-00-00	OIL SEAL
5	341-23146-50-00	WASHER, oil seal
6	341-23156-50-00	CLIP, oil seal
7	90116-08261-00	BOLT (278-23128-51)
8	434-23171-00-00	PISTON, front fork
9	93450-30033-00	CIRCLIP
10	1T3-23170-50-00	CYLINDER, front fork

XS650D

11	1G3-23141-50-00	SPRING
12	1G3-23124-50-00	FORK TUBE, inner
13	1T3-23144-50-00	SEAL, dust
14	1T3-23122-50-00	COVER, outer
15	1T3-23163-50-00	GASKET
16	1T3-23116-50-00	GUIDE, cover under
17	1T3-23148-50-00	WASHER
18	256-23142-60-00	SEAT, spring upper
19	498-23118-00-00	SPACER
20	2F0-23114-00-00	O-RING

XS650

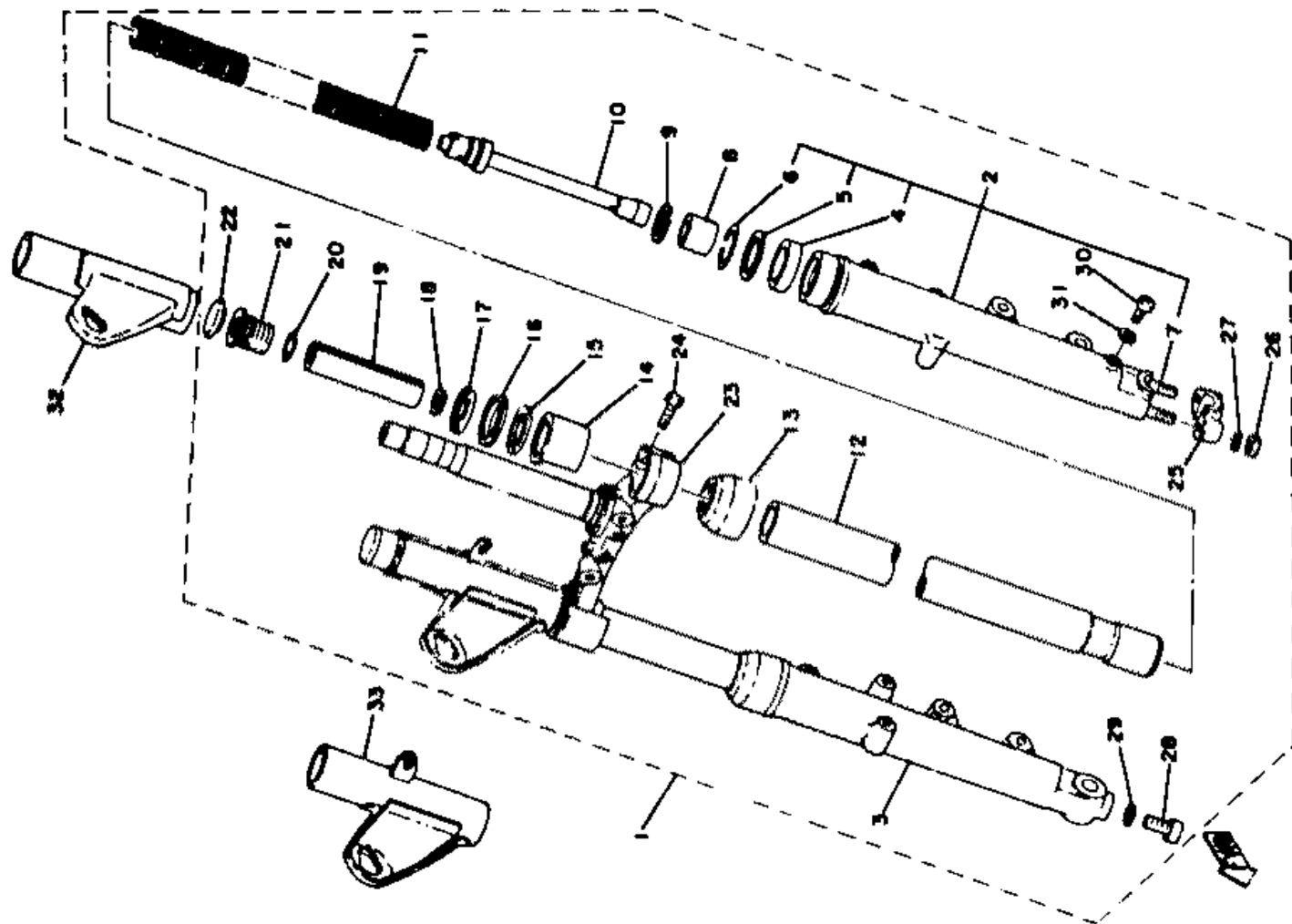


Ref. No.	Part Number	Description	D
21	1T3-23111-50-00	BOLT, cap	2
22	1T3-23168-50-00	CAP	2
23	1T3-23340-50-33	UNDERBRACKET COMP. (2M0-23340-00-33)	1
24	90119-08012-00	BOLT	4
25	341-23167-50-00	HOLDER, axle	1
26	90185-06054-00	NUT	2

XS650D

27	90201-08544-00	WASHER, plate	2
28	1T3-23181-50-00	BOLT, hexagon socket head	2
29	509-23158-10-00	GASKET	2
30	98501-04008-00	PLUG, drain	2
31	122-23129-00-00	GASKET, drain plug	2
32	447-23121-51-93	COVER, upper left	1
33	447-23131-51-93	COVER, upper right (1T3-23131-50-93)	1

XS650E



Front Forks

168cc (5.7 oz.) 20wt. Fork Oil*

DEF

Ref. No.

Part Number

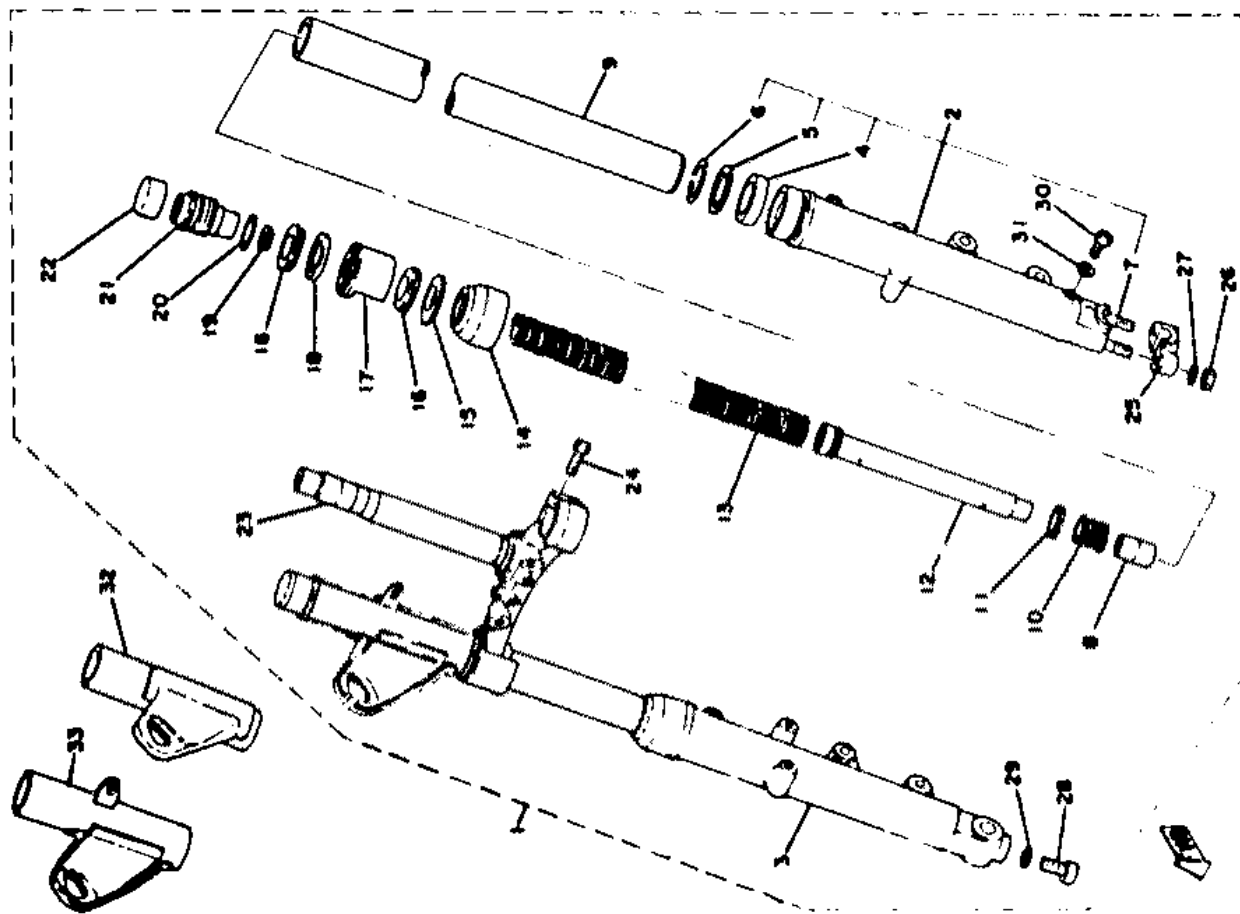
Description

1	2M0-23101-00-00	FRONT FORK ASS'Y (2F0-23101-00)	1 1
2	2F0-23126-00-00	FORK TUBE, outer left	1 1
3	2F0-23136-00-00	FORK TUBE, outer right	1 1
4	1T3-23145-00-00	OIL SEAL	2 2
5	341-23146-50-00	WASHER, oil seal	2 2
6	341-23156-50-00	CLIP, oil seal	2 2
7	90116-08261-00	BOLT, stud	2 2
8	1W1-23173-10-00	PIECE, oil lock	2 2
9	2F0-23110-00-00	INNER TUBE COMP.	2 2
10	2F0-23151-00-00	SPRING, rebound	2 2

XS650E/F

11	2F0-23157-00-00	RING, front fork piston	2 2
12	2F0-23170-00-00	CYLINDER COMP., front fork	2 2
13	2F0-23141-00-00	SPRING, front fork	2 2
	2F0-23141-10-00	SPRING, front fork (heavy duty)	2
14	1T3-23144-50-00	SEAL, dust	2 2
15	1T3-23146-50-00	WASHER	2 2
16	1T3-23163-51-00	GASKET	4 4
17	1T3-23122-51-00	COVER, outer	2 2
18	1T3-23116-51-00	GUIDE, cover	2 2
19	2F0-23149-00-00	WASHER	2 2
20	2F0-23114-00-00	RING, cap bolt	2 2

XS650E/F



Front Forks	Oil type/level/qty	10 wt. Fork Oil / ϕ 169cc
	Gas Pressure	ϕ
	Spring Length std	452mm

DEF

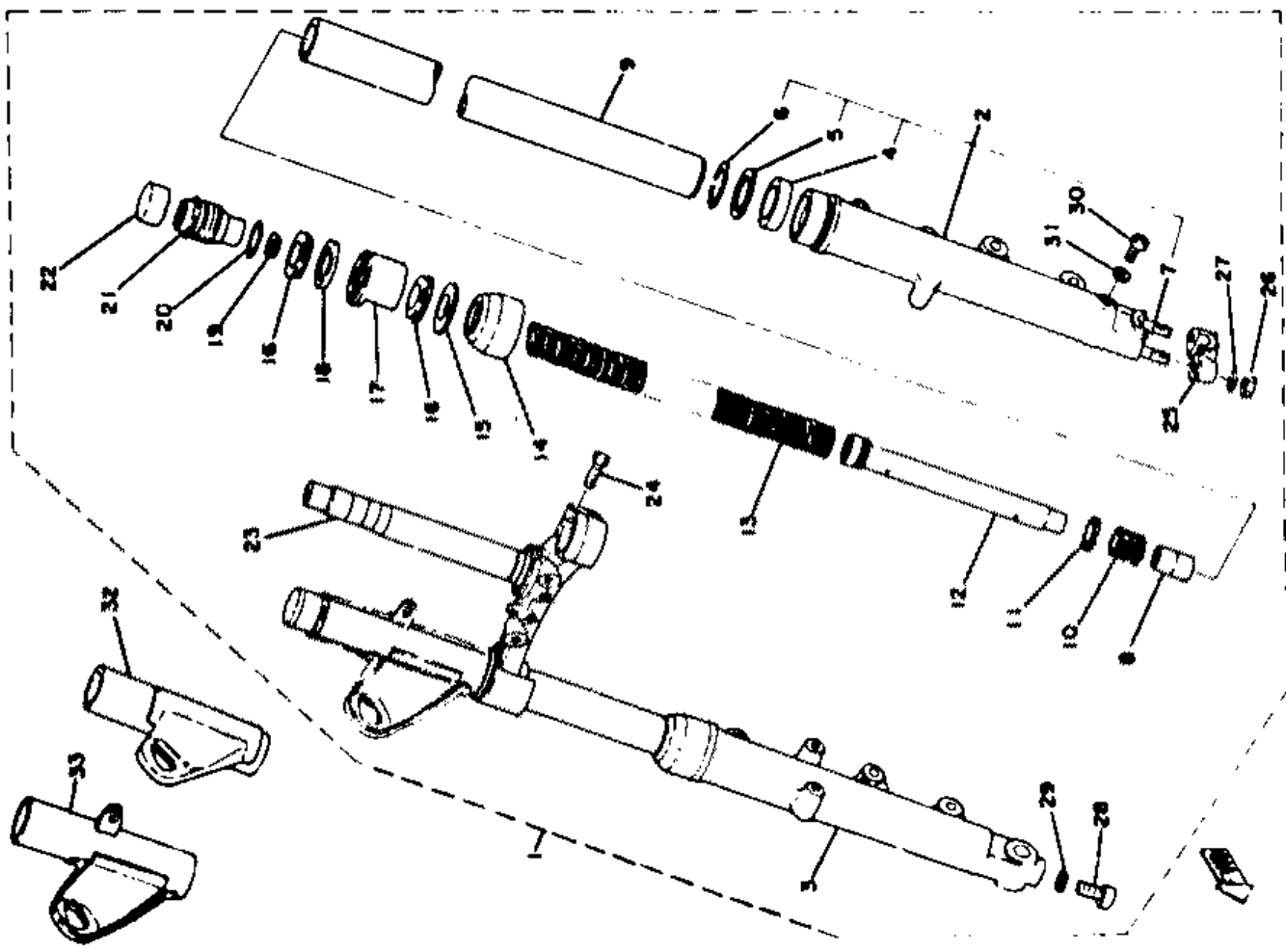
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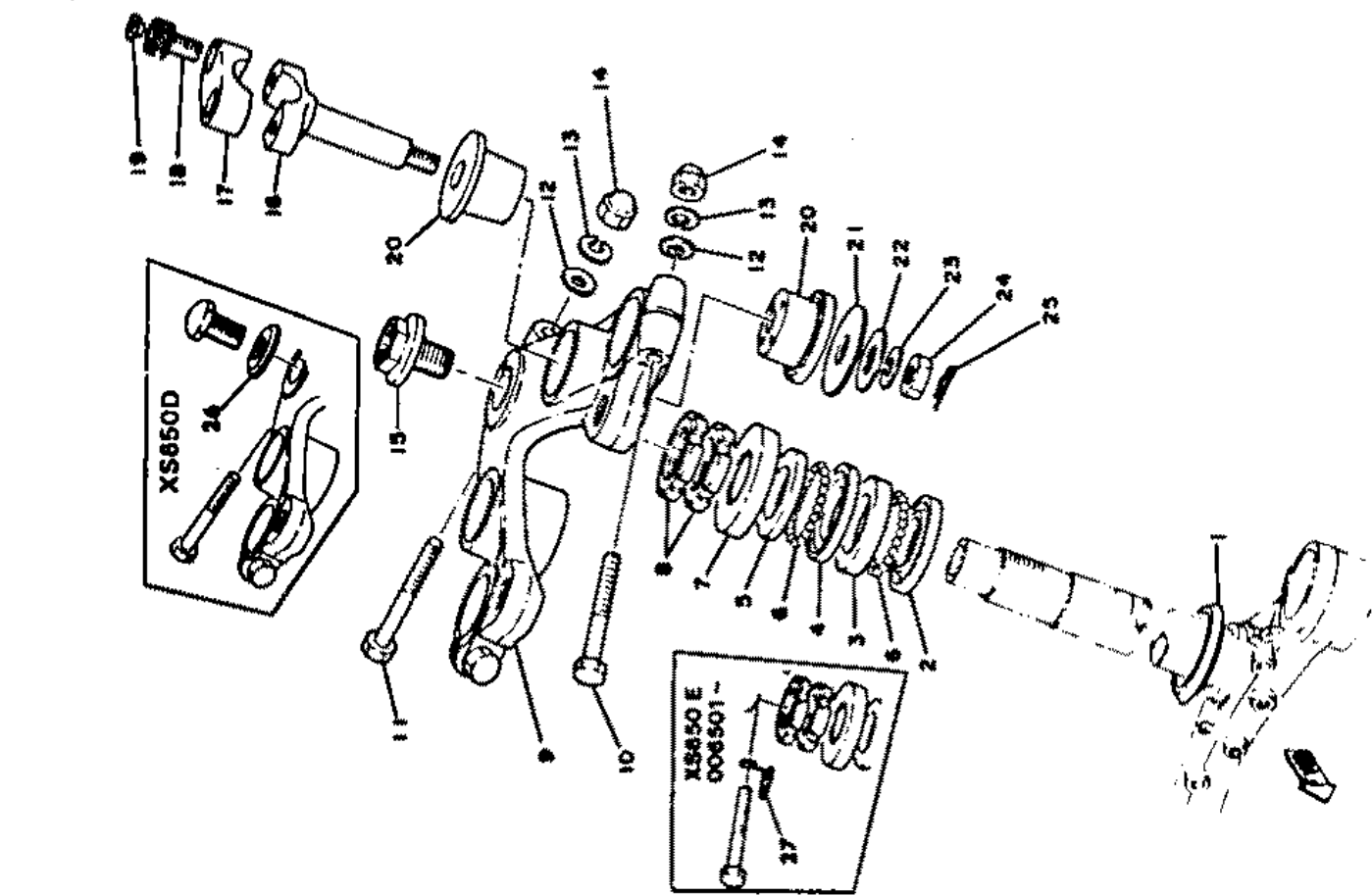
21	2F0-23111-00-00	BOLT, cap	2 2
22	2F0-23165-00-00	CAP, front fork	2 2
23	1T3-23340-50-33	UNDERBRACKET COMP.	1 1
24	90119-08012-00	BOLT	4 4
25	341-23167-50-00	HOLDER, axle	1 1
26	90185-08054-00	NUT	2 2

XS650E/F

27	90201-08544-00	WASHER, plate	2 2
28	278-23181-50-00	BOLT, hexagon socket head	2 2
29	509-23158-10-00	GASKET	2 2
30	98501-04008-00	PLUG, drain (122-23119-01)	2 2
31	122-23129-00-00	GASKET, drain plug	2 2
32	1T3-23121-51-93	COVER, upper left	1 1
33	1T3-23131-51-93	COVER, upper right	1 1

XS650E/F





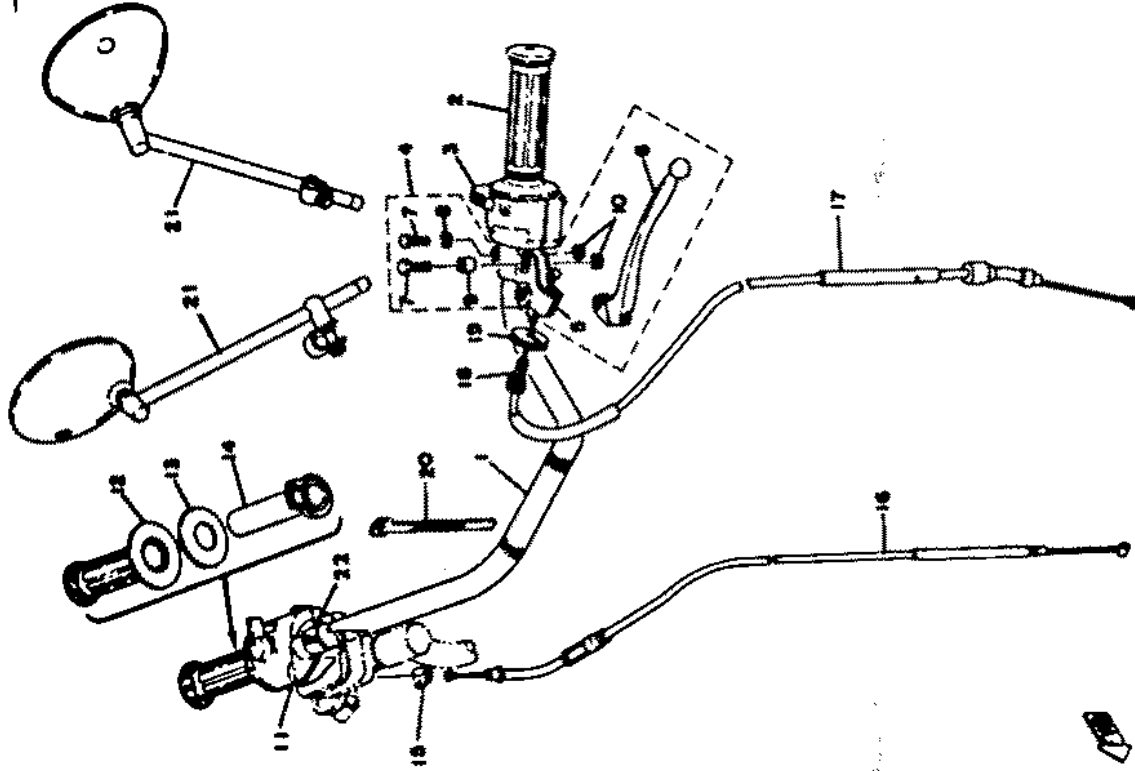
Ref. No.	Part Number	Description	DEF
1	184-23462-00-00	SEAL, dust	1 1 1
2	256-23411-00-00	RACE, ball 1	1 1 1
3	256-23412-00-00	RACE, ball 2	1 1 1
4	256-23413-00-00	RACE, ball 3	1 1 1
5	256-23414-00-00	RACE, ball 4	1 1 1
6	93501-04011-00	BALL (1/4 inch)	38 38 38
7	136-23415-00-00	COVER, ball race	1 1 1
8	90179-25033-00	NUT (137-23454-00)	2 2 2
9	113-23435-01-98	CROWN, handle	1 1 1
10	97313-08050-00	BOLT, hexagon (97323-08050)	2 2 2
11	97323-08065-00	BOLT, hexagon	1 1 1
12	90201-08083-00	WASHER, plate (156-27226-00)	3 3
	92901-08600-00	WASHER, plate	6
13	92903-08100-00	WASHER, spring	3 3
14	95303-08800-00	NUT, crown	3 3 3
15	90105-14102-00	BOLT, round	1 1 1
16	256-23442-00-98	HOLDER, handle under	2 2 2
17	360-23441-01-98	HOLDER, handle upper (360-23441-00-98)	2 2 2
18	91316-08020-00	BOLT, fitting (90110-08010)	4 4 4
19	341-23469-00-00	CAP, bolt	4 4 4
20	117-23434-00-00	RUBBER, bushing	4 4 4
21	256-92392-70-00	WASHER, special	2 2 2
22	90201-10149-00	WASHER, plate (256-23444-00)	2 2 2
23	92903-10100-00	WASHER, spring	2 2 2
24	95301-10700-00	NUT, hexagon	2 2 2
25	90468-12008-00	CLIP (136-25375-00)	2 2 2
26	90209-14023-00	WASHER	1
27	1E6-23317-00-00	HOLDER, wire	1

Ref. No.	Part Number	Description	DEF	Remarks
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1	584-26111-10-00	HANDLE.....	1	
2	1E6-26241-00-00	GRIP, left.....	1	
3	1T3-83973-00-00	SWITCH, handle 3.....	1	Low Gloss Blk
4	1J3-82910-00-00	LEVER HOLDER ASS'Y, left.....	1	
5	341-82911-00-00	HOLDER, lever left.....	1	
6	1J3-83912-10-00	LEVER, left.....	1	
7	97301-06022-00	BOLT, hexagon.....	2	
8	92903-06100-00	WASHER, spring.....	1	
9	214-83913-00-00	COLLAR, lever.....	1	
10	95601-06100-00	NUT, U.....	2	
11	584-83963-00-00	SWITCH, handle 3 right.....	1	

XS650D

12	1A0-26242-01-00	GRIP, right.....	1	
13	278-26249-00-00	RING, leaf.....	1	
14	584-26243-00-00	TUBE, guide.....	1	
15	584-26393-02-00	CLIP, grommet.....	1	
16	584-26311-10-00	WIRE, throttle 1 (1010mm).....	1	
17	447-26335-00-00	WIRE, clutch (1235mm).....	1	
18	90123-08046-00	BOLT, adjusting (90123-08053)	1	
19	90179-08148-00	NUT (90179-08041).....	1	
20	437-83936-00-00	BAND, switch cord.....	2	
21	1T3-26290-01-00	BACK MIRRORS ASS'Y (1T3-26290-00).....	2	
22	90387-22591-00	COLLAR.....	1	



Replacement knobs for handlebar switches are now available. Parts necessary for installation are included in each knob set. The part numbers for replacement switch knob sets, available for this model, are as follows:

1A0-W0087-20-00	FLASHER SWITCH.....	M7-017
397-W0087-30-00	LIGHTING SWITCH.....	M7-017
1A0-W0087-10-00	DIMMER SWITCH.....	M7-017

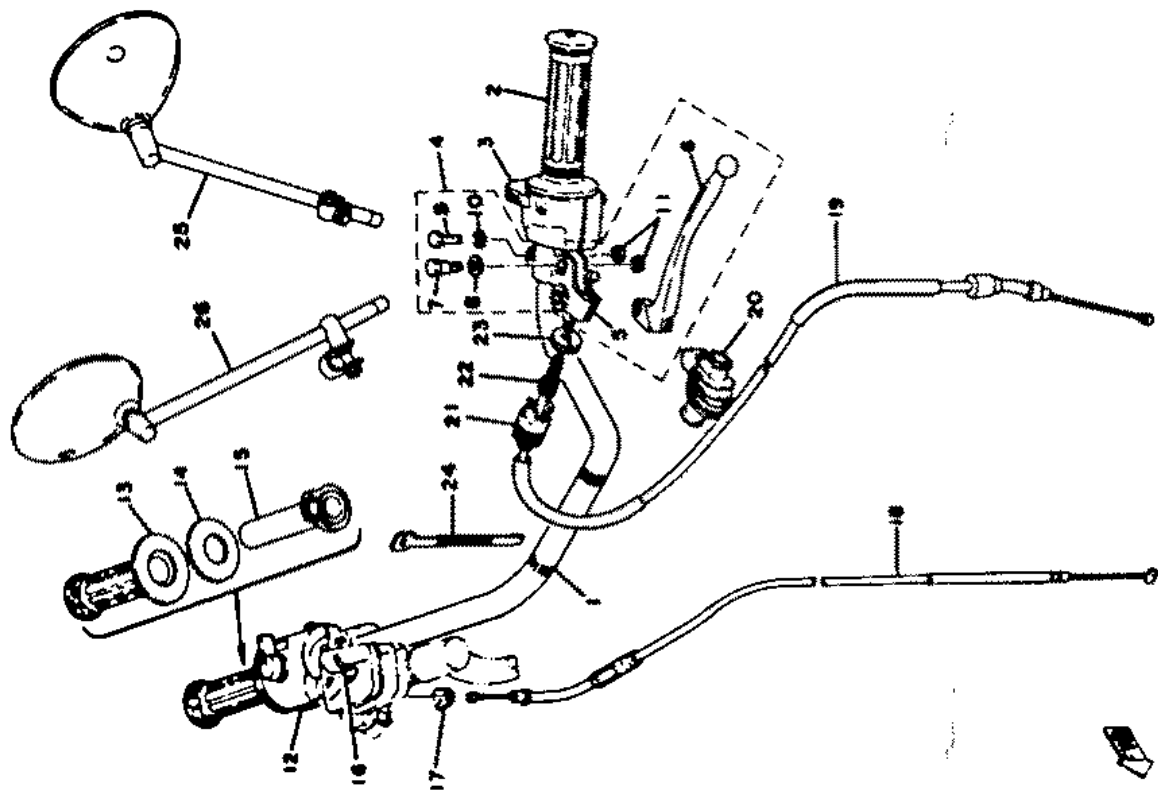
DEF

Ref. No.	Part Number	Description	DEF
1	584-26111-10-00	HANDLE.....	1
2	1E6-26241-00-00	GRIP, left.....	1
3	1T3-83973-00-00	SWITCH, handle 3.....	1
4	1J3-82910-22-00	LEVER HOLDER ASS'Y, left (1J3-82910-21).....	1
5	341-82911-00-00	HOLDER, lever left.....	1
6	583-83912-00-00	LEVER, left.....	1
7	90109-06410-00	BOLT.....	1
8	90201-08083-00	WASHER, plate (156-27226-00).....	1
9	97301-06022-00	BOLT, hexagon.....	1
10	92903-06100-00	WASHER, spring.....	1
11	95801-06100-00	NUT, U.....	2
12	584-83983-00-00	SWITCH, handle 3 right.....	1
13	1A0-26242-01-00	GRIP, right (1V1-26242-00).....	1

XS650E

14	278-26249-00-00	RING, leaf.....	1
15	584-26243-00-00	TUBE, guide.....	1
16	90387-22691-00	COLLAR (22-26-15).....	1
17	584-26393-02-00	CLIP, grommet.....	1
18	584-26311-10-00	WIRE, throttle (1010mm).....	1
19	447-26335-00-00	WIRE, clutch (1235mm).....	1
20	1E6-26342-00-00	COVER.....	1
21	1E6-26372-00-00	COVER, handle lever left.....	1
22	90123-08046-00	BOLT, adjusting.....	1
23	90179-08148-00	NUT, adjusting (168-26344-00).....	1
24	437-83936-00-00	BAND, switch cord.....	2
25	1T3-26290-01-00	BACK MIRROR ASS'Y, left.....	1
26	1T3-26290-01-00	BACK MIRROR ASS'Y, right.....	1

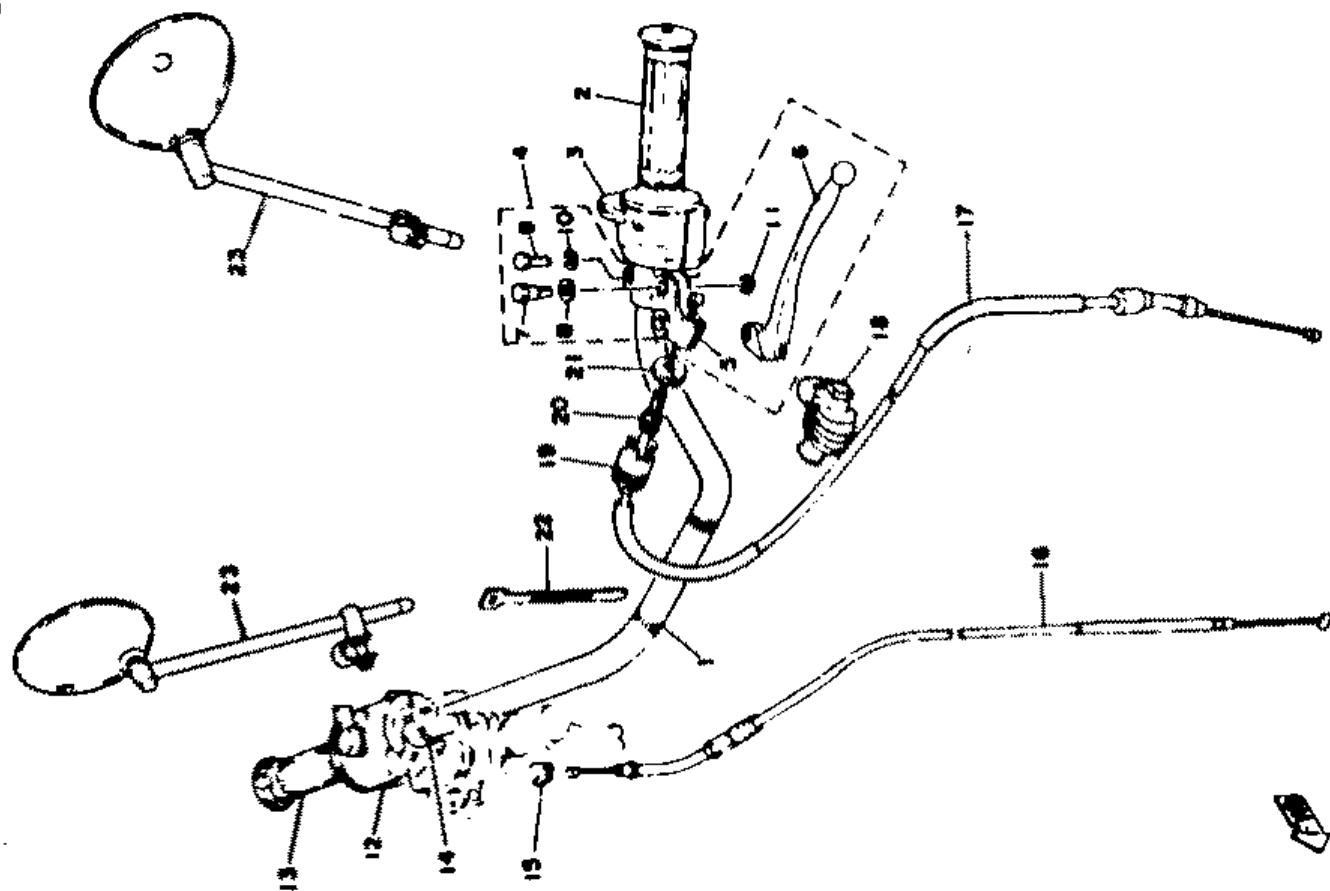
XS650



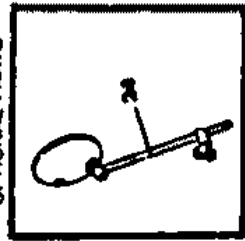
Ref. No.	Part Number	Description
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1	584-28111-10-00	HANDLE.....
2	2H7-26241-00-00	GRIP, left.....
3	1T3-83973-00-00	SWITCH, handle 3.....
4	1J3-82910-22-00	LEVER HOLDER ASS'Y, left.....
5	341-82911-00-00	HOLDER, lever left.....
6	583-83912-00-00	LEVER, left.....
7	90109-06410-00	BOLT.....
8	90201-08083-00	WASHER, plate (158-27226-00)
9	97303-06022-00	BOLT, hexagon.....
10	92903-06100-00	WASHER, spring.....
11	95601-06100-00	NUT, U.....

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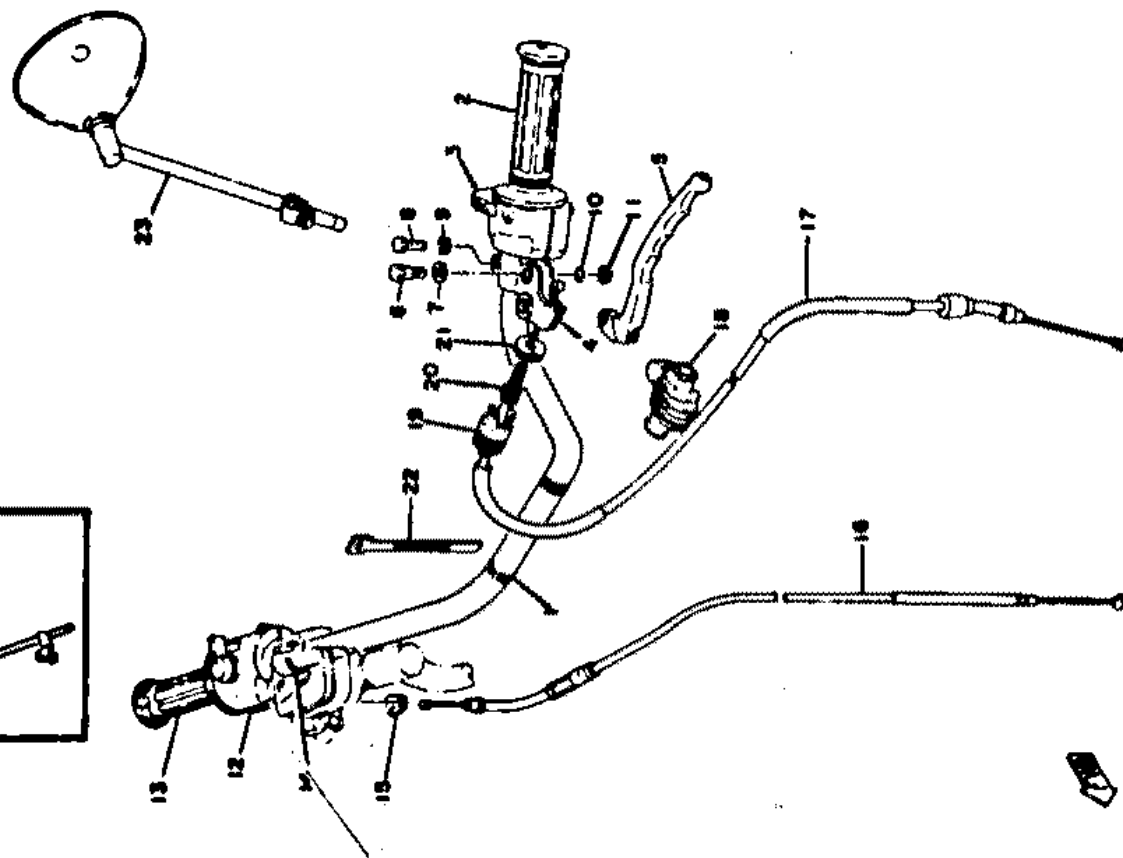
12	584-83963-00-00	SWITCH, handle 3 right.....
13	2H7-26240-00-00	GRIP ASS'Y, right.....
14	90387-22591-00	COLLAR (22-26-15).....
15	584-26393-02-00	CLIP, grommet.....
16	584-26311-10-00	WIRE, throttle (1010mm).....
17	447-26335-00-00	WIRE, clutch (1235mm).....
18	1E6-26342-00-00	BOOT.....
19	1E6-26372-00-00	COVER, handle lever left.....
20	90123-08046-00	BOLT, adjusting.....
21	90179-08148-00	NUT, adjusting (158-26344-00)
22	437-83936-00-00	BAND, switch cord.....
23	1T3-26290-01-00	BACK MIRROR ASS'Y.....



Ref. No.	Part Number	Description	DEF
1	584-26111-10-00	HANDLE.....	1
2	2H7-26241-00-00	GRIP, left.....	1
3	1G3-83973-00-00	SWITCH, handle 3.....	1
4	341-82911-00-00	HOLDER, lever left.....	1
5	2H0-83912-20-00	LEVER, left.....	1
6	2H7-83945-00-00	BOLT, lever.....	1
7	90201-08083-00	WASHER, plate (156-27226-00)	1
8	97303-06022-00	BOLT, hexagon.....	1
9	92903-06100-00	WASHER, spring.....	1
10	93210-11368-00	O-RING.....	1
11	95601-06100-00	NUT, U.....	1
12	210-83975-00-98	SWITCH, handle 2 right.....	1

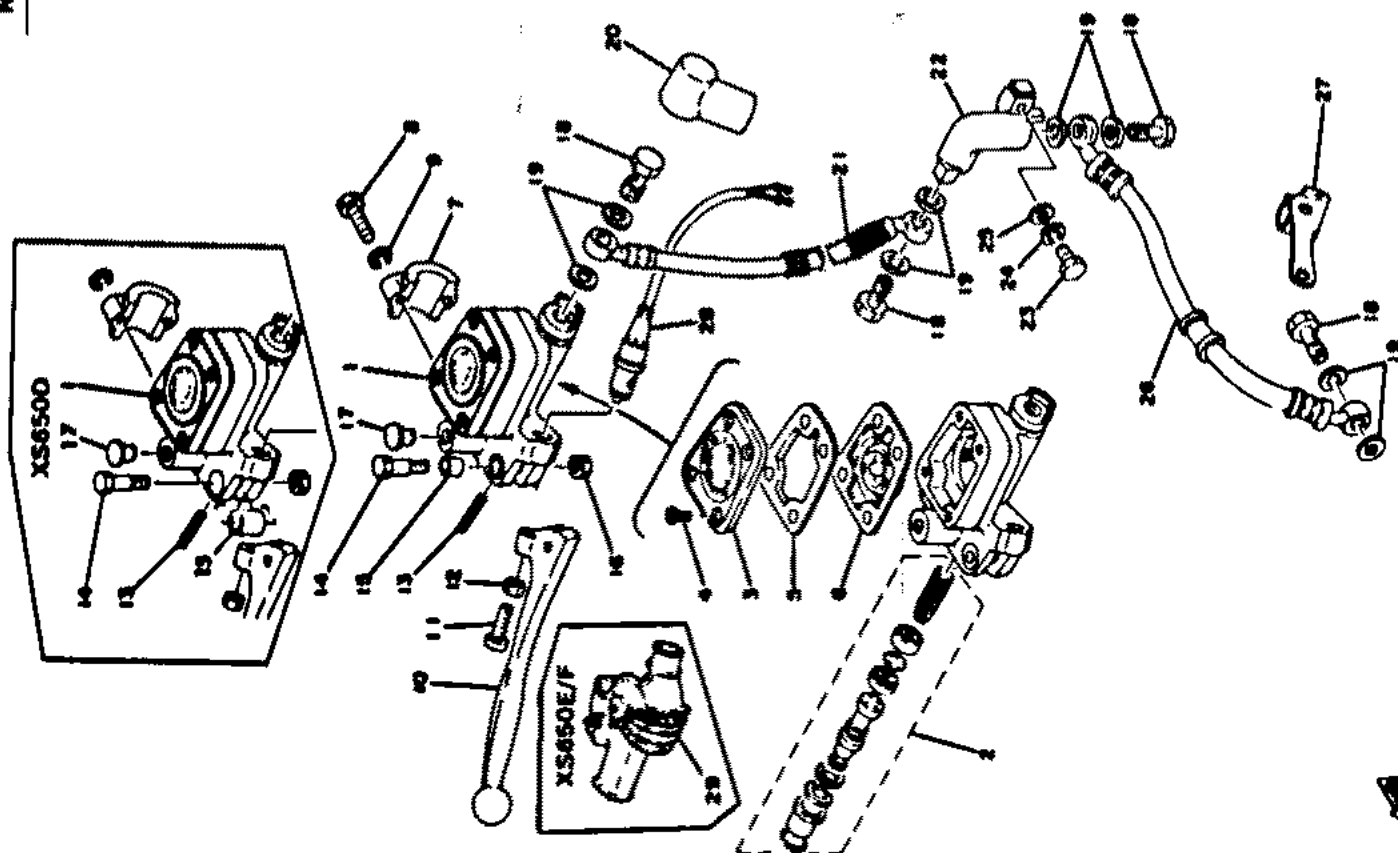
XS650F

13	2H7-26240-00-00	GRIP ASS'Y, right.....	1
	90387-22591-00	COLLAR (22-26-15).....	1
14	90387-22591-00	COLLAR (22-26-15).....	1
15	584-26393-02-00	CLIP, grommet.....	1
16	584-26311-10-00	WIRE, throttle (1010mm).....	1
17	447-26335-00-00	WIRE, clutch (1235mm).....	1
18	1E6-26342-00-00	BOOT.....	1
19	1E6-26372-00-00	COVER, handle lever left.....	1
20	90123-08046-00	BOLT, adjusting.....	1
21	90179-08148-00	NUT, adjusting (168-26344-00)	1
22	437-83936-00-00	BAND, switch cord.....	2
23	1T3-26290-01-00	BACK MIRROR ASS'Y, left.....	1
24	1T3-26290-01-00	BACK MIRROR ASS'Y, right.....	1

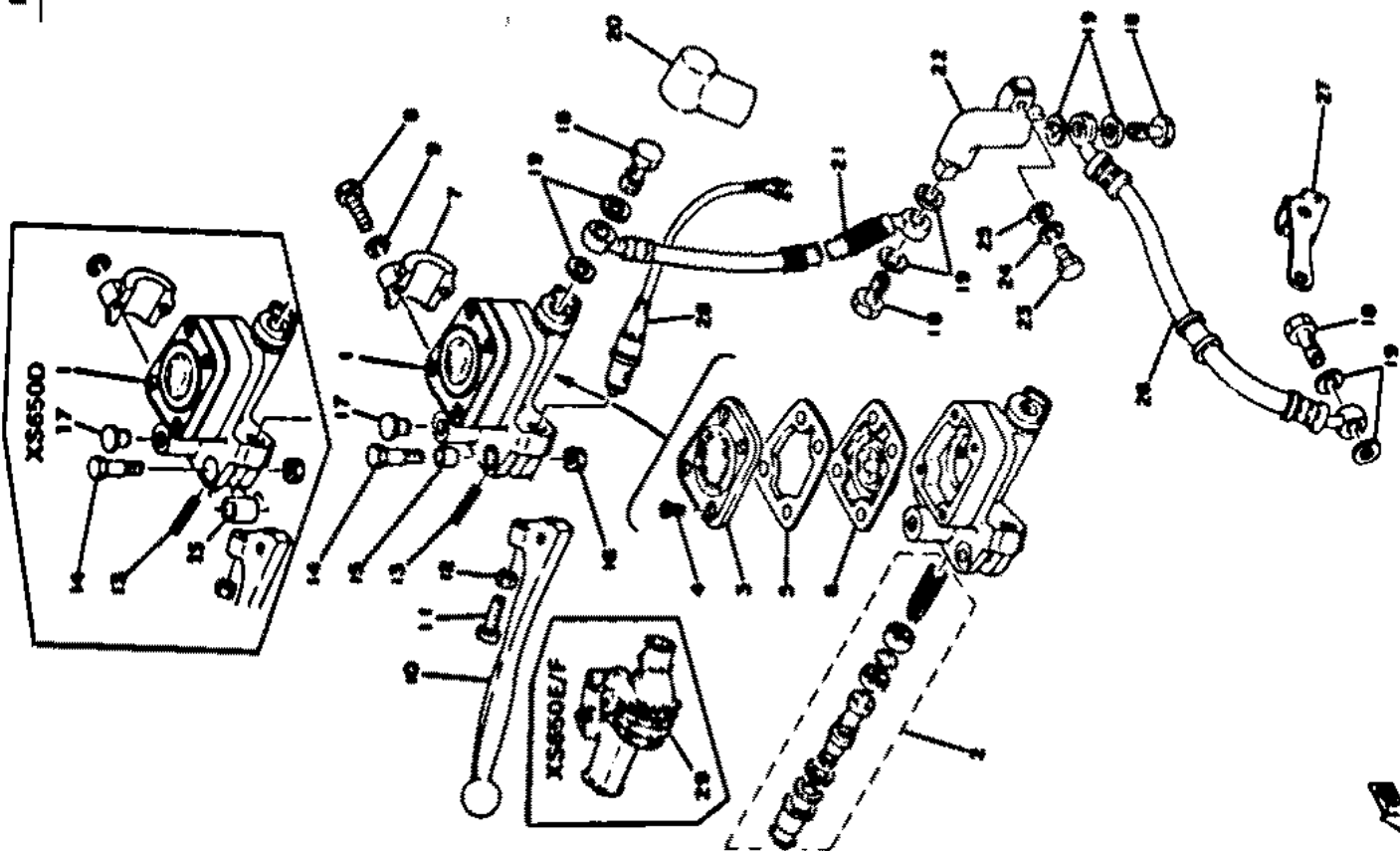


Ref. No.	Part Number	Description
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1	1J3-25850-02-00	MASTER CYLINDER ASS'Y (1J3-25850-01).....(650D) 1
	1U4-25850-02-00	MASTER CYLINDER ASS'Y (1U4-25850-01).....(650E) 1
	1U4-25850-02-00	MASTER CYLINDER ASS'Y (1U4-25850-01).....(650E/F) 1 1
2	535-W0041-60-00	CYLINDER KIT, master (535-20000-60)..... 1 1 1
3	1J3-25852-01-00	CAP, reservoir..... 1 1 1
4	90151-05008-00	SCREW, cap.....(650D/E) 4 4
	98706-05035-00	SCREW, cap.....(650F) 4
5	1J3-25855-01-00	BUSHING, diaphragm..... 1 1 1
6	1J3-25854-01-00	DIAPHRAGM, reservoir..... 1 1 1
7	1J3-25867-00-00	BRACKET, master cylinder..... 1 1 1
8	97321-06025-00	BOLT, hexagon..... 2 2
	97313-06025-00	BOLT, hexagon..... 2 2
9	92903-06100-00	WASHER, spring..... 2 2
10	2F0-83922-00-00	LEVER, right..... 1 1
	2H7-83922-00-00	LEVER, right..... 1
11	90149-06131-00	SCREW, oval head (90146-06008) 1 1 1

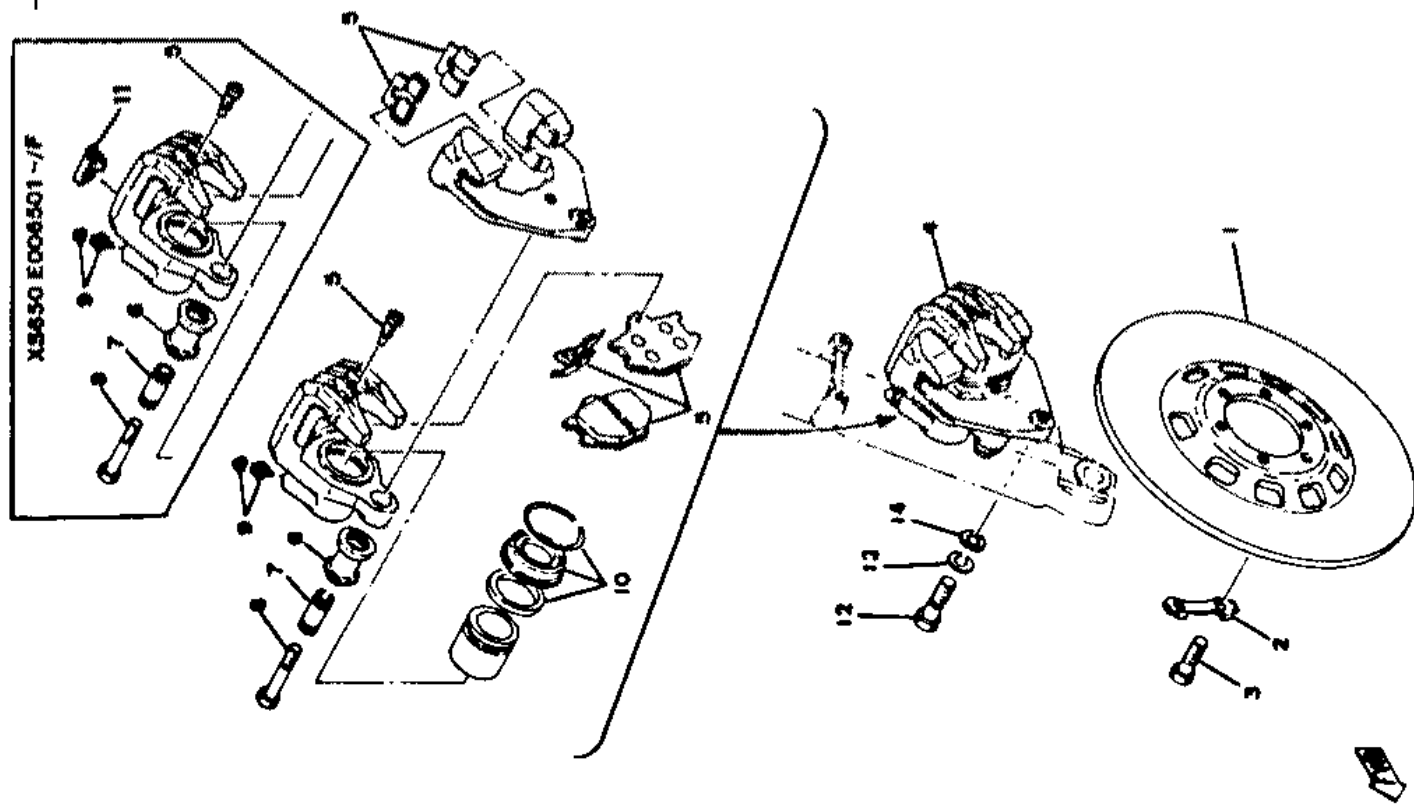


Ref. No.	Part Number	Description	DEF
12	90170-06010-00	NUT (306-83927-00)	1 1 1
13	90501-10312-00	SPRING (306-83924-00)	1 1 1
14	90109-06465-00	SCREW	1 1 1
15	90386-08094-00	BUSHING	1 1 1
16	95601-06100-00	NUT, U	1 1 1
17	90338-09012-00	PLUG, blind (341-26329-00)	1 1 1
18	90401-10034-00	BOLT, union	4 4 4
19	90201-10118-00	WASHER, plate (306-25878-00)	8 8 8
20	306-25862-00-00	BOOT, master cylinder	1 1 1
21	1T3-25872-00-00	HOSE, brake 1	1 1 1
22	1J7-25885-01-00	JOINT	1 1 1
23	97301-06025-00	BOLT, hexagon	1 1 1
24	92903-06100-00	WASHER, spring	1 1 1
25	92901-06600-00	WASHER, plate	1 1 1
26	1T3-25873-00-00	HOSE, brake 2	1 1 1
27	1J3-25875-02-00	HOLDER, brake hose right	1 1 1
28	1A0-83980-30-00	FRONT STOP SWITCH ASS'Y	1 1 1
29	1T5-26372-00-00	COVER, handle lever right	1 1

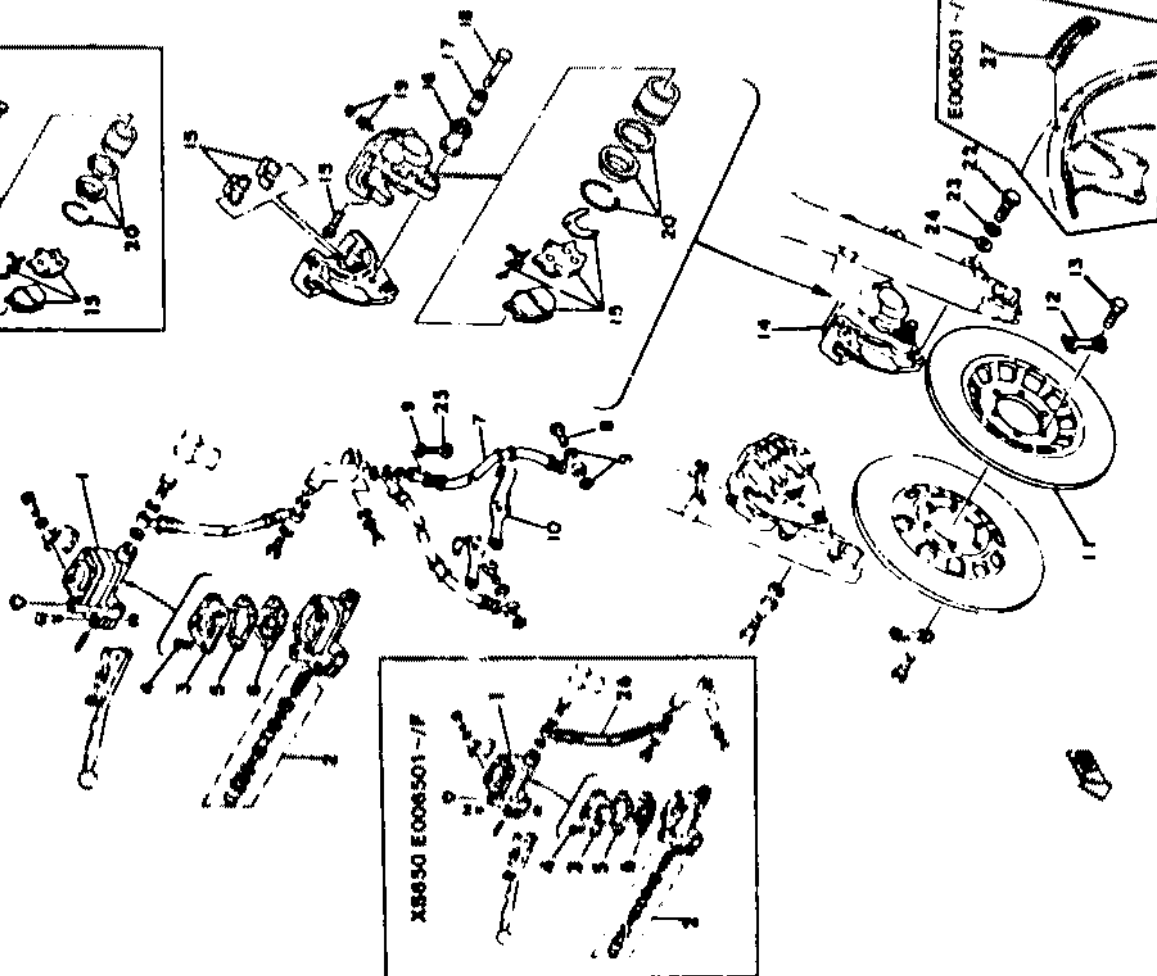
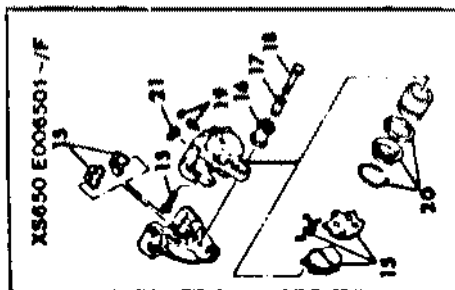


DEF

Ref. No.	Part Number	Description	DEF
1	1J3-25831-00-00	DISC, front brake.	1 1 1
2	1J3-25834-01-00	WASHER, lock.	3 3 3
3	90101-08312-00	BOLT, hexagon (90101-08307)	6 6 6
4	1J3-25810-04-00	FRONT CALIPER ASS'Y, right (1J3-25810-01)	1 1 1
5	1J3-W0045-00-00	CALIPER PAD KIT	1 1 1
6	1J3-25917-00-00	BUSHING, boot	1 1 1
7	1J3-25838-00-00	SLEEVE (1J3-25843-00)	1 1 1
8	90105-08145-00	BOLT, support (90105-08092)	1 1 1
9	1J3-W0048-00-00	SCREW, bleed with cap (1J3-20000-30).	1 1 1
10	1J3-W0047-00-00	CALIPER SEAL KIT (1J3-20000-20).	1 1 1
11	1J3-25845-01-00	CAP, indicator.	1 1 1
12	90101-10308-00	BOLT, hexagon.	2 2 2
13	92903-10100-00	WASHER, spring.	2 2 2
14	92903-10200-00	WASHER, plain.	2 2 2

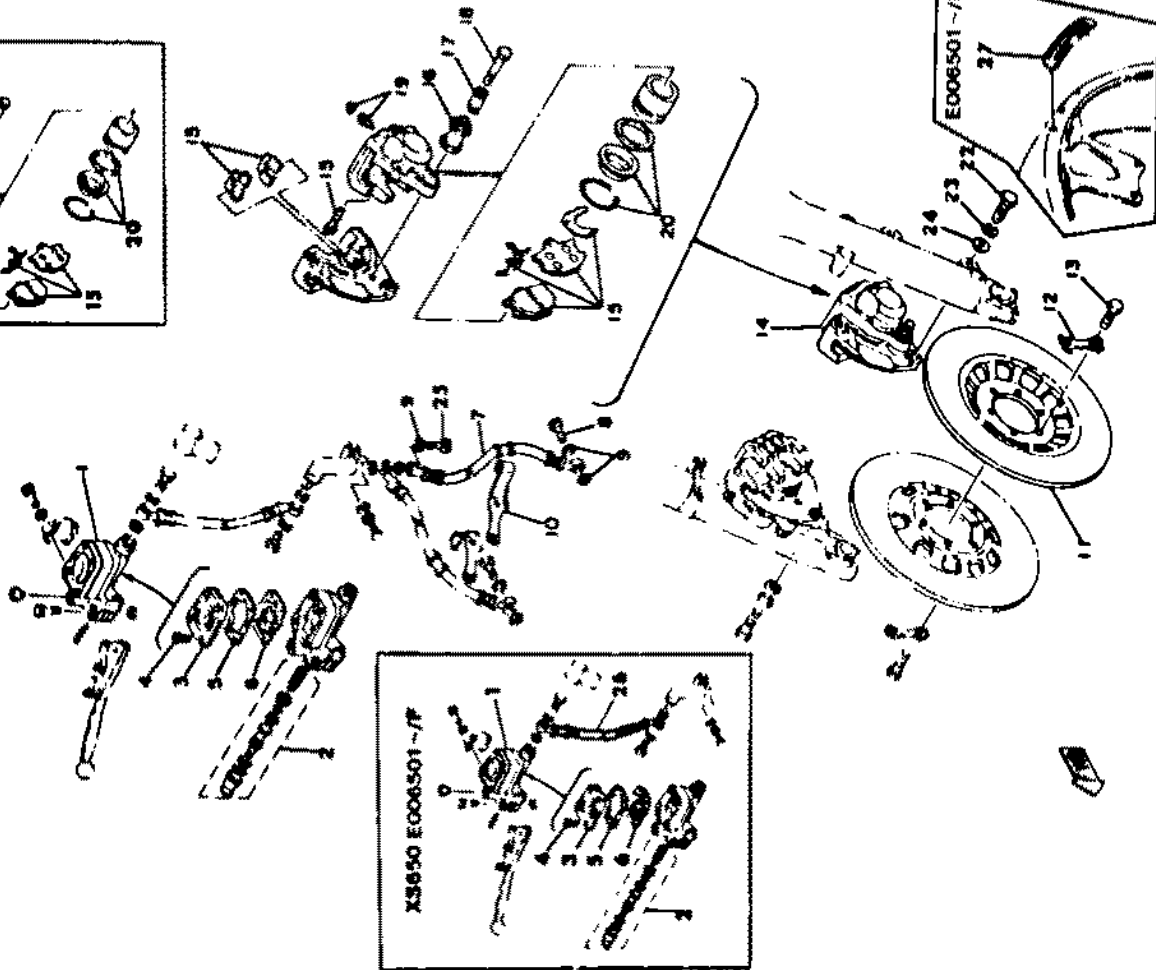
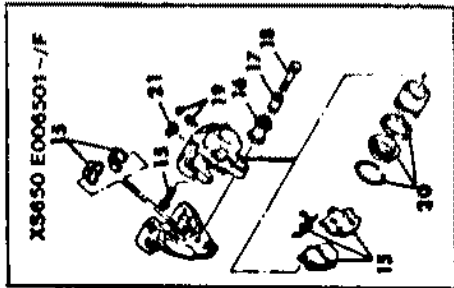


Ref. No.	Part Number	Description	DEF
1	1J3-25850-23-00	MASTER CYLINDER ASS'Y (1J3-25850-22)	1 1 1
2	1J3-W0041-20-00	CYLINDER KIT, master (1J3-20000-20)	1 1 1
3	1J3-25852-01-00	CAP, reservoir	1 1 1
4	90151-05008-00	SCREW, cap (650D/E)	4 4
	98706-05040-00	SCREW, cap (650F)	4
5	1J3-25855-01-00	BUSHING, diaphragm	1 1 1
6	1J3-25854-01-00	DIAPHRAGM, reservoir	1 1 1
7	1T3-25873-00-00	HOSE, brake 2	1 1 1
8	90401-10044-00	BOLT, union	1 1 1
	90401-10034-00	BOLT, union (650E)	1
9	90201-10118-00	WASHER, plate (306-25878-00)	3 3 3
10	1J3-25876-02-00	HOLDER, brake hose left	1 1 1
11	1J3-25831-00-00	DISC, brake	1 1 1
12	1J3-25834-01-00	WASHER, lock	3 3 3
13	90101-08312-00	BOLT, hexagon (90101-08307)	6 6 6



DEF

Ref. No.	Part Number	Description	DEF
14	1J3-25810-14-00	CALIPER ASS'Y, left (1J3-25810-13)	1 1 1
15	1J3-W0045-00-00	CALIPER PAD KIT, left	1 1 1
16	1J3-25917-00-00	BUSHING, boot	1 1 1
17	1J3-25838-00-00	SLEEVE	1 1 1
18	90105-08145-00	BOLT, support (90105-08092)	1 1 1
19	1J3-W0048-00-00	SCREW, bleed with cap (1J3-20000-30)	1 1 1
20	1J3-W0047-00-00	CALIPER SEAL KIT (1J3-20000-20)	1 1 1
21	1J3-25845-01-00	CAP, indicator	1 1
22	90101-10308-00	BOLT, hexagon	2 2 2
23	92903-10100-00	WASHER, spring	2 2 2
24	92903-10200-00	WASHER, plain	2 2 2
25	90401-10044-00	BOLT, union	1
26	1T3-25872-20-00	HOSE, brake 1	1 1
27		PAD, wire	1 1



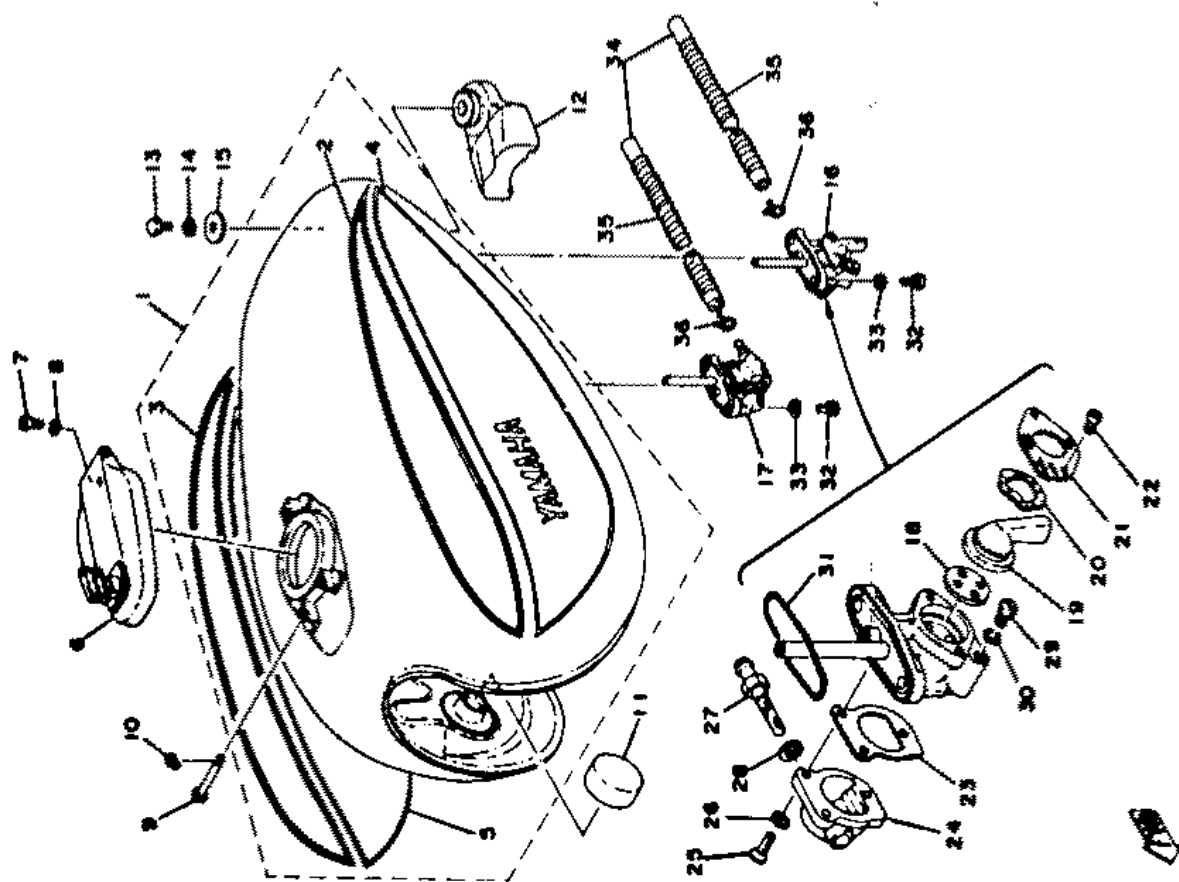
Ref. No.	Part Number	Description	D
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1	584-24110-01-X2	FUEL TANK COMP.	1
	584-24110-01-X6	FUEL TANK COMP.	1
2	1T3-24244-01-00	GRAPHIC, fuel tank upper left (1T3-24244-00).....	1
	1T3-24244-10-00	GRAPHIC, fuel tank upper left	1
3	1G3-24245-01-00	GRAPHIC, fuel tank upper right (1T3-24245-00).....	1
	1T3-24245-10-00	GRAPHIC, fuel tank upper right	1
4	1T3-24246-01-00	GRAPHIC, fuel tank under left (1T3-24246-00).....	1
	1T3-24246-10-00	GRAPHIC, fuel tank under left	1
5	1T3-24247-01-00	GRAPHIC, fuel tank under right (1T3-24247-00).....	1
	1T3-24247-10-00	GRAPHIC, fuel tank under right	1
6	584-24602-00-00	TANK CAP ASS'Y	1

XS650D

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7	98501-05010-00	SCREW, pan head (98503-05008)	1
8	92903-05100-00	WASHER, spring	1
9	90249-03123-00	PIN	1
10	93430-02001-00	CIRCLIP (E-1.9)	1
11	156-24181-00-00	DAMPER, locating 1	2
12	256-24181-01-00	DAMPER, locating 1	1
13	97321-06016-00	BOLT, hexagon (97321-06015)	1
14	92903-06100-00	WASHER, spring	1
15	90201-06075-00	WASHER, plate (808-24186-00)	1

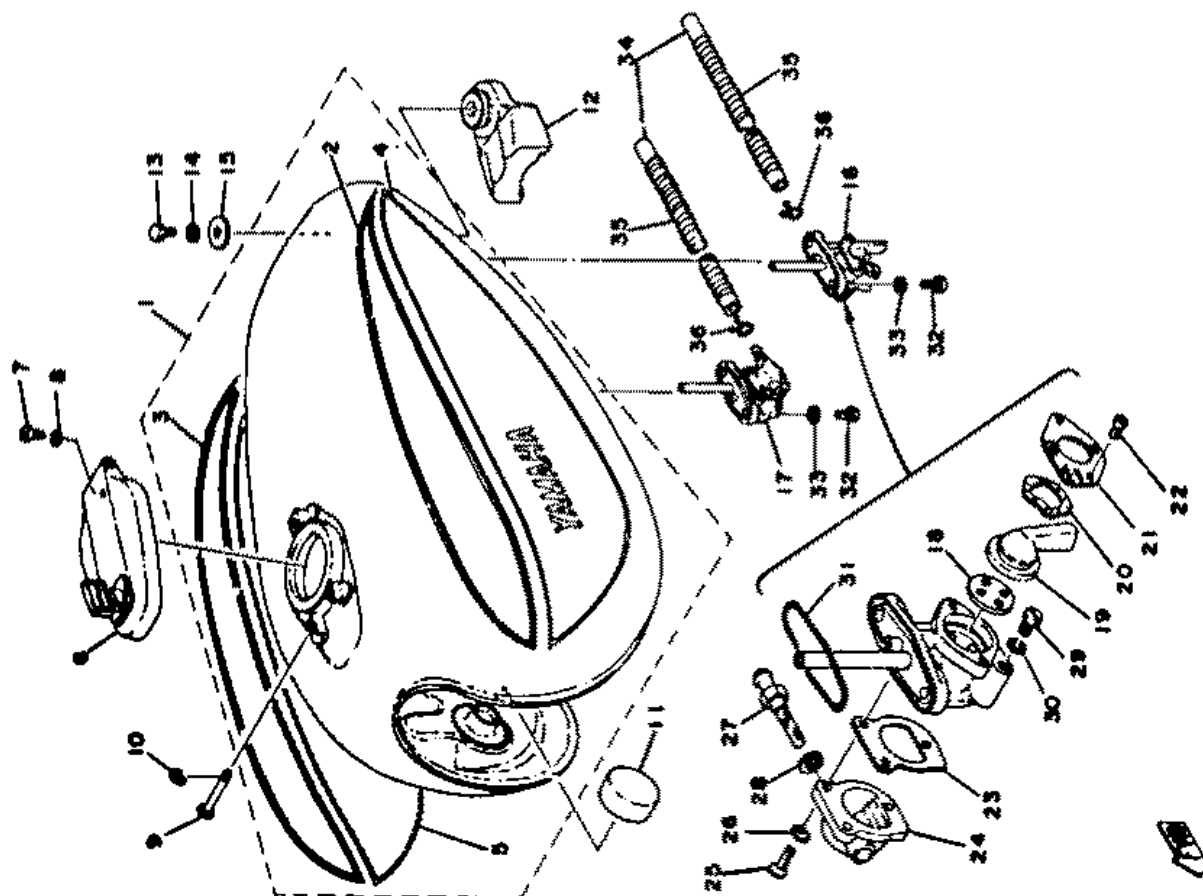


Ref. No.	Part Number	Description
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16	447-24500-02-00	FUEL COCK ASS'Y, left..... 1
17	447-24510-02-00	FUEL COCK ASS'Y, right..... 1
18	137-24523-00-00	VALVE..... 2
19	447-24524-00-00	LEVER, cock left..... 1
	447-24524-10-00	LEVER, cock right..... 1
20	132-24518-00-00	WASHER, wave..... 2
21	447-24525-00-00	PLATE, lever fitting left..... 1
	447-24548-00-00	PLATE, lever fitting right..... 1
22	98501-03008-00	SCREW, pan head..... 4
23	447-24522-00-00	GASKET, filter..... 2
24	447-24547-00-00	COVER, filter right..... 1
	447-24547-10-00	COVER, filter right..... 1

XS650D

25	98701-04010-00	SCREW, flat head..... 6
26	92901-04500-00	WASHER, tooth..... 6
27	256-24537-00-00	NIPPLE..... 2
28	256-24528-00-00	GASKET..... 2
29	97801-05006-00	PLUG, drain (256-24543-00)..... 2
30	801-24437-00-00	GASKET..... 2
31	256-24512-00-00	GASKET, body..... 2
32	90149-06011-00	SCREW (256-24143-00)..... 4
33	90202-06010-00	WASHER, plate (178-14766-00)..... 4
34	90445-09079-00	HOSE (5-140) (170-24311-00)..... 2
35	90501-06028-00	SPRING, compression (256-24333-00)..... 2
36	90467-08003-00	CLIP (101-24356-00)..... 4

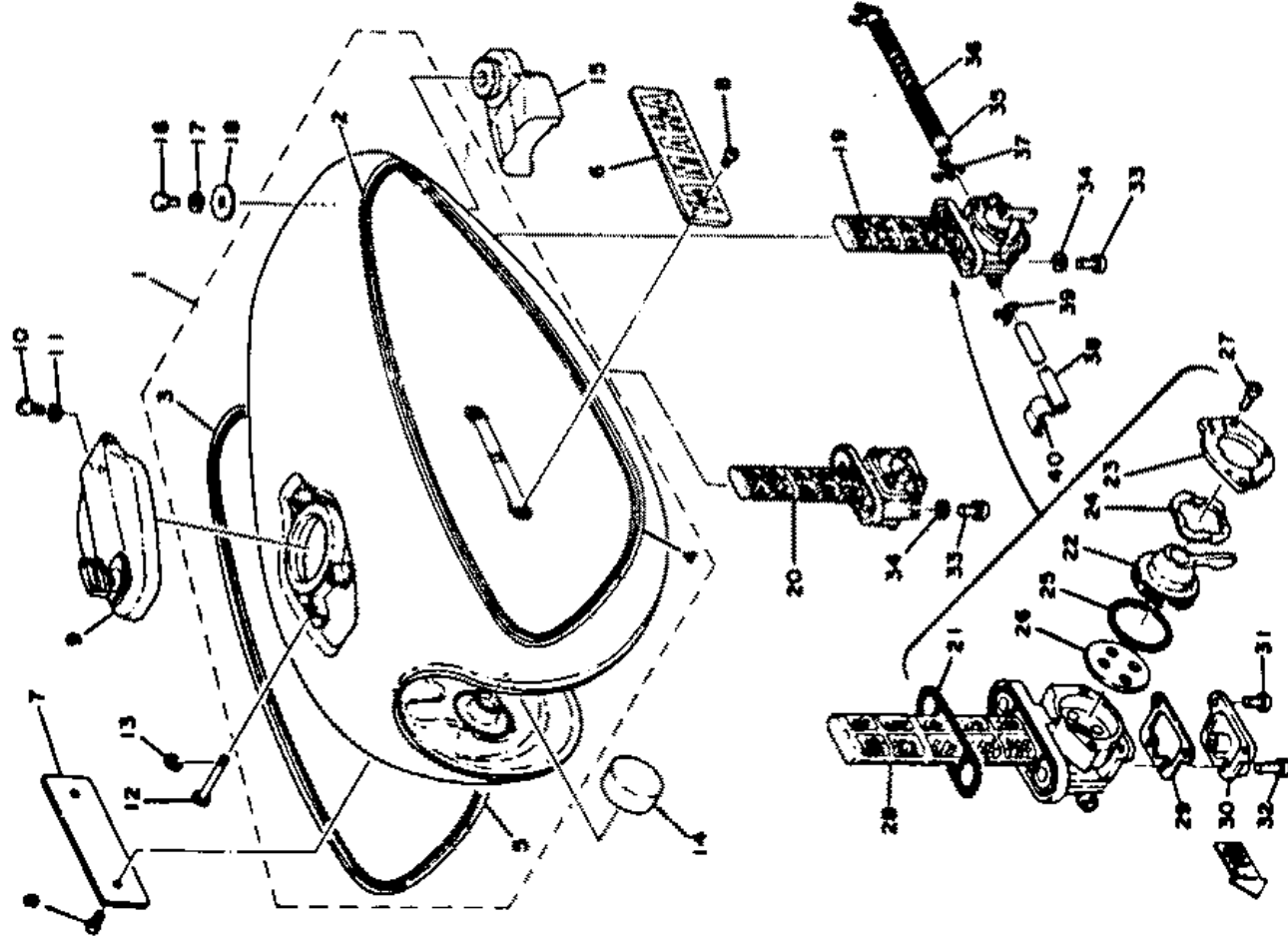


1	2FO-24110-00-01	FUEL TANK COMP.	1
	2FO-24110-00-02	FUEL TANK COMP.	1
2	2FO-24244-00-00	GRAPHIC, fuel tank upper left	1
3	2FO-24245-00-00	GRAPHIC, fuel tank upper right	1
4	2FO-24246-00-00	GRAPHIC, fuel tank under left	1
5	2FO-24247-00-00	GRAPHIC, fuel tank under right	1
6	2FO-24161-10-00	EMBLEM, fuel tank left	1
7	2FO-24162-10-00	EMBLEM, fuel tank right	1
8	90152-04006-00	SCREW	4
9	584-24602-00-00	TANK CAP ASS'Y	1
10	98501-05010-00	SCREW, pan head (98503-05008)	1

XS650E/E006501

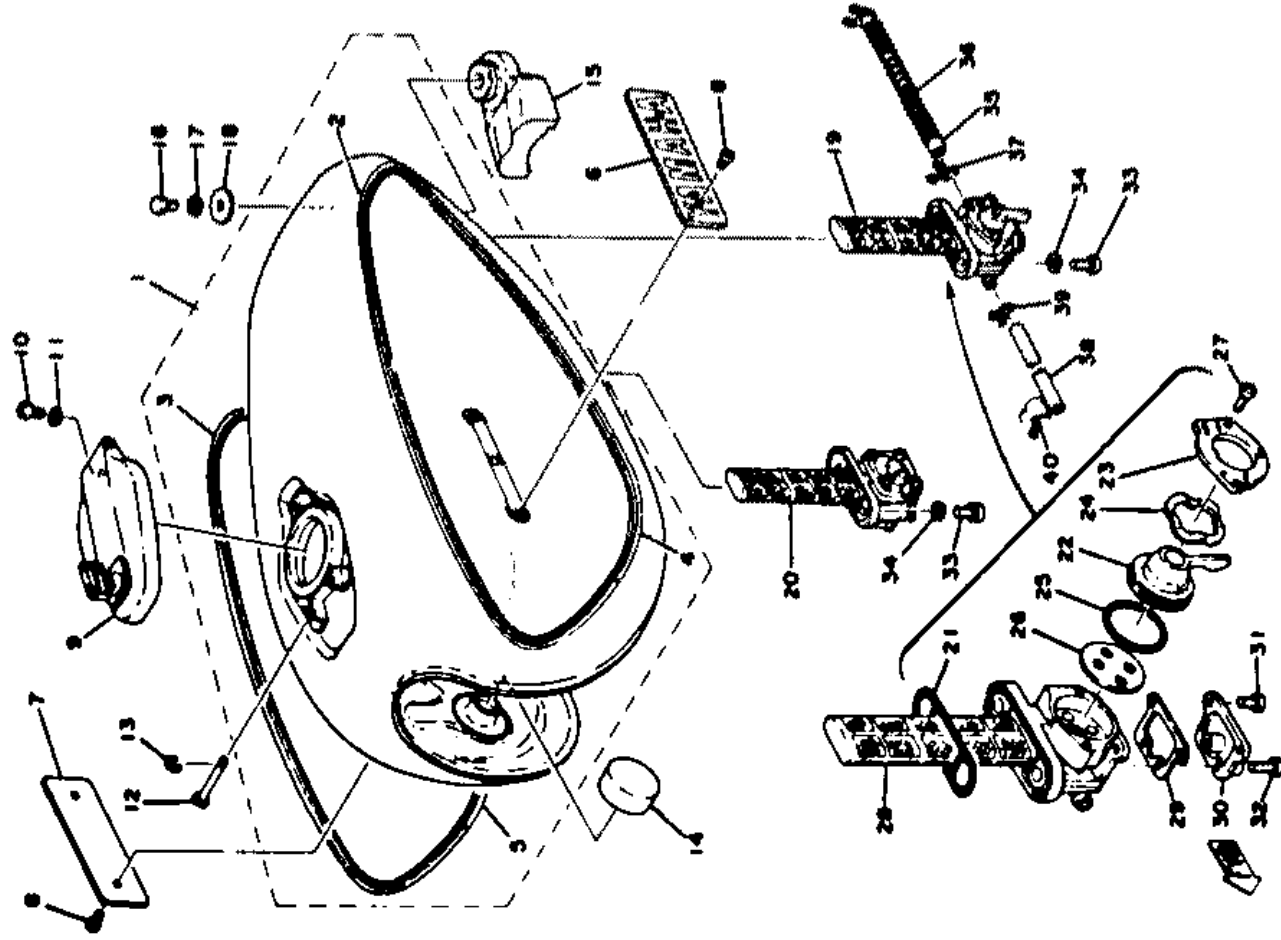
11	92903-05100-00	WASHER, spring	1
12	90249-03123-00	PIN	1
13	93430-02001-00	CIRCLIP (E-1.9)	1
14	156-24181-00-00	DAMPER, locating 1	2
15	256-24181-01-00	DAMPER, locating 1	1
16	97321-06016-00	BOLT, hexagon	1
17	92903-06100-00	WASHER, spring	1
18	90201-06075-00	WASHER, plate (808-24186-00)	1
19	2FO-24500-01-00	FUEL COCK ASS'Y, left	1
20	2FO-24510-01-00	FUEL COCK ASS'Y, right	1
21	1J7-24512-00-00	GASKET, flange	2
22	1J7-24524-00-00	LEVER, fuel cock left	1
	1J7-24524-10-00	LEVER, fuel cock right	1

XS650E/E006501

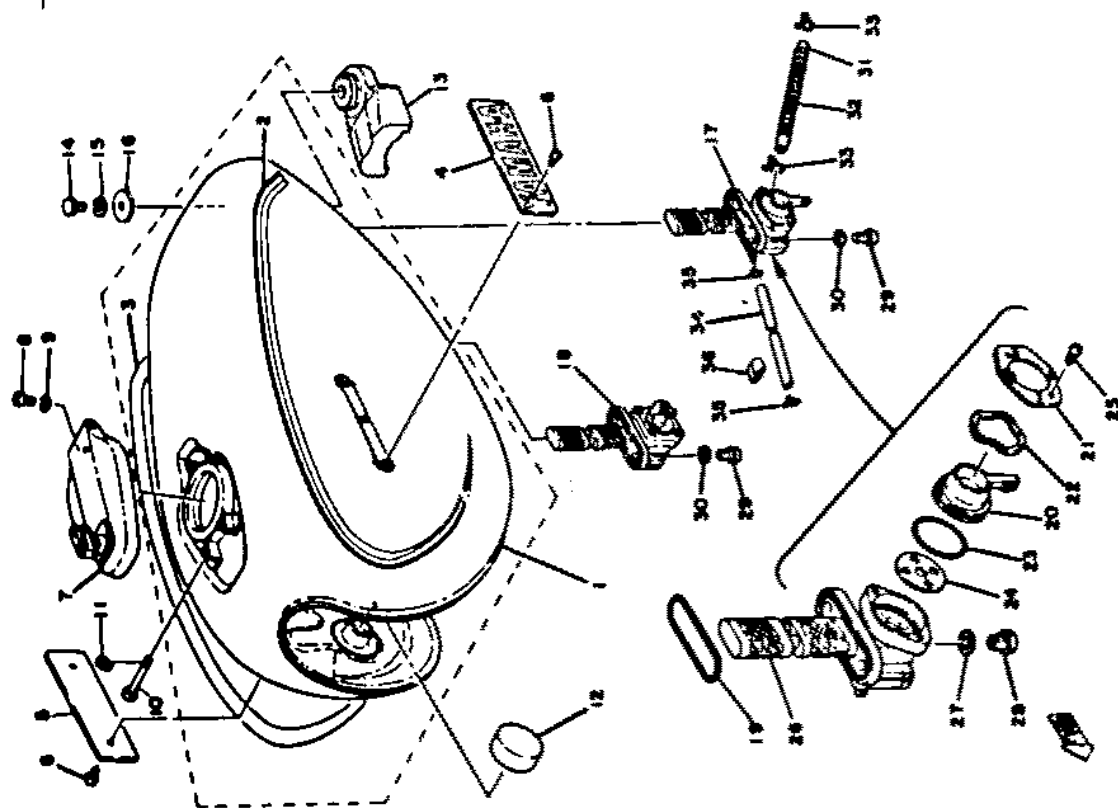


Ref. No.	Part Number	Description
23	1J7-24525-00-00	PLATE, lever fitting left
24	1J7-24525-10-00	PLATE, lever fitting right
24	1J7-24518-00-00	SPRING, plate
25	1J7-24534-00-00	SEAL, fuel cock
26	1J7-24523-00-00	GASKET, fuel cock
27	98601-03010-00	SCREW, oval head
28		See NOTE on Grid F-7
29	1J7-24522-00-00	GASKET, drain cover
30	2F0-24521-00-00	COVER, drain left
31	2F0-24521-10-00	COVER, drain right
31	98601-04008-00	SCREW, oval head
32	97601-04112-00	SCREW, pan with washer
32	98701-04016-00	SCREW, oval head
32	98601-04012-00	SCREW, oval head

XS650E/E00650



33	90149-06008-00	BOLT, cock connecting (366-24143-00)
34	90202-06010-00	WASHER, protector (178-14766-00)
35	90445-10133-00	HOSE (6-140)
36	90504-06023-00	SPRING, compression
37	90467-09006-00	CLIP (806-24356-00)
38	90445-07176-00	HOSE, vacuum (4.2-200) (395-24317-00)
38	90445-07370-00	HOSE, vacuum (4.2-200)
39	90467-07029-00	CLIP
40	878-82361-00-00	CLAMP (878-82314-00)



XS650F

1	2FO-24110-00-03	FUEL TANK COMP	1
2	2FO-24244-10-00	GRAPHIC, fuel tank upper left	1
3	2FO-24245-10-00	GRAPHIC, fuel tank upper right	1
4	2FO-24161-10-00	EMBLEM, fuel tank left	1
5	2FO-24182-10-00	EMBLEM, fuel tank right	1
6	90152-04008-00	SCREW	4
7	584-24602-00-00	TANK CAP ASS'Y	1
8	98501-05010-00	SCREW, pan head (98503-05008)	1
9	92903-05100-00	WASHER, spring	1
10	90249-03123-00	PIN	1
11	93430-02001-00	CIRCLIP (E-1.9)	1

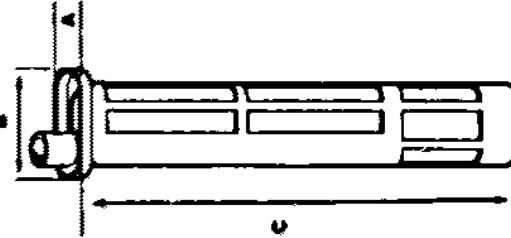
12	156-24181-00-00	DAMPER, locating 1	2
13	256-24181-01-00	DAMPER, locating 1	1
14	97321-06016-00	BOLT, hexagon	1
15	92903-06100-00	WASHER, spring (92901-06100)	1
16	90201-06075-00	WASHER, plate (808-24186-00)	1
17	2M0-24500-04-00	FUEL COCK ASS'Y, left (2M0-24500-03)	1
18	2M0-24510-04-00	FUEL COCK ASS'Y, right (2M0-24510-01)	1
19	2G2-24512-00-00	GASKET, fuel cock	2
20	2G2-24524-00-00	LEVER, fuel cock left	1
21	2G2-24524-10-00	LEVER, fuel cock right	1
22	2G2-24525-00-00	PLATE, lever fitting left	1
23	2G2-24525-10-00	PLATE, lever fitting right	1
24	2G2-24518-00-00	WASHER, wave	2
25	2G2-24534-00-00	SEAL, fuel cock	2
26	2G2-24523-00-00	GASKET, fuel cock	2
27	98501-03008-00	SCREW, oval head	4

Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 15 Lit. (4 Gal.) / 2.5 Lit. (0.6 Gal.)
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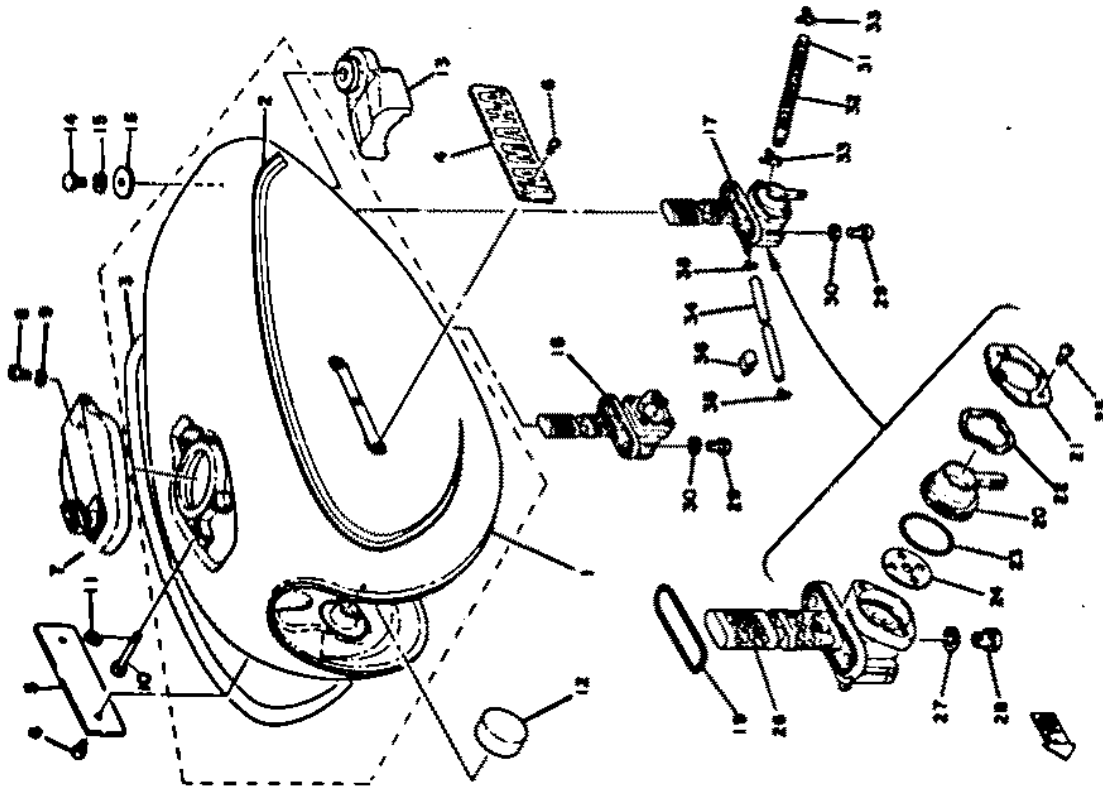
Ref. No.	Part Number	Description	Quantity
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26		See NOTE on Grid F-7	
27	2G2-24522-00-00	GASKET, drain plug	2
28	2G2-24543-00-00	PLUG, drain	1
29	90149-06008-00	BOLT, cock connecting (388-24143-00)	4
30	90202-06010-00	WASHER, protector (178-14766-00)	4
XS650F			
31	90445-10133-00	HOSE	2
32	90504-36023-00	SPRING, compression	2
33	90467-09006-00	CLIP	4
34	90445-07370-00	HOSE, vacuum	2
35	90467-07029-00	CLIP	4
36	878-82361-00-00	CLAMP	2

Due to factory modification campaign (Tech Bulletin M80-022) on this model, the Pet Cock filters for the old and new Pet Cocks are different. Before ordering, determine which Pet Cock is used. This can be done by comparing the following dimensions with the part you are replacing.



A 10 MM
B 22.3 MM
C 94.3 MM

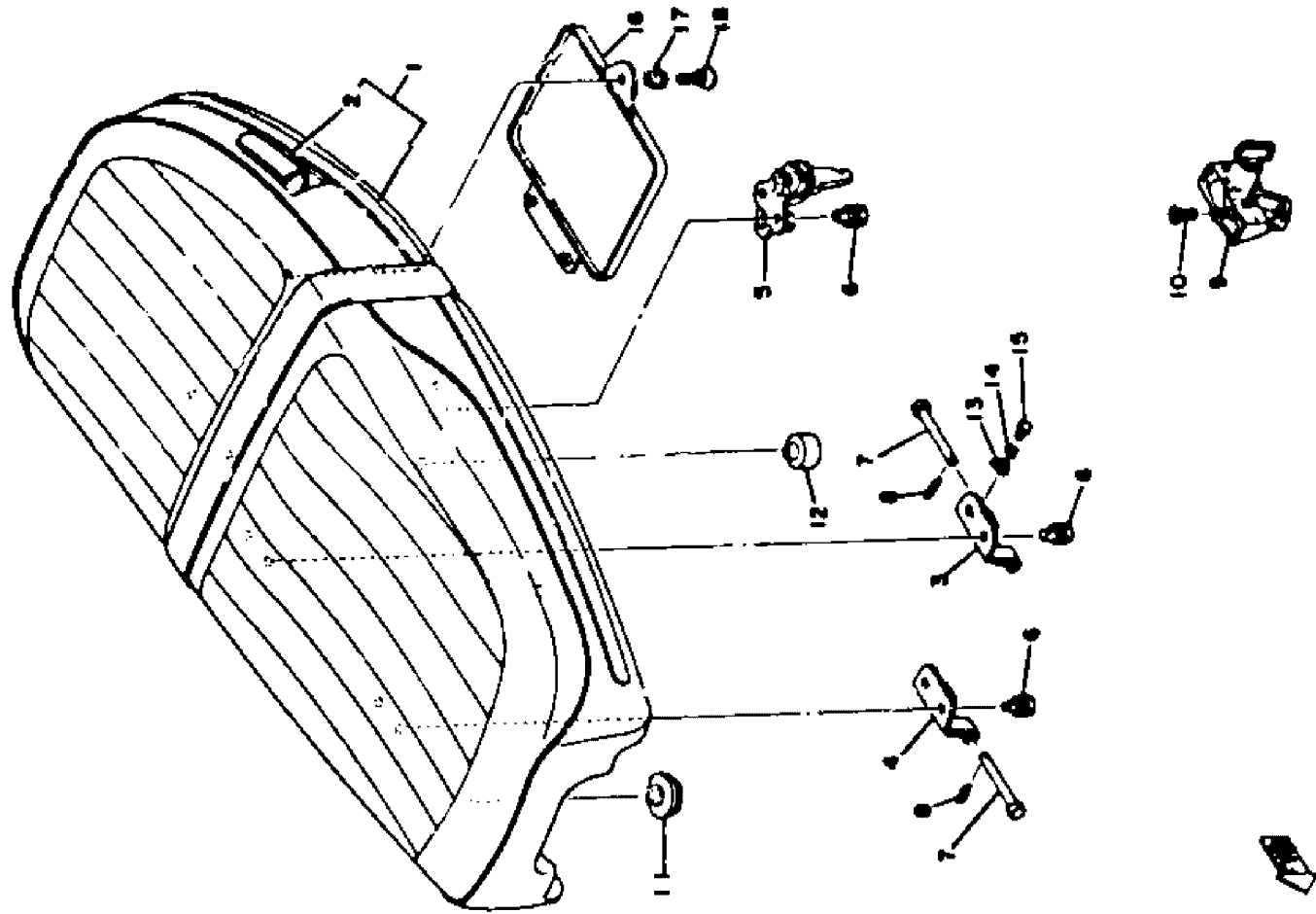


Fuel Type/Fuel Tank Capacity/Reserve Capacity Regular / 15 Lit (4 Gal) / 2.5 Lit (0.6 Gal)

If the Pet Cock that is being replaced has the measurements shown, order 3Y1-24514-00-00. If it does not have these measurements, order 3G1-24514-00-00.

DEF

Ref. No.	Part Number	Description	
1	1T3-W2472-00-00	DOUBLE SEAT ASS'Y (1T3-24730-90)..... (650D/E) 1 1	
	2F0-24780-90-00	DOUBLE SEAT ASS'Y.... (650F) 1	
2	1T3-24731-00-00	COVER, double seat.. (650D/E) 1 1	
	2F0-24731-00-00	COVER, double seat.... (650F) 1	
3	389-24726-00-33	HINGE, seat..... 1 1 1 1	
4	371-24726-01-00	HINGE, seat..... 1 1 1	
5	371-24728-02-00	BRACKET, seat (371-24728-01) 1 1 1	
6	90101-06304-00	BOLT, hexagon..... 6 6 6	
7	91701-05055-00	PIN, clevis (91501-05055) 2 2 2	
8	90468-10050-00	CLIP (156-83525-00) 2 2 2	
9	584-24705-00-00	SEAT LOCK ASS'Y 1 1 1	
10	92706-06012-00	SCREW, flat head 2 2 2	
11	174-24741-00-00	PAD, seat (650D) 4	
	1L9-24741-00-00	PAD, seat (650E/F) 4 4	
12	278-27114-00-00	STOPPER..... 1 1 1	
13	389-24756-00-00	STOPPER..... 1 1 1	
14	92903-06100-00	WASHER, spring..... 1 1 1	
15	97301-06010-00	BOLT, hexagon..... 1 1 1	
16	2R5-28185-00-00	LID (341-28185-00) 1 1 1	
17	90430-06007-00	GROMMET (341-28187-00) 1 1 1	
18	341-28188-00-00	PLUNGER..... 1 1 1	



DEF

Ref. No. Part Number Description

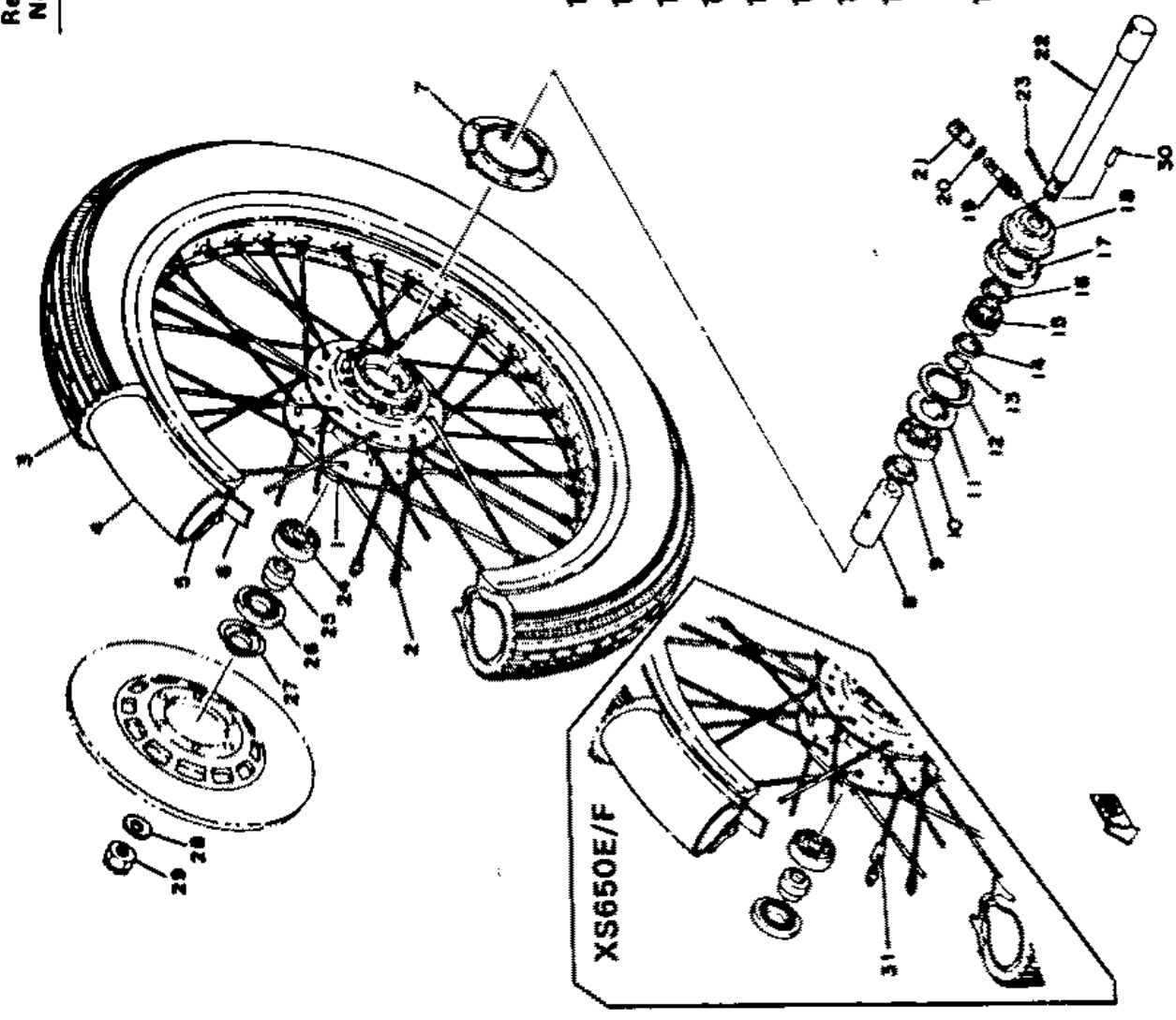
1	341-25111-01-00	HUB, front	1 1 1
2	341-25104-00-00	SPOKE SET	1s 1s 1s
3	94135-19345-00	TIRE, front (3.50-19-4PR) (94135-19341)	1 1 1
4	94235-19034-00	TUBE (3.50-19)	1 1
5	94235-19087-00	TUBE (3.50-19)	1
6	94418-19145-00	RIM (1.85-19)	1 1 1
7	94325-19027-00	BAND, rim (2.50-19)	1 1 1
8	1L9-25847-00-00	COVER, housing	1 1 1
9	90560-17126-00	SPACER (341-25117-01)	1 1 1
10	152-25115-00-00	FLANGE, spacer	1 1 1
11	93306-30306-00	BEARING (B6303 RS)	1 1 1
12	341-25149-00-00	CLUTCH, meter	1 1 1
13	341-25846-00-00	RETAINER, meter clutch	1 1 1
14	341-25137-00-00	RING, stop	1 1 1
15	90201-25288-00	WASHER, plate (341-25147-00)	1 1 1
16	341-25135-01-00	GEAR, drive	1 1 1
17	90201-25490-00	WASHER, plate (152-17226-00)	1 1 1
18	93105-45017-00	OIL SEAL (SDO-45-56-6)	1
19	93102-28022-00	OIL SEAL (SD-28-47-7)	1 1
20	341-25190-01-00	HOUSING, gear unit (341-25191-01)	1 1 1

XS650D/E

Tires (size/nominal pressure) Front: 3.50H-19/23psi / Rear: 4.00H-18/28psi

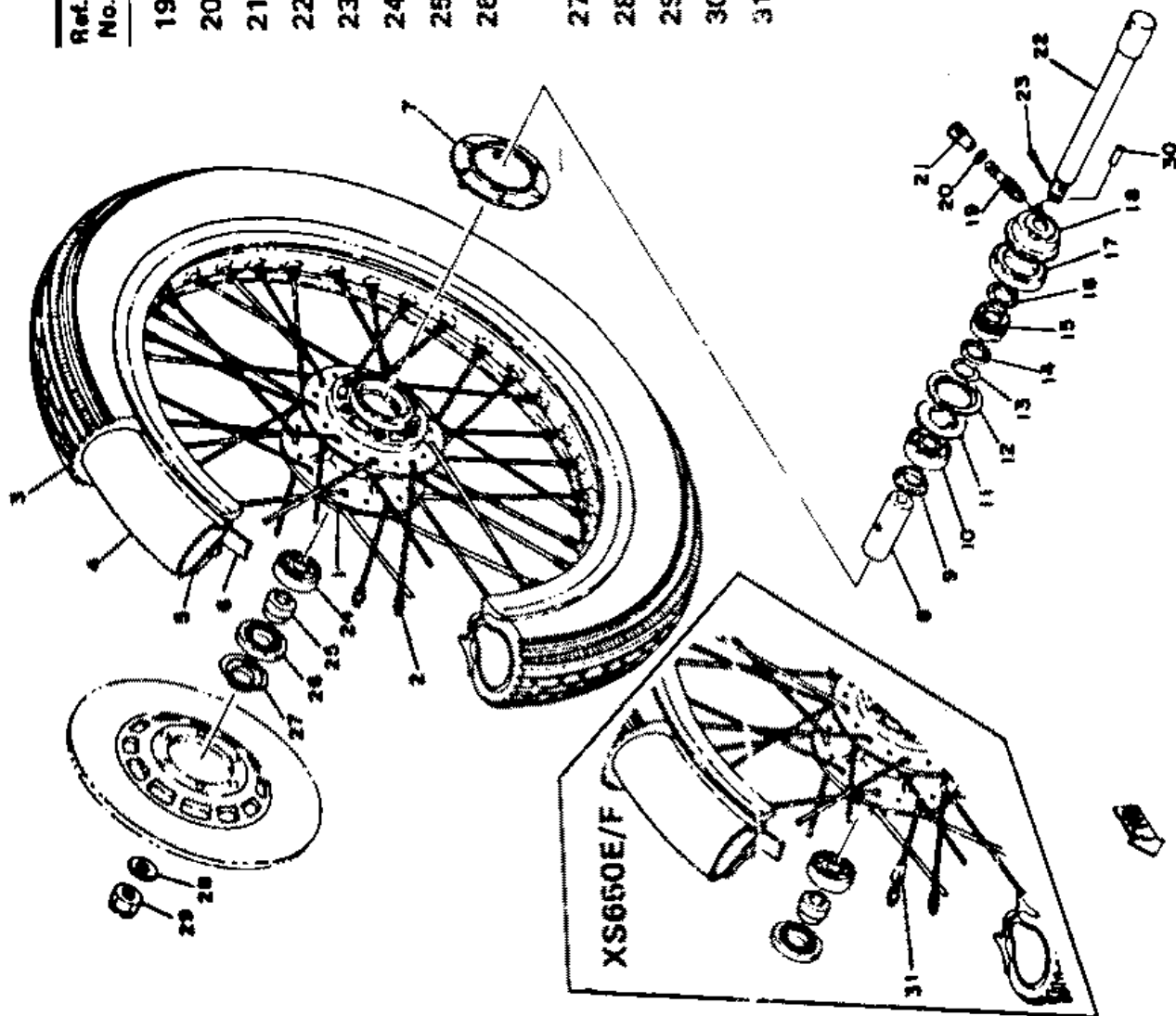
XS650F

Tire Size (Nominal Pressure) F: 3.50H-19/11.6 kg/cm²/22 psi R: 4.00H-18/20 kg/cm²/28



FRONT WHEEL XS650E/EV000001

Ref. No.	Part Number	Description	DEF
19	306-25138-00-00	GEAR, meter	1 1 1
20	102-18416-00-00	SHIM (6.2-9.5-0.8)	1 1 1
21	306-25136-00-00	BUSHING	1 1 1
22	341-25181-01-00	SHAFT, wheel	1 1 1
23	91401-30030-00	PIN, cotter	1 1 1
24	93306-30307-00	BEARING (B6303)	1 1 1
25	90387-17433-00	COLLAR (341-25183-00)	1 1 1
26	93102-28022-00	OIL SEAL (SD-28-47-7)	1
	93105-45017-00	OIL SEAL (SDO-45-56-6)	1 1
27	341-25118-00-00	COVER, dust	1 1 1
28	92901-14200-00	WASHER, plain	1 1 1
29	9171-14020-00	NUT, castle (90171-14006)	1 1 1
30	91609-20014-00	PIN, spring	1 1 1
31	156-25398-00-00	BALANCE, wheel	UNUN



DEF

Ref. No.	Part Number	Description
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1	256-25311-00-00	HUB, rear	1 1 1
2	256-25304-00-00	SPOKE SET	1s 1s 1s
3	94140-18340-00	TIRE, rear (4.00-18-4PR)	1 1 1
4	94237-18120-00	TUBE (94240-18024)	1 1 1
5	94421-18146-00	RIM (2.15B-18) (94421-18126)	1 1 1
6	94340-18022-00	BAND, rim (4.00-18)	1 1 1
7	90560-20135-00	SPACER (256-25317-00)	1 1 1
8	256-25315-00-00	FLANGE, spacer	1 1 1
9	93306-30404-00	BEARING (B6304Z)	1 1 1
10	93104-27026-00	OIL SEAL (SO-27-52-5)	1 1 1
11	447-25330-01-00	BRAKE SHOE COMP	2 2 2
12	90507-20002-00	SPRING, tension (246-25333-00)	2 2 2
13	447-25321-00-00	PLATE, brake shoe	1
	1T3-25026-00-00	PLATE, brake shoe (1T3-25320-00)	1 1 1
14	90480-10068-00	GROMMET	1 1 1
15	341-25351-00-00	CAMSHAFT	1 1 1
16	90206-14020-00	WASHER, wave (648-42188-00)	1
17	447-25353-00-00	SHIM, camshaft	1 1
	90201-14577-00	SHIM, camshaft	1 1

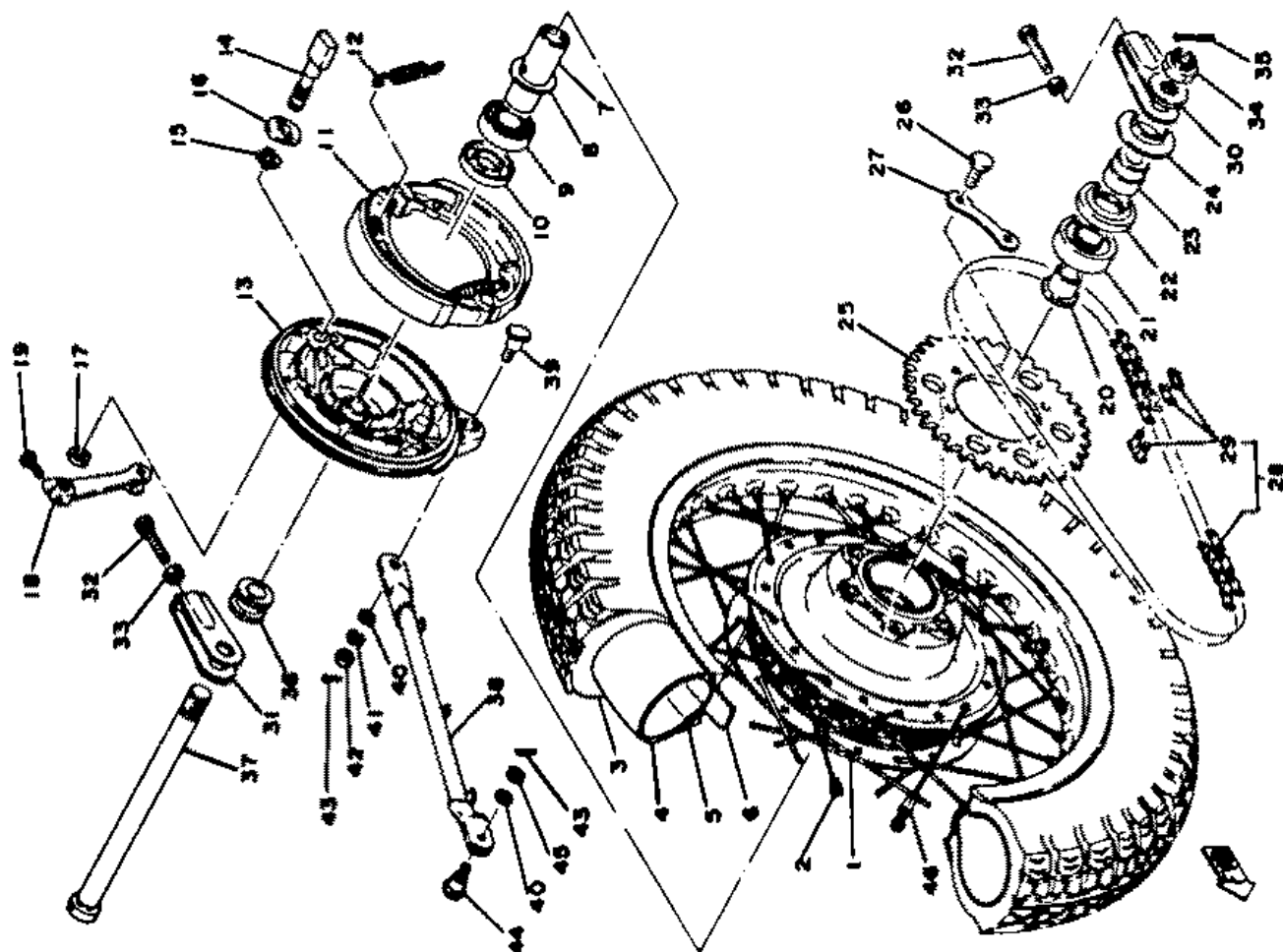
XS650D/E

Tires (size/normal pressure)

Front: 3.50H-19/23psi / Rear: 4.00H-18/28psi

XS650F

Tire Size (Nominal Pressure)

F: 3.50H19(1.6 kg/cm²/22 psi)R: 4.00H18(2.0 kg/cm²)

Ref. No.	Part Number	Description	
18	148-25359-00-00	SEAL, camshaft.....	1 1 1
19	341-25355-00-00	LEVER, camshaft.....	1 1 1
20	90101-06225-00	BOLT, hexagon.....	1
	90101-06291-00	BOLT, hexagon.....	1 1
21	90387-20166-00	COLLAR (256-25376-00).....	1 1 1
22	93306-30507-00	BEARING (B6305Z).....	1 1 1
23	93102-35065-00	OIL SEAL (SD-35-62-9).....	1 1 1
24	90387-20176-00	COLLAR (256-25377-00).....	1 1 1
25	256-25367-00-00	COVER, dust.....	1 1 1
26	256-25432-20-33	GEAR, sprocket wheel (32T).....	1 1 1
	256-25433-20-33	GEAR, sprocket wheel (33T).....	1 1 1
	256-25434-20-33	GEAR, sprocket wheel (34T).....	1 1 1
	256-25436-20-33	GEAR, sprocket wheel (36T).....	1 1 1
27	90105-10007-00	BOLT (148-25411-00).....	6 6 6
28	256-25412-00-00	WASHER, lock.....	3 3 3
29	94580-05104-00	CHAIN (94575-30104).....	1 1 1
30	94680-05011-00	JOINT, chain (94675-30011).....	1 1 1
30	341-25388-01-00	PULLER, chain left.....	1 1 1
31	341-25389-00-00	PULLER, chain right.....	1 1 1
32	90101-08034-00	BOLT, hexagon (168-25479-00).....	2 2 2

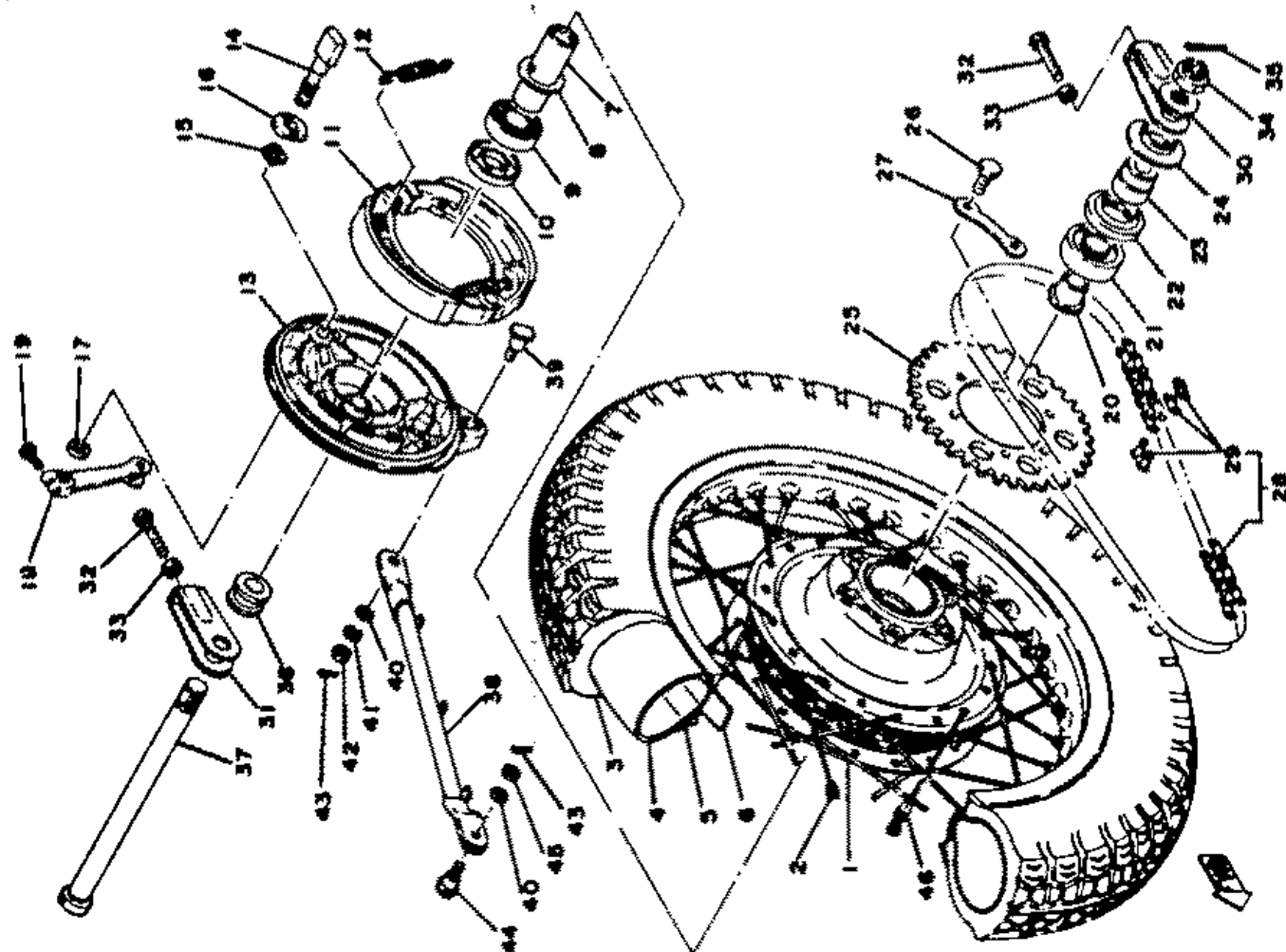
XS650D/E

Tires (size/normal pressure)

Front: 3.50H-19/23psi / Rear: 4.00H-18/28psi

XS650F

Tire Size (Nominal Pressure)

F: 3.50H19(1.8 kg/cm²/23 psi) R: 4.00H18(2.0 kg/cm²/28 psi)

Ref.
No.

Part
Number

Description

DEF

33	90170-08158-00	NUT, hexagon	2
	95301-08700-00	NUT, hexagon	2 2
34	90171-18008-00	NUT, castle (256-25382-00)	1 1 1
35	91401-40040-00	PIN, cotter (91401-40035)	1 1 1
36	90387-20444-00	COLLAR (341-25383-00)	1 1 1
37	341-25381-00-00	SHAFT, wheel	1 1 1
38	1T3-25371-00-00	BAR, tension (341-25371-00)	1 1 1
39	90109-08338-00	BOLT (341-25378-00)	1 1 1
40	92901-08600-00	WASHER, plate	2 2 2
41	92903-08100-00	WASHER, spring	1 1 1
42	90170-08158-00	NUT, hexagon	1 1 1
43	91401-20015-00	PIN, cotter	2 2 2
44	90109-08374-00	BOLT	1 1 1
45	90170-08157-00	NUT, hexagon	1 1 1
46	156-25398-00-00	BALANCER, wheel	UNUNUN

XS650D/E

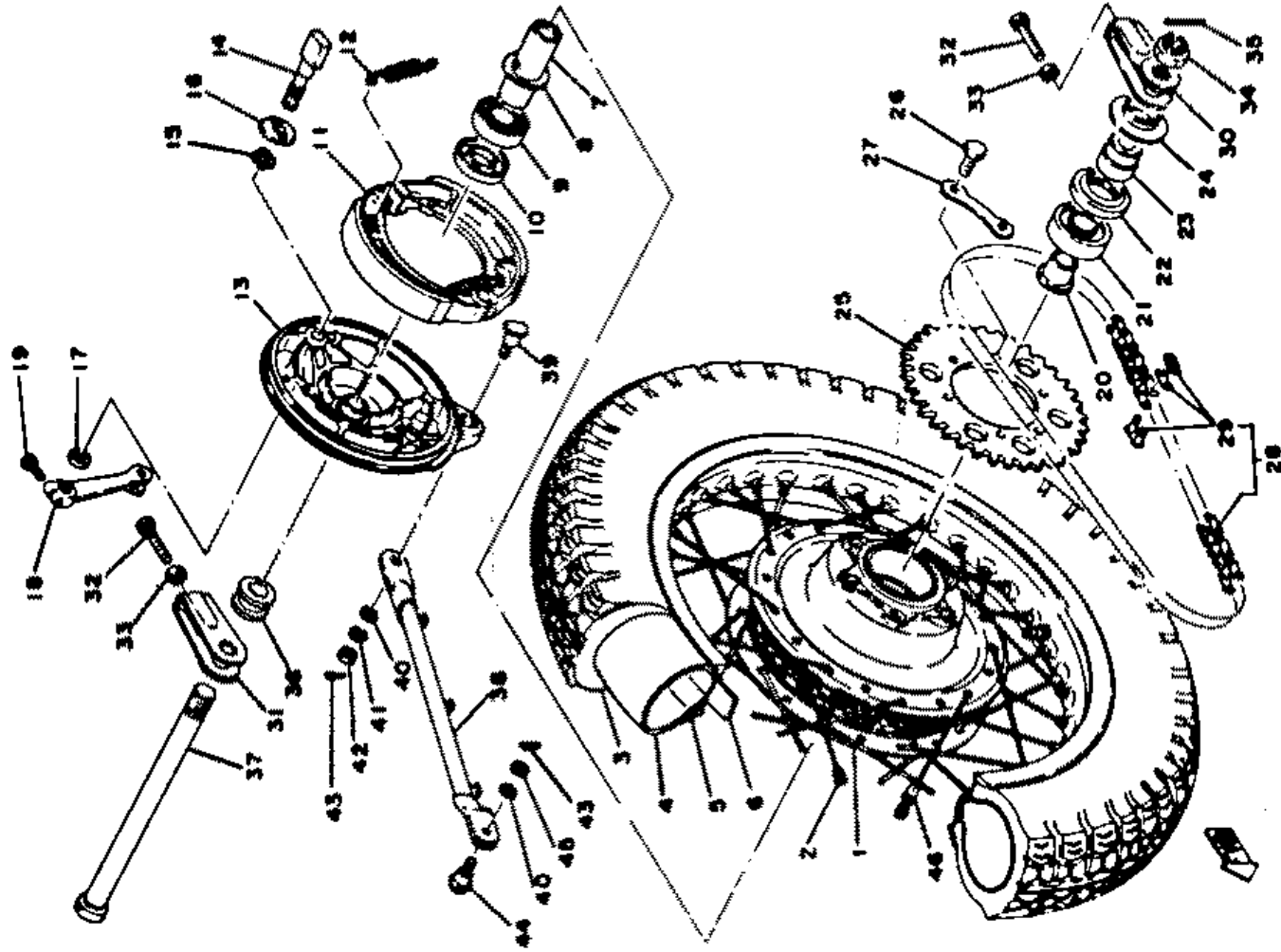
Tires (size/normal pressure)

Front: 3.50H-19/23psi / Rear: 4.00H-18

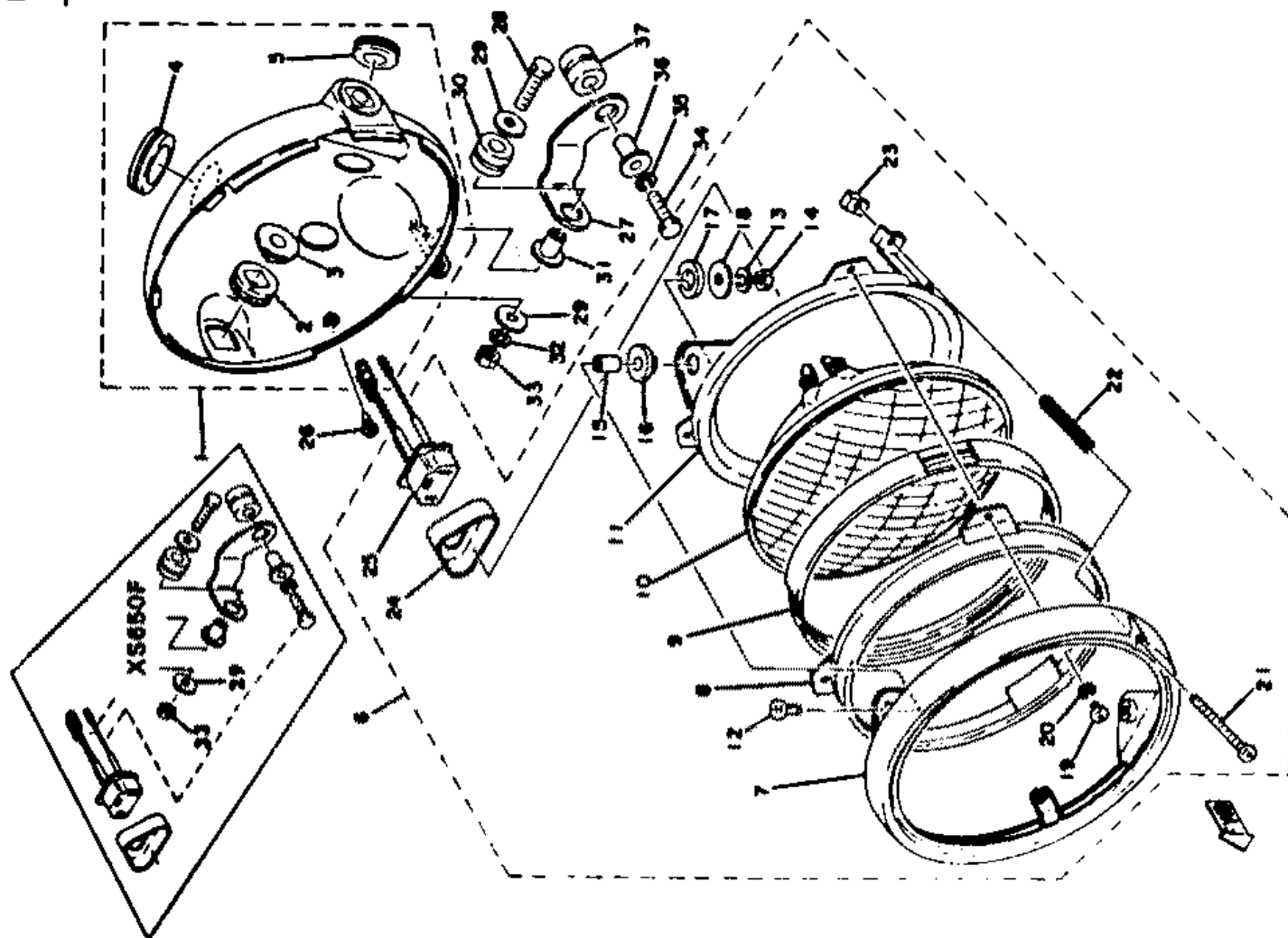
XS650F

Tire Size (Nominal Pressure)

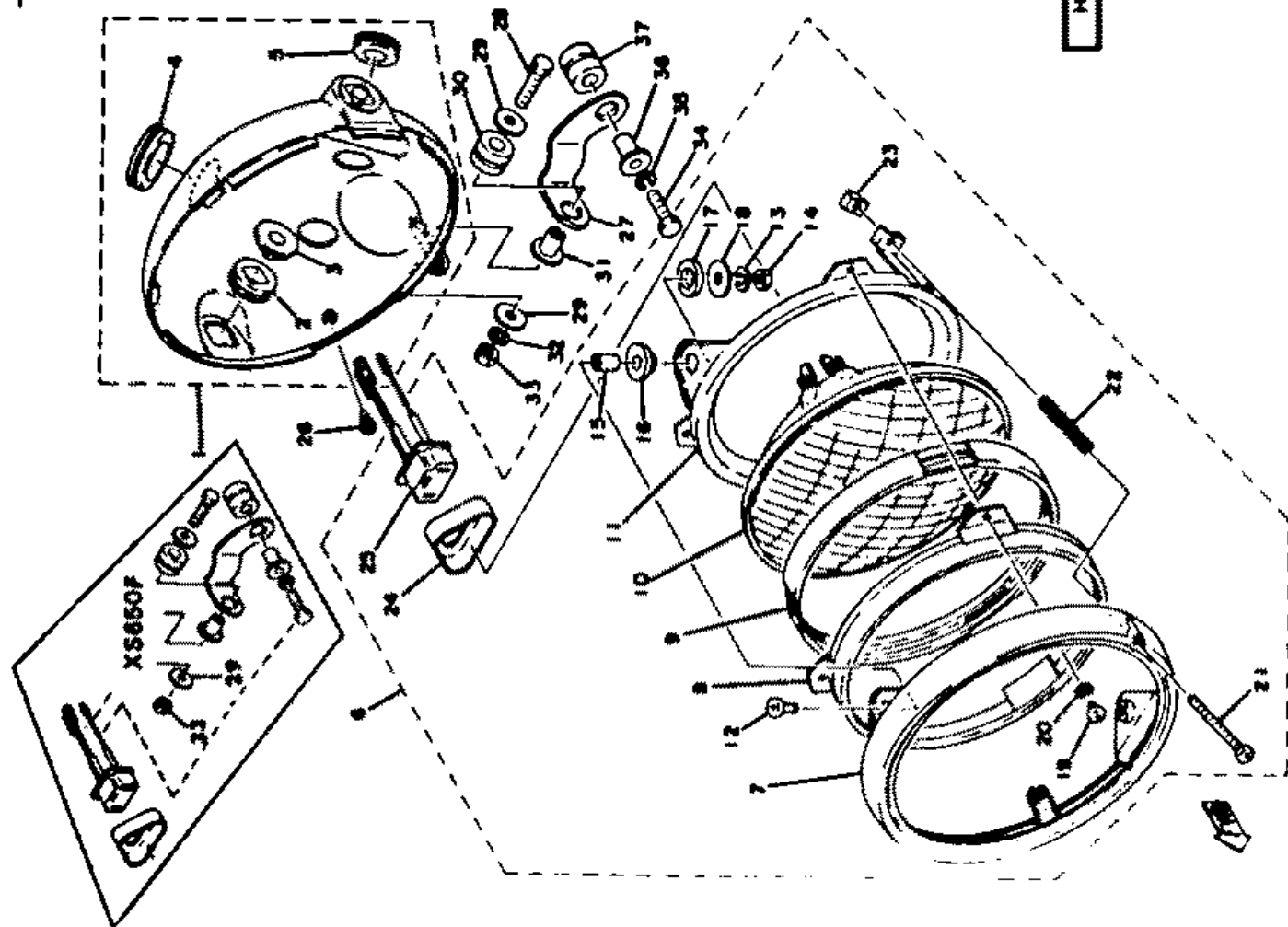
F: 3.50H/311.5 kg/cm²/72 psi/R: 4.00H/172.0 kg/cm²



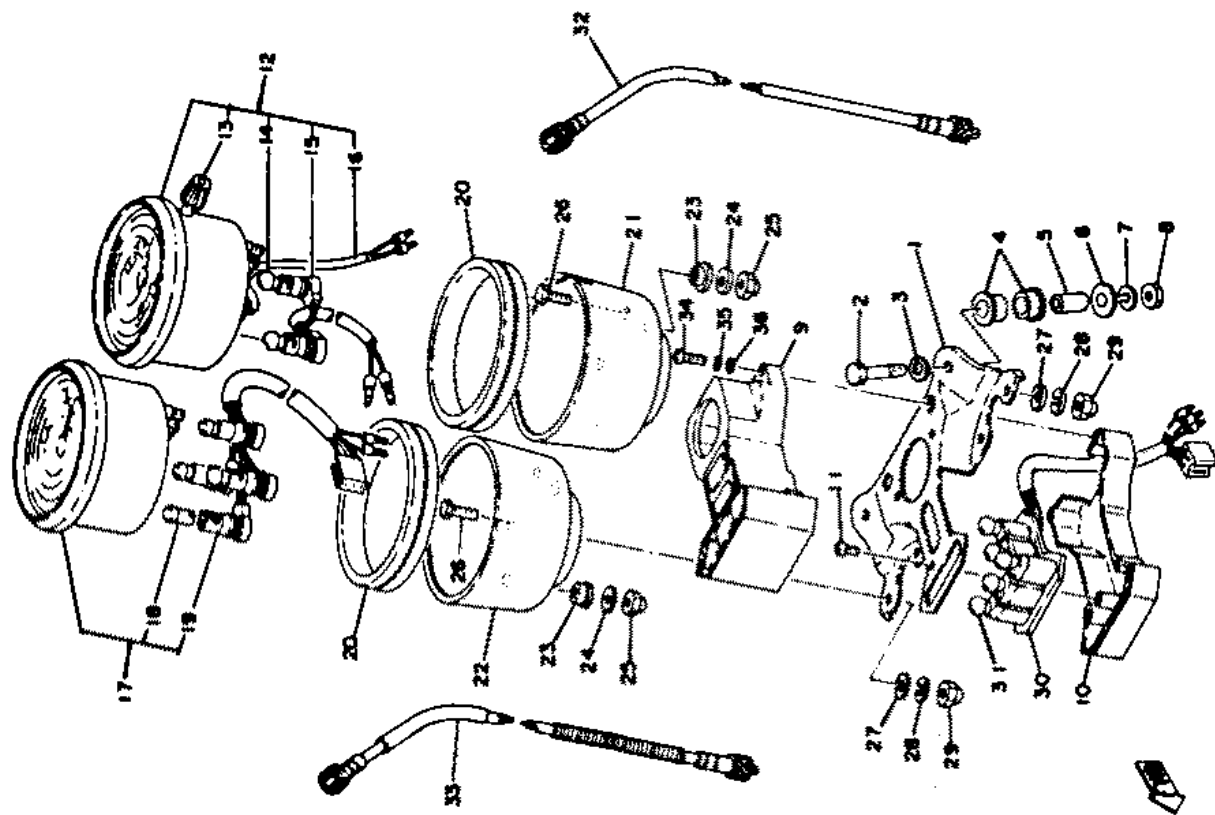
Ref. No.	Part Number	Description	DEF
1	584-84330-82-33	BODY ASS'Y (584-84330-61-33)	1 1 1
2	584-84345-60-00	BUSHING	2 2 2
3	584-84338-60-00	COLLAR	2 2 2
4	214-84153-60-00	GROMMET	1 1
5	214-84153-60-00	GROMMET	3
6	150-84153-00-00	GROMMET	2 2 2
		HEAD LAMP UNIT ASS'Y	
7	341-84315-40-00	RIM, head lamp	1 1 1
8	447-84395-60-00	RING, retaining (447-84395-61)	1 1 1
9	447-84322-60-00	GASKET, lens (447-84322-61)	1 1 1
10	341-84320-60-00	LENS ASS'Y (12V-50/40W)	1 1 1
11	584-84394-61-00	RING, mounting (584-84394-60)	1 1 1
12	584-84398-60-00	SCREW, mounting ring	2 2 2
13	92903-05100-00	WASHER, spring	2 2 2
14	95301-05600-00	NUT, hexagon	2 2 2
15	584-84392-60-00	COLLAR	2 2 2
16	584-84393-60-00	DAMPER A	2 2 2
17	584-84399-60-00	DAMPER B	1 1 1
18	90201-05032-00	WASHER, plain (584-84344-00)	2 2 2
19	98501-04008-00	SCREW, pan head	3 3 3
20	92901-04100-00	WASHER, spring	3 3 3



21	447-84331-61-00	SCREW, adjusting	1	1	1
22	447-84332-60-00	SPRING, compression (447-84332-61)	1	1	1
23	198-84334-60-00	NUT, adjusting	1	1	1
24	341-84397-61-00	COVER, socket	1	1	1
25	371-84312-60-00	CORD, head lamp	1	1	1
26	90152-05005-00	SCREW, rim fitting	2	2	2
27	173-84318-00-00	STAY, head lamp	1	1	1
28	97313-06030-00	BOLT, hexagon (97323-06030)	1	1	1
29	90201-06067-00	WASHER, plate (90201-06380)	2	2	2
30	90480-14102-00	GROMMET (214-21717-00)	1	1	1
31	90387-06388-00	COLLAR (322-21544-00)	1	1	1
32	92903-06100-00	WASHER, spring	1	1	1
33	95301-06600-00	NUT, hexagon	1	1	1
34	97313-06025-00	BOLT, hexagon (97323-06025)	1	1	1
35	92903-06100-00	WASHER, spring	1	1	1
36	90387-07549-00	COLLAR	1	1	1
37	90480-14244-00	GROMMET (447-84390-00)	1	1	1

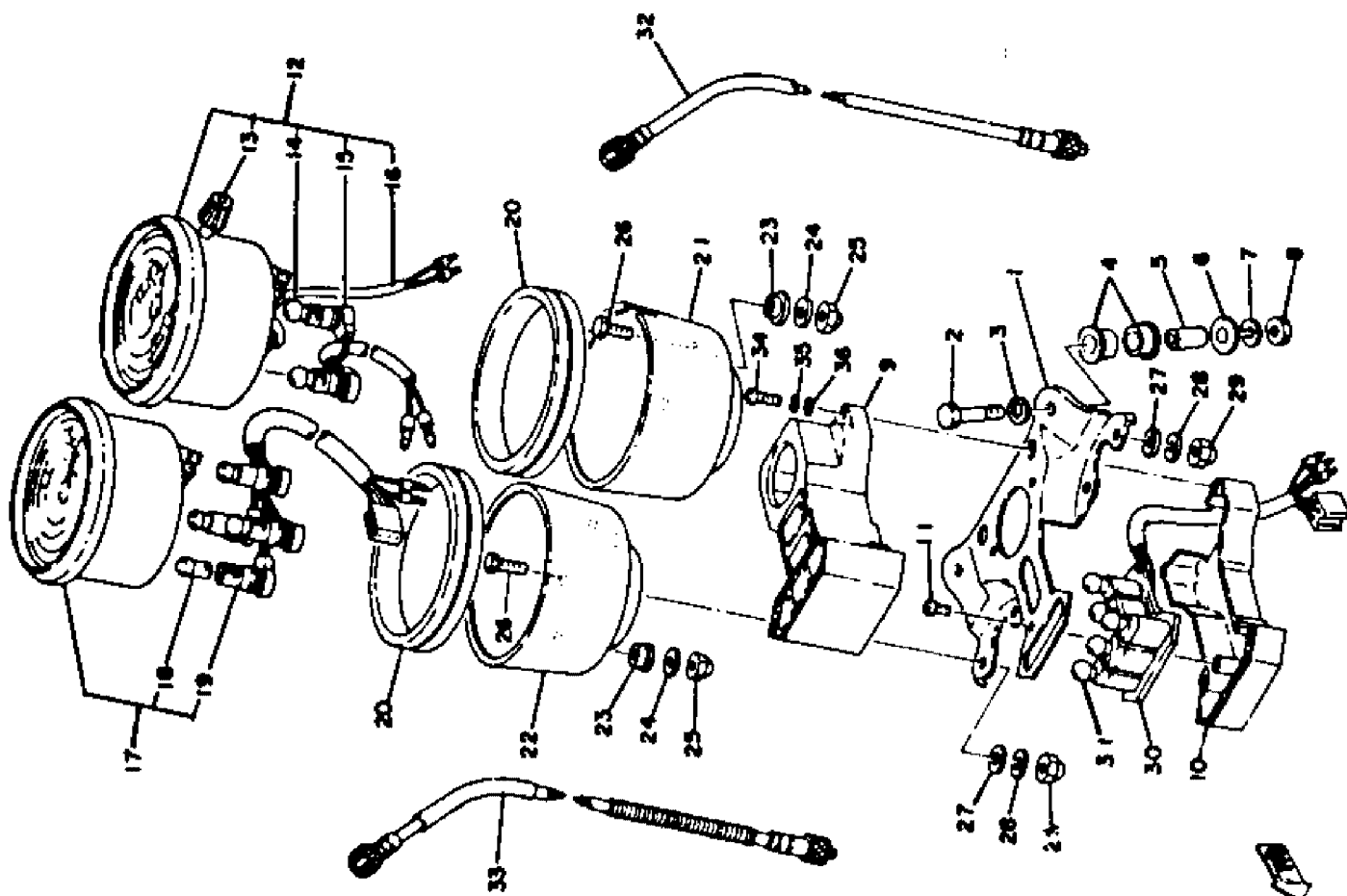


Ref. No.	Part Number	Description	DEF
1	1J3-83519-00-00	BRACKET, meter.....	1 1 1
2	97308-06040-00	BOLT, hexagon.....	2 2 2
3	92906-06600-00	WASHER, plate.....	2 2 2
4	584-83541-00-00	DAMPER, meter.....	4 4 4
5	90387-06249-00	COLLAR (6.5-10.5-26).....	2 2 2
6	90201-06067-00	WASHER, plate [90201-06380].....	2 2 2
7	92903-06100-00	WASHER, spring.....	2 2 2
8	95301-06600-00	NUT, hexagon.....	2 2 2
9	1T3-83568-00-00	PILOT BOX, upper.....	1 1 1
10	1J3-83569-71-00	PILOT BOX, under.....	1 1 1
11	98501-05010-00	SCREW, pan head.....	1 1 1
12	1J3-83570-71-00	SPEEDOMETER ASS'Y.....	1 1
	2J2-83570-A0-00	SPEEDOMETER ASS'Y.....	1
13	584-83578-71-00	KNOB, trip meter.....	1 1 1
14	123-83516-21-00	BULB (12V-3.4W).....	2 2 2
15	584-83538-01-00	SOCKET CORD ASS'Y 1.....	1 1
	2J2-83538-00-00	SOCKET CORD ASS'Y 1.....	1
16	1J3-83558-01-00	SOCKET CORD ASS'Y 4.....	1 1
	2J2-83558-00-00	SOCKET CORD ASS'Y 4.....	1
17	1T3-83540-00-00	TACHOMETER ASS'Y.....	1 1
	1J7-83540-00-00	TACHOMETER ASS'Y.....	1 1
	2F0-83540-00-00	TACHOMETER ASS'Y.....	1
18	123-83516-21-00	BULB (12V-3.4W).....	4 3
	123-83516-21-00	BULB (12V-3.4W).....	3 3
19	1T3-83520-00-00	SOCKET CORD ASS'Y 3.....	1
	1J3-83520-01-00	SOCKET CORD ASS'Y 3.....	1 1 1

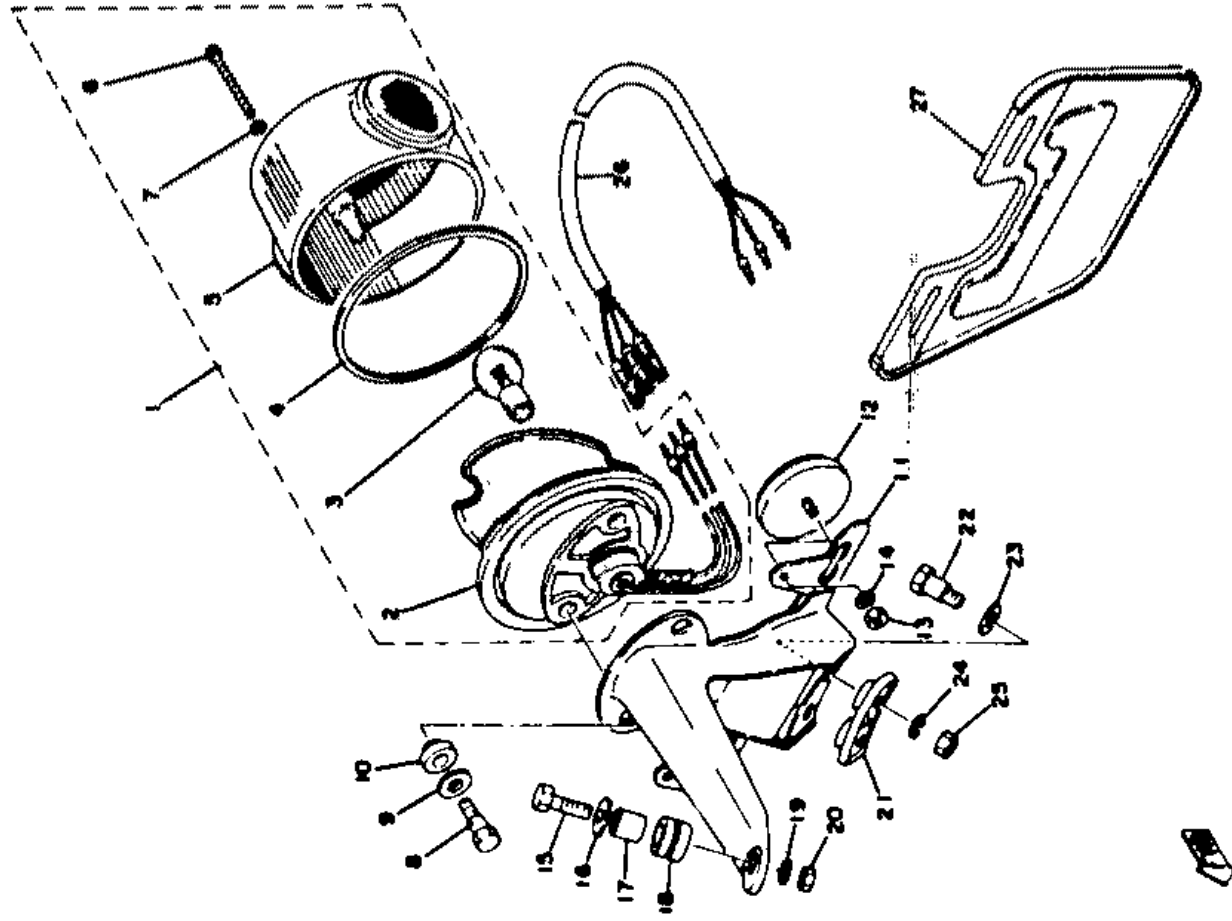


Ref. No.	Part Number	Description	QTY
20	3H3-83513-00-00	DAMPER, meter (584-83513-01)	2 2 2
21	584-83507-00-00	COVER, speedometer	1 1 1
22	584-83508-00-00	COVER, tachometer	1 1 1
23	584-83523-00-00	DAMPER	4 4 4
24	90201-05031-00	WASHER, plate	4 4 4
25	95301-05800-00	NUT, crown	4 4 4
26	584-83546-00-00	BOLT	4 4 4
27	92903-06200-00	WASHER, plain	4 4 4
28	92903-06100-00	WASHER, spring	4 4 4
29	95301-06800-00	NUT, crown	4 4 4
30	1T3-83509-00-00	SOCKET CORD ASS'Y 2	1 1 1
31	123-83516-21-00	BULB (12V-3.4W)	4 4 4
32	341-83550-01-00	SPEEDOMETER CABLE ASS'Y (341-83550-00)	1 1 1
33	447-83560-01-00	TACHOMETER CABLE ASS'Y (447-83560-00)	1 1 1
34	98506-04020-00	SCREW, pan head	4 4 4
35	92906-04100-00	WASHER, spring	4 4 4
36	92906-04600-00	WASHER, plate	4 4 4

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

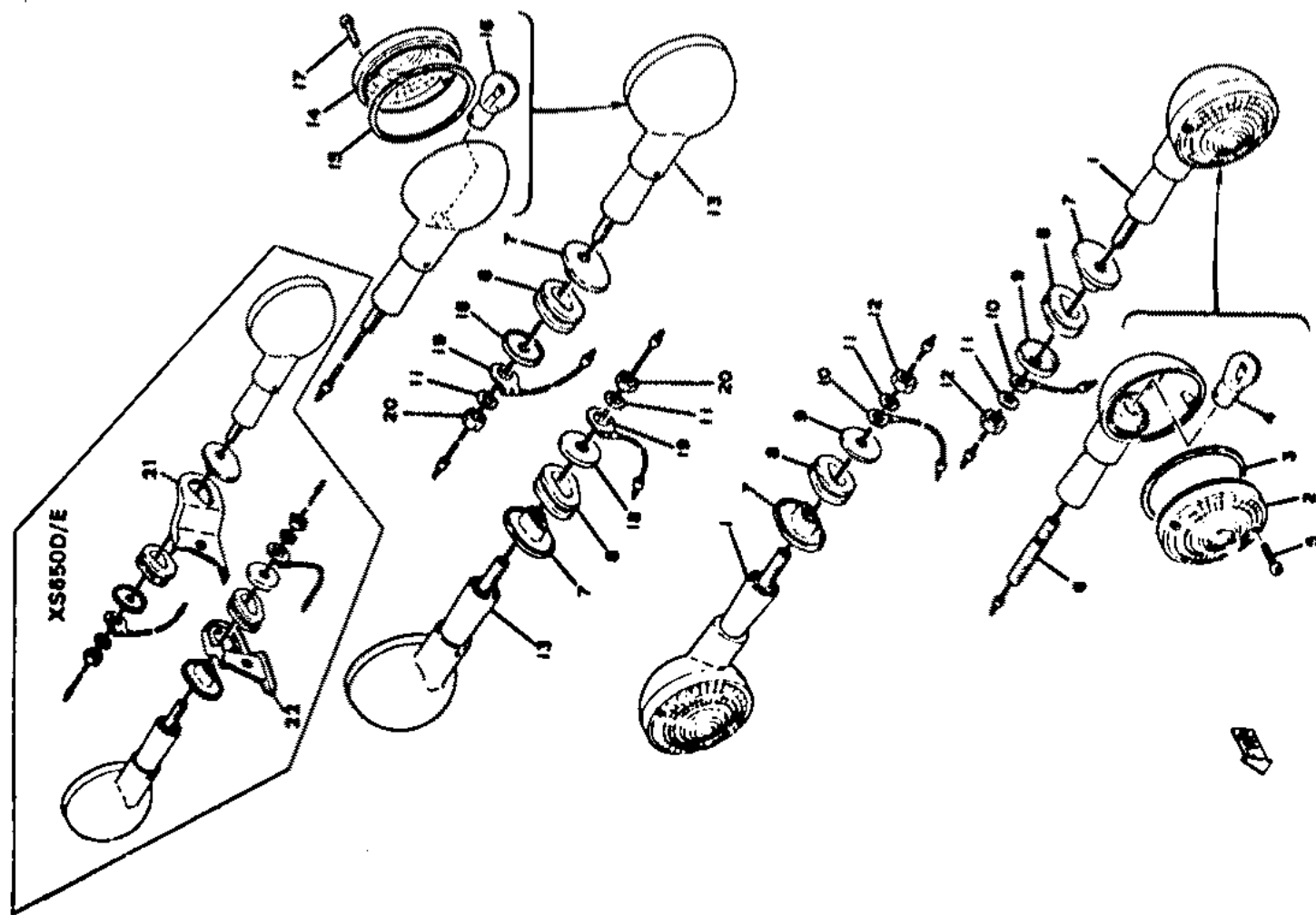


1	371-84710-61-00	TAIL LAMP UNIT ASS'Y	1	1	1
2	371-84711-61-00	BASE, tail lamp	1	1	1
3	256-84714-61-00	BULB, tail lamp (12V-32/3CP)	1	1	1
4	275-84523-60-00	GASKET, tail lamp	1	1	1
5	341-84721-60-00	LENS, tail lamp	1	1	1
6	341-84724-60-00	SCREW, lens fitting	3	3	3
7	341-84722-60-00	GASKET, screw	3	3	3
8	479-84526-00-00	SCREW	2	2	2
9	2H7-84754-00-00	WASHER, special (437-84525-60)	2	2	2
10	275-84527-60-00	DAMPER	2	2	2
11	341-84751-61-93	BRACKET, license	1	1	1
12	341-85111-60-00	REFLECTOR	2	2	2
13	95303-05600-00	NUT, hexagon	2	2	2
	95301-05600-00	NUT, hexagon (95303-05600)	2	2	2
14	92903-05100-00	WASHER, spring	2	2	2
15	97303-06025-00	BOLT, hexagon	1	1	1
16	90209-06095-00	WASHER (102-28323-00)	1	1	1
17	90387-07390-00	COLLAR (7-10-11.5)	1	1	1
18	90480-14102-00	GROMMET (214-21717-00)	1	1	1
19	92903-06100-00	WASHER, spring	1	1	1
20	95301-06600-00	NUT, hexagon	1	1	1
21	214-84553-01-00	DAMPER	1	1	1
22	90109-06017-00	BOLT (168-21738-00)	2	2	2
23	92903-08200-00	WASHER, plain	2	2	2
24	92903-06100-00	WASHER, spring	2	2	2
25	95301-06600-00	NUT, hexagon	2	2	2
26	438-84517-00-00	CORD, tail lamp	1	1	1
27	447-28189-00-00	PLATE, number support	1	1	1



DEF

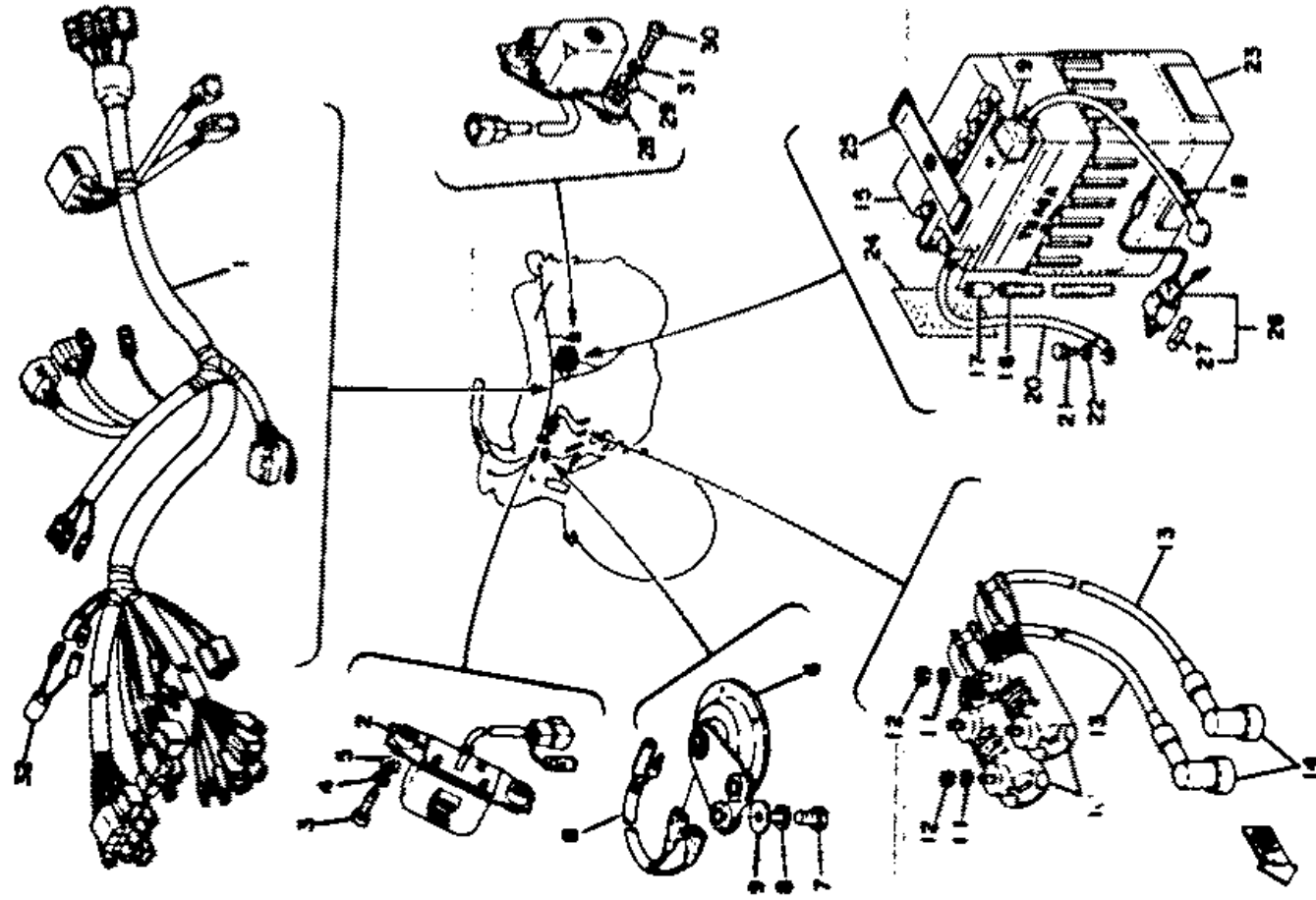
Ref. No.	Part Number	Description	DEF
1	341-83310-72-93	FRONT FLASHER LAMP ASS'Y	2 2 2
2	341-83312-70-00	LENS, flasher	2 2 2
3	341-83313-70-00	GASKET, lens	2 2 2
4	256-83311-70-00	BULB, flasher (12V-32CP)	2 2 2
5	341-83333-70-00	SCREW, lens fitting	4 4 4
6	341-83367-09-00	BOLT, stud	2 2 2
7	366-83316-00-00	COLLAR, flasher	4 4 4
8	256-83321-00-00	DAMPER, flasher	4 4 4
9	90209-08098-00	WASHER, special (341-83348-00)	2 2 2
10	371-82519-00-00	WIRE, earth lead	2 2 2
11	92903-08100-00	WASHER, spring	4 4 4
12	95301-08700-00	NUT, hexagon	2 2 2
13	366-83340-71-93	REAR FLASHER LAMP ASS'Y	2
	1E5-83330-20-93	REAR FLASHER LAMP ASS'Y	2 2
14	341-83332-70-00	LENS, flasher (650D)	2
	341-83312-70-00	LENS, flasher	2 2 2
15	341-83313-70-00	GASKET, lens	2 2 2
16	256-83311-70-00	BULB (12V-32CP)	2 2 2
17	341-83333-70-00	SCREW, lens fitting	4 4 4
18	90209-08028-00	WASHER, special (275-83359-00)	2 2 2
19	447-83336-01-00	CORD, flasher	2 2 2
20	95301-08600-00	NUT, hexagon	2 2 2
21	447-83368-00-00	STAY, flasher 3	1 1
22	447-83369-00-00	STAY, flasher 4	1 1



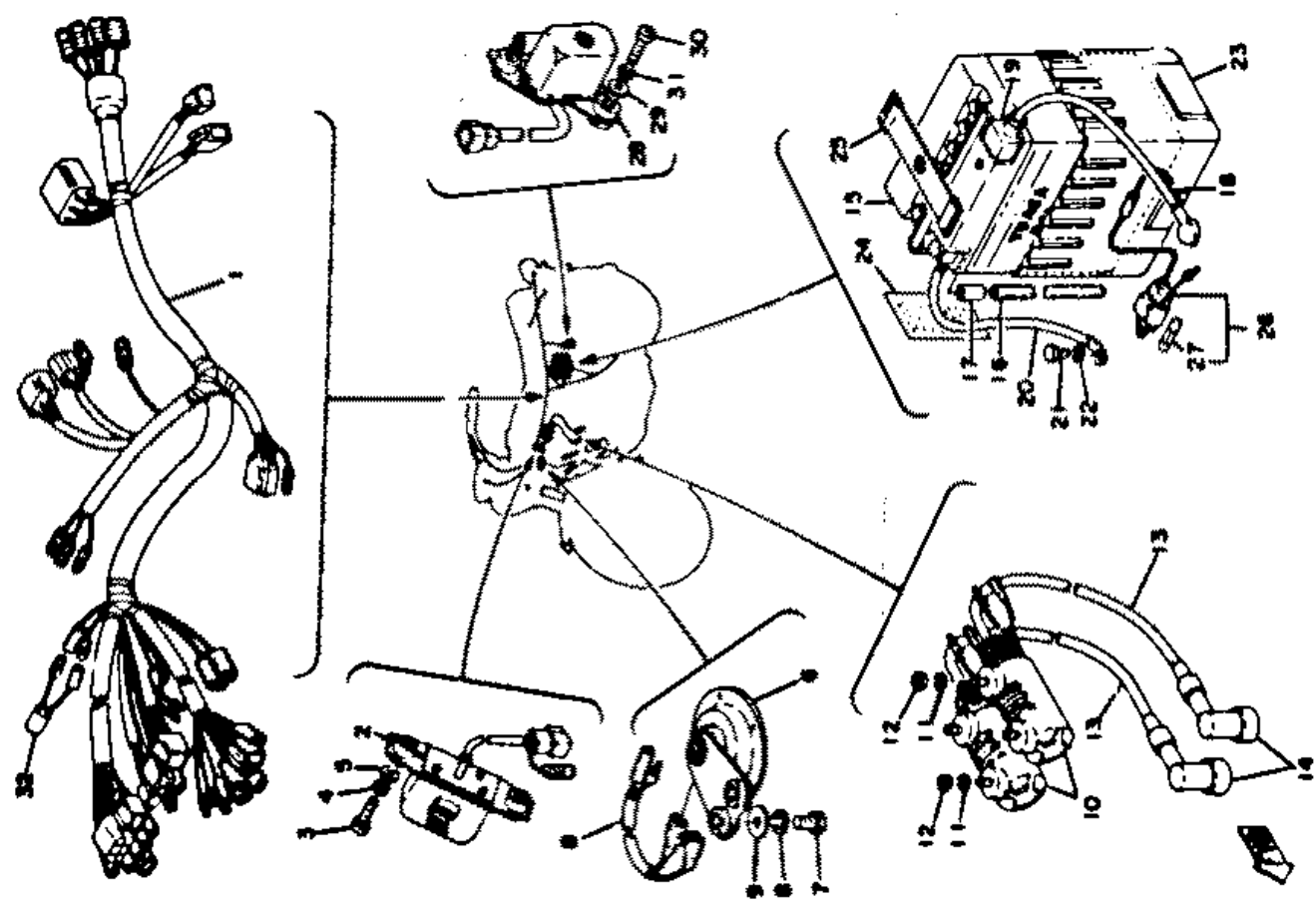
Headlight / Taillight / Signal Rating

12V50-40W / 12V27-8W / 12V27W

1	1T3-82590-60-00	WIRE HARNESS ASS'Y.....	1
	1T3-82590-61-00	WIRE HARNESS ASS'Y.....	1
	2F0-82590-51-00	WIRE HARNESS ASS'Y.....	1
	2F0-82590-52-00	WIRE HARNESS ASS'Y.....	1
2	447-81950-10-00	RELAY ASS'Y.....	1
	447-81950-50-00	RELAY ASS'Y.....	1
	2F0-81950-50-00	RELAY ASS'Y.....	1
3	92501-06025-00	SCREW, pan head.....	2 2 2
4	92903-06100-00	WASHER, spring.....	2 2 2
5	90201-06052-00	WASHER, plate (136-22316-00)	2 2 2
6	366-83371-52-00	HORN.....	1 1 1
7	97301-08025-00	BOLT, hexagon.....	2 2 2
8	92903-08100-00	WASHER, spring.....	2 2 2
9	90201-08107-00	WASHER, plate (137-24186-00)	2 2 2
10	254-82310-60-00	IGNITION COIL ASS'Y.....	2 2 2
11	92903-06100-00	WASHER, spring.....	4 4 4
12	95301-06600-00	NUT, hexagon.....	4 4 4
13	447-82341-00-00	CORD, high tension.....	2 2 2
14	256-82370-00-00	PLUG CAP ASS'Y.....	2 2
	512-82370-10-00	PLUG CAP ASS'Y (Heavy Duty)	2
15	447-82110-79-00	BATTERY ASS'Y (YB14L-A2) (447-82110-81).....	1 1 1



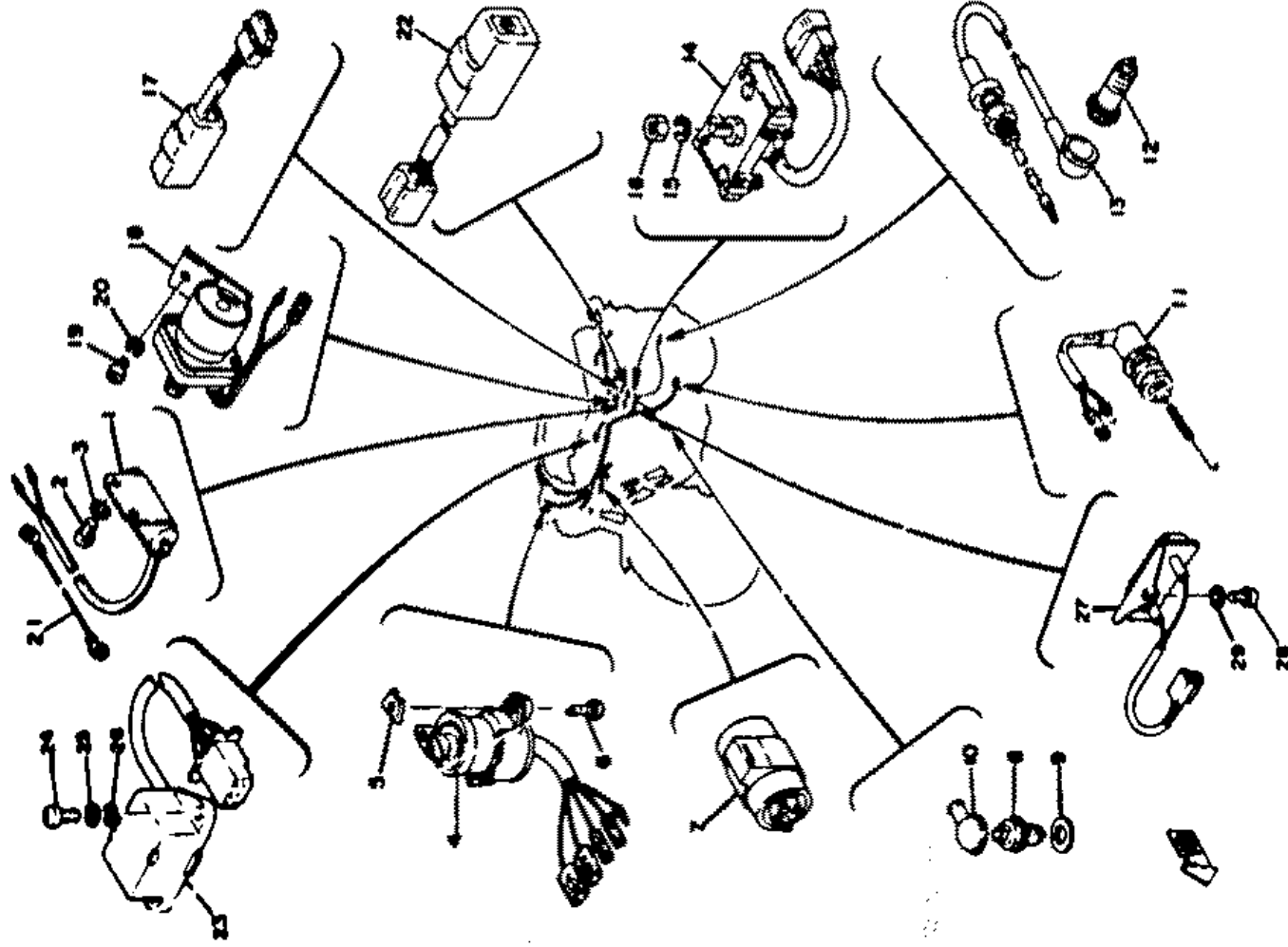
16	90445-08048-00	HOSE (341-82112-00)	1	1	1
17	90386-07043-00	COLLAR (7.6-9.5-20).....	1	1	1
18	447-82115-01-00	WIRE, plus lead.....	1	1	1
19	447-82119-00-00	COVER, lead wire.....	1	1	1
20	447-82116-00-00	WIRE, minus lead.....	1	1	1
21	97301-06012-00	WIRE, minus lead.....	1	1	1
22	97301-06012-00	BOLT, hexagon.....	1	1	1
23	92903-06100-00	WASHER, spring.....	1	1	1
24	447-82122-00-00	SEAT, battery.....	1	1	1
25	LIT-82141-09-00	LABEL, battery (118-82141-09)	1	1	1
26	120-82131-00-00	BAND, battery.....	1	1	1
27	1E2-82150-00-00	FUSE HOLDER ASS'Y	1	1	1
28	1A0-82161-00-00	FUSE (12V-20A) (148-82151-00)	2	2	2
29	447-81910-10-00	VOLTAGE REGULATOR ASS'Y	1	1	1
30	90201-06052-00	WASHER, plate (136-22316-00)	2	2	2
31	92501-06025-00	SCREW, pan head.....	2	2	2
32	92903-06100-00	SCREW, pan head.....	2	2	2
33	341-81980-30-00	DIODE ASS'Y (341-81980-01)...	1	1	1



Ref. No.	Part Number	Description	DEF
1	258-81625-10-00	CONDENSER.....	1
2	92501-06008-00	SCREW, pan head.....	2
3	92903-06100-00	WASHER, spring.....	2
4	584-82508-40-00	MAIN SWITCH ASS'Y.....	1
5	533-82517-00-00	WASHER, special.....	2
6	98503-05015-00	SCREW, pan head.....	2
7	1A0-83350-70-00	FLASHER RELAY ASS'Y.....	1
8	168-82540-00-00	NEUTRAL SWITCH ASS'Y.....	1
9	90430-11034-00	GASKET (136-82543-00).....	1
10	168-82542-10-00	CAP.....	1

XS650D

11	533-82530-00-00	STOP SWITCH ASS'Y.....	1
12	341-82503-01-00	SWITCH, alarm.....	1
13	447-82531-00-00	WIRE, lead.....	1
14	447-81970-10-00	RECTIFIER ASS'Y.....	1
15	92903-08100-00	WASHER, spring.....	1
16	95301-08700-00	NUT, hexagon.....	1
17	371-84708-02-00	CHECKER, lamp.....	1
18	447-81940-10-00	STARTER SWITCH ASS'Y.....	1
19	92503-06015-00	SCREW, pan head.....	1
20	92903-06100-00	WASHER, spring.....	1



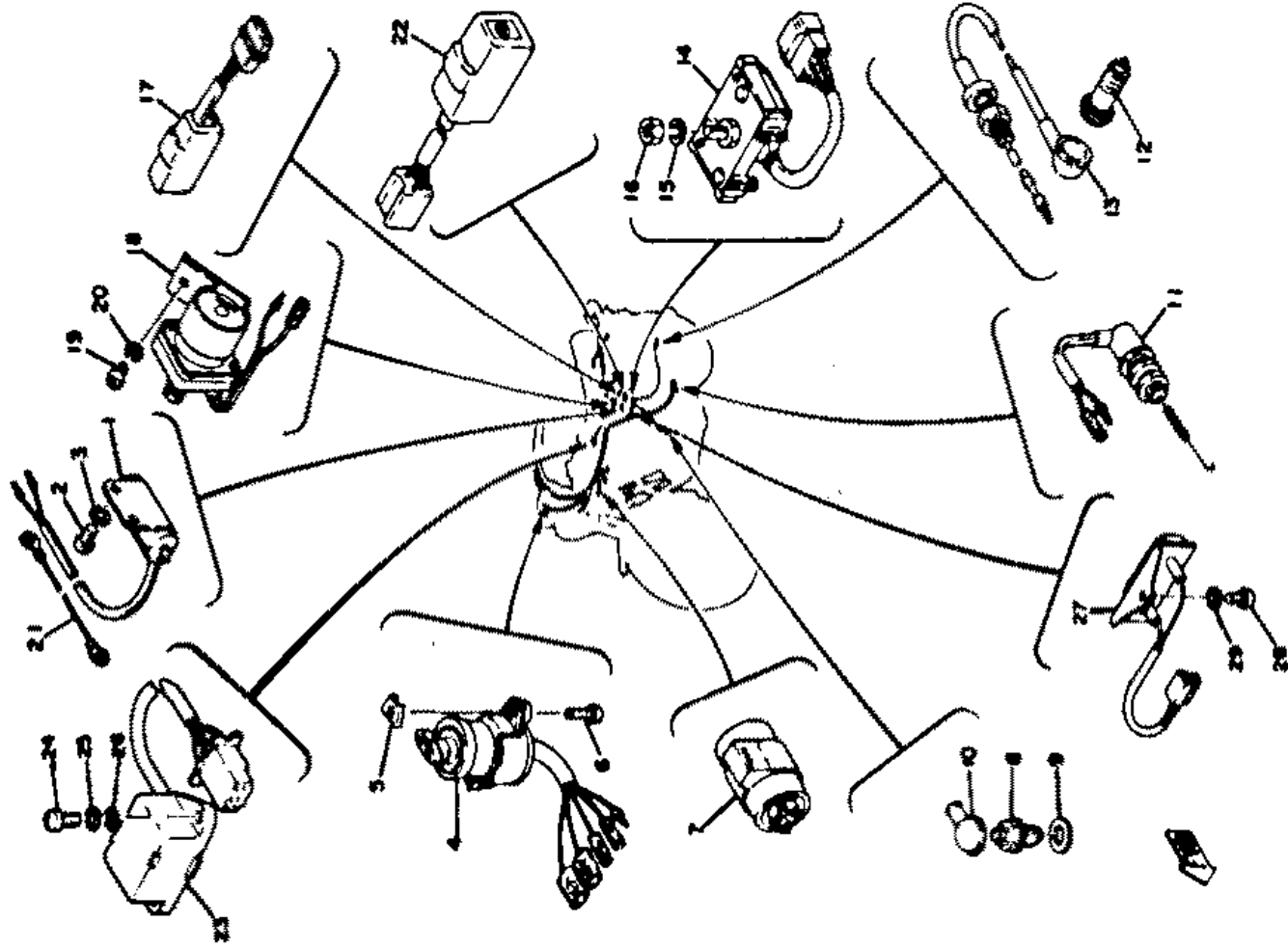
XS650D

21	256-81615-00-00	WIRE, lead..... 1
22	1A0-83395-03-00	FLASHER CANCELLING UNIT (1A0-83395-01)..... 1
23	1J7-84308-00-00	RESERVE LIGHTING UNIT ASS'Y 1
24	92503-06018-00	SCREW, pan head..... 2

XS650D

25	92903-06100-00	WASHER, spring..... 2
26	92901-06600-00	WASHER, plate..... 2
27	1J7-81911-01-00	RESISTOR..... 1
28	97301-06012-00	BOLT..... 1
29	92903-06100-00	WASHER, spring..... 1

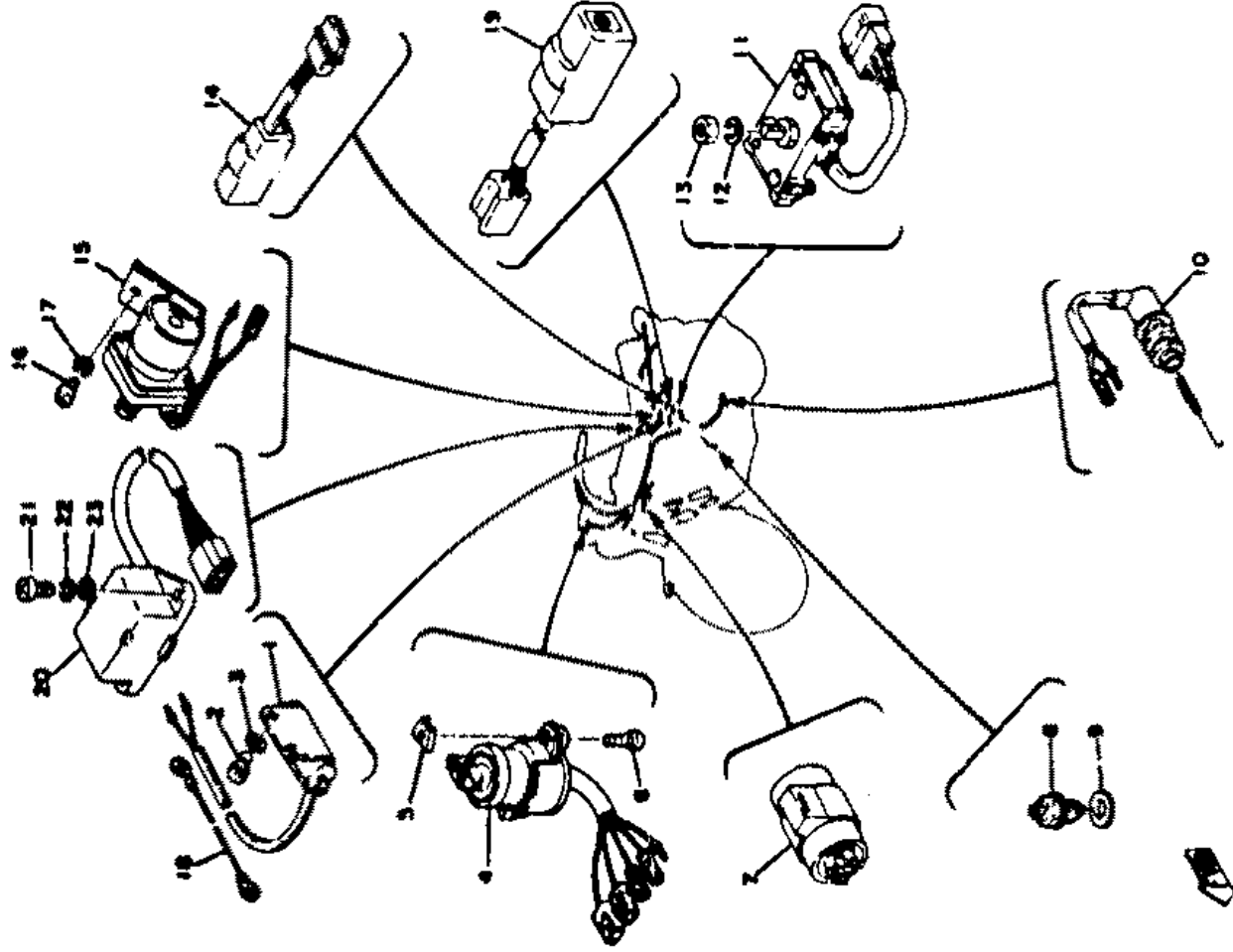
XS650I



Ref. No.	Part Number	Description	DEF
1	258-81325-10-00	CONDENSER.....	1 1
2	92501-06008-00	SCREW, pan head.....	2 2
3	92903-06100-00	WASHER, spring.....	2 2
4	2F0-82508-50-00	MAIN SWITCH ASS'Y.....	1 1
5	533-82517-00-00	WASHER, special.....	2 2
6	98501-05016-00	SCREW, pan head.....	2 2
7	2F0-83350-70-00	FLASHER RELAY ASS'Y.....	1 1
8	138-82540-01-00	NEUTRAL SWITCH ASS'Y.....	1 1
9	90430-11034-00	GASKET (136-82543-00).....	1 1
10	533-82530-00-00	STOP SWITCH ASS'Y.....	1 1
11	447-81970-10-00	RECTIFIER ASS'Y.....	1 1

XS650E/E006501~

12	92903-08100-00	WASHER, spring.....	1 1
13	95301-08700-00	NUT, hexagon.....	1 1
14	371-84708-02-00	CHECKER, lamp.....	1 1
15	447-81940-10-00	STARTER SWITCH ASS'Y.....	1 1
16	92503-06015-00	SCREW, pan head.....	1 1
17	92903-06100-00	WASHER, spring.....	1 1
18	258-81615-00-00	WIRE, lead.....	1 1
19	1A0-83395-03-00	FLASHER CANCELLING UNIT (1A0-83395-02).....	1 1
20	1T3-84308-00-00	RESERVE LIGHTING UNIT ASS'Y.....	1 1
21	92503-06018-00	SCREW, pan head.....	2 2
22	92903-06100-00	WASHER, spring.....	2 2
23	92901-06600-00	WASHER, plate.....	2 2



XS650E/E006501~F

SEE GRIDS J1, J2 FOR SERVICE DATA.

1977 SERVICE DATA

MODEL - I&M I.D. NUMBER	XS650D	113
Starting Engine and Frame Number	447-700101	
Basic Color (fuel tank)	Max. Maroon, Bountiful Blue	
Net Weight	467 lbs.	
ENGINE (type, induction system)	4-stroke, Twin, O.H.C., Air-cooled	
Bore x Stroke x Cylinder(s) Displacement	75 x 74mm x 2	653cc (39.85 CID)
Compression Ratio (pressure)	8.4:1	
Piston Skirt Clearance (new/max.)	.050 ~ .055mm (.0020 ~ .0022") / 0.1mm (.004")	
Ring End Gap (top/2nd/3rd)	0.2 ~ 0.4mm (.008 ~ .016") / Same / ϕ	
Ring Groove Clearance (top/2nd/3rd)	.04 ~ .08mm (.0016 ~ .0032") / .03 ~ .07mm / ϕ	
Valve Clearance (eng. cold) Intake/Exhaust	IN .05mm (.002") / EX .015mm (.005")	
AUTOLUBE - Minimum Pump Stroke/Color Code	ϕ	
CARBURETOR (mfr.) (type) (I.D. number)	Mikuni / BS38 / 58400	
Main Jet	No. 122.5 / M.A.J. 10	
Needle Jet	Z-8	
Jet Needle/Clip Position	4M1-3	
Cutaway	No. 120	
Pilot Jet	No. 25	
Air Jet	(1.0) (1.4)	
Starter Jet	No. 1: No. 80 / No. 2: 0.5	
Air Screw (turns out) (idle speed)	1 1/4 $\pm$ 1/4 (mixture screw - with cap removed)	
Float Level	25.0 $\pm$ 1.0mm	
Air Filter (type & quantity)	Dry Foam Rubber x 2	1 200rpm
DRIVE - Primary (type) (teeth) (ratio)	Spur Gear	72/27 2.667
Secondary (type) (teeth) (ratio)	DK530HDS, 103L	34/17 2.000
Transmission Ratios 1st (teeth) (ratio) (O.A.)	32/13	2.461 11.0/9
2nd	27/17	1.588 8.4/7
3rd	26/20	1.300 6.9/3
4th	23/21	1.095 5.8/1
5th	22/23	0.956 5.1/1
6th	ϕ	
CAPACITIES - Transmission	(See Engine Oil) Yamalube 4-cycle* SAE20W40	
Oil Tank or Engine Sump	Change=2,000cc Total=2,500cc	
Fuel Tank	4.0 gals. Low Lead (Regular) or Unleaded	
Front Forks	168cc (5.7 oz.) 20wt. Fork Oil*	
Rear Shocks	ϕ	
Tires (size normal pressure)	Front: 3.50H-19/23psi Rear: 4.00H-18/28psi	
ELECTRICAL - Charging System (mfr.) (type)	Hitachi / Regulated A.C. Generator	
No. Load Voltage Adj. (AC & DC generators)	14.5 $\pm$ 0.5V @ 3,000rpm	
Max. Generator (Magnetic) Output	14V 11A @ 2,000rpm	
Field Coil (and/or) Charging Coil Resistance	N/A	
Battery (mfr.) (model) (rating) (charge rate)	YUASA / YB14L-A2 12V 14AH / 1.4A x 10 hrs	
Headlight/Taillight Ratings	12V50W/40W / 12V8W	
Ign. Coil Min. Spark Gap/1 st Res./Sec. Res.	7mm @ 1,000rpm 3.9 Ω 8.0K Ω	
Source Coil Res./Pulse Coil Res.	ϕ	
Condenser Capacity	0.22 μ F	
Point Gap/Spark Plug (type/gap)	0.35mm (.014") NGK BP7ES / 0.6 ~ 0.7mm	
Timing (advanced) (retarded)	(41.5° @ 3,300rpm) (13 ~ 17° @ 1,200rpm)	

XS650E 1978 SERVICE DATA

M7-C42

MODEL - IBM I.D. NUMBER	XS650EB / XS650EG - 2F0
Initial Engine Number/Frame Number	2F0-000101 / 2F0-000101
Basic Color(s)	Star Black or Spruce Green Metallic
ENGINE TYPE	4-stroke, air-cooled, SOHC
Bore/Stroke/Number Cylinders/Displacement (cc)	75mm / 74mm / 2 / 653cc
Compression Ratio/Compression Pressure min. ~ max.	8.5:1 / 128 ~ 156 psi
Piston Skirt Clearance new/max.	.050 ~ .055mm / 0.1mm
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / same / 0.3 ~ 0.9mm
Valve Clearance (cold) Intake/Exhaust	0.10mm / 0.15mm
Oil Pressure hot/rpm	φ
Oil Tank or Engine Sump Capacity	Oil Chg 2000cc / Dry 2500cc
AUTOLUBE - Min. stroke/Color code	φ
Minimum Output @ 200 strokes	φ
Maximum Output @ 200 strokes	φ
CARBURETOR - mfr./type/I.D. number	Mikuni / B53B / 2F0 00
Main Jet/Pilot Jet	135 / 27.5
Needle Jet/Jet Needle-Clip Position	Z-2 / 502-3
Slide Cutaway or Throttle Valve	120
Float Level	24mm ± 1mm
Mixture Screw - turns out/idle rpm	2 1/4 / 1200 ± 50 rpm
SUSPENSION	
Front Forks: Oil type/level/qty	10 wt. Fork Oil / φ / 169cc
Gas Pressure	φ
Spring Length std	482mm
Monoshock: Oil type/qty	φ
Gas Pressure	φ
TRANSMISSION - oil type/qty chg/qty reassemble	SAE20W40 (Yamalube 4*) See ENGINE
Primary drive type	Spur Gear
Secondary type/teeth/chain	Chain / 34-17 / DK530HDS - 104L
Clutch Friction Plate Thickness std ~ min.	3.0mm ~ 2.7mm
Clutch Spring Length std ~ min.	34.6mm std
Tires size (nominal pressure)	Front: 3.50H19 (23psi) Rear: 4.00H18 (28psi)
ELECTRICAL - System/Type	AC Generator / Battery & Coil
Maximum Output	14V11A @ 2000 rpm
Field Coil Color Code/Ω	Rotor: 5.25Ω ± 10% Stator: 0.46Ω ± 10%
Charging Coil Color Code/Ω	φ
Source Coil Color Code/Ω	φ
Lighting Coil Color Code/Ω	φ
Pulse Coil or Pickup Coil Color Code/Ω	φ
Ignition Coil test gap / Primary Ω / Secondary Ω	6mm / 3.9Ω ± 10% / 8KΩ ± 20%
Battery-model/spec. grav./chg rate x hour	Yuasa YB14L (12V14AH) / 1.280 / 1.4A x 10 hr
Headlight/Taillight/Signal Rating	12V 50-40W / 12V 27-8W / 12V 27W
Point Gap/Condenser Capacitance	0.30 ~ 0.40mm / 0.22μF ± 10%
Spark Plug Type	Champion N7Y
Spark Plug Gap/Torque/Cup Ω	0.7 ~ 0.8mm / 2.6kg-m / 16KΩ
Timing Static	15° Mark
Dynamic	STC 15° @ 1200 rpm ADV 4: 5° @ 3500 rpm

XS650F

1979 SERVICE DATA

M8-040

MODEL - IBM I.D. NUMBER	XS650F	2F0
Initial Engine Number/Frame Number	2F0-020101 / 2F0-020101	
Basic Color(s)	Cobalt Blue	
Fuel Type/Fuel Tank Capacity/Reserve Capacity	Regular / 15 Lit (4 Gal.) / 2.5 Lit (0.6 Gal.)	
Dry Vehicle Weight	210 kg (463 lbs.)	
ENGINE TYPE	4 Stroke, SOHC, Air-Cooled	
Bore/Stroke/Number Cylinders/Displacement (cc)	75mm / 74mm / 2 / 654cc	
Compression Ratio/Compression Pressure min ~ max	8.5:1 / 9.5 ~ 11.5 kg/cm ²	
Piston Skirt Clearance new/max	0.050 ~ 0.055mm / 0.1mm	
Ring End Gap top/2nd/3rd	0.2 ~ 0.4mm / 0.2 ~ 0.4mm 0.3 ~ 0.9mm	
Valve Clearance (cold) Intake/Exhaust	0.06mm / 0.15mm	
Oil Pressure hot/rpm	ø	
Oiling System	Wet Sump	
Capacity: Dry	2500cc	
Oil and Filter Change	2000cc	
Oil Change	2000cc	
Lubricant Temp above 5°C (40°F)	Yamalube 4* or SAE 20W40 SE	
Below 15°C (60°F)	Yamalube 4* or SAE 20W40 SE	
AUTOLUBE - Min. Stroke/Color Code	ø	
Minimum Output @ 200 cycles	ø	
Maximum Output @ 200 cycles	ø	
CARBURETOR - Mfr./Type/I.D. Number	Mikuni BS38 / 2F000	
Main Jet/Pilot Jet	135 / 27.5	
Needle Jet/Jet Needle Clip Position	Z-2 / 502-3	
Slide Cutaway or Throttle Valve	120	
Float Level	24 ± 2.5mm	
Idle RPM	1200	
CO % @ Idle (Diagnostic Use Only)	3 ± 2%	
SUSPENSION		
Front Forks Oil Type/Level/Qty	10 wt. Fork Oil* / ø 164 ~ 172cc	
Gas Pressure	ø	
Spring Length Std	482mm	
Monoshock Oil Type/Qty	ø	
Gas Pressure	ø	
Minimum Brake Lining Thickness	Front: 6.0mm Rear: 2.0mm	
Tire Size (Nominal Pressure)	F 3.50H19/1.6 kg/cm ² 22 psi R 4.00H18/2.0 kg/cm ² 28 psi	
TRANSMISSION - Oil Type/Qty Chg/Qty Reassemble	See ENGINE Lubricant	
Primary Drive Type/Teeth/Ratio	Spur Gear / 72/27 / 2.666	
Secondary Drive Type/Teeth/Chain	Chain / 34/17 / DID530HDS 104L	
Clutch Friction Plate Thickness Std ~ min	3.0 ~ 2.7mm	
Clutch Spring Length Std ~ min	34.6 ~ 33.6mm	
Middle Gear Case Capacity	ø	
Final Gear Case Capacity	ø	
Gear Case Lubricant Temp above 5°C (40°F)	ø	
Temp below 15°C (60°F)	ø	
All Weather Conditions	ø	

CHARGING SYSTEM		A.C. Generator / 3 Phase / Full Wave
Battery: Model / Spec. Grav. / Chg. Rate		Yuasa YB14L A2 (12V14AH) / 1.28 / 1.4A
Maximum Output		14V11A @ 2000 rpm
TROUBLESHOOTING		
Field Coil Color Code / Ω		Rotor: Grn~Blk/5.25 Ω ±10% Stator: Wht~Wht/0.46 Ω ±10%
Charge Coil Color Code / Ω		ϕ
IGNITION SYSTEM		Battery and Coil
Ignition Timing		15° Mark
		Std. 15° @ 1200 rpm Adv. 40° @ 3000 rpm
Spark Plug Type		NGK B27ES or Champion N7Y
Spark Plug Gap / Torque / Cap Ω		0.7 ~ 0.8mm / 2.0 n·kg / 10K Ω
Point Gap / Condenser Capacitance		0.3 ~ 0.4mm / 0.22 μ F ± 10%
TROUBLESHOOTING		
Ignition Coil Test Gap / Primary Ω / Secondary Ω		6.0mm / 3.9 Ω ± 10% / 8.0K Ω ± 20%
Pulse Coil or Pick-up Coil Color Code / Ω		ϕ
Source Coil Color Code / Ω		ϕ
LIGHTING SYSTEM		
Headlight / Taillight / Signal Rating		12V50/40W / 12V27/8W / 12V27W
TROUBLESHOOTING		
Lighting Coil Color Code / Ω		ϕ
TORQUE VALUES		
Front Axle Nut		14 x 1.5 10.7 m·kg
Front Axle Holder Nut		8 x 1.25 2.0 m·kg
Rear Axle Nut		18 x 1.5 15.0 m·kg
Rear Axle Pinch Bolt		ϕ
Clutch Nut		18 x 1.0 8.0 m·kg
Drain Plug		30 x 1.5 4.2 m·kg
Cylinder Head Cover		ϕ
Cylinder Head		6 x 1.0 0.9 m·kg 8 x 1.25 2.1 m·kg Cap Nut 10 x 1.25 3.7 m·kg
Engine Mounting Bolts	Engine, Upper	8 x 1.25 1.8 m·kg 10 x 1.25 3.0 m·kg
	Engine, Front	10 x 1.25 4.6 m·kg
	Engine, Rear	10 x 1.25 4.0 m·kg
	Rear, Lower	10 x 1.25 4.6 m·kg
	Engine, Lower	10 x 1.25 4.6 m·kg

ϕ Does Not Apply to This Model

* Available From Yamaha Parts Distributors, Inc.

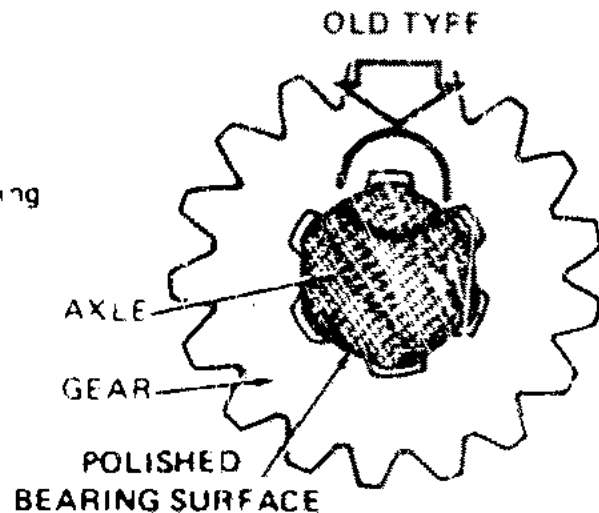
XS650D, XS750D, XS750 2D**CHANGES TO SPLINING OF TRANSMISSION GEARS AND AXLES**

For quieter operation, changes have been made to the splines of both transmission gears and shafts of the following affected machines. The new parts are not interchangeable with early production parts. Part identification information follows. Notify parts and service personnel of these changes.

AFFECTED MACHINES

The new parts are standard on the following machines.

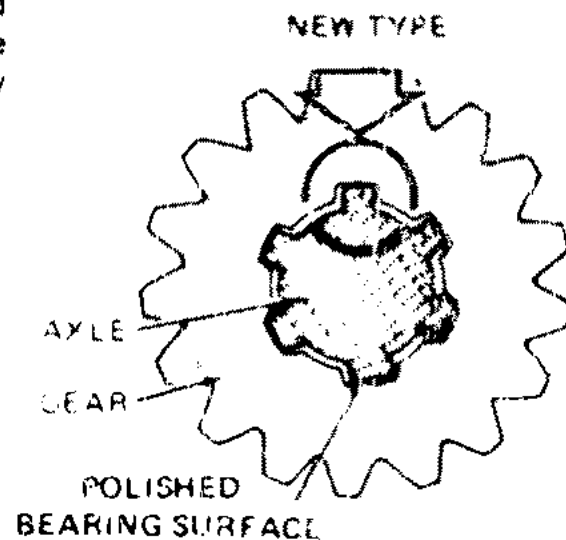
XS650D	E/N	1T3 721262~
XS750D	E/N	1J7 012361~
XS750 2D	E/N	1J7 104561~

**INTERCHANGEABILITY**

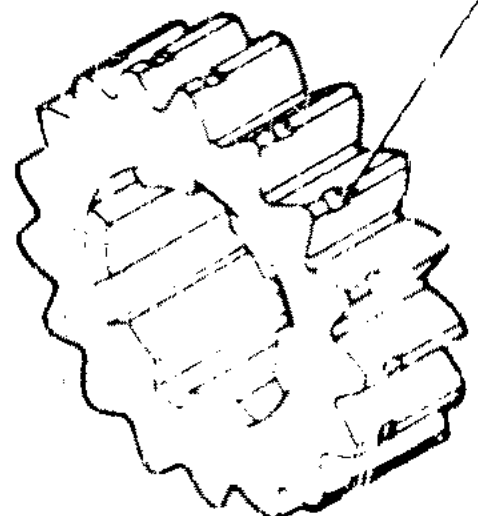
Due to different spline bearing surfaces and clearances, the old and new parts may not be interchanged. Mixing can result in faulty shifting, cracked splining or seizure.

WARNING

DO NOT MIX OLD AND NEW PARTS.
IMPROPER USE CAN LEAD TO TRANSMISSION FAILURE, ACCIDENT AND INJURY.



IDENTIFICATION GROOVE

**PART IDENTIFICATION**

An identification groove 1.5mm wide and 0.2mm deep is added to the circumference of the new gears and a second groove to old gears already having one groove.

XS650D

Page No.	Ref. No.	~1T3-721261	I.D. Marks	1T3-721262~	I.D. Marks	Description
30	12-8	256-17121-00	0	256-17121-01	1	Gear, 2nd Pinion
30	12-5	256-17131-01	0	256-17131-04	1	Gear, 3rd Pinion
30	12-5	256-17131-03	0			
30	12-2	256-17141-01	1	256-17141-02	2	Gear, 4th Pinion
30	12-6	341-17151-03	1	341-17151-04	2	Gear, 5th Pinion
30	12-20	306-17211-00	0	Not Changed	0	Gear, 1st Wheel
30	12-14	256-17221-01	0	256-17221-02	1	Gear, 2nd Wheel
30	12-18	256-17231-03	1	256-17231-04	2	Gear, 3rd Wheel
30	12-19	256-17241-01	1	256-17241-02	2	Gear, 4th Wheel
30	12-17	256-17251-03	1	256-17251-04	2	Gear, 5th Wheel
30	12-1	306-17411-00	N/A	306-17411-01	N/A	Axle, Main
30	12-13	256-17421-00	N/A	256-17421-01	N/A	Axle, Drive

N/A = Not applicable. See illustrations for explanation of change.

XS750D, XS750-2D

Page No.	Ref. No.	~1J7-012360 ~1J7-104560	I.D. Marks	1J7-012361~ 1J7-104561~	I.D. Marks	Description
36	11-8	256-17121-00	0	256-17121-01	1	Gear, 2nd Pinion
36	11-5	1J7-17131-00	0	1J7-17131-01	1	Gear, 3rd Pinion
36	11-2	1J7-17141-00	1	1J7-17141-01	2	Gear, 4th Pinion
36	11-6	1J7-17151-02	0	1J7-17151-03	1	Gear, 5th Pinion
36	11-14	1J7-17211-02	0	Not Changed	0	Gear, 1st Wheel
36	11-21	1J7-17221-02	0	1J7-17221-03	1	Gear, 2nd Wheel
36	11-19	1J7-17231-02	0	1J7-17231-03	1	Gear, 3rd Wheel
36	11-17	1J7-17241-02	0	1J7-17241-03	1	Gear, 4th Wheel
36	11-20	1J7-17251-02	0	1J7-17251-03	1	Gear, 5th Wheel
36	11-20	1J7-17251-09	0			
36	11-1	1J7-17411-01	N/A	1J7-17411-02	N/A	Axle, Main
36	11-13	1J7-17421-02	N/A	1J7-17421-03	N/A	Axle, Drive
36	11-28	1J7-17582-01	1	1J7-17582-02	2	Gear, Middle Drive

N/A = Not applicable. See illustrations for explanation of change.

PLEASE BRING YOUR PARTS LIST UP TO DATE

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CAM SHAFT SPROCKET SYSTEMS

Yamaha 650cc models are divided into two camshaft sprocket system groups. Each system has two different cam chain/chain joint combinations. Please alert parts and service personnel concerning identification, part numbers, and interchangeability.

MODEL XS1·XS1B·XS2·TX650 (1970 - 1973)

DESCRIPTION	PART NUMBER	REMARKS
Camshaft Assembly	256-12170-09-00	34T. See Note 3
Cam Chain Sprocket	256-11549-00-00	17T
Cam Chain	94510-01102	(102L) (I.D. "A")
Chain Joint	94610-01001	See Note 1
Cam Chain	94590-02102	(102L) (No I.D. marks)
Chain Joint	94690-02021	

MODEL GROUP TX650A·XS650B/C/D (1974 - 1977)

DESCRIPTION	PART NUMBER	REMARKS
Camshaft Assembly	447-12170-00-00	36T
Cam Chain Sprocket	447-11549-01-00	18T
Cam Chain	94562-19106	(106L) (I.D. "D1D" or "Japan")
Chain Joint	94662-19001	
Cam Chain	94500-02106	(106L) (I.D. "M")
Chain Joint	94600-02001	

INTERCHANGEABILITY

- 1) No chain joint is interchangeable with any other chain joint due to different pin diameters.
- 2) Cam chains are interchangeable in the same model group, but not between model groups.
- 3) Camshaft, sprocket, and chains for one model group are interchangeable with the same parts for the other model group, but only as a set.

- NOTES:
- 1) Chain joint 94610-01101 will not be restocked after present stock is exhausted.
 - 2) Camshaft assembly 256-12170-00-00 and 256-12170-01-00 requires the use of the following valve springs.

Qty	Part Number	Remarks
4	90501-29150	Inner spring
4	90501-45167	Outer spring

- 3) Camshaft assembly 256-12170-09-00 requires the use of the following valve springs:

Qty	Part Number	Remarks
4	90501-29284	Inner spring
4	90501-42286	Outer spring

DRIVE CHAIN AND MASTER LINK

The drive chains on later production XS500D and XS650D models are different from the chains used on earlier 500 and 650 models. The new chain provides greater strength and a longer service life. Be sure to use the correct master link in each application.

Please inform parts and service personnel of the following information:

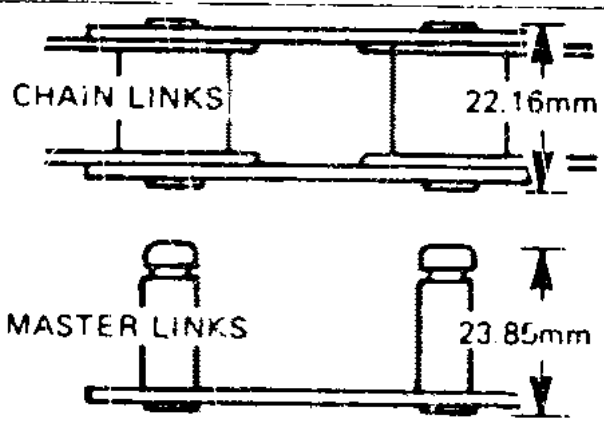
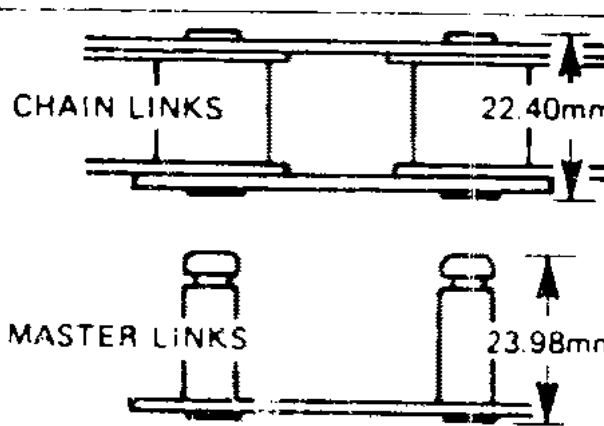
AFFECTED MACHINES:

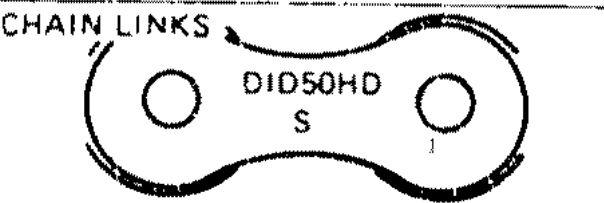
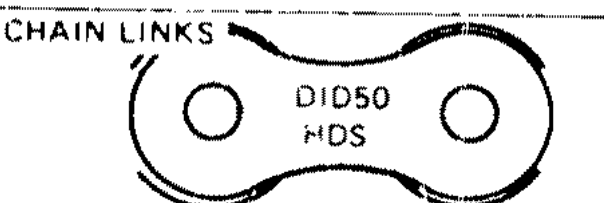
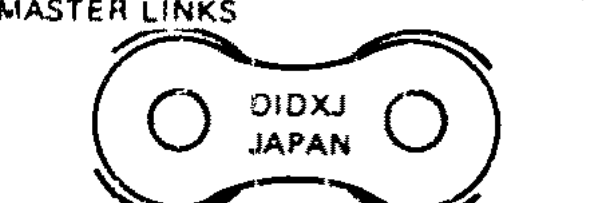
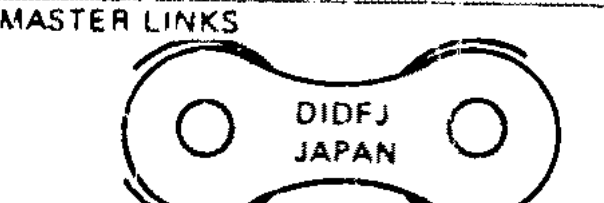
XS500D – 1J3-102371 and later use new type chain.

XS650D – 1T3-712430 and later use new type chain.

IDENTIFICATION:

Early type and later type chains and master links can be identified by the manufacturer's markings on the side plates. Also, the length of the pins in the chains and master links can be measured to identify chain type.

OLD TYPE PIN MEASUREMENTS	NEW TYPE PIN MEASUREMENTS
 CHAIN LINKS 22.16mm MASTER LINKS 23.85mm	 CHAIN LINKS 22.40mm MASTER LINKS 23.98mm

OLD TYPE SIDE PLATE MARKINGS	NEW TYPE SIDE PLATE MARKINGS
 CHAIN LINKS DID50HD S	 CHAIN LINKS DID50 HDS
 MASTER LINKS DIDXJ JAPAN	 MASTER LINKS DIDFJ JAPAN

INTERCHANGEABILITY

Chains: The new type chains can be used as a replacement for old type chains. New type chains will replace old chains when current warehouse stock is depleted.

Master Links: The old type master link is shorter than the new type and will fit only the old type chain. The new type master link will fit both new and old type chains.

NOTE: There are no sprocket changes.

PARTS REFERENCE

Old Style Part Number	New Style Part Number	Description	Remarks
94575-30104	94580-05104	Chain - 104 link	interchangeable
94575-30106	94580-05106	Chain - 106 link	Interchangeable
94575-30108 (superseded)	94580-05108	Chain - 108 link	Interchangeable
94575-30011	—	Master Link	Fits old style only.
—	94680-05011	Master Link	Fits old and new style