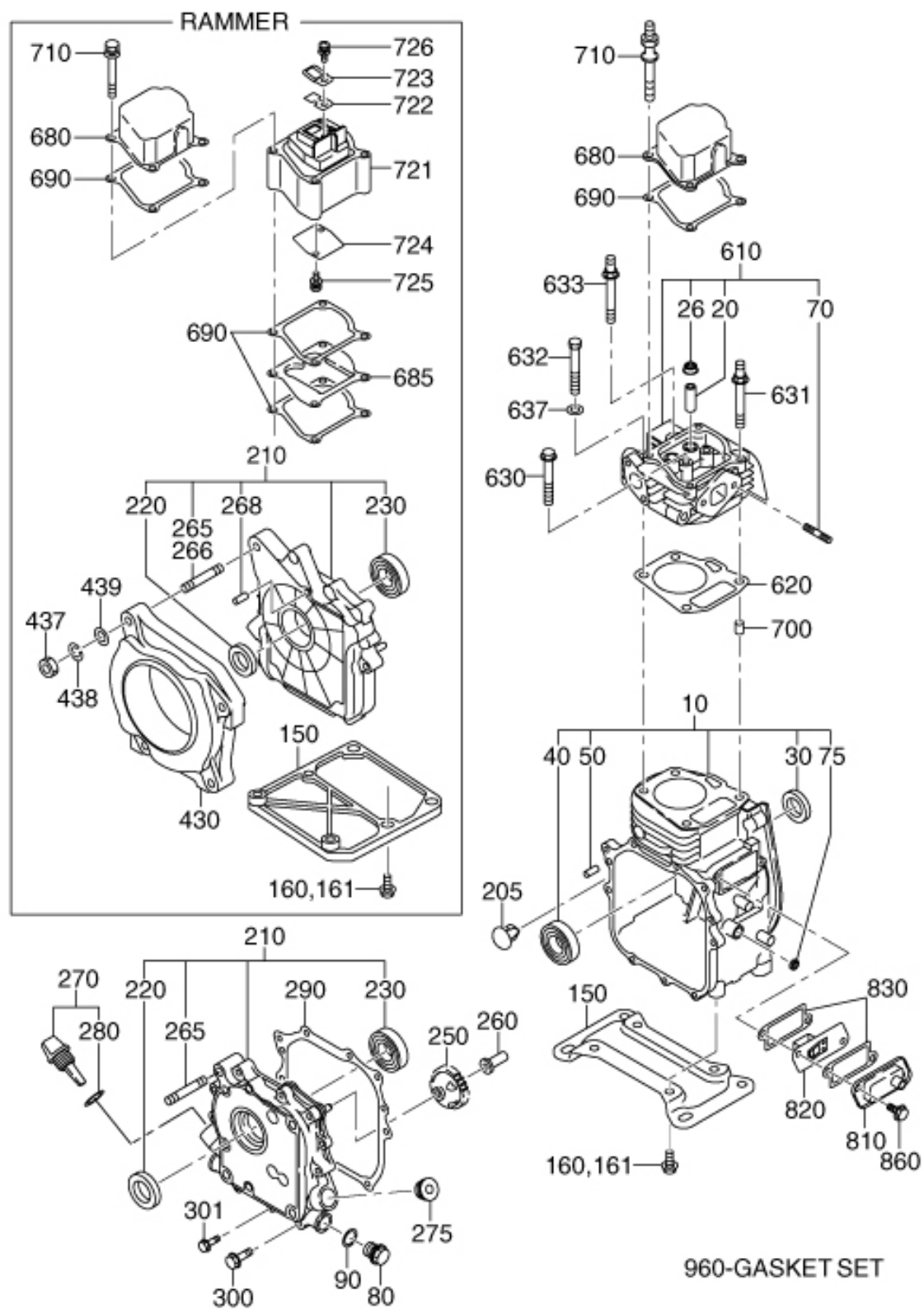


1 CRANKCASE GROUP

FIG. 100

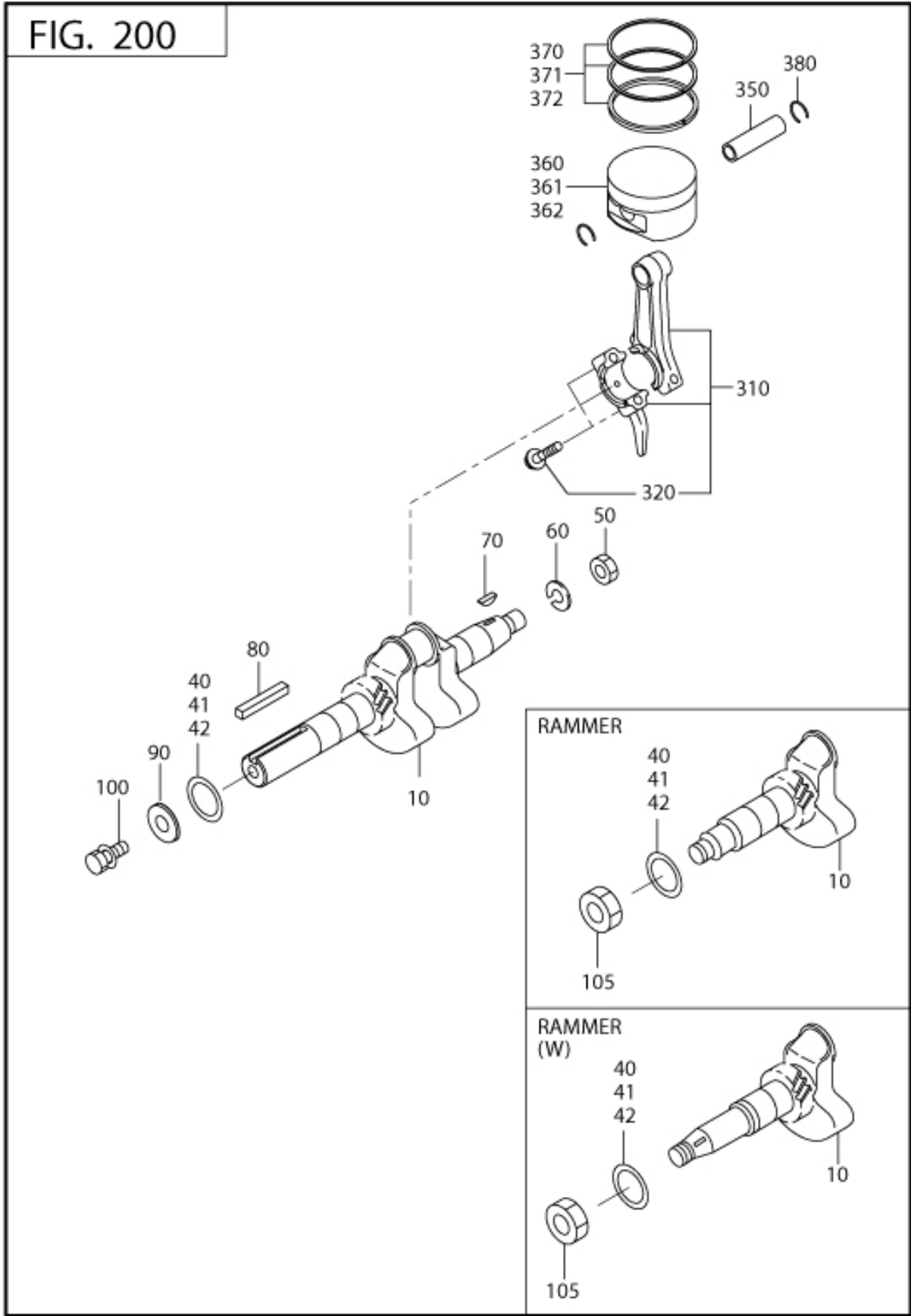


REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
10	20F-10105-21	CRANKCASE CP	8706-	1		
	20F-10105-11	CRANKCASE CP	8218-8705	1		20F-10105-21
	20F-10105-01	CRANKCASE CP	7731-8217	1		20F-10105-11
	284-10105-01	CRANKCASE CP	-7730	1	RAMMER	20F-10105-01
20	237-14202-03	VALVE GUIDE	-	2	5. 5DX9. 5DX27L	
26	20F-16010-01	STEM SEAL	7731-	1		277-16010-01
	277-16010-01	STEM SEAL	-7730	1	5. 5DX9. 5DX15DX7. 8B	
30	044-02000-70	OIL SEAL	8706-	1	20DX32DX6B	
	20F-02000-70	OIL SEAL	7731-8705	1		044-02000-70
	044-02000-70	OIL SEAL	-7730	1	20DX32DX6B	
40	060-02001-40	BALL BEARING	-	1	20DX42DX12B	
50	20F-00600-23	DOWEL PIN	7731-	2	6DX14. 8L	031-00600-20
	031-00600-20	DOWEL PIN	-7730	2	6DX14. 5L	
75	20F-00600-20	OIL SEAL	7731-	1	6DX10DX2. 5B	044-00600-20
	044-00600-20	OIL SEAL 6X10X2.5	-7730	1		
80	20F-11400-30	PLUG	7731-	1	14DX12L	040-11400-30
	040-11400-30	PLUG	-7730	1	M14X1. 5X20DX12L	
90	X21-11400-20	GASKET	7823-	1	14DX18. 8DX3. 4T	021-11400-20
	021-11400-20	GASKET	-7822	1	14. 1DX19DX2. 3T	
210	20F-11101-41	MAINBEARING COVER CP	8706-	1		
	20F-11101-31	MAINBEARING COVER CP	7731-8705	1		20F-11101-41
	284-11101-31	MAINBEARING COVER CP	-7730	1	RAMMER	20F-11101-31
220	044-02001-10	OIL SEAL	8706-	1	20DX32DX6B	
	20F-02001-10	OIL SEAL	7731-8705	1		044-02001-10
	044-02001-10	OIL SEAL	-7730	1	20DX32DX6B	
230	060-02001-40	BALL BEARING	-	1	20DX42DX12B	
250	230-45003-01	GOVERNOR GEAR CP	-	1	44DX20T N=26	
260	205-41901-03	GOVERNOR SLEEVE	-	1	6DX9DX16DX26L	
265	001-39085-00	STUD	8706-	4		

REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
	20F-39085-00	STUD	7853-8705	4		001-39085-00
	001-39085-00	STUD	-7852	4		
268	031-00600-20	DOWEL PIN	-	2	6DX14. 5L	
270	20F-63601-11	OIL GAUGE CP	7731-	1		
	230-63601-11	OIL GAUGE CP	-7730	1	M18X1. 5 L=38+18	20F-63601-11
280	X21-31600-30	GASKET	7823-	1	16DX23DX1. 2T RUBBER	021-31600-20
	021-31600-20	GASKET	-7822	1	16DX23DX1. 2T RUBBER	
300	20F-00602-00	BOLT AND WASHER AY	7853-	9	M6X1. 0X30L	013-00602-00
	013-00602-00	BOLT AND WASHER AY	-7852	9	M6X1. 0X30L W/SW	
610	20F-13002-20	CYLINDER HEAD AY	8798-	1		
	20F-13002-10	CYLINDER HEAD AY	7731-8797	1		20F-13002-20
	284-13002-10	CYLINDER HEAD AY	-7730	1		20F-13002-10
620	284-15001-13	GASKET (HEAD)	-	1	T=0. 2	284-15001-H3
630	20F-00802-10	FLANGE BOLT	7853-	2		
	011-00802-10	FLANGE BOLT	-7852	2	M8X1. 25X16DX55L	20F-00802-10
631	20F-00804-10	BOLT	7853-	2		010-00804-10
	010-00804-10	BOLT	-7852	2		
680	20F-15502-03	ROCKER COVER	7792-	1		
	284-15502-03	ROCKER COVER	-7791	1		20F-15502-03
685	20F-14502-03	OIL SHELTER PLATE 2	7792-	1		
	284-14502-03	OIL SHELTER PLATE 2	-7791	1		20F-14502-03
690	284-16007-03	GASKET(ROCKER COVER)	8857-	3	T=0. 5	
	284-16007-03	GASKET(ROCKER COVER)	-8766	4	T=0. 5	
700	20F-15011-03	PIPE KNOCK	7731-	2		277-15011-03
	277-15011-03	PIPE KNOCK	-7730	2	10. 3DX8. 5DX14L	
710	011-00604-00	FLANGE BOLT	-	4	M6X1. 0X11DX75L	
721	284-15602-13	BREATHER PLATE	8857-	1		20F-15602-13
	284-15602-03	BREATHER PLATE	-8856	1		284-15602-13

REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
722	284-16001-03	LEAF VALVE	-	1		
723	284-16002-03	RETAINER PLATE	-	1		
724	284-14501-03	OIL SHELTER PLATE1	-	1		
725	013-10500-20	SCREW & WASHER AY	-	2	M5X0.8X10L W/W, SW	
726	013-10500-20	SCREW & WASHER AY	-	1	M5X0.8X10L W/W, SW	
810	20F-17001-03	COVER(CASE)	7853-	1		
	284-17001-03	COVER(CASE)	-7852	1		
830	230-16006-13	GASKET(TAPPET COVER)	-	1	T=0.8	284-16008-03
860	20F-14061-60	BOLT AND WASHER AY	7792-	2		001-14061-60
	001-14061-60	BOLT AND WASHER AY	-7791	2	M6X1.0X16L W/W, SW	
960	284-99001-17	GASKET SET	-	1		284-99001-27

2 CRANKSHAFT PISTON

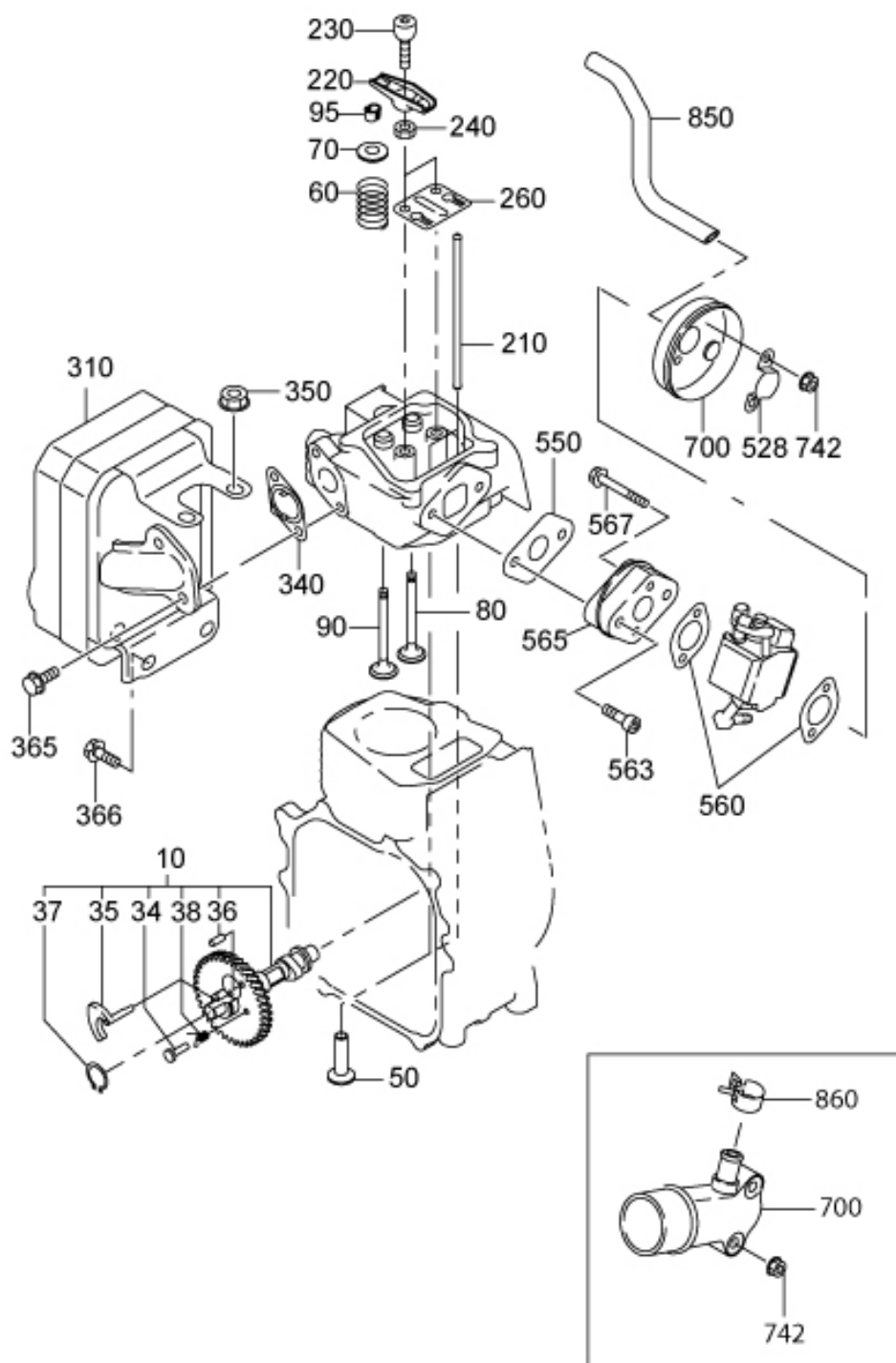


REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
10	20F-20401-01	CRANKSHAFT CP	7762-	1		
	284-20401-01	CRANKSHAFT CP	-7761	1	L=227 15DX1/5TA+M10L	20F-20401-01
40	20F-02001-00	SPACER	7823-	1	20. 5X28X0. 8	023-02001-00
	023-02001-00	SPACER	-7822	1	20. 5DX28DX0. 8T	
41	20F-02001-90	SPACER	7823-	1	20. 5X28X1. 0	023-02001-10
	023-02001-10	SPACER	-7822	1	20. 5DX28DX1. 0T	
42	20F-02001-20	SPACER	7823-	1	20. 5X28X1. 2	023-02001-20
	023-02001-20	SPACER	-7822	1	20. 5DX28DX1. 2T	
50	20F-18140-00	NUT	7823-	1		002-18140-00
	002-18140-00	NUT	-7822	1		
60	003-20140-00	SPRING WASHER	-	1	14. 2DX24. 5DX3. 5T	
70	005-32031-01	WOODRUFF KEY	-	1		
310	20F-22501-30	CONNECTING ROD AY	8310-	1		
	284-22501-30	CONNECTING ROD AY	-8309	1	66CDX18B 21D-11D	20F-22501-30
320	20F-23001-03	CONNECTING ROD BOLT	8310-	2	M5X0. 8X25. 0L	
	284-23001-03	CONNECTING ROD BOLT	-8309	2	M5X0. 8X11DX25L	20F-23001-03
350	20F-23301-03	PISTON PIN	7823-	1	8DX11DX40L	
	230-23301-03	PISTON PIN	-7822	1	11DX8DX40L	20F-23301-03
360	20F-23401-H3	PISTON	7792-	1	STD	
	284-23401-H3	PISTON	-7791	1	STD (51DX31H)	20F-23401-H3
361	20F-23402-H3	PISTON	7792-	1		
	284-23402-H3	PISTON	-7791	1	0. 25 0. S. (51DX31H)	20F-23402-H3
362	20F-23403-H3	PISTON	7792-	1		
	284-23403-H3	PISTON	-7791	1	0. 50 0. S. (51DX31H)	20F-23403-H3
370	20F-23511-07	PISTON RING SET	7823-	1		
	284-23501-07	PISTON RING SET	-7822	1	STD (51D)	
371	20F-23512-07	PISTON RING SET	7823-	1		284-23512-07
	284-23502-07	PISTON RING SET	-7822	1		
372	20F-23513-07	PISTON RING SET	7823-	1		284-23513-07
	284-23503-07	PISTON RING SET	-7822	1		

REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
380	056-51100-10	CLIP	-	2	12DX1D	

3 INTAKE EXHAUST

FIG. 303

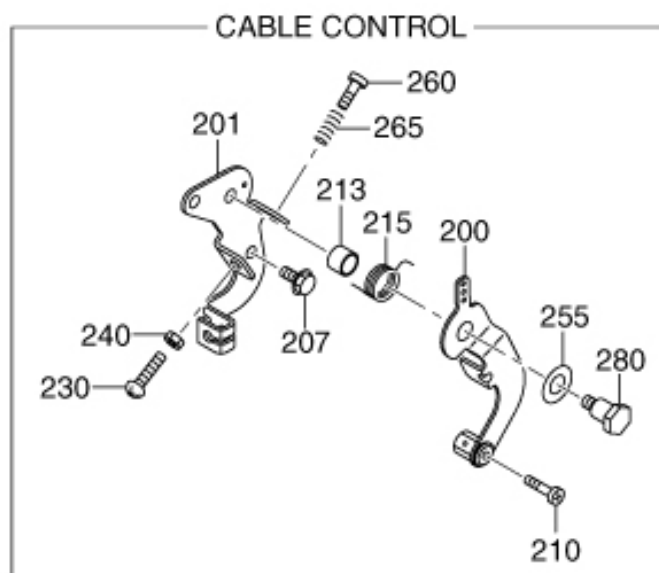
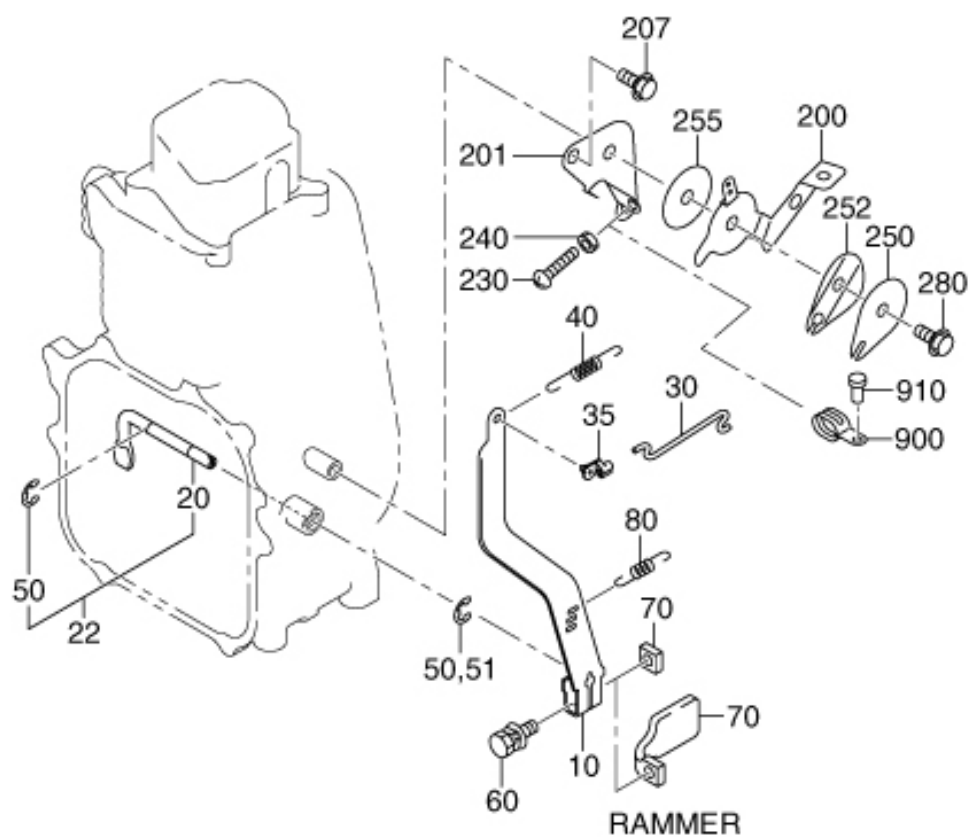


REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
10	20F-31702-11	CAMSHAFT CP	7731-	1		20F-31702-21
	284-31702-11	CAMSHAFT CP	-7730	1	L=92 63DX6. 6B N=38	20F-31702-11
34	20F-38601-23	PIN (SPRING)	7731-	1		227-38601-23
	227-38601-23	PIN(SPRING)	-7730	1	3. 8DX7. 5DX14L	
35	20F-36401-03	RELEASE LEVER	7731-	1		
	284-36401-03	RELEASE LEVER	-7730	1		
36	20F-19041-00	SPRING PIN	7731-	1		005-19041-00
	005-19041-00	SPRING PIN	-7730	1	4. 4DX10LX0. 8T	
37	20F-15170-00	SNAP RING OUT	7731-	1		
	003-15170-00	SNAP RING OUTER	-7730	1		
38	20F-38701-23	RETURN SPRING	7731-	1		
	274-38701-23	RETURN SPRING	-7730	1	5DX0. 5DX5. 2L N=9. 7	
50	20F-33301-03	TAPPET	7762-	2		274-33301-03
	274-33301-03	TAPPET	-7761	2	17DX8DX32L	
60	20F-33601-03	VALVE SPRING	8037-	2		
	274-33601-03	VALVE SPRING	-8036	2	17. 1DX2DX26. 7L N=5. 5	20F-33601-03
70	20F-33702-03	SPRING RETAINER	7762-	2		20F-33712-03
	274-33702-03	SPRING RETAINER	-7761	2		20F-33702-03
80	20F-33401-03	INTAKE VALVE	7762-	1		20F-33411-03
	274-33401-03	INTAKE VALVE	-7761	1	21DX5. 5DX63. 6L	20F-33401-03
90	20F-33501-03	EXHAUST VALVE	7762-	1		
	274-33501-03	EXHAUST VALVE	-7761	1	18DX5. 5DX63. 6L	20F-33501-03
95	20F-10KA0-31	COLLET-VALVE	7853-	4		20F-35501-03
	132-10KA0-31	COLLET-VALVE	-7852	4		
210	20F-35301-03	PUSH ROD	7762-	2		
	274-35301-03	PUSH ROD	-7761	2	4DX121. 6L	20F-35301-03
220	20F-36001-13	ROCKER ARM	7823-	2		
	284-36001-13	ROCKER ARM	-7822	2		20F-36001-13
230	269-35802-03	BOLT (PIVOT)	8402-	2		
	269-35801-03	BOLT (PIVOT)	-8401	2	M6X0. 75X19L SOCKET H	269-35802-03
240	017-00600-90	NUT	-	2	M6X0. 75X5. 1H	
260	20F-36501-03	GUIDE PLATE	7762-	1		
	274-36501-03	GUIDE PLATE	-7761	1		20F-36501-03
310	20F-30106-01	MUFFLER CP	8553-	1		
	284-30106-01	MUFFLER CP	-8552	1		20F-30106-01

REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
340	284-35201-03	GASKET (EXHAUST)	-	1	T=0.2	
350	20F-38080-00	FLANGE NUT	7823-	2		002-38080-00
	002-38080-00	FLANGE NUT	-7822	2	M8X1.25X17DX7.5H	
365	011-00604-60	FLANGE BOLT	-	2	M6X1.0X13DX14L	
366	20F-14081-60	BOLT AND WASHER AY	7731-	2		001-14081-60
	001-14081-60	BOLT AND WASHER AY	-7730	2	M8X1.25X16L W/W, SW	
550	284-36501-03	GASKET (INTAKE)	-	1	T=0.5	
560	106-65002-03	GASKET (CARB.)	-	2	T=0.3 20D 5.5DX31P	
563	011-90600-90	BOLT (SOCKET HEAD)	-	2	M6X1.0X20L	
565	284-33101-03	INTAKE FLANGE	-	1		
567	010-00501-10	BOLT	-	2		
700	284-38101-03	INTAKE PIPE	-	1		
742	017-60500-10	SELF LOCK NUT	-	2	M5X0.8X11DX6H	
850	20F-16103-01	RUBBER PIPE	8157-	1		
	284-16103-13	N_RUBBER PIPE	8127-8156	1		284-16103-23
	284-16103-03	RUBBER PIPE	-8126	1	8DX11D FORMED	284-16103-13
860	056-11200-40	HOSE CLAMP	-	1	12DX8BX0.8T	

4 GOVERNOR OPERATION

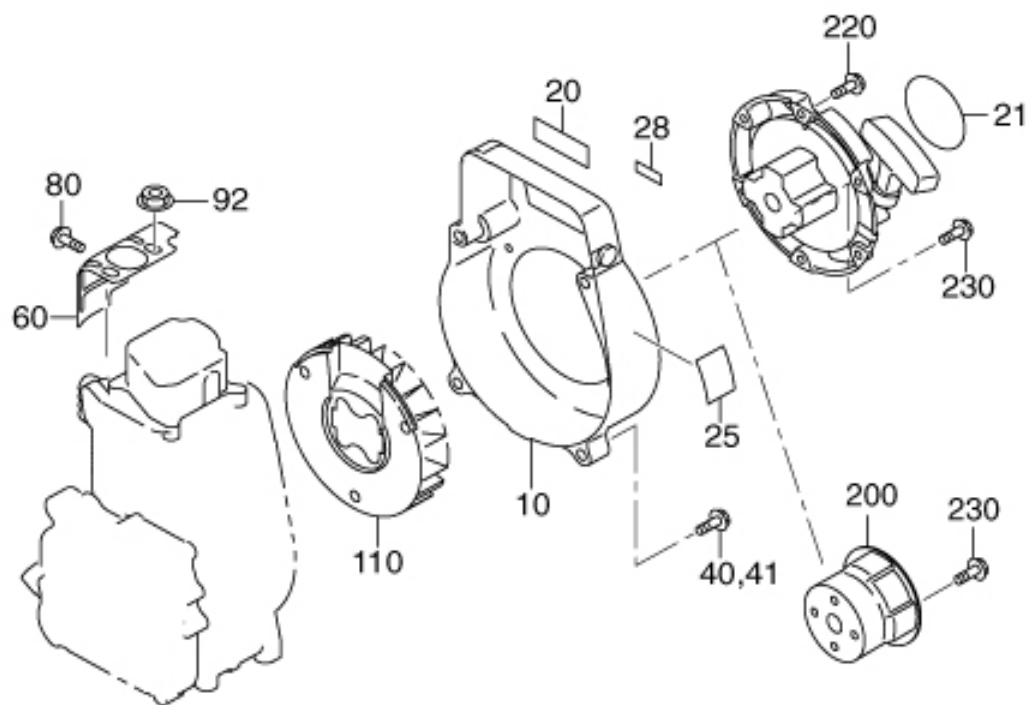
FIG. 400



REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
10	284-42304-03	GOVERNOR LEVER	-	1		284-42304-H3
20	20F-42201-13	GOVERNOR SHAFT	7762-	1		230-42201-13
	230-42201-13	GOVERNOR SHAFT	-7761	1		230-42201-11
30	284-42701-01	GOVERNOR ROD	-	1		
35	284-45601-03	LINKAGE BUSHING	-	1		
40	293-42801-03	ROD SPRING	-	1	7DX0. 5DX30L N=15. 8	
50	003-13050-00	CLIP	-	2	5DX11DX0. 6T	
60	20F-14063-00	BOLT AND WASHER AY	7792-	1		001-14063-00
	001-14063-00	BOLT AND WASHER AY	-7791	1	M6X1. 0X30L W/W, SW	
70	20F-49002-01	WEIGHT CP	7792-	1		
	284-49002-01	WEIGHT CP	-7791	1		20F-49002-01
80	284-42501-13	GOVERNOR SPRING	-	1	6. 9DX0. 9DX39L N=11	
200	230-43302-10	SPEED CONTROL AY	-	1		
201	284-45101-01	BASE PLATE CP	-	1		
207	20F-00600-10	FLANGE BOLT	7853-	2	M6X1. 0X8L	011-00600-10
	011-00600-10	FLANGE BOLT	-7852	2	M6X1. 0X14DX8L	
210	004-31041-40	SCREW,PANHEAD	-	1	M4X0. 7X14L	
213	023-01000-40	SPACER	-	1	10. 2DX12. 2DX9T	
215	226-45003-13	RETURN SPRING	-	1	15. 5DX1. 6DX9L N=4. 5	
230	20F-31063-00	SCREW	7731-	1		004-31063-00
	004-31063-00	SCREW	-7730	1	M6X1. 0X30L	
240	20F-27060-00	NUT	7731-	1		002-27060-00
	002-27060-00	NUT	-7730	1	M6X1. 0X3. 6H	
255	021-71000-20	FRICTION WASHER	-	1	10. 5DX20DX0. 4T NYLON	
260	004-31041-60	SCREW PANHEAD	-	1	M4X0. 7X16L	
265	20F-45001-13	CONTROL SPRING	7792-	1		268-45001-13
	268-45001-13	CONTROL SPRING	-7791	1	5. 3DX0. 8DX14. 5L N=7	
280	226-43103-01	LINK PIVOT CP	-	1		

5 COOLING STARTING

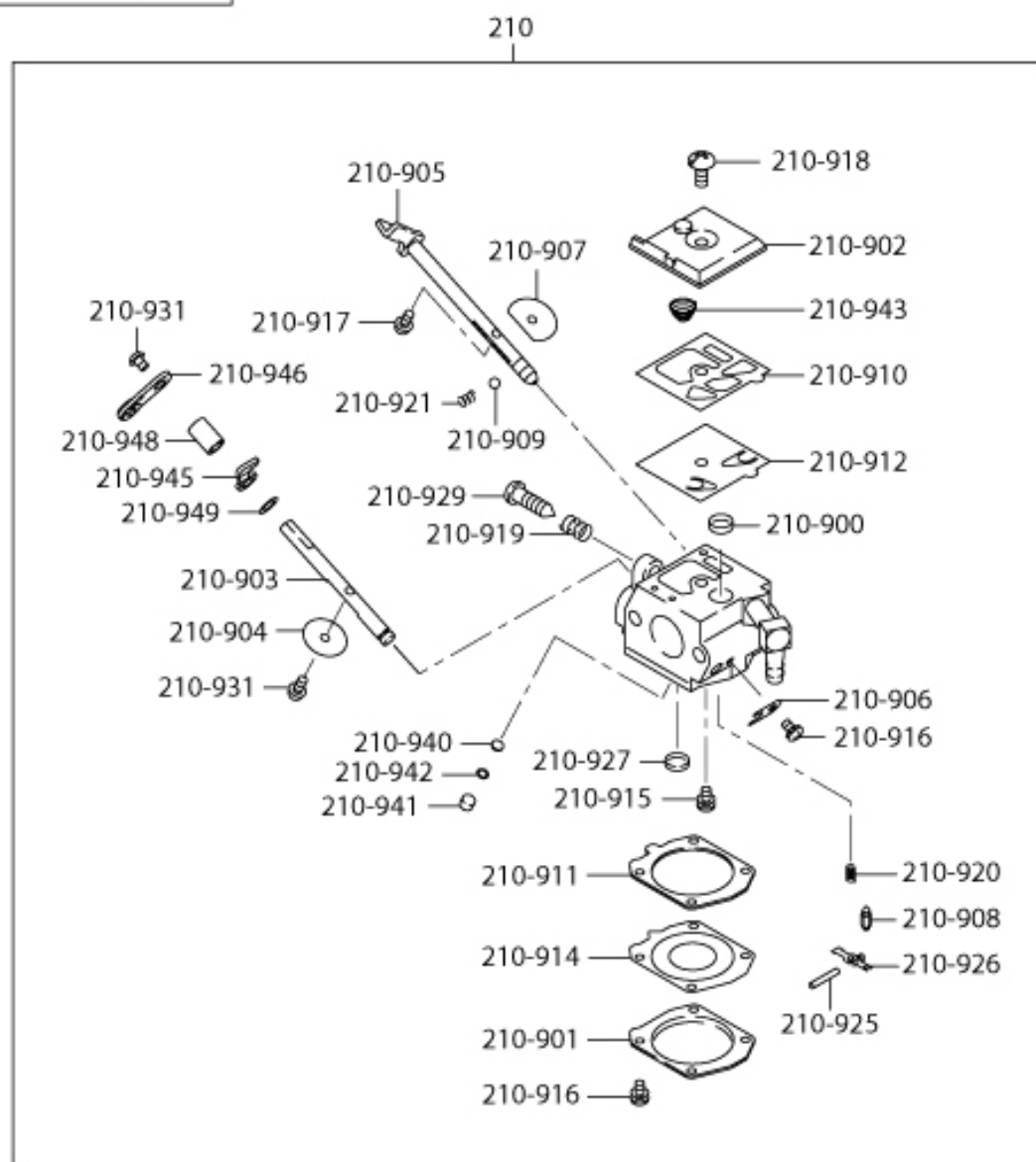
FIG. 500



REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
10	20F-51103-03	BLOWER HOUSING	8127-	1		
	284-51103-03	BLOWER HOUSING	-8126	1		20F-51103-03
40	20F-04083-50	FLANGE BOLT	7823-	4		001-04083-50
	001-04083-50	FLANGE BOLT	-7822	4	M8X1. 25X16DX35L	
60	20F-52601-01	CYLINDER BAFFLE CP	7823-	1		
	284-52601-23	CYLINDER BAFFLE	-7822	1		
80	20F-00600-10	FLANGE BOLT	7853-	1	M6X1. 0X8L	011-00600-10
	011-00600-10	FLANGE BOLT	-7852	1	M6X1. 0X14DX8L	
110	20F-54101-03	COOLING BLOWER	8096-	1		
	284-54101-03	COOLING BLOWER	-8095	1		
200	20F-55101-01	PULLY CP	8037-	1		
	284-55101-01	PULLY CP	-8036	1		20F-55101-01
220	20F-00600-10	FLANGE BOLT	7853-	3	M6X1. 0X8L	011-00600-10
	011-00600-10	FLANGE BOLT	-7852	3	M6X1. 0X14DX8L	
230	20F-00600-21	FLANGE BOLT	7853-	4	M6X1. 0X12L	011-00600-20
	011-00600-20	FLANGE BOLT	-7852	4	M6X1. 0X14DX12L	

6 FUEL LUBRICANT

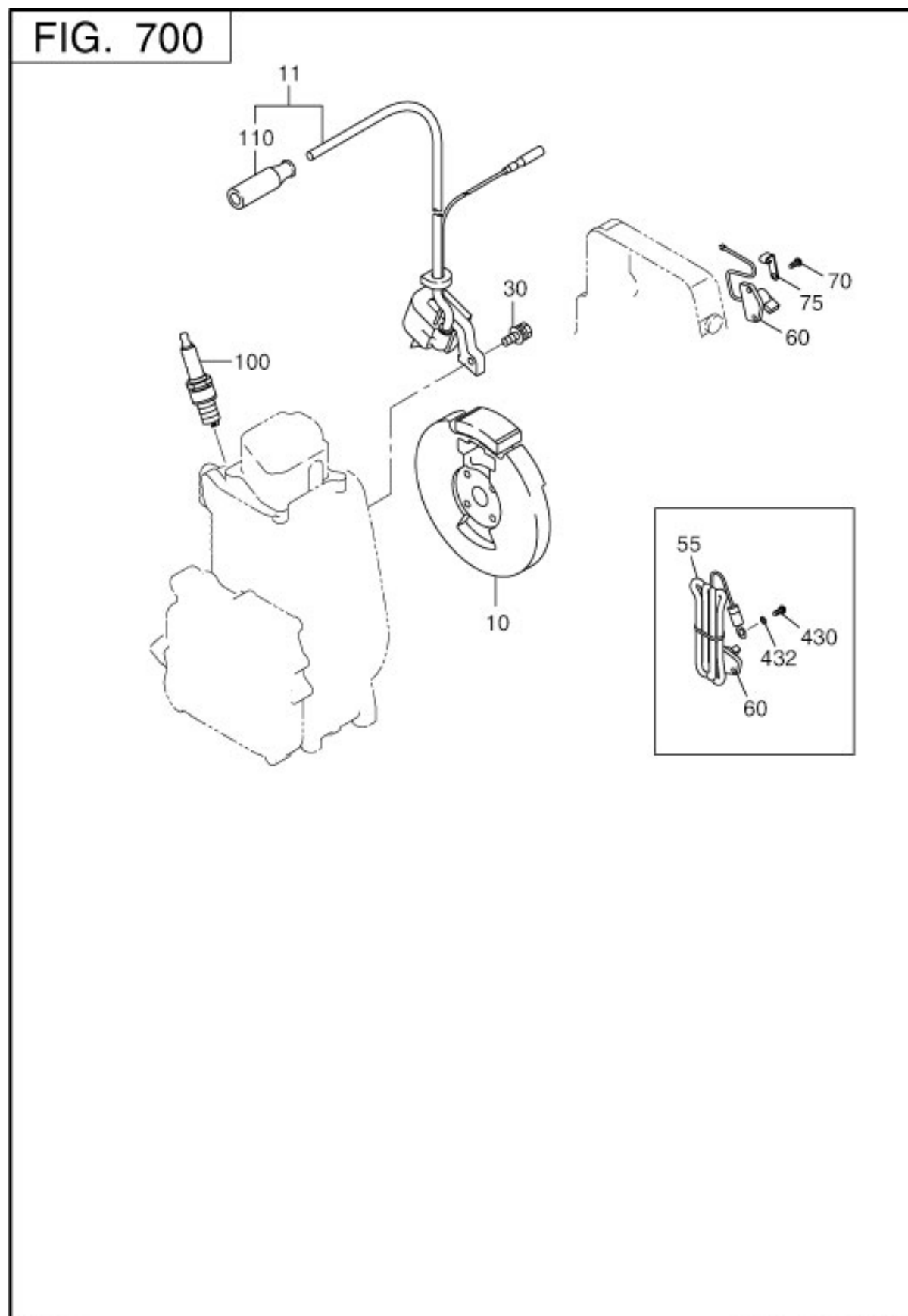
FIG. 645



REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
210	284-62404-00	CARBURETOR AY	-	1	DIAPHRAGM	
-900	501-60040-10	SCREEN-INLET	-	1		352010-6
-901	284-62605-08	COVER-METERING DIAPH	-	1		
-902	252-62604-08	COVER-PUMP	-	1		
-903	252-62612-08	SHAFT-THROTTLE	-	1		
-904	161-62335-08	VALVE-THROTTLE	-	1		
-905	284-62603-08	SHAFT ASSY-CHOKE	-	1		
-906	510-60450-40	CLIP-THROTTLE SHAFT	-	1		
-907	284-62604-08	VALVE-CHOKE	-	1		
-908	161-62552-08	VALVE,INLET NEEDLE	-	1		
-909	147-62584-08	BALL	-	1		
-910	161-62380-08	GASKET,PUMP	-	1		
-911	161-62381-08	GASKET,METERING DIA.	-	1		
-912	252-62610-08	DIAPHRAGM-PUMP	-	1		
-914	161-62383-08	DIAPHRAGM AY,METERIN	-	1		
-915	106-62575-08	SCREW	-	1		
-916	106-62576-08	SCREW AY	-	5		
-917	147-62573-08	SCREW-VALVE	-	1		
-918	284-62600-08	SCREW	-	1		
-919	161-62454-08	SPRING	-	1		
-920	161-62451-08	SPRING,METERING LEVE	-	1		
-921	147-62583-08	SPRING-CHOKE	-	1		
-925	161-62368-08	PIN,METERING LEVER	-	1		
-926	161-62369-08	LEVER,METERING	-	1		
-927	147-62575-08	PLUG-WELCH	-	1		
-929	161-62385-08	SCREW,IDLE ADJ.	-	1		
-931	161-62553-08	SCREW	-	2		
-940	147-62589-08	SCREEN-CHECK VALVE	-	1		
-941	147-62587-08	PLUG-CUP	-	1		

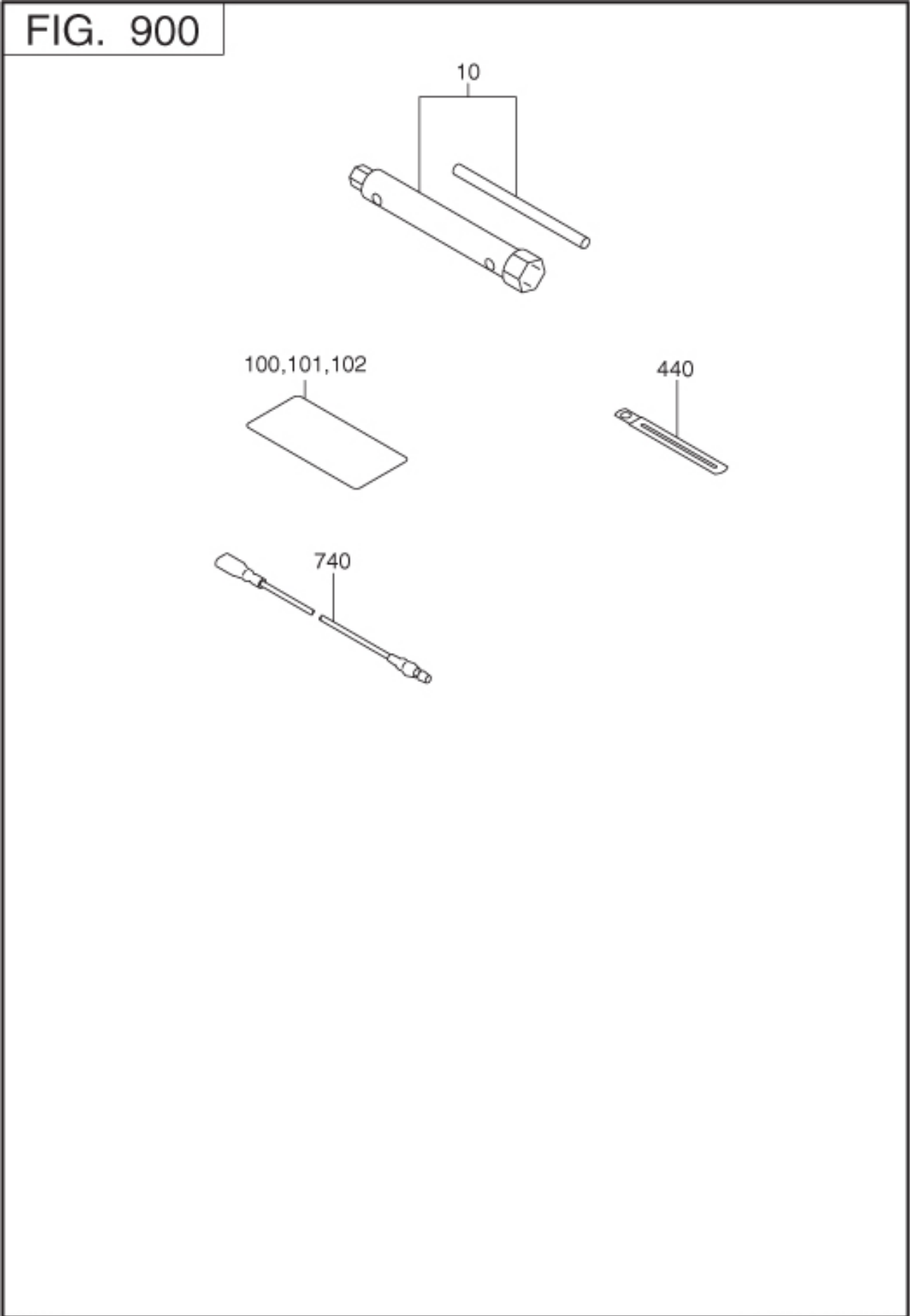
REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
-942	147-62588-08	RING-SCREEN RETAININ	-	1		
-943	252-62611-08	SPRING-PUMP	-	1		
-945	161-62551-08	STOP-THROTTLE	-	1		
-946	293-62605-08	LEVER ASSY-THROTTLE	-	1		
-948	252-62602-08	SPACER-THROTTLE LEVE	-	1		
-949	252-62601-08	WASHER	-	1		

7 ELECTRIC DEVICE



REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
10	20F-79330-21	FLY WHEEL CP	8096-	1		20G-79330-01
	284-79330-21	FLY WHEEL CP	-8095	1	MARK AP08	
11	20F-79430-21	IGNITION COIL CP	8096-	1		20F-79430-31
	284-79430-21	IGNITION COIL CP	-8095	1	MARK AH	284-79430-31
30	20F-17062-50	BOLT & WASHER AY	7853-	2		001-17062-50
	001-17062-50	BOLT & WASHER AY	-7852	2		
60	20F-00004-81	SWITCH AY	8249-	1		066-00004-81
	20F-00004-80	SWITCH AY	8068-8248	1		20F-00004-81
	066-00004-80	SWITCH AY	-8067	1		066-00004-81
70	20F-35041-20	SCREW AND WASHER AY	7853-	2		004-35041-20
	004-35041-20	SCREW AND WASHER AY	-7852	2	M4X0. 7X12L W/SW	
75	056-60300-10	CLAMP	-	1	3. 5DXM4X8BX0. 8T	
100	065-01403-80	SPARK PLUG	-	1	NGK BMR4A	
110	284-75102-03	SPARK PLUG CAP	-	1		

9 ACCESSORIES LABEL



REF.	PART NUMBER	PART NAME	CODE NO.	QTY	REMARKS	INTERCHANGE
10	20F-90307-10	ACCESSORY TOOL KIT	7731-	1		226-90307-10
	226-90307-10	ACCESSORY TOOL KIT	-7730	1		