

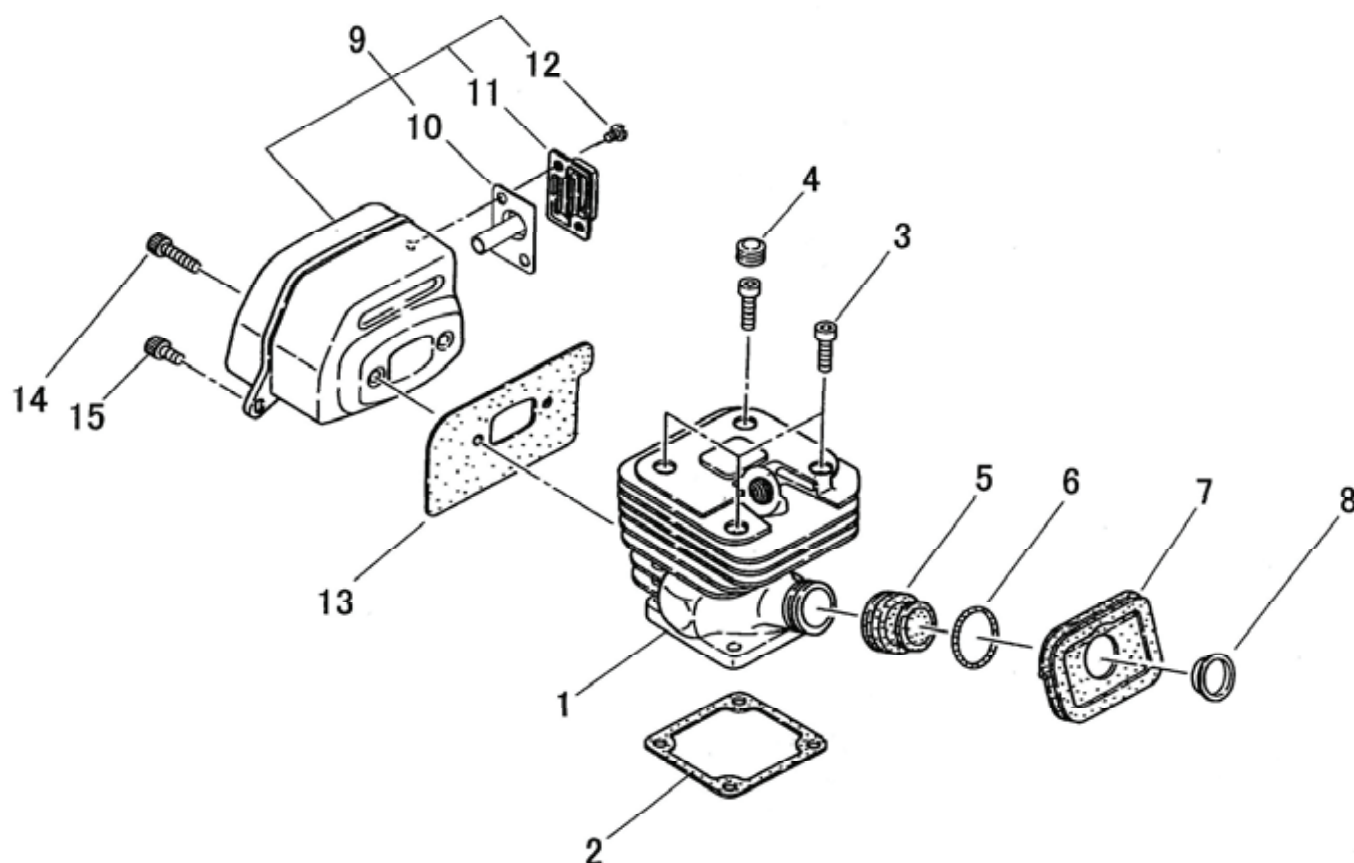
Shindaiwa Illustrated Parts List

488 EC1 Chainsaw

CYLINDER / MUFFLER	2
CRANKCASE	3
CYLINDER COVER / HANDLES / FUEL FILTER	4 - 5
CLUTCH / OIL PUMP / CHAIN COVER	6 - 7
PISTON / CRANKSHAFT	8
ROTOR / IGNITION COIL	9
RECOIL STARTER	10
CARBURETOR / AIR CLEANER	11
TOOL SET	12

CYLINDER / MUFFLER

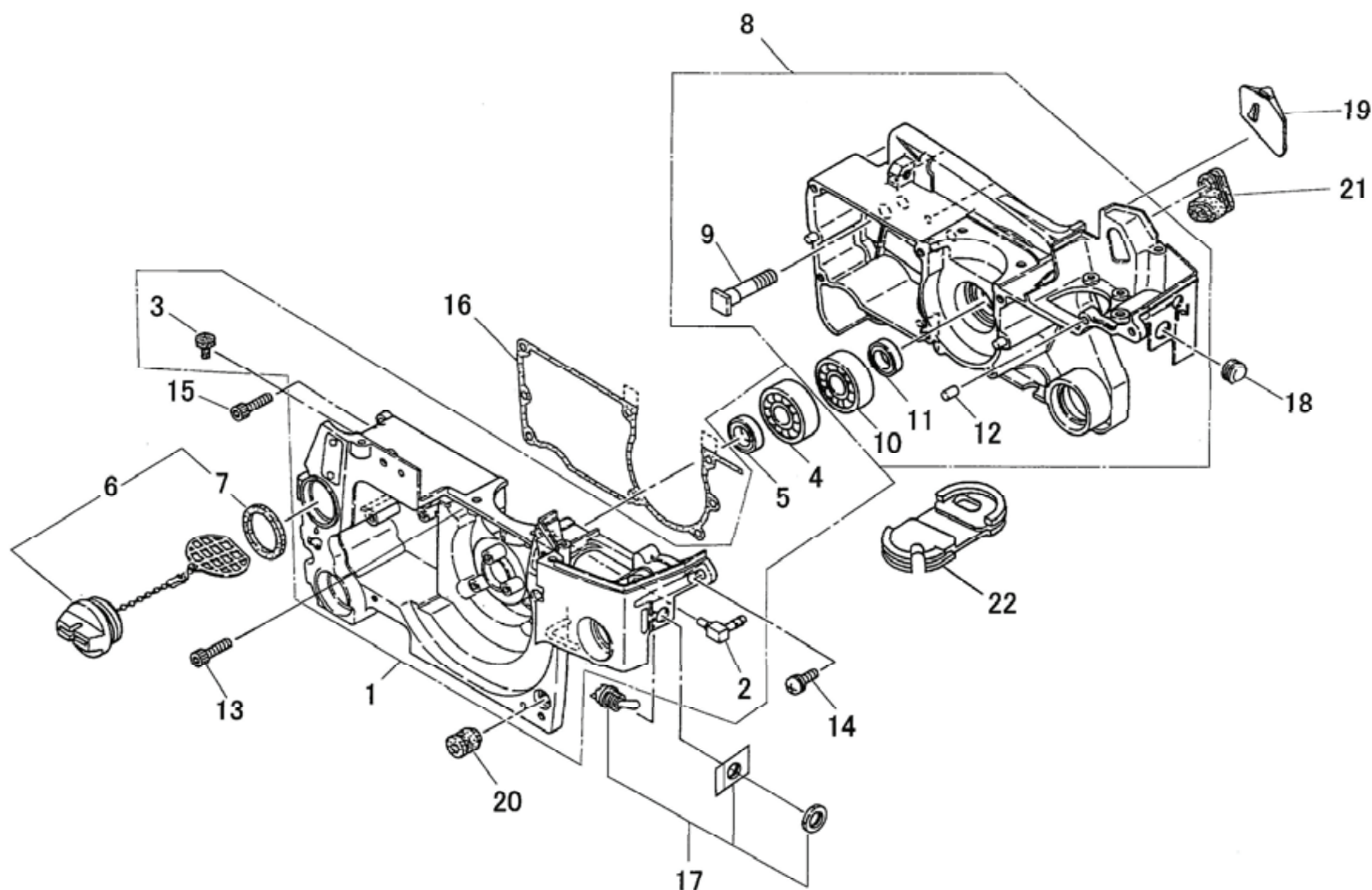
ILLUSTRATION 1 - REV 7/05



Ref. No	Part No.	Part Name	Q'ty
1- 1	22157-12110	CYLINDER	1
2	22160-12121	GASKET CYLINDER	1
3	22157-12130	BOLT	4
4	22160-22220	PLUG SWITCH	1
5	22160-12150	BOOT	1
6	22160-12160	SPRING	1
7	22160-12170	SEAL	1
8	22115-14140	SLEEVE	1
9	72312-15100	MUFFLER SUB ASSEMBLY	1
10	72312-15220	*SILENCER	1
11	22160-15210	*TAIL PLATE	1
12	11203-04060	*SCREW PM	2
13	22160-15311	GASKET MUFFLER	1
14	22157-12130	BOLT	2
15	22157-15330	BOLT	2

CRANKCASE

ILLUSTRATION 2 - REV 7/05



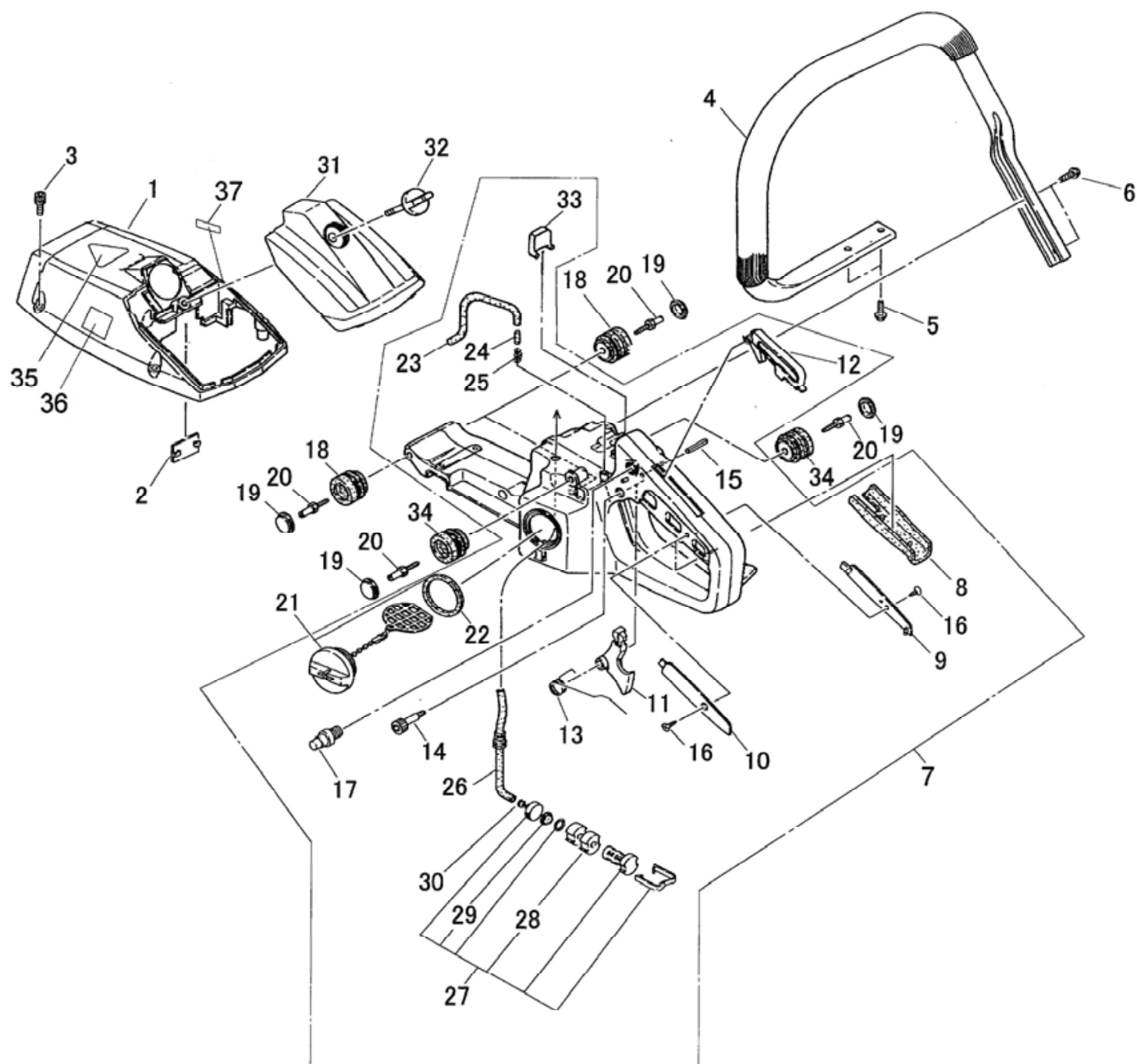
Ref. No	Part No.	Part Name	Q'ty
2- 1	22160-21202	CRANKCASE M COMP	1
2	22150-21220	*PULSE JOINT	1
3	22115-57120	*VALVE OIL TANK	1
4	12900-62010	*BEARING	1
5	22150-21250	*OIL SEAL	1
6	22160-21302	OIL CAP ASSEMBLY	1
7	22160-21351	*GASKET CAP	1
8	22160-21502	CRANKCASE C COMP	1
9	72312-21520	*BOLT BAR	2
10	12900-62010	*BEARING	1
11	22150-21250	*OIL SEAL	1

Ref. No	Part No.	Part Name	Q'ty
12	12492-50100	*DOWEL PIN	3
13	22157-21750	BOLT	4
14	22157-21760	SCREW PM	1
15	22157-12130	BOLT	2
16	22160-21720	GASKET CASE	1
17	72365-21310	SWITCH ASSEMBLY	1
18	22160-22220	PLUG SWITCH	1
19	22160-22250	STOPPER H	1
20	22160-33730	SUPPORTER	1
21	69026-21310	GROMMET	1
22	72312-22260	GROMMET A	1

* Denotes item is part of an assembly ** Denotes item is part of a sub-assembly

CYLINDER COVER / HANDLES / FUEL FILTER

ILLUSTRATION 3 - REV 7/05



CYLINDER COVER / HANDLES / FUEL FILTER

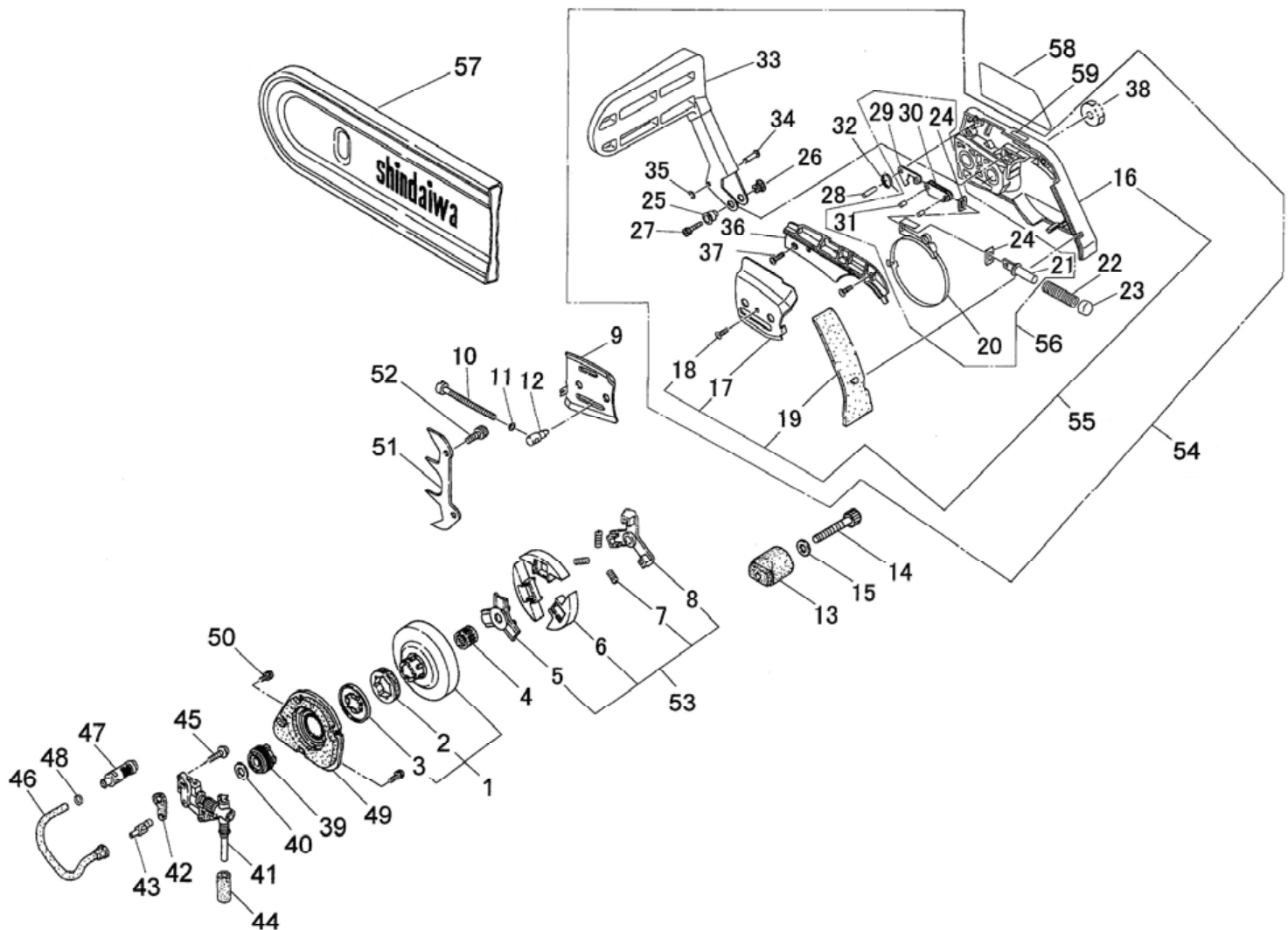
ILLUSTRATION 3 - REV 7/05

Ref. No	Part No.	Part Name	Q'ty
3- 1	22160-31110	CYLINDER COVER	1
2	22160-31120	PLUG	1
3	22160-31150	BOLT SW	3
4	72311-32110	FRONT HANDLE	1
5	22160-32210	SCREW PC	2
6	22160-32220	SCREW PC	2
7	22160-33104	REAR HANDLE SUB ASSEMBLY	1
8	22160-33310	*GRIP	1
9	22160-33320	*PLATE R	1
10	22160-33330	*PLATE L	1
11	39309-32240	*THROTTLE LEVER	1
12	22160-33360	*LOCK LEVER	1
13	22160-33370	*SPRING LEVER	1
14	22160-33380	*BOLT LEVER	1
15	12420-40255	*SPRING PIN	1
16	11202-40120	*SCREW HILO	1
17	22160-33401	*STOPPER ASSEMBLY	1
21	22160-33801	*CAP ASSEMBLY	1
22	22160-33821	**GASKET	1

Ref. No	Part No.	Part Name	Q'ty
23	22160-33910	*PIPE BREATHER	1
24	22157-33950	*ELEMENT	1
25	22160-33920	*SPRING	1
26	22160-34110	*FUEL PIPE	1
27	22115-85401	*FUEL FILTER SUB ASSEMBLY	1
28	22128-85421	**FILTER	2
29	22118-85460	**SCREEN	2
30	20020-85540	CLIP	1
33	22160-33590	STOPPER R	1
18	22160-33710	CUSHION 27	3
19	22160-33720	PLUG 27	5
20	22160-33770	STOPPER BOLT	5
31	22157-82510	CLEANER COVER	1
32	22155-82520	KNOB CLEANER COVER	1
34	22160-97810	CUSHION 27	2
35	19402-00083	LABEL CAUTION	1
36	19404-00036	LABEL DECIBEL	1
37	19401-00094	LABEL INST	1

CLUTCH / OIL PUMP / CHAIN COVER

ILLUSTRATION 5 - REV 7/05



CLUTCH / OIL PUMP / CHAIN COVER

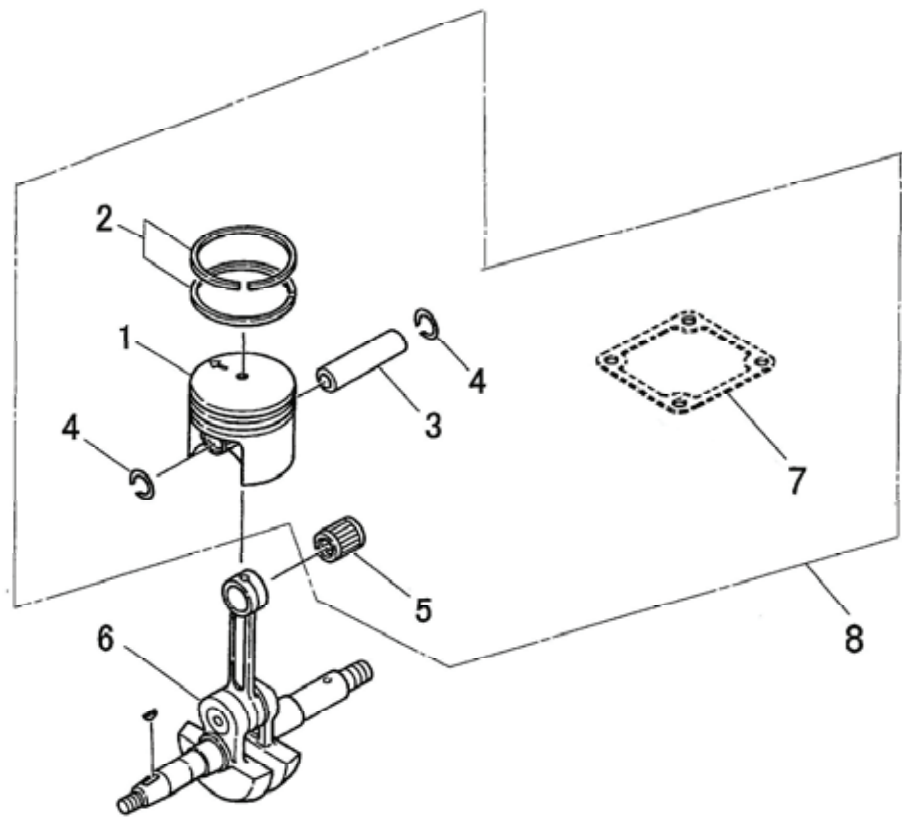
ILLUSTRATION 5 - REV 7/05

Ref. No	Part No.	Part Name	Q'ty
5- 1	22160-51501	CLUTCH DRUM ASSEMBLY	1
2	22131-98120	*RIM	1
3	22160-51530	*COVER	1
4	22100-51310	NEEDLE BEARING	1
53	72346-51202	CLUTCH ASSEMBLY	1
5	22160-51210	*CLUTCH BOSS A	1
6	72346-51220	*CLUTCH SHOE	3
7	72346-51311	*CLUTCH SPRING	3
8	22160-51240	*CLUTCH BOSS B	1
9	72316-54150	GUIDE PLATE C	1
10	72316-53310	SLIDE SCREW	1
11	72316-53320	SNAP RING	1
12	22150-52440	SLIDE PIECE	1
13	22160-52511	CHAIN CATCHER	1
14	22155-12190	BOLT	1
15	01611-05100	WASHER	1
54	69026-53010	CLUTCH COVER SUB ASSEMBLY	1
55	72346-54191	*CLUTCH COVER SUB ASSEMBLY	1
16	72346-54112	**CLUTCH COVER	1
17	72316-54160	**GUIDE PLATE D	1
18	01270-04082	**SCREW TAPPING	1
19	72316-54170	**PROTECTOR	1
56	39020-53320	*BRAKE BAND COMP	1
20	72345-54210	**BRAKE BAND	1
21	72316-54220	**HOLDER SPRING	1
24	72316-54310	**ADJUST PLATE	2
29	22173-54561	**INNER LEVER	1
30	72316-54570	**TIE STRAP	1
31	12492-40080	**ROLLER	2
22	17500-14002	*COIL SPRING	1

Ref. No	Part No.	Part Name	Q'ty
23	72316-54240	*STOPPER	1
25	72316-54520	*HOLDER	1
26	72316-54530	*NUT LEVER	1
27	01020-04120	*BOLT	1
28	12492-40140	*ROLLER	1
32	72316-54580	*SPRING LEVER	1
33	72316-54511	*LEVER	1
34	72316-54540	*PIN LEVER	1
35	02434-30060	*SNAP RING	1
36	72345-54611	*COVER	1
37	01270-04122	*SCREW TAPPING	2
38	22154-52410	NUT	2
39	22154-55110	GEAR	1
40	22154-55120	THRUST PLATE	1
41	22160-55200	OIL PUMP ASSEMBLY	1
42	22150-55411	GASKET PUMP	1
43	22160-55420	ELBOW	1
44	22155-55430	FILTER	1
45	11205-04160	SCREW PM	2
46	22160-55310	OIL PIPE	1
47	22169-57360	OIL FILTER	1
48	22100-57370	CRIP OIL FILTER	1
49	22160-56100	PUMP COVER SUB ASSEMBLY	1
50	22160-56150	SCREW PM SW	4
51	22160-52530	SPIKE	1
52	22157-15330	BOLT	2
57	19600-69900	CHAIN COVER	1
58	69026-91330	LABEL TRADE	1
59	19401-00093	LABEL INST	1

PISTON / CRANKSHAFT

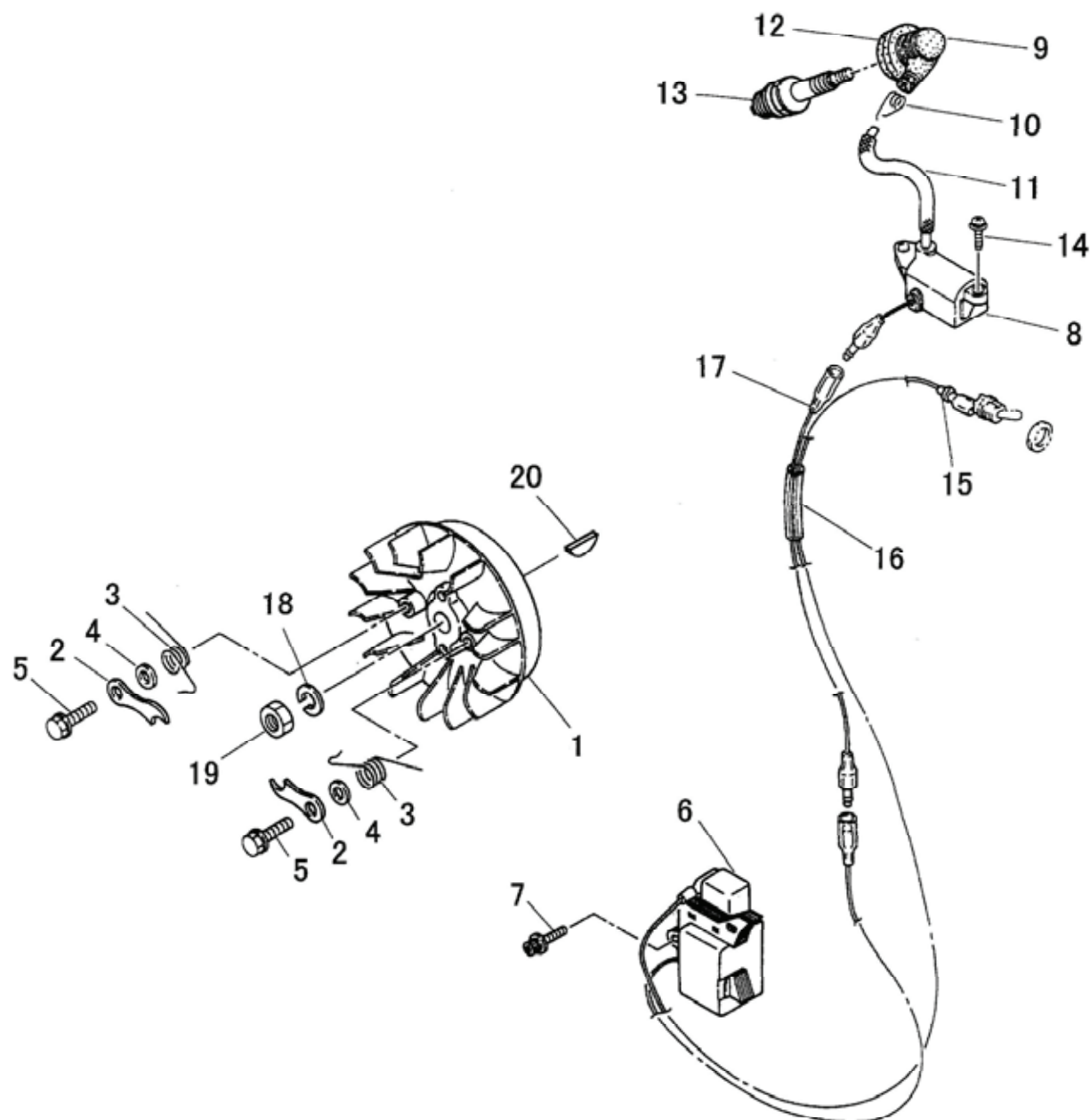
ILLUSTRATION 4 - REV 7/05



Ref. No	Part No.	Part Name	Q'ty
4- 8	72365-98011	PISTON SET	1
1	22157-41112	*PISTON	1
2	22157-41210	*PISTON RING	2
3	22157-41220	*PISTON PIN	1
4	22100-41230	*SNAP RING	2
5	22160-41240	*BEARING SE	1
7	22160-12121	*GASKET CYLINDER	1
6	22160-42002	CRANKSHAFT	1

ROTOR / IGNITION COIL

ILLUSTRATION 6 - REV 7/05



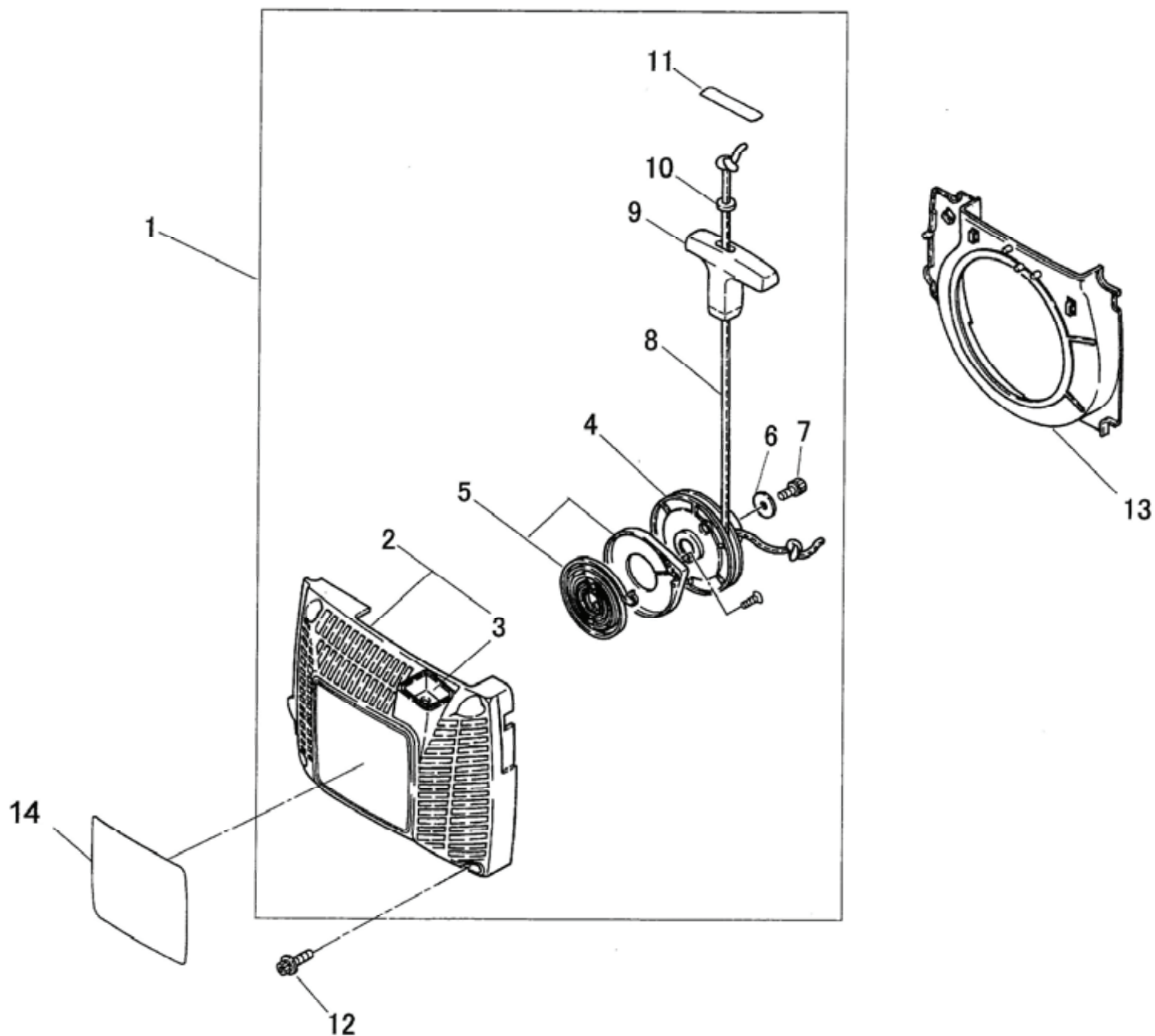
Ref. No	Part No.	Part Name	Q'ty
6- 1	22160-71110	ROTOR	1
2	22100-71410	RATCHET	2
3	22100-71420	SPRING RATCHET	2
4	22100-71430	WASHER	2
5	22140-71440	BOLT	2
6	22160-71511	EXCITE COIL	1
7	11024-04200	BOLT SW	2
8	22160-71702	IGNITION COIL	1
9	22160-72220	PLUG CAP	1
10	22154-72230	SPRING PLUG	1
11	22160-72240	TUBE	1

Ref. No	Part No.	Part Name	Q'ty
12	22160-72260	SEAL CAP	1
13	13000-13507	SPARKPLUG BPMR7A	1
14	11205-04160	SCREW PM	2
15	22160-71520	CORD	1
16	22160-71530	TUBE	1
17	22160-71750	CORD	1
18	01600-08201	SPRING WASHER	1
19	22100-43231	NUT	1
20	02403-03100	KEY	1

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RECOIL STARTER

ILLUSTRATION 7 - REV 7/05

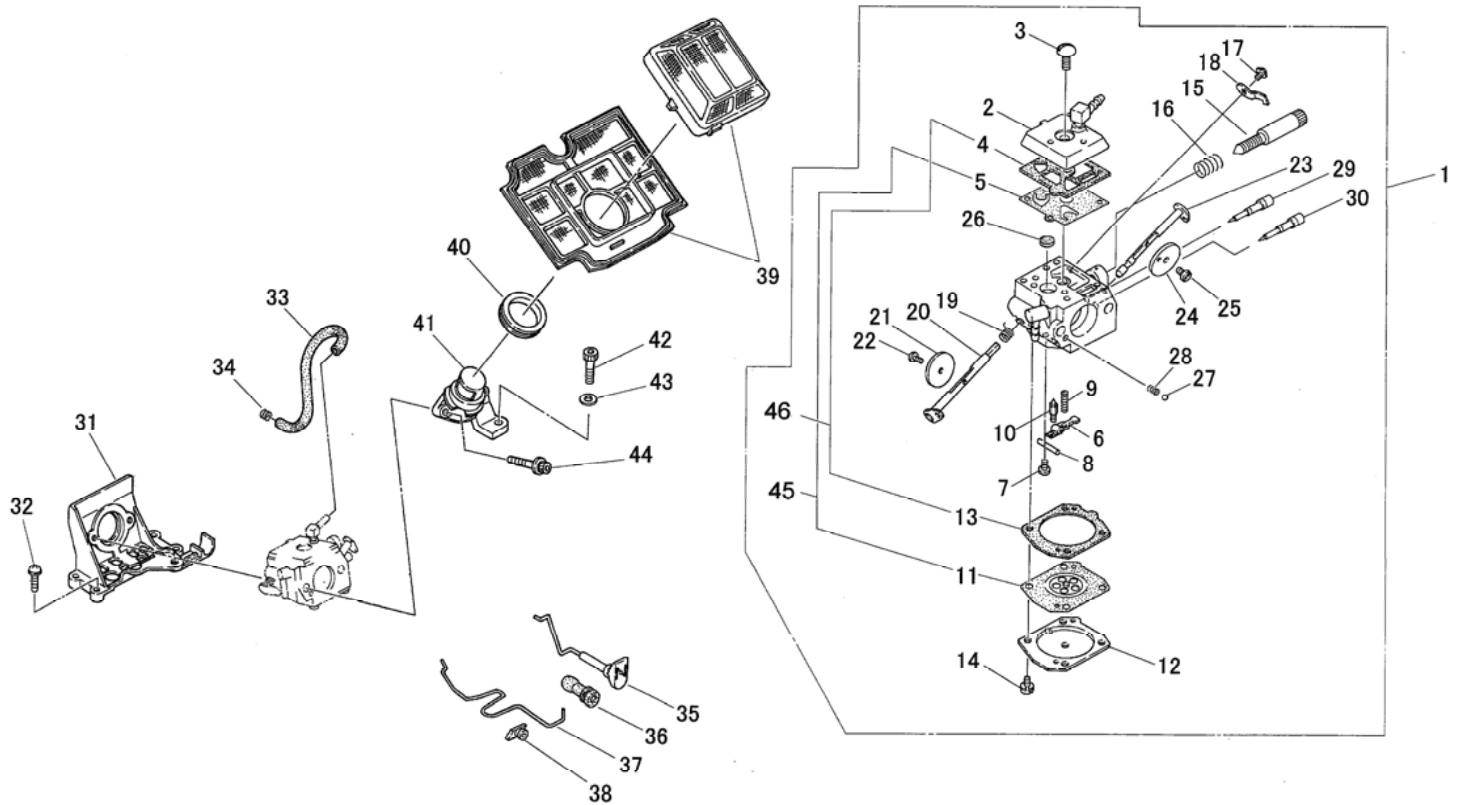


Ref. No	Part No.	Part Name	Q'ty
7- 1	22160-75100	RECOIL STARTER SUB ASSEMBLY	1
2	22160-75210	*RECOIL CASE	1
3	22160-75220	**ROPE GUIDE	1
4	22160-75310	*REEL	1
5	22160-75410	*RECOIL SPRING	1
6	22160-75450	*WASHER	1
7	01020-05120	*BOLT	1

Ref. No	Part No.	Part Name	Q'ty
8	22160-75510	*ROPE	1
9	22150-75520	*KNOB RECOIL	1
10	22150-75530	*STOPPER KNOB	1
11	20010-75230	*TAPE	1
12	11060-04163	BOLT ADHESIVE	4
13	22160-75612	AIR PLATE	1
14	69026-91320	LABEL TRADE	1

CARBURETOR / AIR CLEANER

ILLUSTRATION 8 - REV 7/05



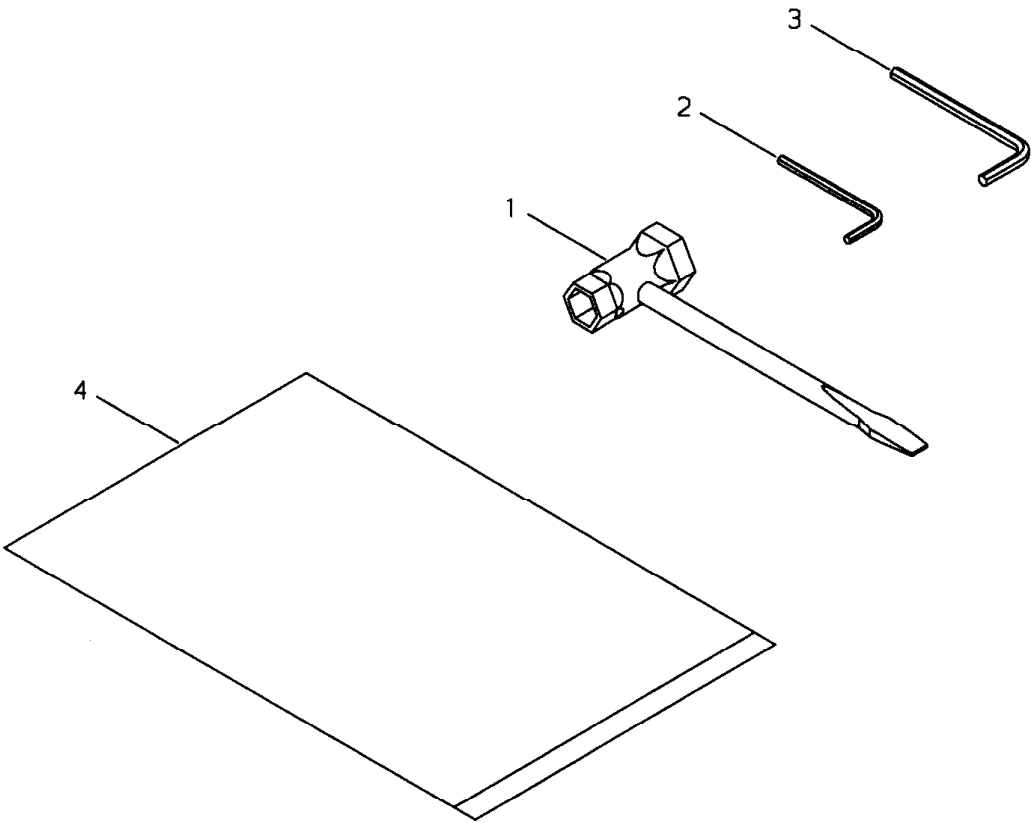
Ref. No	Part No.	Part Name	Q'ty
8- 1	69026-81010	CARBURETOR ASSEMBLY	1
2	72365-81120	*PUMP COVER ASSEMBLY	1
3	22100-81130	*SCREW	1
46	22150-81930	*GASKET KIT	1
4	22150-81140	**GASKET PUMP	1
13	22150-81290	**GASKET DIAPHRAGM	1
45	22150-81940	*DIAPHRAGM KIT	1
5	22150-81150	**DIAPHRAGM PUMP	1
11	22150-81260	**DIAPHRAGM ASSEMBLY	1
6	22160-81230	*LEVER	1
7	22100-81240	*SCREW	1
8	22100-81250	*PIN	1
9	72342-81270	*SPRING LEVER	1
10	20036-81440	*NEEDLE VALVE	1
12	22150-81280	*COVER DIAPHRAGM	1
14	22100-81351	*SCREW	4
15	22156-81410	*IDLE SCREW	1
16	22156-81420	*SPRING IDLE	1
17	20803-81150	*SCREW ASSEMBLY	1
18	22160-81390	*STOPPER	1
19	22150-81430	*RETURN SPRING	1
20	22160-81371	*SHAFT ASSEMBLY	1
21	22100-81340	*THROTTLE VALVE	1

Ref. No	Part No.	Part Name	Q'ty
22	20803-81140	*SCREW ASSEMBLY	1
23	22160-81740	*SHAFT ASSEMBLY	1
24	22160-81710	*CHOKE VALVE	1
25	20803-81150	*SCREW ASSEMBLY	1
26	70030-81380	*SCREEN	1
27	22150-81720	*BALL	1
28	22150-81730	*SPRING	1
29	69026-81320	*NEEDLE	1
30	69026-81330	*NEEDLE	1
31	22160-82111	MOUNT	1
32	11024-04160	BOLT SLPW	4
33	22160-82210	PULSE PIPE	1
34	22150-82140	CLIP PULSE	1
35	22160-82311	CHOKE ROD	1
36	22160-82321	GROMMET CHOKE	1
37	22160-82353	THROTTLE ROD	1
38	22160-82360	GROMMET ROD	1
39	22173-82401	AIR CLEANER COMP	1
40	22157-82431	GROMMET CLEANER	1
41	22157-82451	ELBOW CARBURETOR	1
42	22157-12130	BOLT	1
43	01613-05080	WASHER	1
44	11022-05500	BOLT SPW	2

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TOOL SET

ILLUSTRATION 9 - REV 7/05



Ref. No	Part No.	Part Name	Q'ty
9- 1	22000-91181	PLUG WRENCH	1
2	09026-03001	HEXA WRENCH 4MM	1
3	09026-04001	HEXA WRENCH 5MM	1
4	19639-01100	POLY BAG	1

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shindaiwa

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