



SUZUKI

2-Stroke

Service Bulletin

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TOOLS

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Service Bulletin

Subject: SUZUKI SSII ELECTRO-TESTER
MODIFICATION KITS

Bulletin No: TOOLS-1
Date: JULY 16, 1976

Read and Initial

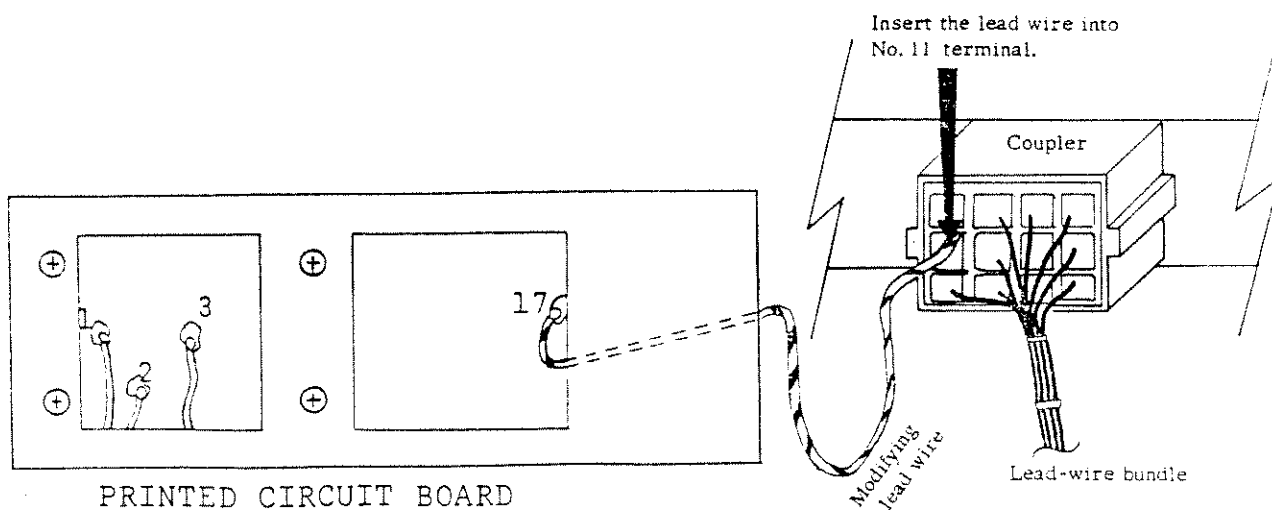
Manager _____
Parts _____
Service _____

NOTICE:

The Suzuki Electro-Tester SSII is a very useful instrument when troubleshooting Suzuki electrical systems. Due to the type of PEI ignition system being used on the GT500 and RM models, the current SSII Electro-Tester cannot be used. The SSII can now be modified to test these type ignitions by the addition of a new style PEI test lead and connector wire now offered by U. S. Suzuki's Parts Department.

MODIFICATION DIRECTIONS:

1. Remove the four securing screws on the face of the panel.
2. Lift the panel face, and from front to rear, turn it over and lay it on the case cover.
3. Locate and remove the PEI plug receptical from the unit assembly, located on the right front edge of the unit assembly.



4. Remove the 12" black wire enclosed in the modification kit, and insert the pronged terminal into the number 11 socket of the coupler. The other end of the black wire is to be soldered to the #17 terminal of the printed circuit board on the back of the panel face, as illustrated.
5. Reinstall the PEI plug receptical into the unit assembly and screw the unit assembly back into its' carrying case.
6. After completing the modification to the SSII Electro-Tester, use only the new checking cord when testing all PEI units. If the old style checking cord is used when testing the new style PEI units the tester will read incorrectly.

Note: When testing RM250/370's PEI units, refer to page 20 of the SSII Electro-Tester Operation Manual.

PARTS:

Modification Kit components are:

1. PEI Test Leads
2. 12" Black Wire
3. SSII Operation Manual
4. Modification Instructions

Note: Disregard the modification instructions enclosed in this kit.

The modification kits are now available from U.S. Suzuki's Parts Department having a part number of 99104-09130.



SUZUKI

2-Stroke

Service Bulletin

Subject: 75mm MEASURING ROD

Bulletin No. TOOLS-2

Date: July 23, 1976

Read and Initial

Manager _____

Parts _____

Service _____

NOTICE:

We have received requests from dealers for a special measuring rod to measure the RM370 cylinder bore.

Therefore, a new 75 mm measuring rod has been added to the Cylinder Gauge Set. It is also available separately, as well as with the Cylinder Gauge set, from U. S. Suzuki's Parts Department.

Note: For measuring the piston diameter, a 75 - 100 mm micrometer is also available.

The part numbers for these tools are listed below:

DESCRIPTION	OLD PART NO.	NEW PART NO.
Cylinder Gauge Set	09900-20506	09900-20508
75 mm Measuring Rod	N/A	09900-20509
75-100 mm Micrometer	09900-20204	Same as old

U. S. SUZUKI
TECHNICAL SERVICE DEPARTMENT





NOTICE:

SUZUKI

2-Stroke

Service Bulletin

Subject: NEW TIMING TESTER

Bulletin No: TOOLS-3

Date: July 23, 1976

Read and Initial

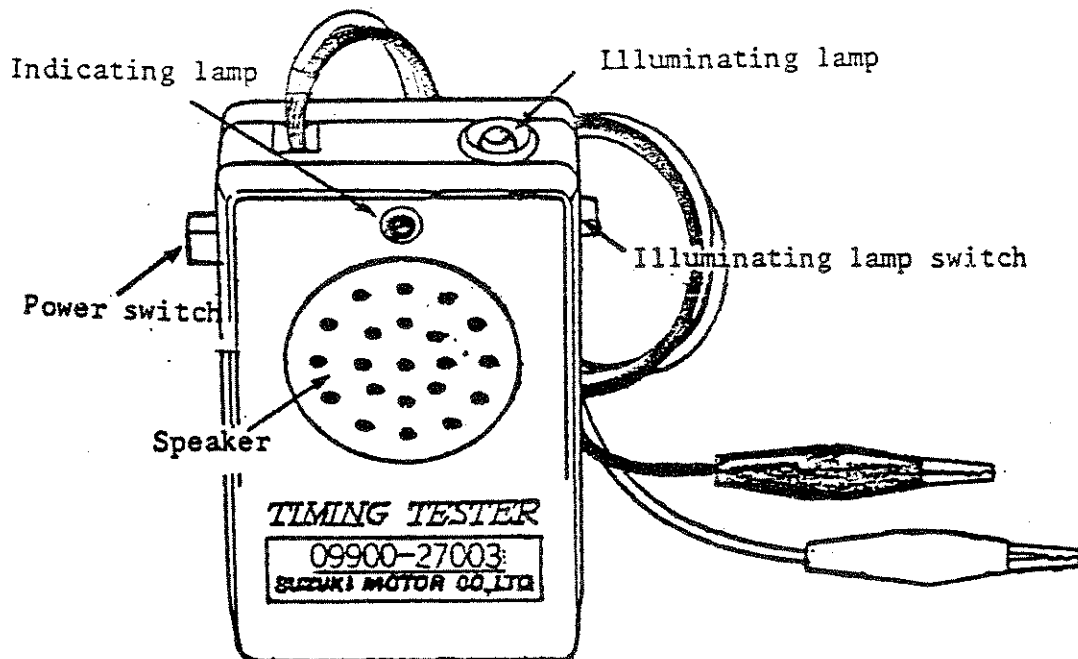
Manager: _____

Parts: _____

Service: _____

A new style ignition timing tester is now available from U.S. Suzuki. This new style timing tester incorporates several features not included in the previous model. They are listed below:

1. More transistorized circuits - lower internal resistance.
2. Internal sound speaker as opposed to an earphone.
3. Illuminating light intended for seeing into dark hard to reach areas of the magneto assembly.
4. Internal power consumption is very small. Under normal usage, the batteries should last one year.
5. When working in noisy areas the indicator lamp can be used instead of the internal speaker.



APPLICATION:

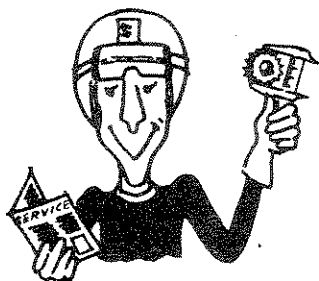
1. Place one test lead to the lead wire extending from the point assembly, and the other test lead to any good ground on the engine.
2. With the ignition switch turned OFF, turn the power switch of the tester ON.
3. Rotate the crankshaft slowly and listen for the speaker to go on as the ignition timing marks align, and adjust if necessary. As the speaker "buzzer" goes on the red

indicator lamp will light up.

PARTS:

DESCRIPTION	OLD PART NUMBER	NEW PART NUMBER
TIMING TESTER	09900-27002	09900-27003

The old style timing tester will remain available until the existing stock is exhausted. The new style timing tester is now available from U.S. Suzuki's Parts Department.



SUZUKI

(2-Stroke)

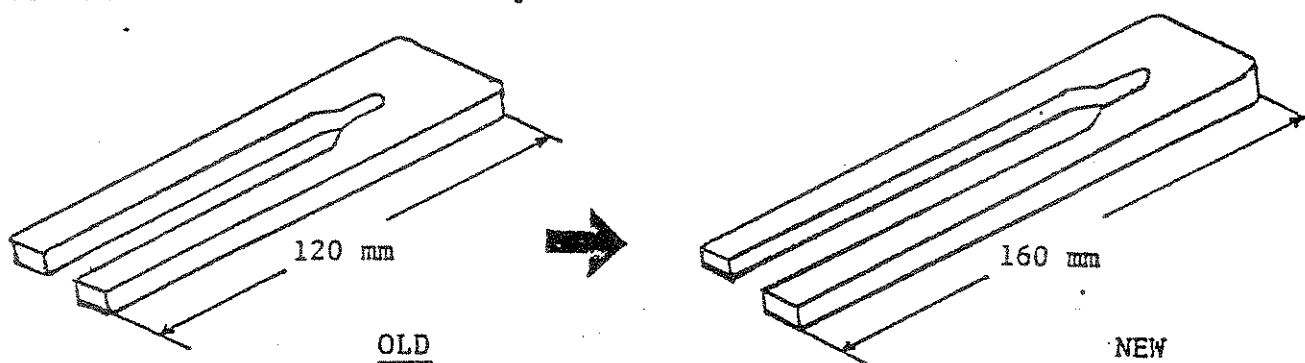
Service Bulletin

160 MM CONNECTING ROD
STOPPER TOOL

Subject: _____

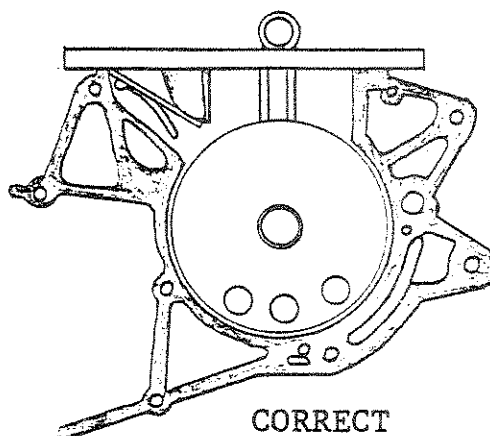
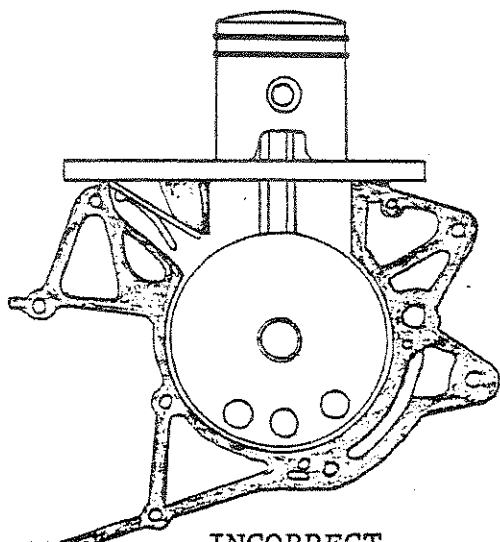
NOTICE:

A new longer style Connecting Rod Stopper is now available from U. S. Suzuki's Parts Department. This new piston holder was designed especially for the models with crankcases incorporating the power reed intake system. Its total length is 160mm compared to the 120mm of the old style.



The old style Connecting Rod Stopper was designed to be used on the more conventional crankcase designs such as the GT line of motorcycles. Consequently, this connecting rod stopper is too short to be used on the power reed intake system.

Special care should be taken when using this new style connecting rod stopper. This new style tool is made out of steel and can easily nick the crankcases. Also, remove the piston before using the new style connecting rod stopper so that the piston's skirt and the piston pin's bearings do not become damaged.

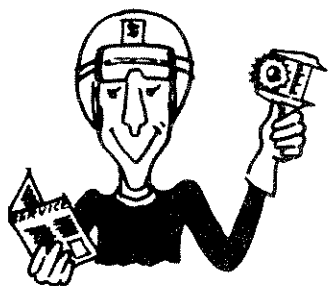


PARTS:

DESCRIPTION	OLD PART NUMBER	NEW PART NUMBER
Connecting Rod Stopper	09910-20113	09910-20114

After the existing supply of the old style connecting rod stoppers are exhausted, only the new style will be available.

U. S. SUZUKI
TECHNICAL SERVICE DEPARTMENT



SUZUKI

2-Stroke

Service Bulletin

Subject: ENGINE TACHOMETER INSTRUCTIONS

TOOLS - 5
Bulletin No. SEPT. 17, 1976

Date: _____
Read and Initial _____
Manager _____
Parts _____
Service _____

To perform many engine analysis checks, it is essential that the engine's RPM be set at a predetermined speed (RPM) and be correct. For example, setting the ignition timing dynamically, the engine's RPM must be correctly set to Suzuki specifications to accurately read where the ignition system is firing in terms of degrees of crankshaft rotation before top dead center.

An accurate tachometer can also be a valuable tool in carburetion synchronization of multi-cylinder motorcycles. It is also helpful if the tachometer can be used on singles, twins, tripples and four cylinder engines of either two or four stroke engine design.

I. Measurement Ranges of the Tachometer (Part No. 09900-26002)

ENGINE TYPE	NO. OF CYLINDERS	RPM RANGES
2 Stroke	1	0-1200, 0-6000, 0-12,000
2 "	2	0-1200, 0-6000, 0-12,000
4 Stroke	1	0-2400, 0-6000, 0-12,000
4 "	2	0-1200, 0-6000, 0-12,000
4 "	4	0-1200, 0-6000, 0-12,000

II. Operation

- Before connecting the meter, the pointer must be set on zero, toward the left hand side of the scale. This may be performed by turning the plastic screw at the base of the scale dial.
- To calibrate the tachometer, the selector switch knob is rotated to the CAL range (any one of the three positions) and the power switch turned on.
- As the pointer deflects, it is then adjusted to the red CAL mark in the middle of the scale dial by turning the calibration knob. If it cannot be adjusted to CAL, the battery should be replaced. Do not touch the CAL knob during the test procedure.

(cont.)

- D. The selector knob is rotated to the number of cylinders of the engine to be checked.

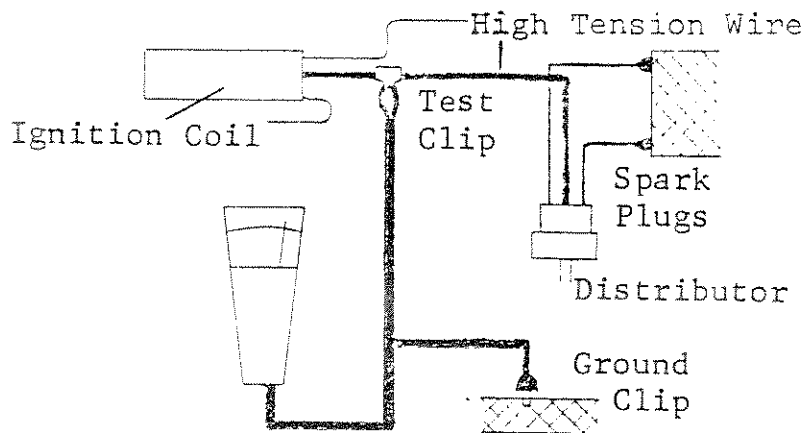
Reference:

4slc: 4 stroke and 1 cylinder

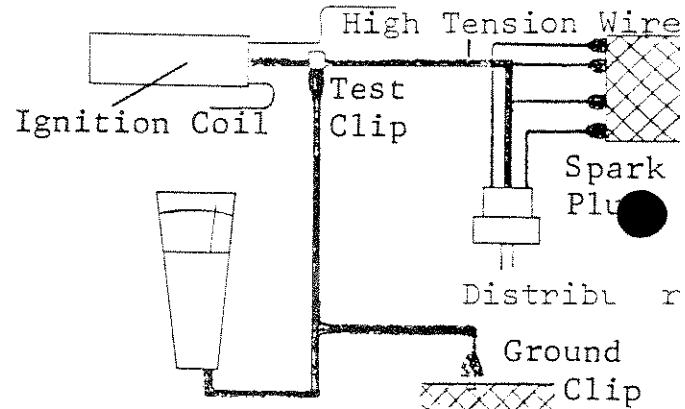
2s2c: 2 stroke and 2 cylinder

For setting the idle, use the 1200 or 2400 RPM scale, for normal speed, the 6000 RPM scale and for high speed, the 12,000 RPM scale.

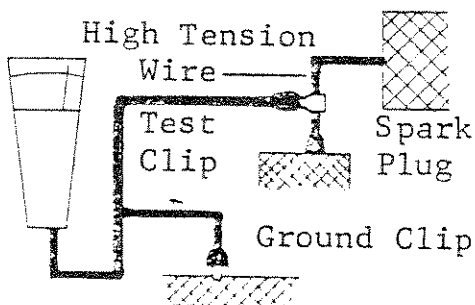
- E. The ground clip (black) is clamped to a good ground connection and the test lead (red) to the high tension wire from the ignition coil, as illustrated below.



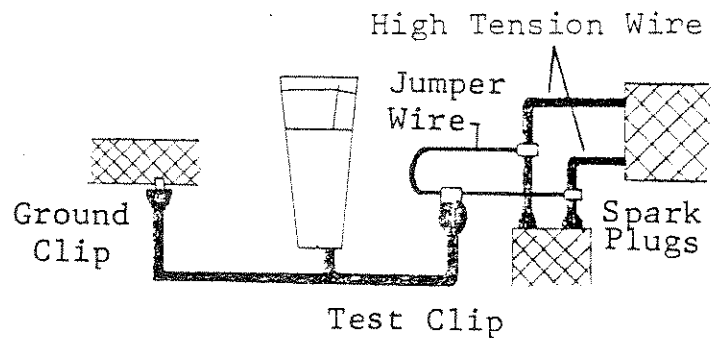
A- 2s2c or 4s2c



B- 4s4c

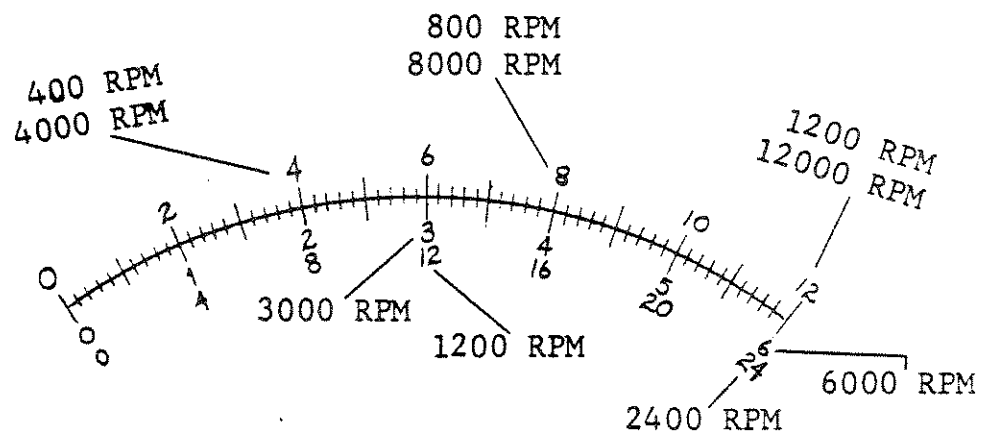


C- 2slc or 4slc



D- 2s2c or 4s2c

- F. As the engine is started, the pointer should immediately move toward the right side of the scale. If the pointer hesitates or the pointer does not move at all, the lead connections have been installed improperly. Recheck the meters connections to the ignition system.
- G. Reading the scale is as follows: 1200 and 12,000 RPM settings, read the upper figures multiplied by 100 and 1000, respectively.



Scale Readings

For 6000 RPM settings, read the second figures below the scale multiplied by 1000.

For 2400 RPM setting, 4-stroke single cylinder engines only, read the figures on the bottom of the scale multiplied by 100.

Note: This tachometer can also be used on multi cylinder models having a separate ignition coil to fire one cylinder. The selector switch knob has to be set on the single cylinder setting (2 or 4 stroke depending on engine design).

The GT500 having one ignition coil that fires two spark plugs must be set to 2s2c connected directly to either spark plug wire for a correct RPM reading. If the tachometer is attached to the engine with the jumper clips, the tachometer RPM readings will be double due to the double firing pattern of that ignition system.

When using the jumper wire on twin cylinder engines, make sure that the jumper wire is at least two inches away from any other metal object such as the throttle cable or cylinder head. Otherwise, the RPM reading will be incorrect.

III. Maintenance

- A. Avoid dropping the meter or subjecting it to severe vibration. Also avoid storage in direct sunlight.
- B. When setting the selector switch to an RPM position, be careful not to "peg" the needle against the right side needle stop.
- C. Make sure the power switch is in the off position when the meter is not in use.
- D. When changing RPM settings, on the CAL knob, the red test lead must be removed and the meter recalibrated for the next RPM setting. Reclamp the red test lead to the high tension wire and proceed with the test. If the meter is not recalibrated, the meter will read incorrectly.



SUZUKI

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Service Bulletin

SPECIAL TOOL AVAILABILITY

Tools-6

Bulletin No: Dec. 3, 1976

Date: _____

Read and Initial

Manager _____

Parts _____

Service _____

UPDATED (8/12/77)

Subject: _____

Contained in this Service Bulletin is a list of special tools needed to service Suzuki motorcycles and snowmobiles.

This list has been condensed from the previous 1975 special tool catalogue and other sources, for the sake of convenience and for time savings to each service shop. These tools are available from U.S. Suzuki's Parts Department.

All tools listed in the box at the bottom of page 1 are included in the All Model Tool Kit. They are all listed individually in the General columns (pages 2-4) of this service bulletin noted by an asterisk. Those tools also listed in the 1975 Special Tool Catalogue are referred to in the Description column of that page. Also note that the availability and part numbers of the tools listed may change at any time without notice.

09910-00140

ALL MODEL TOOL KIT

ITEM No.	PART NUMBER	DESCRIPTION	QUANTITY
1.	09900-06103	*Snap Ring Remover	1
2.	09900-21802	*Chain Joint Tool	1
3.	09910-20114	*Piston Holder	1
4.	09910-80113	*Crankcase Separating Tool	1
5.	09910-92810	*Crankshaft Remover	1
6.	09913-20611	*Outer Valve Seat Remover	1
7.	09913-50110	*Oil Seal Remover	1
8.	09913-70122	*Bearing & Oil Seal Installing Tool	1
9.	09913-80111	*Bearing & Oil Seal Installing Tool	1
10.	09920-13110	*Starter Clutch Remover	1
11.	09920-20310	*Clutch Spring Hook	1
12.	09920-53710	*Clutch Sleeve Hub Holder	1
13.	09920-70111	*Snap Ring Opener	1
14.	09920-70120	*Snap Ring Opener	1
15.	09920-73110	*Circlip Remover	1
16.	09920-80210	*Top Gear Holder	1
17.	09930-10111	*Spark Plug Wrench	1
18.	09930-30131	*Rotor Remover Set	1
19.	09930-40113	*Rotor Holder	1
20.	09940-10122	*Steering Stemlock Nut Wrench	1
21.	09940-30110	*Front Fork Assembling Tool	1
22.	09940-53111	*Oil Seal Installing Tool	1
23.	09940-60112	*Spoke Nipple Wrench	1
24.	09941-00110	*Front Fork Outer Tube Wrench Set	1

(continued)

UPDATED

(8/12/77)

GENERAL

PART NUMBER	DESCRIPTION	APPLICATION
09821-00002	Tire Pump Assembly	T20
09821-00004	Tire Pump Assembly	RV90/RV125
09825-00002	Tire Lever	
09826-00001	Inner Tube Tool Set	
09827-00001	Wheel Alignment Gauge	
09900-06103	*Snap Ring Remover	GT380/550/750
09900-06904	L Type Wrench	Allen wrench - 8mm
09900-07403	T Type Screw Driver	6mm #3 Phillips head
09900-09002	Shock Driver Set	Handle for installing and removing + bit
09900-09202	Shock Driver Set #2	Cross Head Screw and Bit
09900-11001	Adjustable Reamer Set	11-12mm, 12-13.5mm 13.5-15mm, 15-16.7mm
09900-12002	Iso Tap & Die Set	
09900-12003	Dies & Hand Tap Set	6x1.0, 8x1.25, 10x1.25, 12x1.25, 12x1.5, 14x1.5, 16x1.5mm
09900-20901	Screw Pitch Gauge	
09900-21602	Oil Measure Cylinder	
09900-21802	*Chain Joint Tool	For endless drive chain
09900-21803	Spindle Pin	For endless drive chain chain joint tool
09900-21804	Wedge	For endless drive chain chain joint tool
09900-28401	Hydrometer	
09900-35002	Hone Assembly	
09900-35103	Large Hone	Replacement stone
09900-35201	Hone Spring	
09900-40301	Grease Gun	
09910-10110	Stud Installing Tool	6mm
09910-10710	Stud Installing Tool	8mm
09910-11510	Stud Installing Tool	10mm
09910-20114	*Piston Holder	
09910-30111	Piston Pin Remover	
09910-60610	Exh. Pipe Clamp Wrench	Page 2-75' catalogue Ill. 5
09910-70110	Exhaust Pipe Cleaner	50-75cc models
09910-80113	Crankcase Separate Tool	Page 2-75' catalogue Ill. 6
09910-92810	*Crankshaft Remover	
09911-73730	5mm Allen T Wrench	GT550, RE-5
09911-73740	5mm Allen S Wrench	RE-5
09913-20611	*Rotary Valve Stator Lever	Page 2-75' catalogue Ill. 16
09913-50110	*Oil Seal Remover	Page 2-75' catalogue Ill. 18
09913-60910	Bearing Gear Remover	Page 4-75' catalogue Ill. 19
09913-61110	Bearing Puller	Page 4-75' catalogue Ill. 20

(continued)

UPDATED

(8/12/77)

SERVICE BULLETIN TOOLS-6
Dec. 3, 1976 - Page 3

GENERAL

PART NUMBER	DESCRIPTION	APPLICATION
09913-61510	Bearing Puller	Page 4-75 catalogue Ill. 21
09913-70110	Bearing O Seal Installer	
09913-70122	*Small Bearing Installer	Page 4-75' catalogue Ill. 22
09913-80111	*Bearing O Seal Installer	Page 4-75' catalogue Ill. 23
09914-25810	T-Handle Allen Bolt Wrench	5mm Allen bolt
09915-53710	Alter Rotor Holder	RE-5
09920-13110	*Starter Clutch Remover	GT750
09920-40111	Clutch Sleeve Hub Tool	
09920-50210	Clutch Sleeve Hub Tool	Page 4-75' catalogue Ill. 34
09920-50710	Clutch Hub Holder	
09920-51110	Clutch Hub Holder	
09920-53710	*Clutch Sleeve Hub Holder	RE-5
09920-53110	Clutch Sleeve Hub Holder	GT750
09920-60310	Hub Holder Handle	
09920-70111	*Snap Ring Opener	
09920-70120	*Snap Ring Opener	
09920-73110	*Opener Circlip	Page 6-75' catalogue Ill. 41
09920-80210	*Top Gear Installing Tool	Page 6-75' catalogue Ill. 42
09930-10111	*Spark Plug Wrench	
09930-30100	Rotor Remover Shaft	
09930-30113	Flywheel Rotor Remover	
09930-30140	Rotor Remover Attachment A	GT185/380/550/750
09930-30150	Rotor Remover Attachment B	TC & TS100, TM75, RV90 A100, TC & TS125, RV125
09930-30160	Rotor Remover Attachment C	TM100/125/250/400
09930-30170	Rotor Remover Attachment D	TS185/250/400
09930-30180	Rotor Remover Attachment E	TM100/125/250/400
09930-30190	Rotor Remover Attachment F	For magneto with large rotor
09930-30712	Flywheel Rotor Remover	TC120, TS185, TS250
09930-30713	Flywheel Rotor Remover	TS250, RL250
09930-31610	Flywheel Rotor Remover	TS250/250II, R, J, TM400 R, J, TS400
09930-33111	Alter. Rotor Remover	GT750
09930-33310	Rotor Remover	GT380/550
09930-33710	Alter. Rotor Puller	RE-5
09930-40113	*Flywheel Rotor Holder	
09930-50951	Rotor Remover	GT380/550
09930-51110	Armature Remover	
09932-11910	Ignition Switch Removal Tool	
09940-10122	*Sm. Steering Stem Nut Wrench	
09940-10611	Steering Stem Nut Wrench	
09940-30110	*Front Fork Assembly Tool	Page 6-75' catalogue Ill. 52
09940-34511	Front Fork Tool Set	All Models

(continued)

UPDATED

(8/12/77)

SERVICE BULLETIN TOOLS-6
Dec. 3, 1976 - Page 4

GENERAL

PART NUMBER	DESCRIPTION	APPLICATION
09940-34520	"T" Handle	Included in Front Fork Tool Set
09940-34530	Attachment "A"	GT185/250/380/550/750 M, A, B Models; GS400/550/750 B Models; RE5A Model; GT500 A & B Models
09940-34540	Attachment "B"	RM250/370 A Model; RM125 M, A Models; PE250B, RL250L, M Models; TS250 L, M, A Models, TS400L, M, A, B Models; TS100/125/185 L & M Models; TC100/125/185 L & M Models
09940-34550	Attachment "C"	TS185 A, B Models; RM100 B Model
09940-34560	Attachment "D"	TS100/125 A, B Models TC100/125/185 A, B Models DS80C Model
09940-34570	Attachment "E"	RM125B Model; RM250/370B Models; TS250B Model
09940-40112	Front Fork Oil Level Gauge	Page 6-75' catalogue Ill. 53
09940-44110	Air Pressure Gauge	RM125B, RM250/370 C Models
09940-53111	*Oil Seal Installing Tool	Page 8-75' catalogue Ill. 55
09940-53311	*Oil Seal Installing Tool	Page 8-75' catalogue Ill. 56
09940-60112	*Spoke Wrench	All Models
09941-00110	*Guide Housing Tool	Page 8-75' catalogue Ill. 58
09941-20120	Fork Guide Housing Tool Rubber	
09943-74110	Oil Level Gauge	RM125B, RM250/370 C Models
99104-01900	RE-5 Special Tool Kit	RE-5
99104-03100	750 Cylinder Removal Tool	GT750
99104-03110	750 Puller Body - Cyl. Remover	GT750
99104-03120	Starter Bolt - Cyl. Remover	GT750
99104-03130	5 1/4 Bolt - Cyl. Remover	GT750
99104-03140	5/8 x 24 Tap - Cyl. Remover	GT750

TUNE-UP

PART NUMBER	DESCRIPTION	APPLICATION
09818-00001	Point File	
09900-26002	Engine Tachometer	
09900-27003	Timing Tester	
09913-13121	Carb. Balancer Assembly	GT380/550/750

UPDATED

(8/12/77)

TUNE-UP

PART NUMBER	DESCRIPTION	APPLICATION
09913-13130	Carb. Attachment #1	GT750, one req'd.
09913-13140	Carb. Attachment #2	GT380/550
09913-13720	Carb. Indicator B	RE-5
09913-13730	Carb. Indicator C	RE-5
09930-20111	Point Wrench	
09931-00112	Timing Gauge	
09931-30120	Timing Gauge Spindle	61mm
09931-30130	Timing Gauge Spindle	74.5mm
09931-31610	Timing Gauge Spindle	70mm

TROUBLESHOOTING

PART NUMBER	DESCRIPTION	APPLICATION
09820-00002	Air Pressure Gauge (tire)	
09900-06018-001	Fuse	Early Style Electro Tester
09900-06018-002	Xenon Tube Set	"
09900-06018-003	Vibrator	"
09900-06018-004	Transformer	"
09900-06018-005	Voltmeter	"
09900-06018-006	Test Wire A Set	"
09900-06018-007	Test Wire B Set	"
09900-06018-009	Test Wire High Volt.	"
09900-25001	Pocket Tester	
09900-25101	Pocket Tester Lead Wire	
09900-28106	Electro Tester SSII	
09915-63720	Recording Paper	RE-5
09915-73710	Oil Pressure Gauge	RE-5
93480-00000-106	Switch Knob Selector	Electro Tester SSII Components
93480-00000-202	Multiple Test Leads	"
93480-00000-203	PEI Test Leads (Kokusan)	"
93480-00000-204	PEI Test Leads (Denso)	"
93480-00000-205	Coil Test Leads	"
93480-00000-206	Timing Light Test Leads	"
93480-00000-207	High Tension Test Lead Set	"
93480-00000-208	Test Lead Set	"
93480-00000-209	High Tension Adapter	"
93480-00000-301	Meter	"
93480-00000-302	Transformer #1	"
93480-00000-303	Transformer #2	"
93480-00000-305	Xenon Tube	"
93480-00000-308	Selector Switch #1	"
93480-00000-309	Selector Switch #2	"
93480-00000-311	Neon Lamp, Green	"
93480-00000-312	Neon Lamp, Amber	"

UPDATED

(8/12/77)

PRECISION INSTRUMENTS

PART NUMBER	DESCRIPTION	APPLICATION
09900-20101	Vernier Caliper	Range from 0 to 150mm
09900-20201	Micrometer Caliper	Range up to 25mm
09900-20202	Micrometer Caliper	Range from 25 to 50mm
09900-20203	Micrometer Caliper	Range from 50 to 75mm
09900-20204	Micrometer	Range from 75 to 100mm
09900-20508	Cal-Mahr Type Cylinder Gauge Assembly	Range from 35 to 85mm
09900-20602	Dial Indicator (cylinder bore gauge attach and mounting stand)	
09900-20802	Piston Feeler Gauge	Includes 8 plates (.06-.2mm)
09900-20803	Feeler Gauge	Includes 25 plates (.03-1.0mm)
09900-21102	F Type Torque Wrench	120 Kg-cm
09900-21103	F Type Torque Wrench	900 Kg-cm
09910-32811	Crank Assembling Tool	
09910-80113	*Crank Separating Tool	

SNOWMOBILE

PART NUMBER	DESCRIPTION	APPLICATION
00101-44099	Pulley Alignment Gauge	
00101-44107	Drive Clutch Remover	
09920-09711	Pulley Side Gauge	SM11/21/30/40
09920-10111	Primary Pinion Puller	"
09920-10210	Primary Pinion Puller	"
09920-11610	Primary Pinion Puller	"
09920-19730	Primary Pulley Remover	Salsbury Pulley SM11/21/30/40
09920-19731	Primary Pulley Remover	Suzuki Pulley SM11/21/30/40
09920-20310	*Clutch Spring Hook	SM11/21/30/40
09920-29711	Clutch Spring Ass'y Tool	"
09920-29720	Clutch Spring Pin Remover	"
09920-31110	Clutch Assembly Tool	"
09920-31111	Clutch Assembly Tool	SM11/30/40
09930-30131	Rotor Remover Set	Page 6-75' catalogue Ill. 45