

Robin Industrial Engines®

OEM PARTS MANUAL

Model

EY45V SNAPPER

1193M301



ROBIN AMERICA, INC.
ROBIN TO WISCONSIN ROBIN
ENGINE MODEL CROSS REFERENCE LIST

ROBIN

WISCONSIN ROBIN

SIDE VALVE

EY08	W1-080
EY15	W1-145
EY15V	W1-145V
EY20	W1-185
EY20V	W1-185V
EY23	W1-230
EY28	W1-280
EY35	W1-340
EY40	W1-390
EY45V	W1-450V
EY21	EY21W
EY44	EY44W
EY18-3	EY18-3W
EY25	EY25W
EY27	EY27W

OVERHEAD VALVE

EH11	WO1-115
EH12	WO1-120
EH15	WO1-150
EH17	WO1-170
EH21	WO1-210
EH25	WO1-250
EH30	WO1-300
EH30V	WO1-300V
EH34	WO1-340
EH34V	WO1-340V
EH43V	WO1-430V

TWO CYCLE

EC13V	WT1-125V
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DIESEL

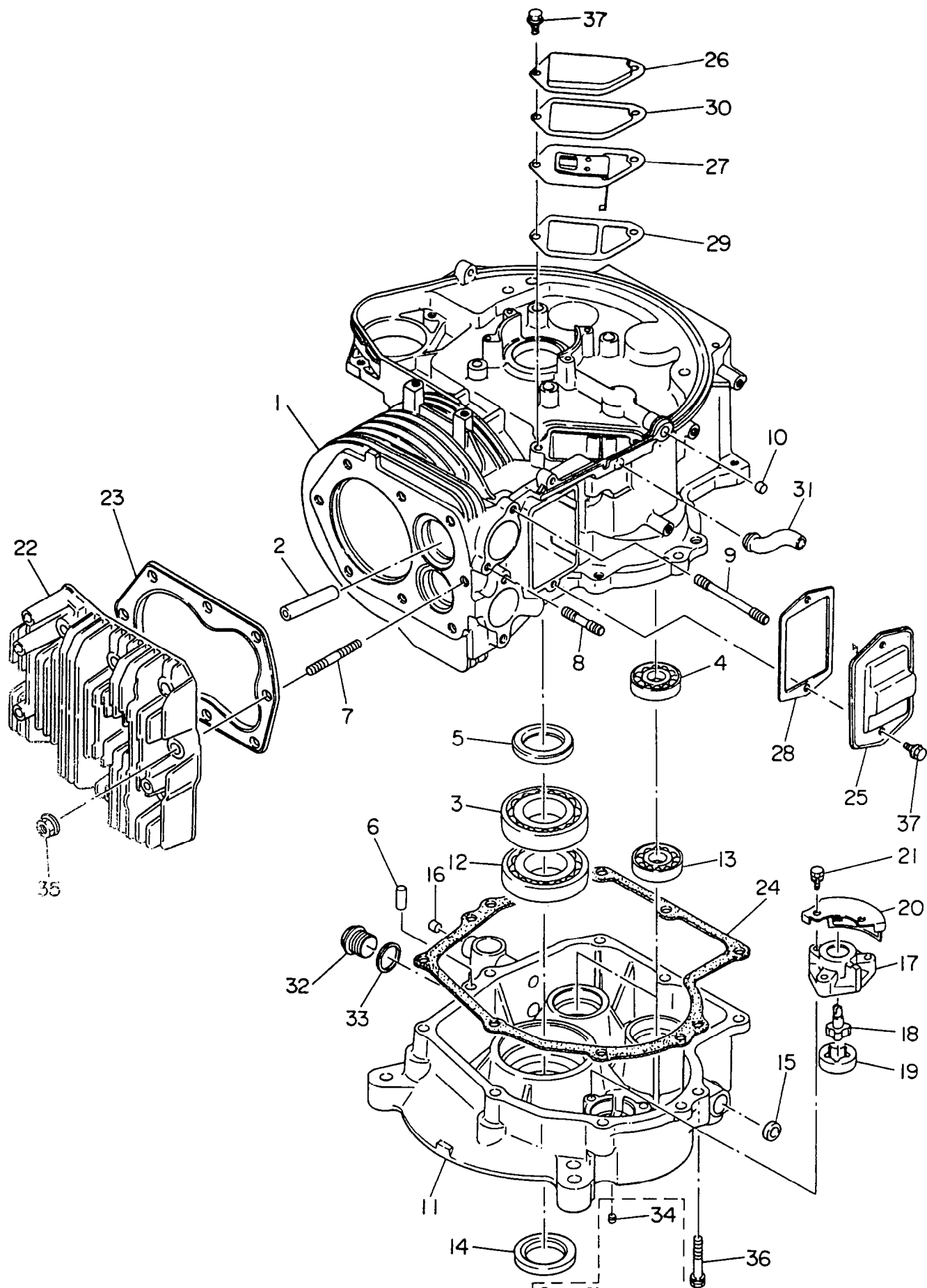
DY23	WRD1-230
DY27	WRD1-270
DY30	WRD1-300
DY35	WRD1-350
DY41	WRD1-410

EY45V for SNAPPER

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1. CRANKCASE GROUP

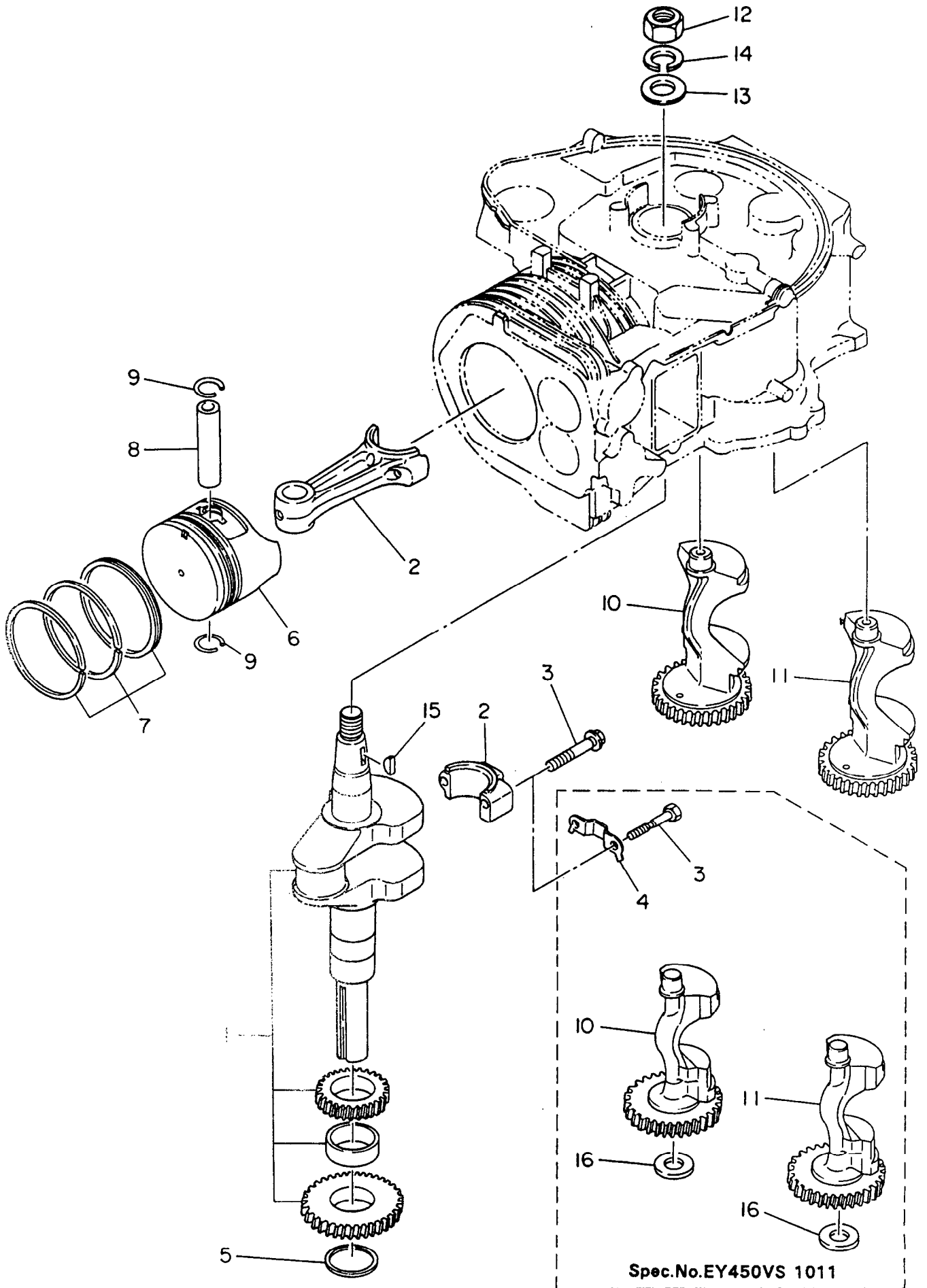


Spec.No.
EY450VS 1011

1. CRANKCASE GROUP

Ref. No.	Parts Number	Parts Name	Qty	Description
* 1	235-10103-01	CRANKCASE COMPL.	1	Incl. 2~10
2	224-14202-03	VALVE GUIDE	2	over size
3	060-03500-10	BALL BEARING	1	
4	060-01700-30	BALL BEARING	2	
5	044-03500-90	OIL SEAL	1	
6	005-26081-80	DOWEL PIN	2	
7	010-51002-70	STUD	8	
8	010-50803-00	STUD	1	
9	010-50803-20	STUD	1	
10	235-15401-03	PLUG (crankcase)	1	
*11	235-10901-21	MAIN BEARING COVER COMPL.	1	Incl. 12~16 EY450VS1050
*11	235-10901-11	MAIN BEARING COVER COMPL.	1	Incl. 12~16 EY450VS1011
12	060-03500-10	BALL BEARING	1	
13	060-01700-30	BALL BEARING	2	
14	044-03500-90	OIL SEAL	1	
15	044-00800-20	OIL SEAL	1	
16	235-15411-03	PLUG (bearing cover)	1	
17	235-15201-13	HOLDER (camshaft)	1	EY450VS1050
17	235-15201-03	HOLDER (camshaft)	1	EY450VS1011
18	235-63901-11	OIL PUMP (inner)	1	EY450VS1050
18	235-63901-01	OIL PUMP (inner)	1	EY450VS1011
19	228-63902-03	OIL PUMP (outer)	1	
20	235-64301-11	OIL FILTER COMPL.	1	EY450VS1050
20	235-64301-01	OIL FILTER COMPL.	1	EY450VS1011
21	011-00601-60	FLANGE BOLT	3	EY450VS1050
21	001-14062-50	BOLT AND WASHER ASS'Y	3	EY450VS1011
22	235-13101-03	CYLINDER HEAD	1	
23	235-15001-01	GASKET COMPL. (cylinder head)	1	
24	235-15101-03	GASKET (main bearing cover)	1	
25	235-14301-01	TAPPET COVER	1	
26	235-14601-03	BREATHER COVER	1	
27	235-14401-01	BREATHER PLATE COMPL.	1	
28	235-15111-03	GASKET (tappet cover)	1	
29	235-15121-03	GASKET (breather cover)	1	
30	235-15131-03	GASKET (breather cover)	1	
31	235-15301-03	RUBBER PIPE	1	
32	040-12000-10	PLUG	1	
33	021-12000-10	GASKET	1	
34	235-15241-03	BLIND PLUG	1	EY450VS1011
35	002-38100-00	FLANGE NUT	8	
36	011-00800-90	FLANGE BOLT	8	EY450VS1050
36	001-14084-50	BOLT AND WASHER ASS'Y	8	EY450VS1011
37	011-00600-20	FLANGE BOLT	4	

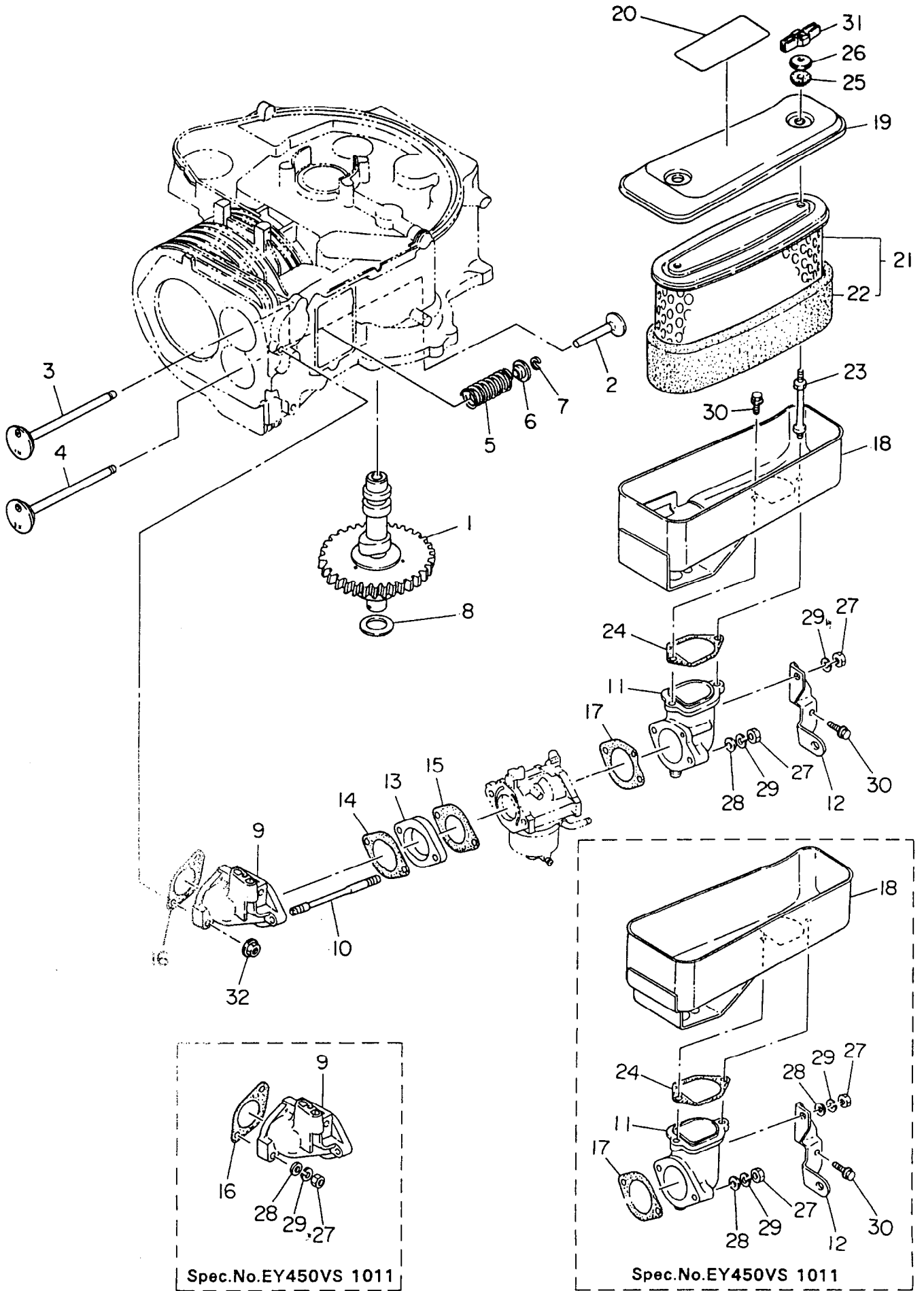
2. CRANKSHAFT, PISTON GROUP



2. CRANKSHAFT, PISTON GROUP

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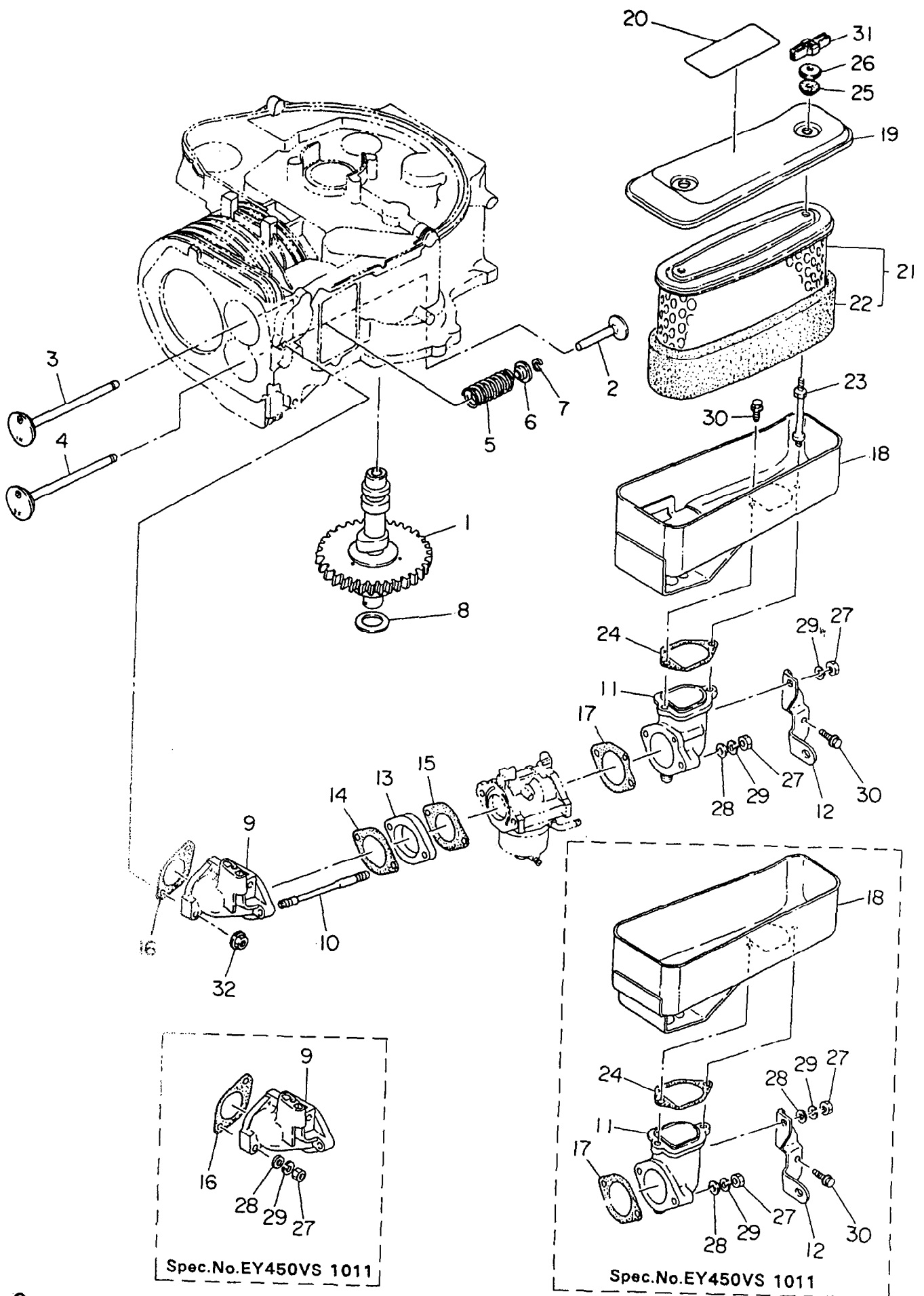
3. INTAKE, EXHAUST GROUP



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Ref. No.	Parts Number	Parts Name	Qty	Description
1	235-31711-01	CAMSHAFT COMPL.	1	AFTER E/#115627 EY450VS1050
1	235-31701-01	CAMSHAFT COMPL.	1	EY450VS1011
2	235-33301-03	TAPPET	2	
3	224-33401-03	INTAKE VALVE	1	
4	224-33501-03	EXHAUST VALVE	1	
5	208-33601-13	VALVE SPRING	2	
6	208-33701-03	SPRING RETAINER	2	
7	217-33801-03	RETAINER LOCK	2	
8	023-02001-80	SPACER	1	T=0.85 AFTER E/#115627
8	023-02001-30	SPACER	1	T=1.05
8	023-02001-60	SPACER	1	T=1.15
8	023-02001-40	SPACER	1	T=1.20 select one piece only
8	023-02001-70	SPACER	1	T=1.25
8	023-02001-50	SPACER	1	T=1.35
* 9	235-33101-11	INTAKE MANIFOLD COMPL.	1	Incl. 10 EY450VS1050
* 9	235-33101-01	INTAKE MANIFOLD COMPL.	1	Incl. 10 EY450VS1011
10	010-50803-80	STUD	2	EY450VS1050
10	010-50803-40	STUD	2	EY450VS1011
11	235-35102-03	ELBOW	1	EY450VS1050
11	235-35101-13	ELBOW	1	EY450VS1011
12	235-35201-01	SUPPORT (elbow)	1	
13	235-32901-03	INSULATOR	1	
14	235-34841-03	GASKET (insulator)	1	
15	235-34851-03	GASKET (insulator)	1	
16	235-34811-03	GASKET (manifold)	1	
17	235-34822-03	GASKET (elbow)	1	EY450VS1050
17	235-34821-03	GASKET (elbow)	1	EY450VS1011
18	235-32801-21	AIR CLEANER CASE COMPL.	1	EY450VS1050
18	235-32801-11	AIR CLEANER CASE COMPL.	1	EY450VS1011
19	235-32811-11	AIR CLEANER COVER	1	EY450VS1050
19	235-32811-01	AIR CLEANER COVER	1	EY450VS1011
20	073-20033-41	LABEL (air cleaner)	1	
*21	235-34701-21	ELEMENT COMPL. (cleaner)	1	Incl. 22
22	235-32610-18	ELEMENT (outer)	1	
23	235-35301-11	BOLT	2	
24	235-34831-13	GASKET (cleaner case)	1	
25	024-10600-00	GROMMET	2	
26	212-32850-08	WASHER	2	
27	002-27080-00	NUT	2	EY450VS1050
27	002-27080-00	NUT	4	EY450VS1011
28	003-10080-00	WASHER	1	EY450VS1050
28	003-10080-00	WASHER	4	EY450VS1011
29	003-20080-00	SPRING WASHER	2	EY450VS1050
29	003-20080-00	SPRING WASHER	4	EY450VS1011
30	011-00600-20	FLANGE BOLT	2	

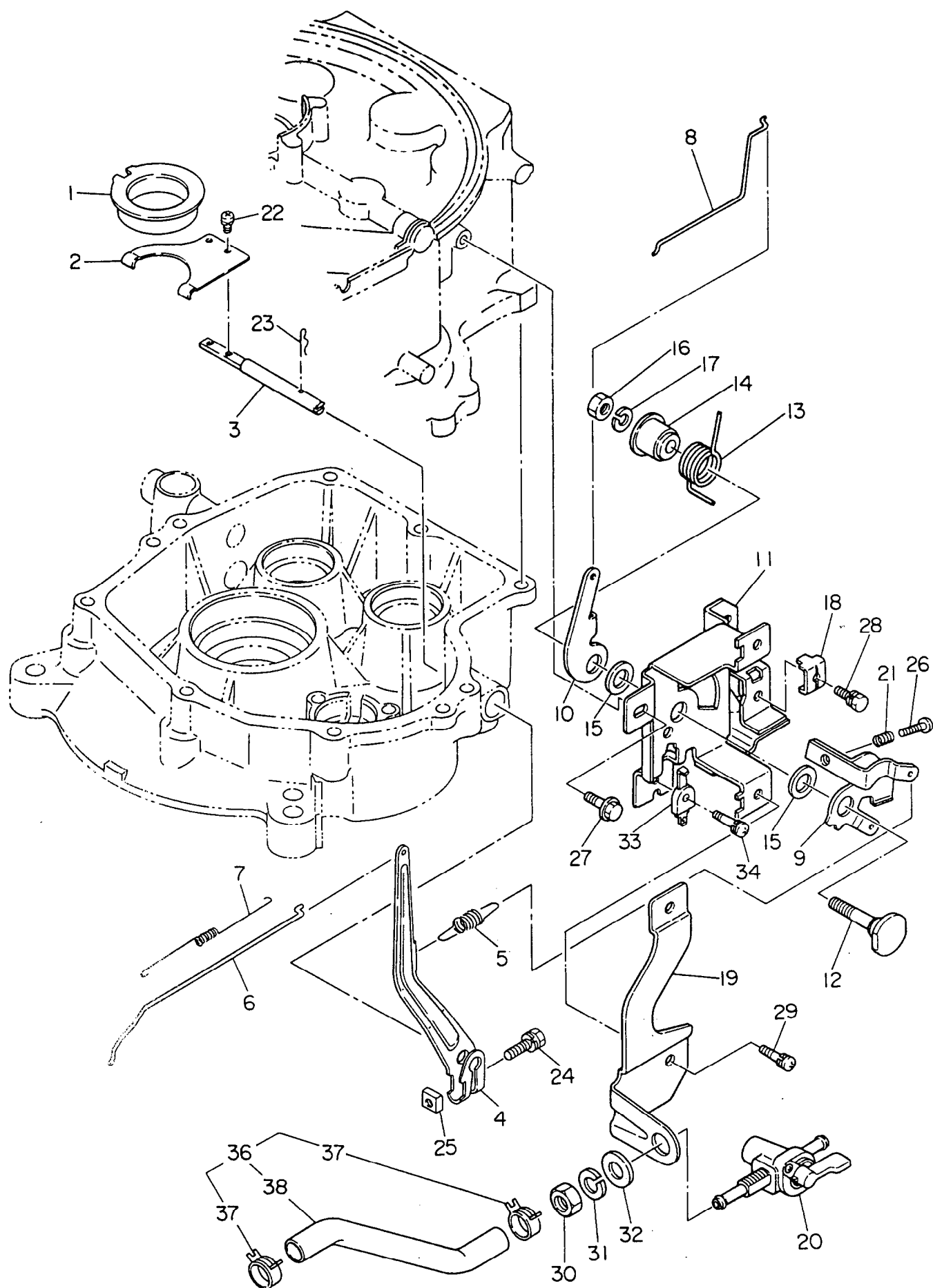
3. INTAKE, EXHAUST GROUP



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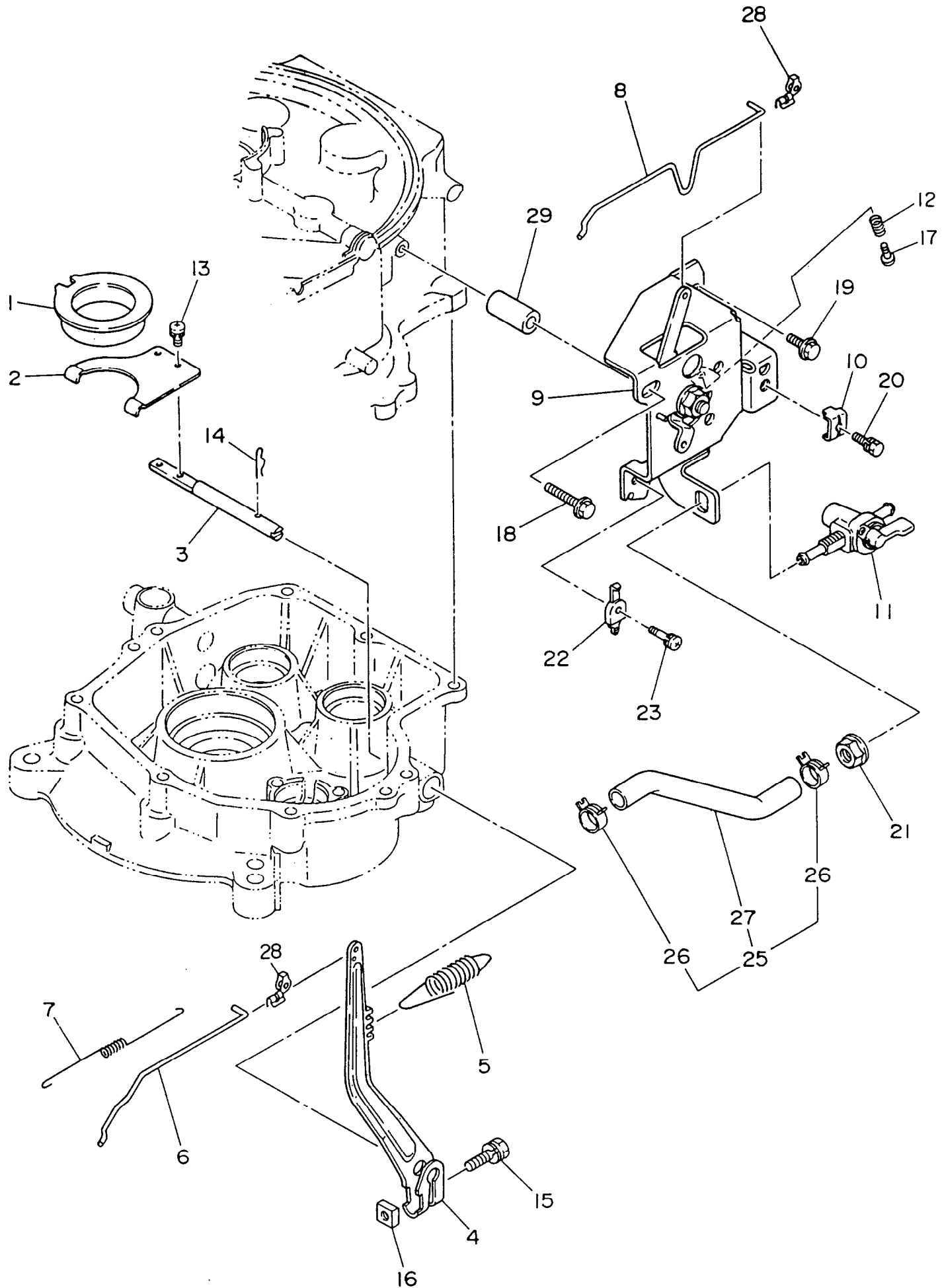
4. GOVERNOR OPERATION GROUP (Spec.No.EY450VS 1011)



4. GOVERNOR, OPERATE GROUP (Spec. No. EY450VS1011)

Ref. No.	Parts Number	Parts Name	Q'ty	Description
1	224-41901-03	GOVERNOR SLEEVE	1	
2	235-42101-03	GOVERNOR YOKE	1	
3	235-42201-03	GOVERNOR SHAFT	1	
4	235-42302-01	GOVERNOR LEVER	1	
5	235-42504-03	GOVERNOR SPRING	1	
5	235-42503-03	GOVERNOR SPRING	1	
6	235-42701-01	GOVERNOR ROD	1	
7	235-42801-03	ROD SPRING	1	
8	235-43702-01	CHOKE ROD	1	
* 9	235-43304-10	SPEED CONTROL ASS'Y	1	Incl. 10~17
* 9	235-43304-00	SPEED CONTROL ASS'Y	1	
9	235-43303-01	SPEED CONTROL	1	
10	235-43803-01	CHOKE LEVER	1	
11	235-44303-11	BRACKET	1	
11	235-44303-01	BRACKET	1	
12	235-44411-01	PIVOT 1	1	
13	235-44503-03	RETURN SPRING	1	
14	235-44421-01	PIVOT 2	1	
15	020-01201-20	WASHER	2	
16	002-17060-00	NUT	1	
17	003-20060-00	SPRING WASHER	1	
18	235-43901-01	CLAMP	1	
19	235-44602-01	PLATE (speed control)	1	
20	235-64601-20	FUEL COCK ASS'Y	1	
20	235-64601-00	FUEL COCK ASS'Y	1	
21	230-49003-01	SPRING COMPL. (adjuster)	1	
22	004-35040-80	SCREW AND WASHER ASS'Y	2	
23	005-11080-00	SNAP PIN	1	
24	001-14062-50	BOLT AND WASHER ASS'Y	1	
25	018-60600-20	NUT	1	
26	004-31041-60	SCREW (pan head)	1	
27	011-00600-20	FLANGE BOLT	2	
28	001-17052-00	BOLT AND WASHER ASS'Y	1	
28	004-36051-60	SCREW AND WASHER ASS'Y	1	
29	004-36051-20	SCREW AND WASHER ASS'Y	2	
30	002-27100-00	NUT	1	
31	003-20100-00	SPRING WASHER	1	
32	003-10100-00	WASHER	1	
33	226-72704-03	STOP SWITCH	1	
34	004-35041-20	SCREW AND WASHER ASS'Y	1	
*36	232-62607-01	FUEL PIPE COMPL.	1	Incl. 37, 38
37	056-11100-20	HOSE CLAMP	2	
38	085-10600-00	RUBBER PIPE	0.15M	6φ×12φ

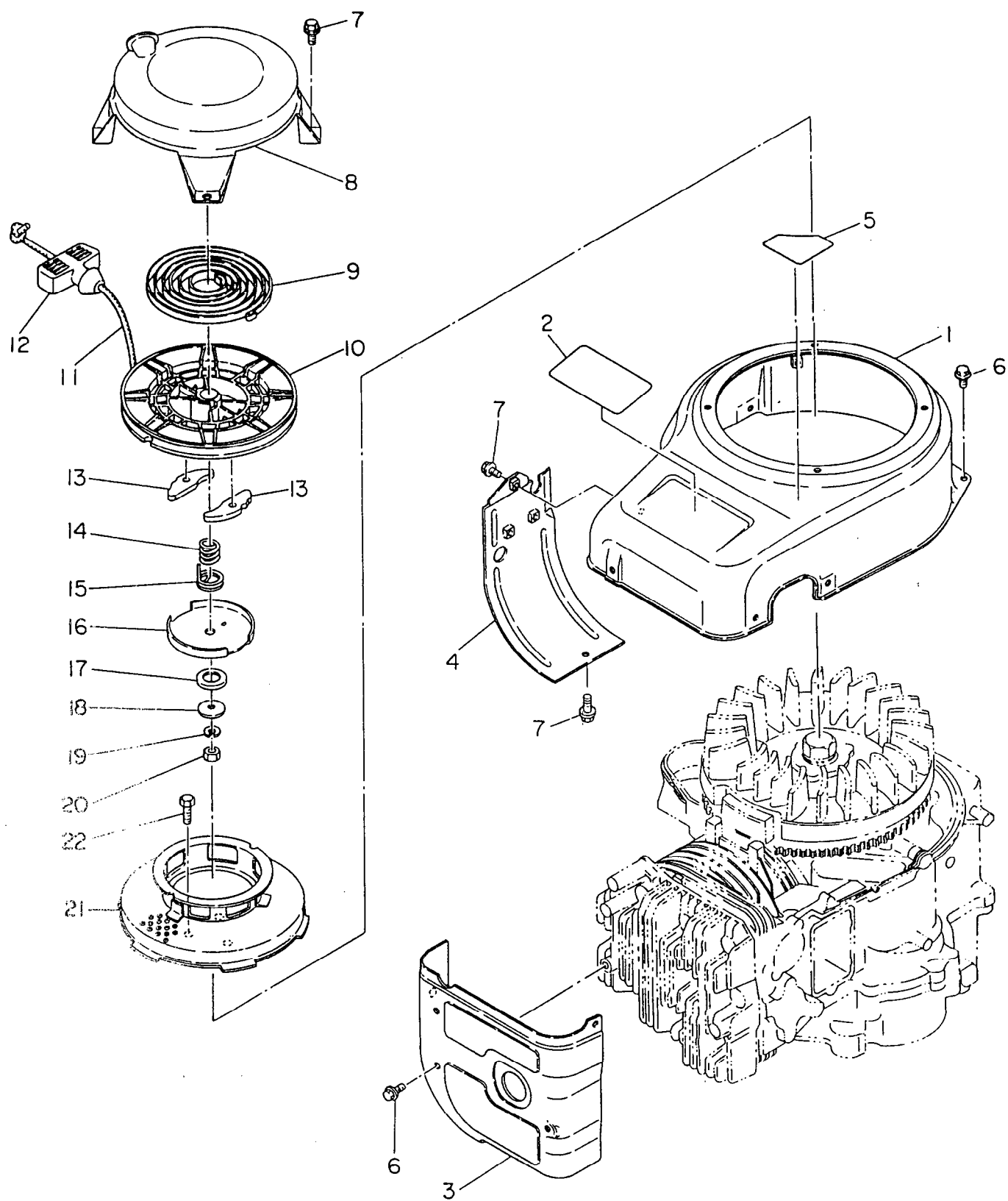
4. GOVERNOR OPERATION GROUP (Spec.No.EY450VS 1050)



4. GOVERNOR, OPERATE GROUP (Spec. No. EY450VS1050)

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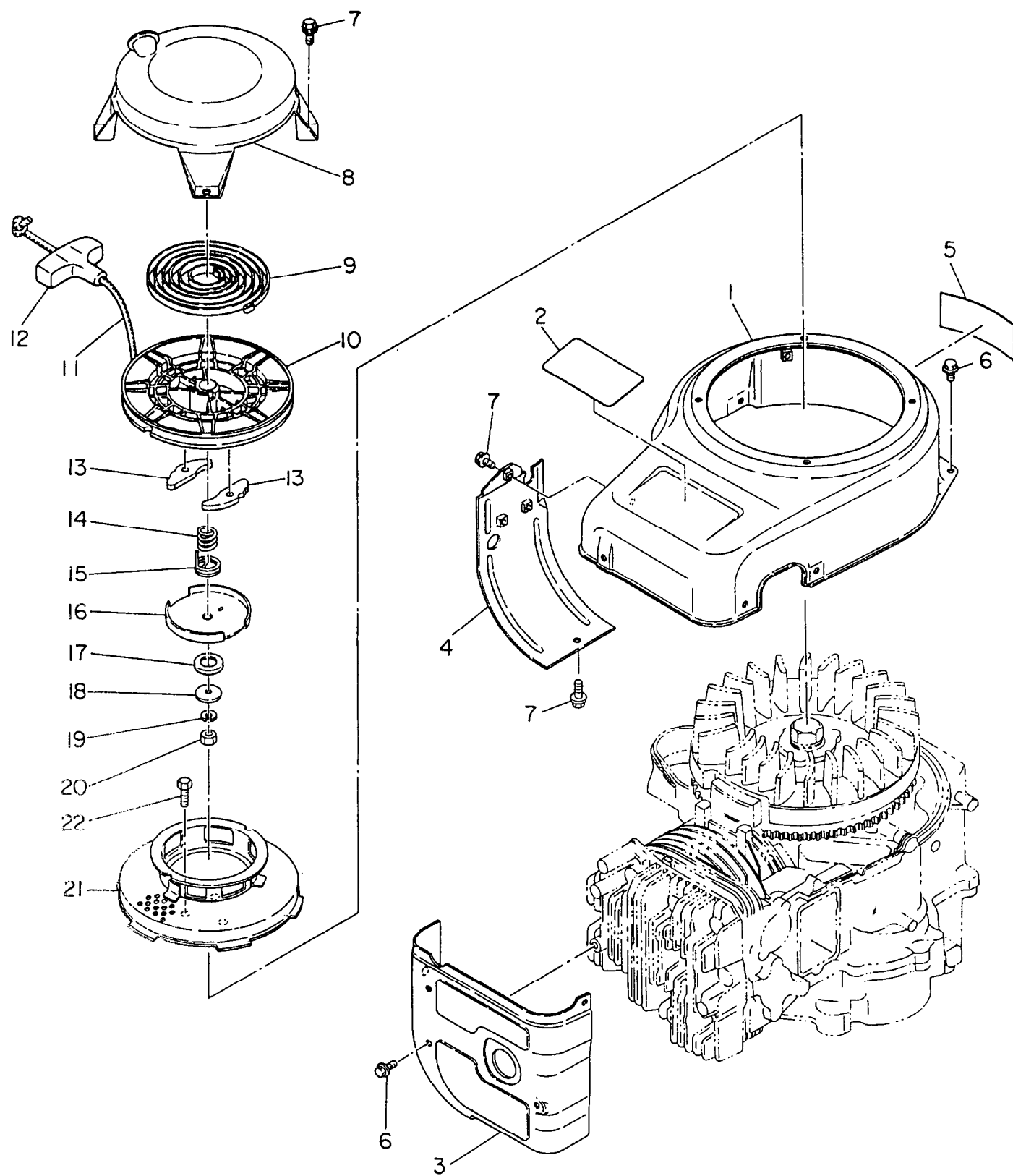
5. COOLING, STARTING GROUP (Spec.No.EY450VS 1011)



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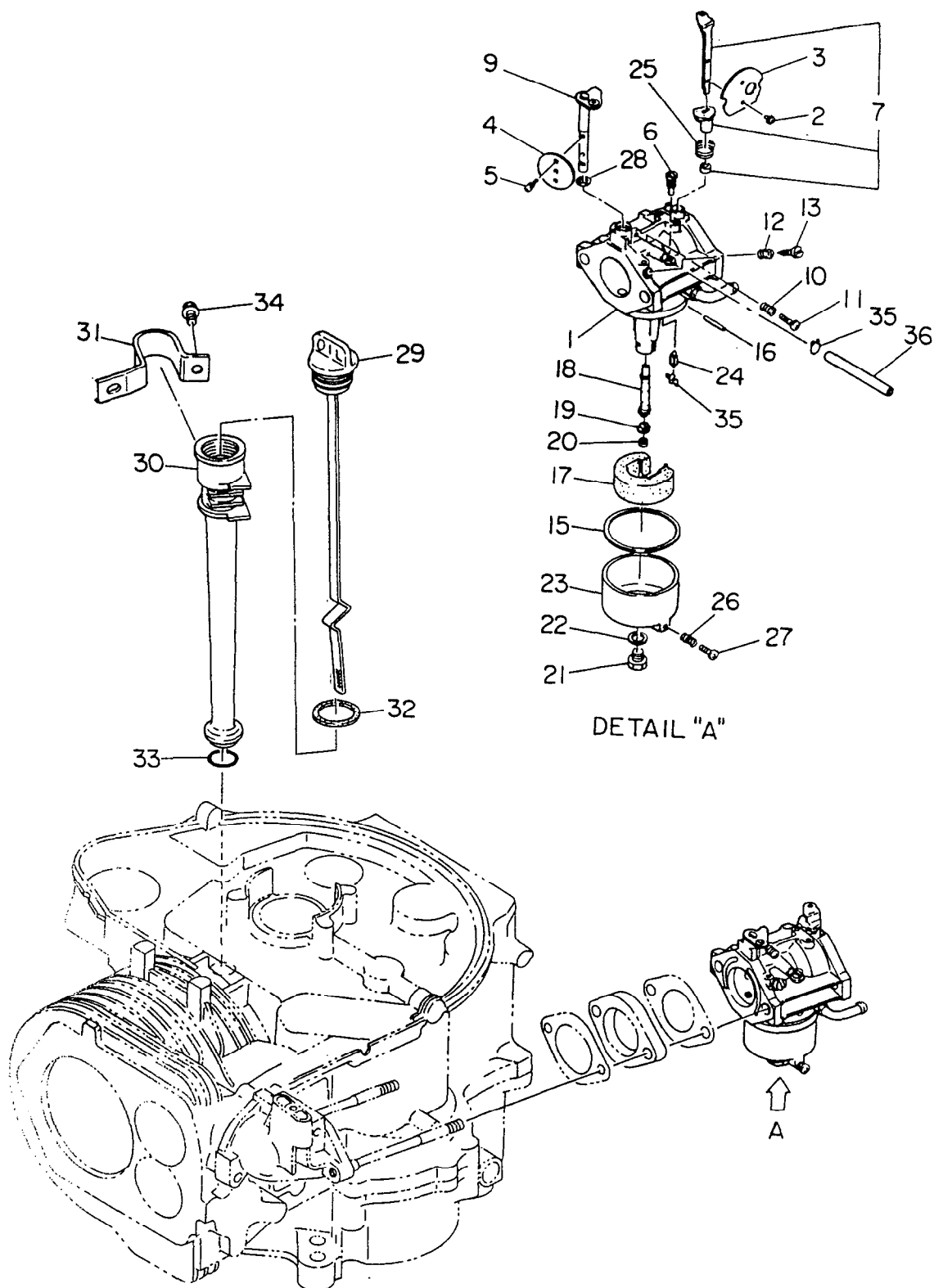
5. COOLING, STARTING GROUP (Spec.No.EY450VS 1050)



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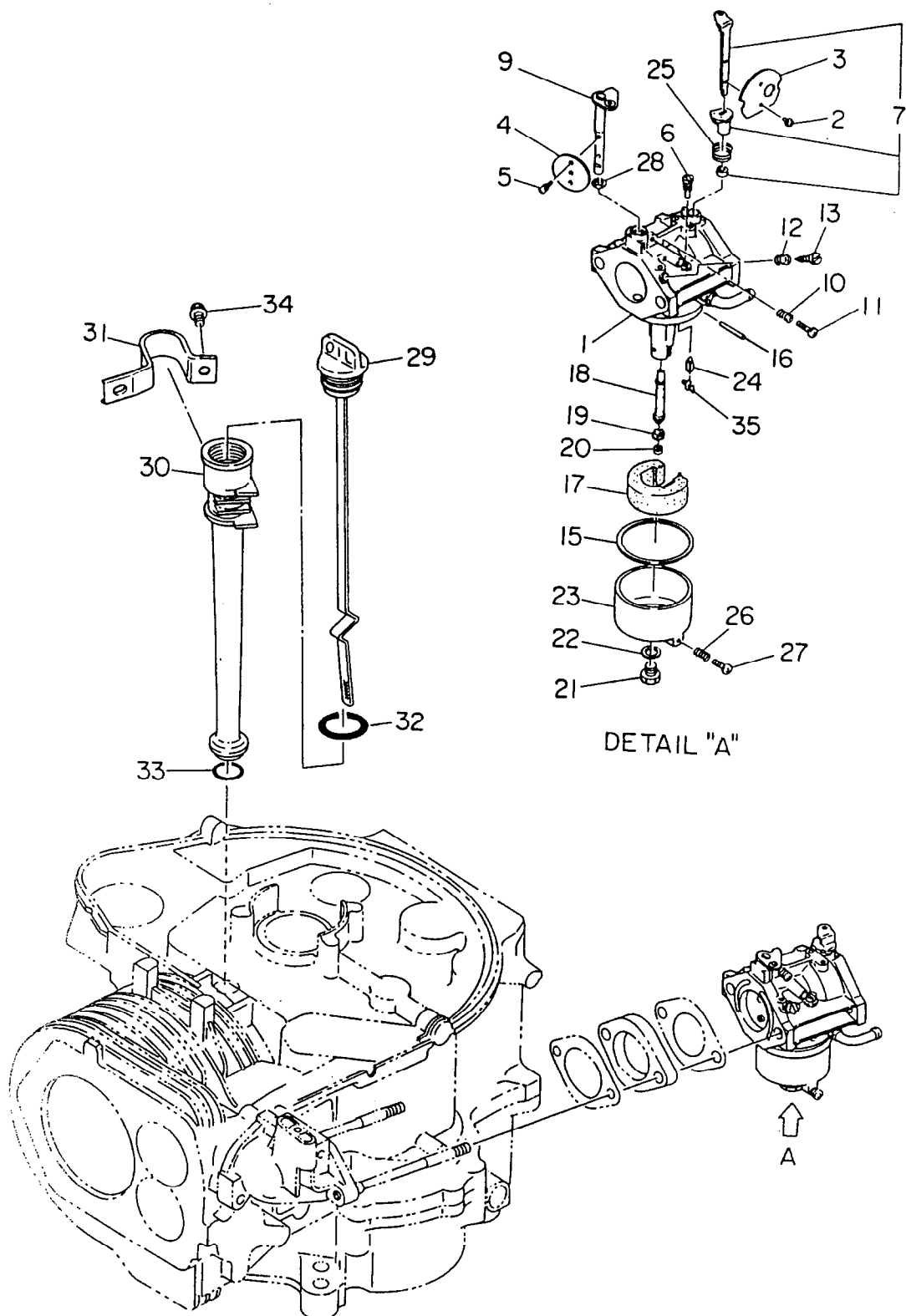
6. FUEL, LUBRICANT GROUP (Spec.No.EY450VS 1011)



6. FUEL, LUBRICANT GROUP (Spec. No. EY450VS1011)

Ref. No.	Parts Number	Parts Name	Qty	Description
* 1	235-62301-20	CARBURETOR ASS'Y	1	Incl. 2~28, 35~37
2	237-62451-08	SCREW ASS'Y	2	
2	226-62351-08	SCREW ASS'Y	2	
3	235-62525-08	CHOKE VALVE	1	
4	235-62535-08	THROTTLE VALVE	1	
5	150-62356-08	SCREW ASS'Y	2	
6	209-62306-08	PILOT JET	1	
7	235-62522-08	CHOKE LEVER	1	
9	235-62531-08	SHAFT ASS'Y (throttlet)	1	
10	209-62445-08	SPRING	1	
10	210-62318-08	SPRING	1	
11	224-62452-08	SCREW	1	
12	235-62445-08	SPRING (pilot)	1	
13	111-62435-08	PILOT SCREW	1	
15	206-62540-08	PACKING	1	
16	214-62515-08	PIN (float)	1	
17	234-62505-08	FLOAT ASS'Y	1	
17	235-62505-08	FLOAT ASS'Y	1	
18	235-62441-08	MAIN NOZZLE	1	
19	235-62425-08	GUIDE HOLDER	1	
20	235-62401-08	MAIN JET	1	
21	150-62358-08	BOLT	1	
22	207-62345-08	WASHER	1	
22	209-62345-08	WASHER	1	
23	234-62552-08	FLOAT CHAMBER BODY	1	
23	235-62551-08	FLOAT CHAMBER BODY	1	
24	224-62305-08	NEEDLE VALVE ASS'Y	1	
25	234-62452-08	SPRING	1	
25	235-62446-08	SPRING	1	
26	209-62445-08	SPRING	1	
26	210-62318-08	SPRING	1	
27	224-62450-08	SCREW	1	
28	106-62392-08	SEAL	1	
29	235-63601-11	OIL GAUGE COMPL.	1	
30	235-63701-11	OIL FILLER	1	
31	235-64502-03	CLAMP (oil filler)	1	
32	021-32500-10	GASKET	1	
33	024-01700-10	"O" RING	1	
34	011-00600-10	FLANGE BOLT	2	
35	235-62449-08	CLAMP	1	
36	235-62448-08	HOSE	1	
37	239-62550-08	CLIP	1	

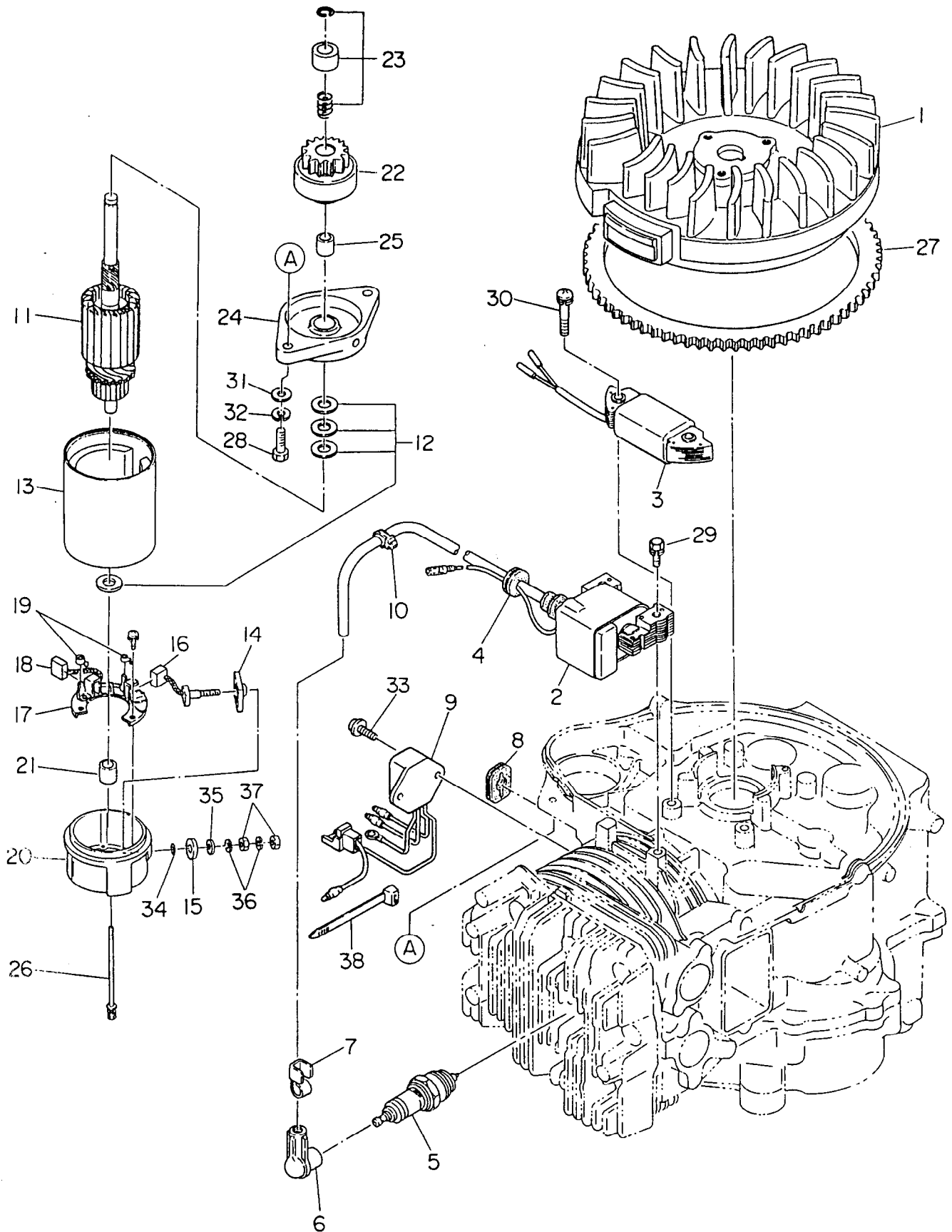
6. FUEL, LUBRICANT GROUP (Spec.No.EY450VS 1050)



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7. ELECTRIC DEVICE GROUP



7. ELECTRIC DEVICE GROUP

Ref. No.	Parts Number	Parts Name	Qty	Description
* 1	235-70103-00	MAGNETO ASS'Y	1	Incl. 2~4
1	235-70122-08	FLYWHEEL COMPL.	1	
2	235-70130-08	IGNITION COIL COMPL.	1	
3	235-70146-08	CHARGE COIL	1	
4	226-70245-08	GROMMET	1	
5	065-01414-90	SPARK PLUG	1	CHAMPION CJ8Y EY450VS1050
5	065-01404-30	SPARK PLUG	1	NGK BPM-6A EY450VS1011
6	230-75101-13	SPARK PLUG CAP	1	
7	065-50001-00	SPARK PLUG CAP	1	
8	224-75501-03	GROMMET	1	
9	235-71404-01	DIODE RECTIFIER COMPL.	1	EY450VS1050
9	235-71402-01	DIODE RECTIFIER COMPL.	1	EY450VS1011
10	056-60001-90	CLAMP	1	
*11	235-70501-00	STARTING MOTOR ASS'Y	1	Incl. 12~26, 34~37
11	235-70550-08	ARMATURE ASS'Y	1	
12	235-70555-08	WASHER KIT	1	
13	235-70560-08	YOKE ASS'Y	1	
14	235-70565-08	M BUSH (1)	1	
15	235-70566-08	M BUSH (2)	1	
16	235-70535-08	BRUSH (+)	1	
*17	235-70530-08	HOLDER ASS'Y (brush)	1	Incl. 18, 19
18	235-70540-08	BRUSH (-)	1	
19	235-70545-08	SPRING (brush)	2	
*20	235-70505-08	REAR COVER ASS'Y	1	Incl. 21
21	113-70510-08	METAL (rear cover)	1	
*22	235-70520-08	PINION ASS'Y	1	Incl. 23
23	235-70570-08	STOPPER SET (pinion)	1	
*24	235-70500-08	FRONT COVER ASS'Y	1	Incl. 25
25	214-70560-08	METAL (front cover)	1	
26	235-70575-08	THROUGH BOLT	2	
27	235-71002-03	RING GEAR	-1	EY450VS1050
27	235-71001-03	RING GEAR	1	EY450VS1011
28	214-79007-01	BOLT (starter)	2	
29	001-14063-00	BOLT AND WASHER ASS'Y	2	
30	004-36062-50	SCREW AND WASHER ASS'Y	2	
31	003-10080-00	WASHER	2	
32	003-20080-00	SPRING WASHER	2	
33	011-00600-20	FLANGE BOLT	2	EY450VS1050
33	004-36062-00	SCREW AND WASHER ASS'Y	2	EY450VS1011
34	235-70567-08	"O" RING	1	
35	003-11060-00	WASHER	1	
36	003-20060-00	SPRING WASHER	2	
37	002-27060-00	NUT	2	
38	056-30000-20	WIRE BAND	1	

NOTES



Robin America, Inc.

940 Lively Blvd., Wood Dale, IL 60191 • Tel: (708) 350-8200 • Fax: (708) 350-8212