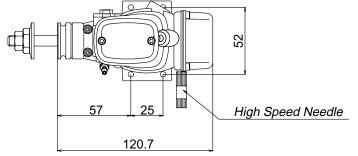
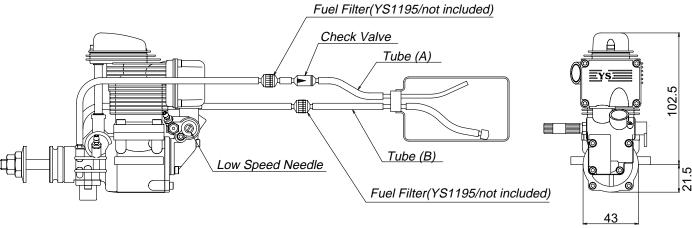
FIG.1



SPECIFICATIONS

Bore	30.4mm
Stroke	24.8mm
Displacement	18cc
Weight	730g
Practical rpm	2,000-13,000rpm



FEATURES

The FZ110 is the most powerful 91 four cycle engine available. This engine offers many exclusive features that have been proven on other YS engines.

- Supercharged system with simplified structure to keep weight to a minimum while still retaining maximum efficiency.
- Air chamber that uses crankcase pressure coupled with a double throttle valve system which allows a bigger charge of fuel and air mixture to enter the intake valve for more power.
- Same proven piston design as the 140Limited which creates more crankcase pressure for a more consistent fuel flow to the regulator.
- Fuel injection system for superior throttle response. This system is unaffected by tank position or by the attitude of the model.

GROW PLUG

Select the most appropriate glow plug from those designed specifically for 4 cycle engines. GLOW plug selection greatly affects the maximum engine output and low idle. If RPM's decrease or stop when the booster cord is removed, replace the plug. We recommend YS #4 (P0040) or OS Type F.

INSTALLATION

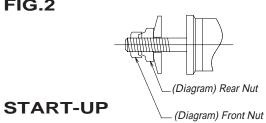
- 1. Connect the engine to the tank as shown in fig.1. Since high pressure is applied to the tank, tighten all connections carefully. Care must be taken to prevent pressure leakage due to undertightening of the check valve or by kinking the fuel lines.
- 2. Always uses a fuel filter. We recommend the YS filter.
- 3. Match the direction of the check valve arrow to fig.1, with the arrow facing towards the tank.

PROPELLER INSTALLATION

Due to the high torque of the FZ91 engine, we have equipped it with double locknuts for safety.

- 1. Mount the propeller and tighten the rear nut. Next, tighten the front nut as shown in fig.2.
- 2. Select a good quality propeller that will turn in the 8,000 to 11,000rpm range. We recommend sizes 13.5~11-13, 14~10-12.

FIG.2



1. Remove tube(B)from the filter;remove tube(A)from the check valve, then fill the tank.

Caution: If tank is filled or under pressure remove tube(A) first: then tube(B). Fuel will eject if tube(B)is removed first while the tank is pressurized.

- 2. Open the needle valve 1 1/2 from the fully closed position.
- 3. Open the throttle fully and slowly turn the propeller ten turn. This primes the system by pressurizing the tank and sending fuel to the carburetor.
- 4. Pour several drops of fuel into the carburetor.
- 5. Close the throttle to the idle position and connect the glow plug cord. The engine is now ready for starting.

Do not attempt to start at full throttle, as this is very dangerous.

BREAK-IN

To maximize engine performance and increase durability, please follow this break-in procedure:

- 1. Use the same size(or slightly smaller) propeller than you intend to use in flying.
- 2. Use a good quality fuel which contains 15-20% nitromethane and an oil content of 15-20%. Synthetic or castor oil can be used, or a combination of synthetic and caster. Do not use four cycle fuel due to low oil content.
- 3. The needle valve should be set so that the engine is running at a rich setting. Run the engine approximately 20 minutes with this
- 4. Mount the engine to the model and fly ten times with this setting. This concludes the break-in procedure. It is advisable to always use a slightly rich setting to keep the moving parts lubricated, even after the break-in period.

HIGH SPEED ADJUSTMENT

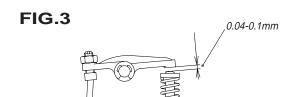
- 1. Adjustment of high speed is done by the carburetor needle valve. When the needle valve is turned clockwise, the mixture is leaner. When it is turned counterclockwise, the mixture is richer. A good starting position for the high speed needle valve is 1 1/2 turns open from fully close position.
- 2. When the engine is started, open the throttle gradually. Next, find the peak position(highest RPM) by adjusting the needle valve. Then the needle valve should be opened approximately 1/8 of a turn from full RPM to achieve best performance. The engine may stop if the throttle is opened to full immediately after starting. Wait unit the engine temperature rises and then open the throttle slowly.
- 3. For flying, it is advisable to use a slightly richer mixture setting. By using a richer mixture, the engine temperature is maintained and RPM stability improves.

LOW SPEED ADJUSTMENT

This engine is equipped with a new low speed needle valve to adjust the mixture from low to mid throttle. This needle valve is located on the side of the throttle barrel opposite the throttle arm(fig.1).

- 1. Open the low speed needle to 1 1/2 turns from fully closed
- 2. The low speed needle valve should be set after the high speed needle valve has been adjusted. Close the throttle gradually to a idle(approximately 2500rpm). Let it idle for 20 to 30 seconds and then slowly advance the throttle. The adjustment is satisfactory at low speed if transition is smooth at this time.
- 3. If the engine is running rough on idle, the low speed mixture is rich. If the engine starts to speed up and dies on idle or starts to detonate, when advancing the throttle, the mixture is lean. Turn the low speed needle valve clockwise to richen and counterclockwise for a leaner mixture(note that the direction of the low speed needle valve is opposite the high speed needle valve). Adjustments to the low speed needle valve should be 1/8 to 1/4 of a turn increment at a time to achieve smooth throttle response.

IMPORTANT! The regulator adjusting screw on this engine is factory set. No further adjustments are necessary. If for some reason you have to disassemble the regulator assembly, the regulator adjusting screw should be set flush with the regulator body.



TAPPETCLEARANCE ADJUSTMENT

- 1. Tappet clearance is factory preset. No adjustment is necessary unit after 1 hour of operation(includiing break-in period).
- 2. Clearance adjustment should be done when the engine is cool. When the engine temperature is high, clearance is higher due to thermal expansion.
- 3. The proper clearance setting should be at 0.04-0.1mm. The adjustment is achieved by loosing the locknut(fig.3) and turning the adjusting screw. Tighten the locknut after the adjustment is achieved. After the initial 1 hour adjustment, this procedure should be performed after every 2 hours of use.

DIAPHRAGM AND CHECK VALVE DISASSEMBLY

Diaphragm:

- 1. Remove the adjustment screw of the valve, and then remove the inside valve and spring.
- 2. Clean the inside with alcohol or appropriate cleaner. Reassemble.
- 3. Screw in the regulator screw until flush with the diaghragm body.

Check valve:

- 1. Open the valve by rotating the body counterclockwise.
- 2. Reassemble the check valve carefully.

IMPORTANT! Silicone rubber is used in many parts of the YS engine. Use only glow fuel or methanol for cleaning. Gasoline and other volatile solutions will damage the silicone if used.

WARRANTY

Strict quality control is implemented by our factory in all phases, from parts manufacturing to final assembly. If performance deteriorates or a part fails due to a manufacturing error, YS will repair or replace the engine at no charge.

Should the engine be modified, incorrectly assembled or abused. there will be a nominal charge for parts and labor. The use of four cycle fuel due to the low oil content will also void warranty.

NO.	PART#	DESCRIPTION	QTY	
1	F7101	Crankcase	1	
	F7102A	Cylinder Head		
2	F7102	Cylinder Head with Liner	1	
3	F9103	Intake Valve	1	
4	F9104	Exhaust Valve	1	
5	F1209	Valve Spring Set	2	
6	F9106	Spring Retainer Set	2	
7	F9107	Valve Spring Retainers Clips	4	
8	F9208	Cylinder Head Gasket	1	
9	R6115	Draive Washer Spacer	1	
11 12	F9111 F9112	Head Screws Valve Cover	4 1	
13	F9112	Valve Cover Gasket	1	
14	F9114	Valve Cover Gasket Valve Cover Screws	2	
15	F9115	Air Chamber	1	
16	F9116	Air Chamber Gasket	1	
17	F9117	Air Chamber Screws	4	
18	F9118	Air Chamber O Ring	1	
19	F9319	Crankshaft	1	
20	F9120	Rear Bearing	1	
21	F1240	Front Bearing	1	
22	F9122	Front Bearing Oil Seal	1	
23	F9323	Drive Washer	1	
24	F9324	Drive Washer Retainer	1	
25	F1266	Propeller Washer	1	
26	F1267	Propeller Nut Set	2	
27	F1421	Piston	1	
28	F1224	Piston Ring	1	
29	F1222	Wrist Pin	1	
30	F1323	Wrist Pin Retainer	2	
31	F9131	Rocker Arm Set	2	
32	F1213	Tappet Adjusting Screw Set	2	
33	F1214	Tappet Lock Nut	2	
34	F9134	Rocker Arm Shaft	1	
35	F9135	Rocker Arm Screw	1	
36	F1217	E Ring Set	2	
37	F1235	Cam Gear	1	
38	F9138	Cam Gear Cover	1	
39	F1233	Cam Gear Cover O Ring	1	
40	F9140	Cam Gear Cover Screws	2	
41	F1242	Cam Gear Bearng	2	
42	F1236	Cam Follower	2	
43	F9143	Push Rod	2	
44	F9144	Push Rod Covers	2	
45	F1239	Push Rod Covers O rings	4	
46	F9146	Con Rod	1	
	F9147A	Rear Cover Assy.		
47	F9147	Rear Cover	1	
	F9141	Real Cover	1	
48	F9148	Disc Valve	1	
49	F9148 F9149	Disc Valve Disc Valve Pin Retainer	1	
49 50	F9148 F9149 F1229	Disc Valve Disc Valve Pin Retainer Disc Valve Set	1 1 1	
49 50 51	F9148 F9149 F1229 F9151	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring	1 1 1 1	
49 50 51 52	F9148 F9149 F1229 F9151 F9152	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket	1 1 1 1	
49 50 51	F9148 F9149 F1229 F9151 F9152 F9153	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws	1 1 1 1	
49 50 51 52 53	F9148 F9149 F1229 F9151 F9152 F9153 F9354A	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy.	1 1 1 1 1 4	
49 50 51 52 53	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9354	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body	1 1 1 1 1 4	
49 50 51 52 53 54 55	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9354 F9355	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel	1 1 1 1 1 4	
49 50 51 52 53 54 55 56	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9354 F9355 F9156	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve	1 1 1 1 1 4	
49 50 51 52 53 54 55 56 57	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9354 F9355 F9156 F9157	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring	1 1 1 1 4 1 1 1 1	
49 50 51 52 53 54 55 56 57	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Seal	1 1 1 1 4 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Seal Throttle Barrel Retainer	1 1 1 1 4 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59 60	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle arm	1 1 1 1 1 4 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59 60 61	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9354 F9355 F9156 F9157 F9358 R6124 F1260S F1258	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle arm Throttle Stop Screw	1 1 1 1 1 4 1 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59 60	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Spring	1 1 1 1 1 4 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59 60 61 62	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve Set	1 1 1 1 4 1 1 1 1 1 1 1	
50 51 52 53 54 55 56 57 58 59 60 61 62 63	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Screw Throttle Stop Spring Needle Valve Set Needle Valve	1 1 1 1 4 1 1 1 1 1 1 1	
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1546	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Screw Throttle Stop Spring Needle Valve O Ring	1 1 1 1 4 1 1 1 1 1 1 1	
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1556 F1555	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve O Ring	1 1 1 1 1 4 1 1 1 1 1 1 1 1	
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1554 F1555 F1556	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Sarrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve Set Needle Valve O Ring Needle Seat Needle Seat	1 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1556 F1555 F1256 F1557	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Sarrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve O Ring Needle Seat Needle Seat Needle Seat O Ring	1 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1556 F1557 F9164	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Sarrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve O Ring Needle Seat Needle Seat Needle Seat O Ring Needle Valve Detent Carburetor Gasket	1 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1555 F1556 F1557 F9164 F9165	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Screw Throttle Stop Spring Needle Valve Needle Valve O Ring Needle Valve Set Needle Valve Needle Valve Needle Valve O Ring Needle Seat Needle Seat Needle Seat Needle Seat Needle Seat Needle Seat O Ring Needle Valve Detent Carburetor Gasket Carburetor Screws	1 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1555 F1256 F1557 F9164 F9165 F9166A	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve Set Needle Valve Needle Seat Needle Seat Needle Seat Needle Seat O Ring Needle Valve Detent Carburetor Gasket Carburetor Screws Regulator	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
49 50 51 52 53 54 55 56 57 58 60 61 62 63 64 65 66 67 68 69	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1556 F1557 F9164 F9165 F9166A F9166	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve Set Needle Valve O Ring Needle Valve O Ring Needle Valve Set Needle Valve Set Needle Valve O Ring Needle Valve O Ring Needle Seat Needle Seat Needle Seat Carburetor Gasket Carburetor Screws Regulator Regulator	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1	
49 50 51 52 53 54 55 56 60 61 62 63 64 65 66 67 68 69	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1555 F1256 F1557 F9164 F9165 F9166A F9166 F1245	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Screw Throttle Stop Spring Needle Valve O Ring Needle Valve O Ring Needle Valve Set Needle Valve O Ring Needle Valve O Ring Needle Valve O Ring Needle Seat Needle Seat Needle Seat Needle Seat Carburetor Gasket Carburetor Screws Regulator Regulator Adjusting Screw	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1	
49 50 51 52 53 54 55 56 67 68 66 67 68 69 70 71 72	F9148 F9149 F1229 F9151 F9152 F9153 F9354A F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1556 F1557 F9164 F9165 F9166A F9166 F1245 F1246	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve Set Needle Valve Needle Valve O Ring Needle Valve Set Needle Valve Set Needle Valve O Ring Needle Valve O Ring Needle Valve O Ring Needle Valve O Ring Needle Seat Needle Seat O Ring Needle Valve Detent Carburetor Gasket Carburetor Screws Regulator Regulator Body Regulator Adjusting Screw Regulator O Ring	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2	
49 50 51 52 53 54 55 56 67 68 66 67 68 69 70 71 72 73	F9148 F9149 F1229 F9151 F9152 F9153 F9354 F9354 F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1556 F1557 F9164 F9165 F9166A F9166 F1245 F1246 F9169	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Screw Throttle Stop Spring Needle Valve O Ring Needle Seat Needle Seat Needle Seat Needle Seat Regulator Gasket Carburetor Screws Regulator Regulator Body Regulator O Ring Diaphragm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1	
49 50 51 52 53 54 55 56 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	F9148 F9149 F1229 F9151 F9152 F9153 F9354 F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1554 F1566 F1557 F9164 F9165 F9166A F9166 F1245 F1246 F9169 F1248	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Spring Needle Valve Set Needle Valve O Ring Needle Valve O Ring Needle Valve Set Needle Valve Set Needle Valve O Ring Needle Valve O Ring Needle Seat Needle Seat Needle Seat Needle Seat O Ring Needle Valve Detent Carburetor Gasket Carburetor Screws Regulator Regulator Body Regulator Adjusting Screw Regulator O Ring Diaphragm Plunger	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1	
49 50 51 52 53 54 55 56 67 68 66 67 68 69 70 71 72 73	F9148 F9149 F1229 F9151 F9152 F9153 F9354 F9354 F9355 F9156 F9157 F9358 R6124 F1260S F1258 F1259 F1554S F1554 F1556 F1557 F9164 F9165 F9166A F9166 F1245 F1246 F9169	Disc Valve Disc Valve Pin Retainer Disc Valve Set Disc Valve Pin E Ring Rear Cover Gasket Rear Cover Screws Carburetor Assy. Carburetor Body Throttle Barrel Low Needle Valve Low Needle Valve O Ring Throttle Barrel Retainer Throttle Barrel Retainer Throttle Stop Screw Throttle Stop Screw Throttle Stop Spring Needle Valve O Ring Needle Seat Needle Seat Needle Seat Needle Seat Regulator Gasket Carburetor Screws Regulator Regulator Body Regulator O Ring Diaphragm	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1	

