

[CB-23, CB-61 & CB-80]

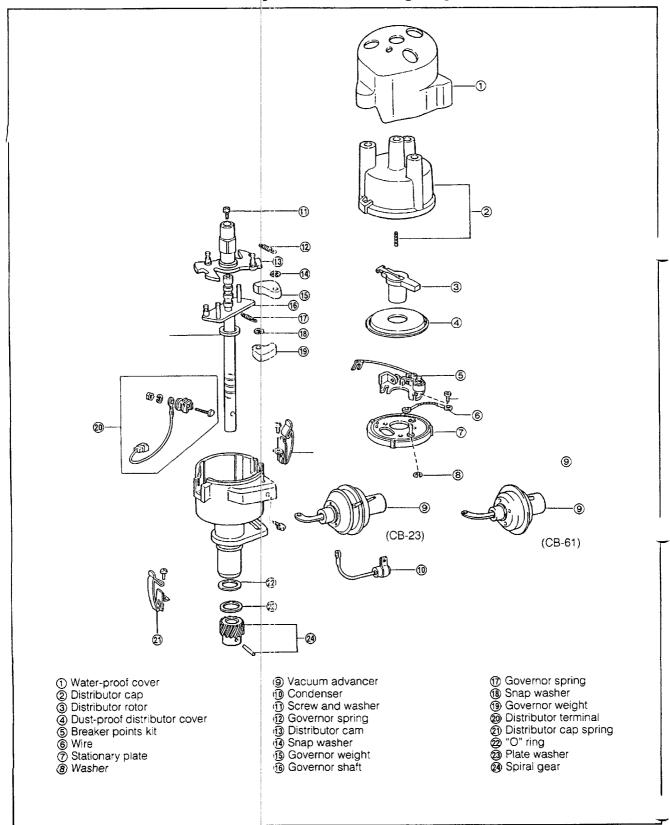
SECTION 10 ENGINE ELECTRICAL SYSTEM

DISTRIBUTOR	10- 2
COMPONENTS OF DISTRIBUTOR	
[CB-23 & CB-61 Engines]	10- 2
DISASSEMBLY [CB-23 & CB-61 Engines]	10- 3
INSPECTION [CB-23 & CB-61 Engines]	10- 4
INSPECTION [CB-80 Engine]	10- 5
ASSEMBLY [CB-23 & CB-61]	10- 5
IGNITION SYSTEM	10- 7
COMPONENTS OF IGNITION SYSTEM	10- 7
INSPECTION [CB-23 & CB-61 Engines]	10- 8
STARTER	
COMPONENTS OF STARTER	
[CB-23 M/T, CB-61 Engine & CB-80 Engine	
with General Specification]	10-10
[CB-23 Engine A/T & CB-80 Engine	
with ECE & EEC Specification]	10-11
PERFORMANCE TEST	10-12
DISASSEMBLY	
[CB-23 Engine M/T and CB-61 & CB-80 Engines]	10-14
DISASSEMBLY [CB-23 Engine A/T]	10-15
INSPECTION	10-16
ASSEMBLY	
[CB-23 Engine M/T and CB-61 & CB-80 Engines]	10-19
ASSEMBLY [CB-23 Engine A/T]	10-21
ALTERNATOR	10-23
COMPONENTS OF ALTERNATOR	10-23
DISASSEMBLY	10-24
INSPECTION	10-24
ASSEMBLY	10-25
IN-VEHICLE INSPECTION	10-26

WM-10001

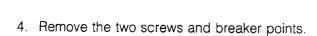
DISTRIBUTOR

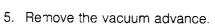
COMPONENTS OF DISTRIBUTOR [CB-23 & CB-61 Engines]



~PISASSEMBLY [CB-23 & CB-61 Engine]

- 1. Remove the distributor cap.
- 2. Remove the rotor, cover and packing.
- 3. Remove the terminal nut, lead wire condenser, insulators and terminal.

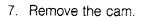




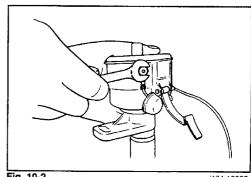
- (1) Remove the condenser mounting screw and condenser from the distributor housing.
- (2) Remove the E-ring. Turn and pull out the vacuum advancer.

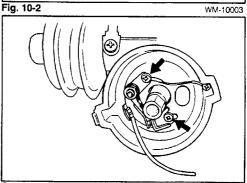


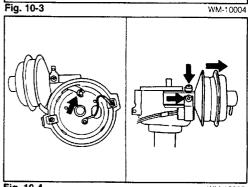
- (1) Remove the two screws, ground wire and plate washers.
 - (2) Pull out the breaker plate. Remove the governor springs.

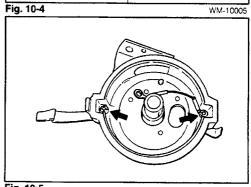


- (1) Pry out the grease stopper.
- (2) Remove the screw at the top of the governor shaft.
- (3) Pull out the cam and governor weights.









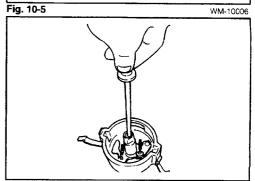


Fig. 10-6 WM-10007

ENGINE ELECTRICAL SYSTEM

INSPECTION [CB-23 & CB-61 Engine]

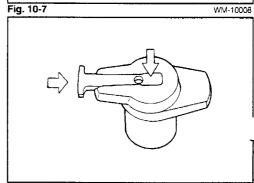
1. Cap

Check the cap for cracks, rust, dirty or corroded terminal. Check the central section for wear.

Fig. 10.7

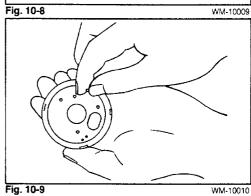
2. Rotor

Check the rotor for cracks, burnt state, dirt or corrosion.



3. Breaker plate

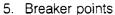
Turn the breaker plate. Ensure that it has a slight drag. If strong resistance or sticking is felt, replace the breaker plate.



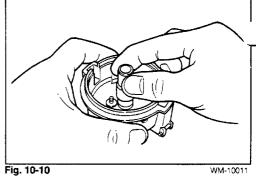
4. Governor

Temporarily install the cam with governor to the governor shaft. Ensure that they fit correctly.

Replace the cam with governor or the housing kit, as required.

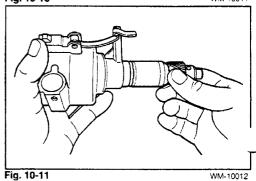


Check the breaker points for wear or damage.



6. Governor shaft and housing

Check for wear, sticking or damage. Replace the housing kit, as required.



¬'NSPECTION [CB-80 Engine]

Measure the resistance between the terminals specified in the right figure.

Specified Value

Resistance between Terminals ① and ②:

140 - 180 Ω

Resistance between Terminals 3 and 4:

140 - 180 Ω

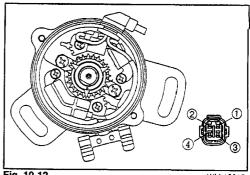
Cap

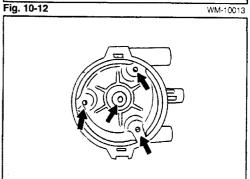
Check the cap for cracks, rust, dirty or corroded terminal. Check the central section for wear.

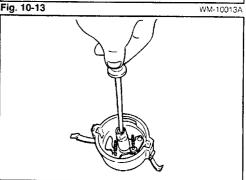


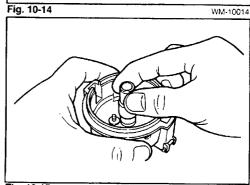
- 1. Install the cam with governor weights.
 - (1) Install the screw.
 - (2) Pack the high-temperature grease into the shaft.
 - (3) Push on the grease stopper by your finger.
 - (4) Install the cam with governor weights.
 - (5) Install the governor spring.

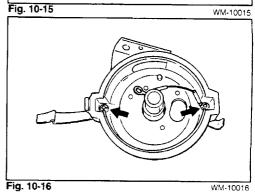
- 2. Install the breaker plate.
 - (1) Fit the four clips on the governor plate into the housing slots.
 - (2) Install one end of the lead wire and two plate washers with screws.











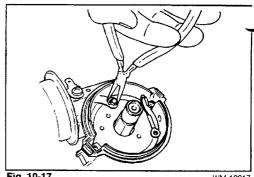
10 - 5

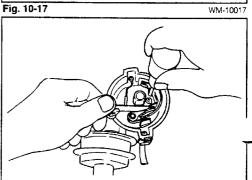
ENGINE ELECTRICAL SYSTEM

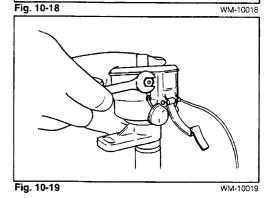
- 3. Install the vacuum advancer.
 - (1) Insert the advancer into the distributor and position the lever hole over the plate pin.
 - (2) Install the E-ring on the pin.
 - (3) Install the screw with the condenser to the distributor body.
- 4. Install and adjust the breaker point.
 - (1) Clean the contact surfaces of the points with a piece of cloth saturated in solvent.
 - (2) Loosely install the breaker points and one end of the lead wire with two screws.
 - (3) Using a feeler gauge set the hee gap and tighten the two screws.

Heel gap: 0.45 mm (0.0177 inch)

- 5. Install the lead wire and terminal.
 Insert the terminal with breaker points wire. Install the insulators, lead wire, condenser and terminal nut.
- 6. Install the rotor.
- 7. Install the distributor cap and packing.

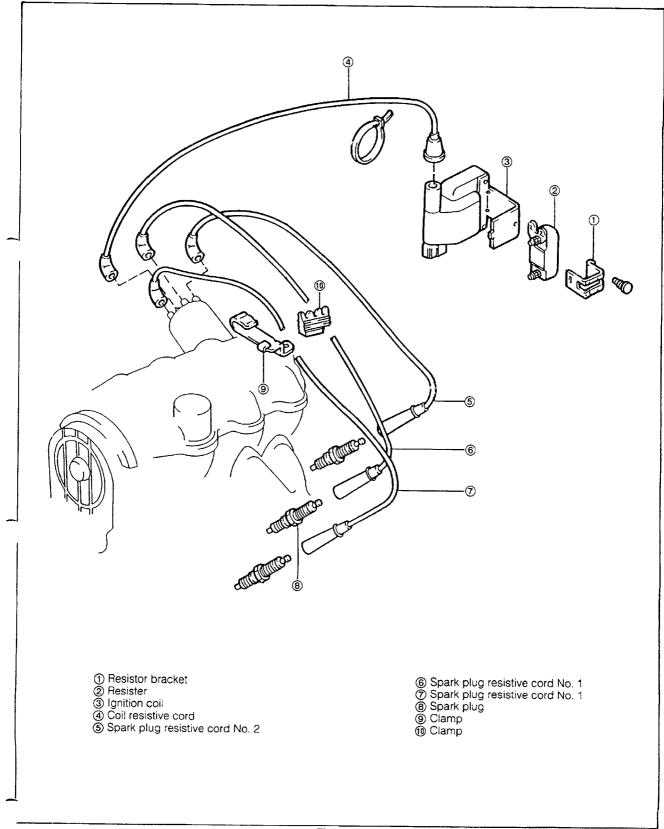






~ IGNITION SYSTEM

COMPONENTS OF IGNITION SYSTEM



ENGINE ELECTRICAL SYSTEM

INSPECTION [CB-23 & CB-61 Engine]

- 1. Ignition coil
 - (1) Primary coil resistance measurement Measure the resistance between the positive (+) terminal and the negative (-) terminal.

Resistance: $0.9 - 1.1 \Omega$

(2) Secondary coil resistance measurement Measure the resistance between the positive (+) terminal and the high tension terminal.

Resistance: $20.7 - 25.3 \text{ k}\Omega$

(3) Insulator resistance measurement Measure the resistance between the positive (+) terminal and the coil case.

Resistance: Infinity

(4) Resistor resistance measurement

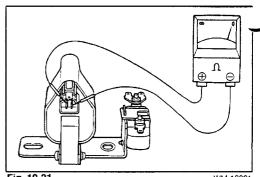
Resistance: $1.53 - 1.87 \Omega$

High tension cord check

1. Carefully remove the high tension cord holding the rubber boot.

NOTE:

Pulling out or bending the cord may damage the inner conductor.



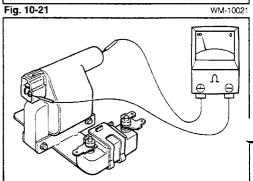
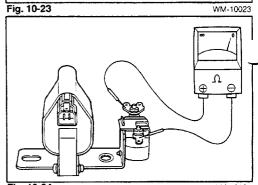
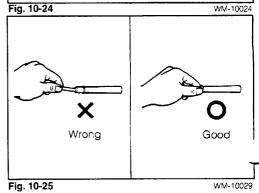


Fig. 10-22 WM-10022





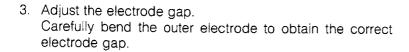
Measure the resistance of each high tension cord.

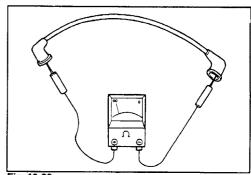
Resistance:

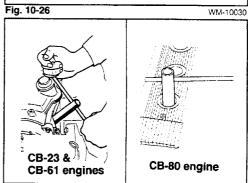
	CB-23 engine	CB-61 engine	CB-80 engine
Cord No.1	6.8 - 10.0	6.8 - 10.0	3.2 - 4.8
Cord No.2	8.1 - 12.1	8.1 - 12.1	4.6 - 7.0
Cord No.3	8.1 - 12.1	8.1 - 12.1	7.0 - 10.3
Central cord	6.1 - 9.2	6.1 - 9.2	5.1 - 7.7

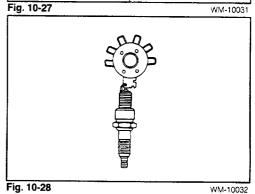
Spark plugs

- 1. Remove the spark plug.
- 2. Clean and check the spark plug.
 - (1) Clean the spark plug with a plug cleaner or wire brush.
 - (2) Inspect the spark plug to see if any damage is present at the electrode wire, thread or insulator.









Spark Plug Specifications

Engine type	CB-23					CB-61				CB-80	
anufacturer	DENSO	NGK		BOSCH	CHAMPION	DENSO	NGK	BOSCH	CHAMPION	DENSO	
ECE & EEC Specifications	W16EXR-U	BPR5EA-L	BPR5EY	WR8DC	RN-11YC	W16EXR-U W20EXR-U	BPR5EY BPR6EY	WR8DC WR7DC	RN-9YC RN-11YC	W20ETR-L	W22ETR-
Except ECE & EEC Specifications	W16EX-U	BP5EA-L	BP5EY	WBDC (X,Y)	N-11YC	W16EX-U W20EX-U	BP5EY BP6EY	W8DC (X,Y) W7DC (X,Y)	N-9YL N-11YC	W20ET-L	W22ET-I
Spark plug gap mm (inch)		- 0.8 - 0.031)	O.8 - O.9 (0.031 - 0.036)		- 0.8 - 0.031)	0.7 - 0.8 (0.028 - 0.031)	0.8 - 0.9 (0.032 - 0.036)	0.7 - (0.028 -		0.9 - (0.035 -	

4. Install the spark plugs.

WM-10033