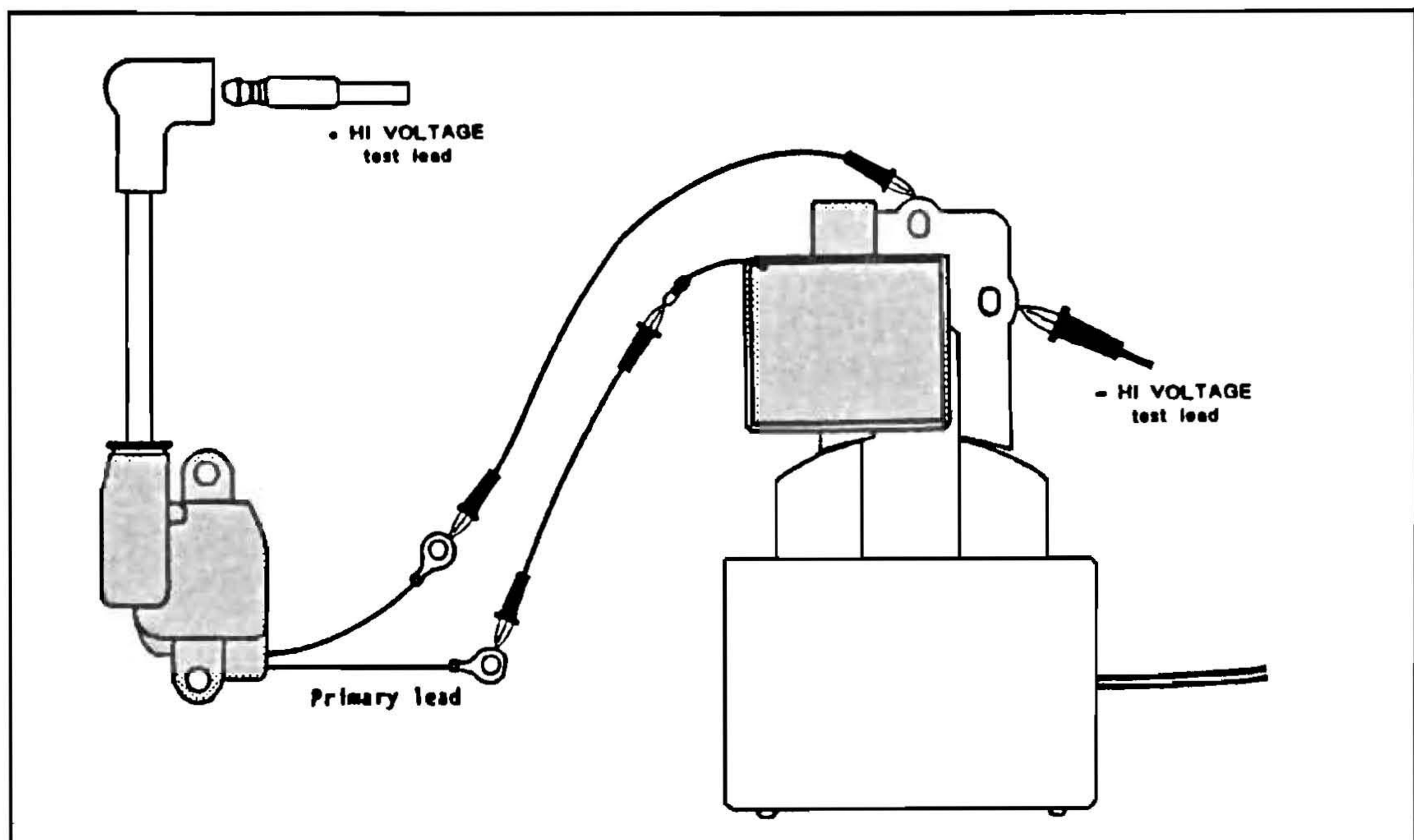


## TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator (FS1) to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the metal laminations of the ignition coil.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Place the ignition unit onto the simulator, line up the metal laminations of the ignition unit with the metal laminations of the simulator.
7. Switch power to ON.
8. Slowly move the ignition unit into different positions on the simulator until there is a steady spark across the gap.
9. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
10. If there is a steady spark across the gap, then slowly increase the spark gap to 6mm.
11. If spark is weak or intermittent at 6mm, then ignition unit is faulty.
12. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.



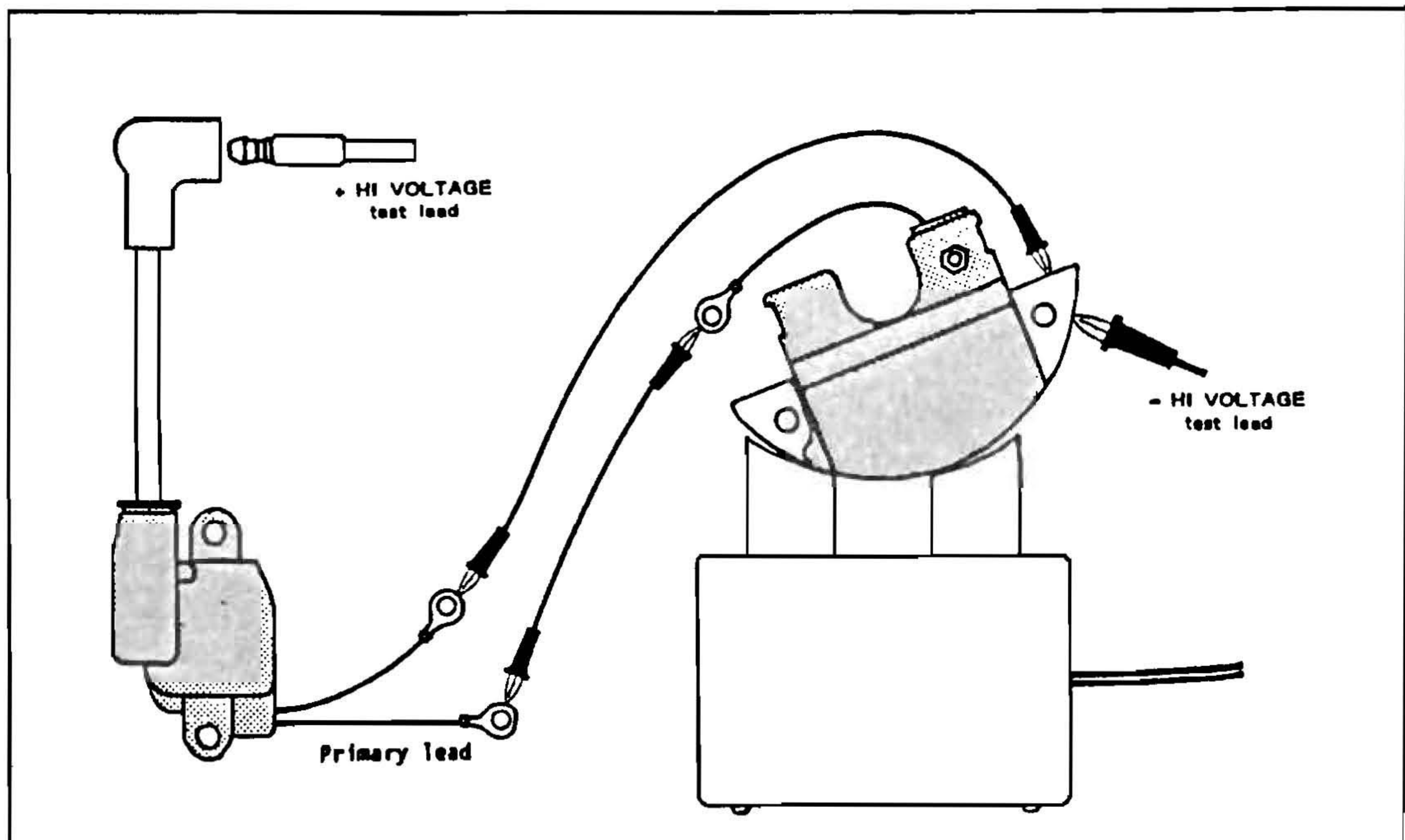


### TESTING 2 PART C.D.I. SYSTEM

Be sure that the AC. power switch is in the OFF position.

1. Test ignition coil using the CDI Coil Test feature on the meter. (see page 2 )
2. If coil is OK, then proceed with steps 4 to 14.
3. If coil is faulty, then connect another coil (any type of coil will do for this test) to the CDI unit using the jumper leads provided.
4. Fit Flywheel simulator FS1 to meter.
5. Set spark gap to 3mm.
6. Press GREY coil button.
7. Conect (-) high voltage test lead to the metal base of the CDI unit.
8. Connect (+) high voltage test lead to the spark plug lead.
9. Place CDI unit onto the simulator.
10. Switch power to ON.
11. Slowly move the CDI unit into different positions on the simulator until there is a steady spark across the gap.
12. If there is no spark across a 4mm spark gap, then CDI unit is faulty.
13. If there is a steady spark across the gap, then slowly increase the spark gap to 6mm.
14. If spark is weak or intermittent at 6mm, then CDI unit is faulty.
15. If CDI unit is OK, then connect the Insulation probe into the probe socket on meter and pass over spark plug lead and around the ignition coil for high voltage leakage.



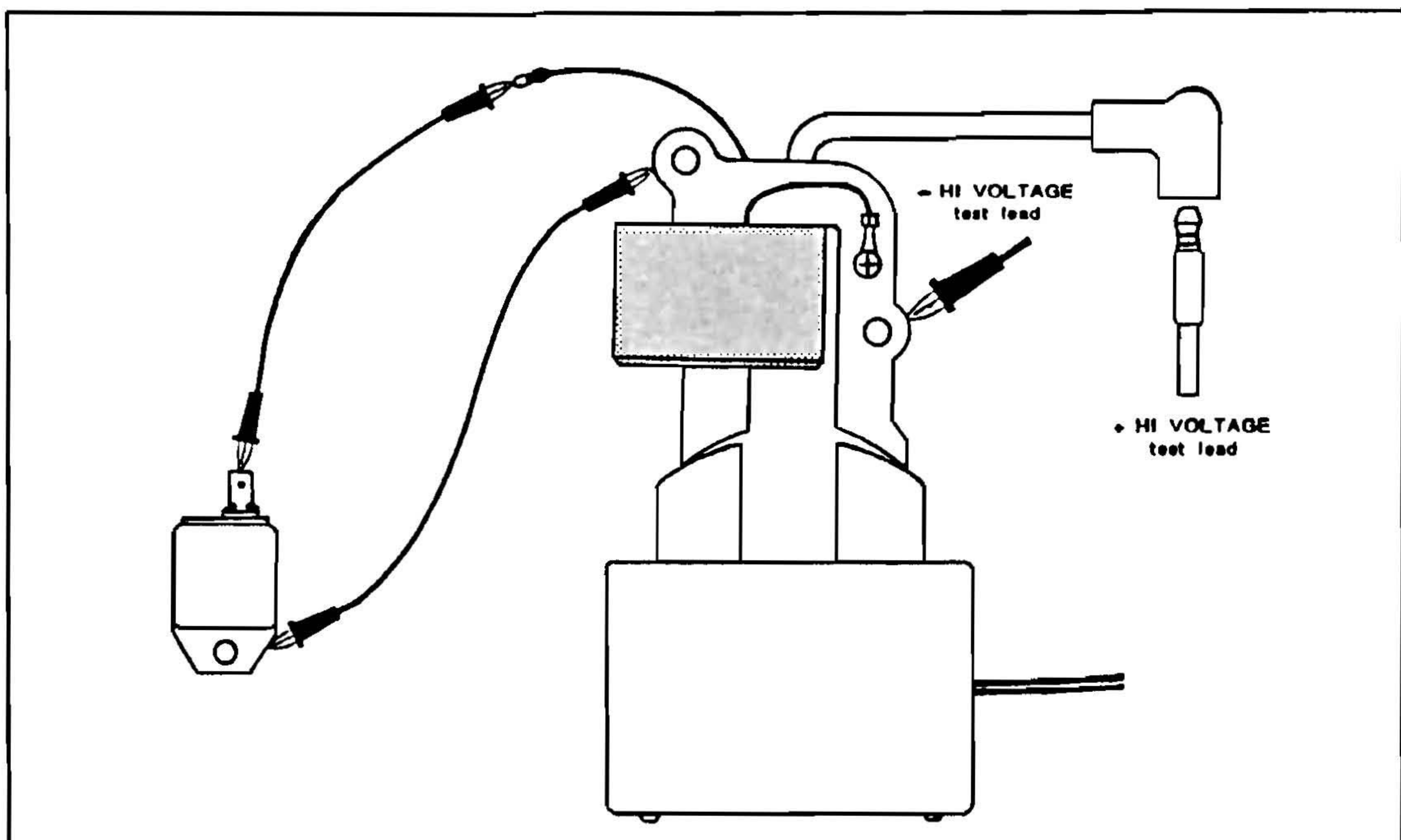


## TESTING 2 PART C.D.I. SYSTEM

Be sure that the AC. power switch is in the OFF position

1. Test Ignition coil using the CDI Coil Test feature on the meter. (see page 2 )
2. If coil is OK, then proceed with steps 4 to 14.
3. If coil is faulty, then connect another coil (any type of coil will do for this test) to the CDI unit using the jumper leads provided.
4. Fit Flywheel simulator FS2 to meter.
5. Set spark gap to 3mm.
6. Press GREY coil button.
7. Connect the (-) high voltage test lead to the metal base of the CDI unit.
8. Connect the (+) high voltage test lead to the spark plug lead.
9. Place CDI unit onto the simulator.
10. Switch power to ON.
11. Slowly move the CDI unit into different positions on the simulator until there is a steady spark across the gap.
12. If there is no spark across a 3mm spark gap, then CDI unit is faulty.
13. If there is a steady spark across the gap, then slowly increase the spark gap to 6mm.
14. If spark is weak or intermittent at 6mm, then CDI unit is faulty.
15. If CDI unit is OK, then connect the insulation probe into the probe socket on meter and pass over spark plug lead and around the ignition coil for high voltage leakage.



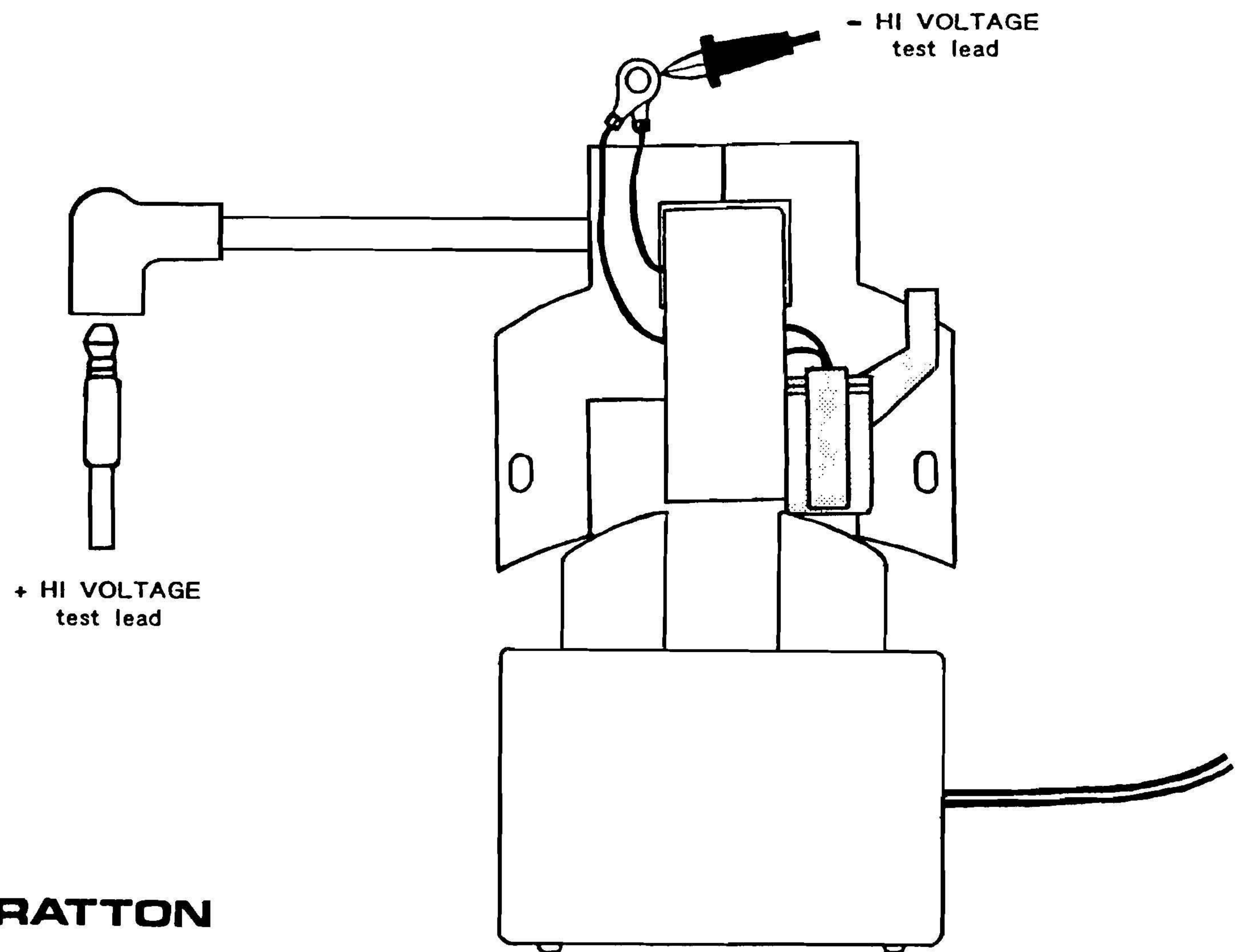


### TESTING T.C.I. TRIGGER MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit Flywheel simulator (FS1) to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect (-) high voltage test lead to metal laminations of ignition coil, or ground wire coming out of coil.
5. Connect (+) high voltage test lead to spark plug lead.
6. Connect one jumper lead between the ignition coil primary terminal and the coil primary terminal on the trigger plate.
7. Connect other jumper lead to metal lamination of ignition coil (or ground wire) and to the TCI module ground.
8. Place the ignition coil onto the simulator, line up the metal laminations of the coil with the metal laminations of the simulator.
9. Switch power to ON.
10. Slowly move the ignition coil into different positions on the simulator until there is a steady spark across the gap.
11. If there is no spark across a 3mm spark gap, then trigger plate is faulty.
12. If there is a steady spark across the gap, then slowly increase the spark gap to approximately 6mm.
13. If spark is weak or intermittent at 6mm, then TCI unit is faulty.





## BRIGGS & STRATTON

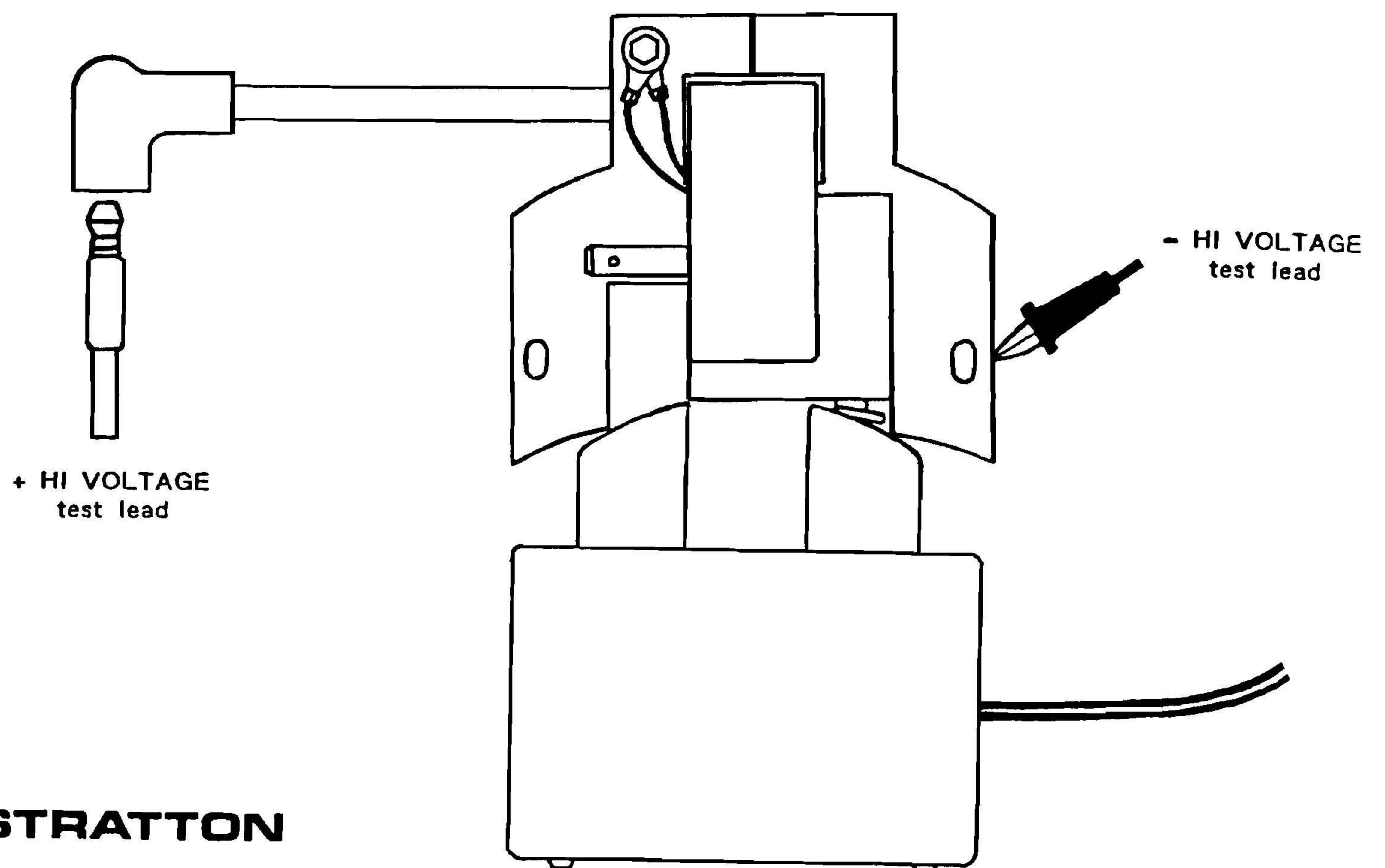
PART	PART No	SPARK GAP
RETROFIT ARMATURE	395492	6 mm.
MAGNETRON MODULE	394970	

### TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





## BRIGGS & STRATTON

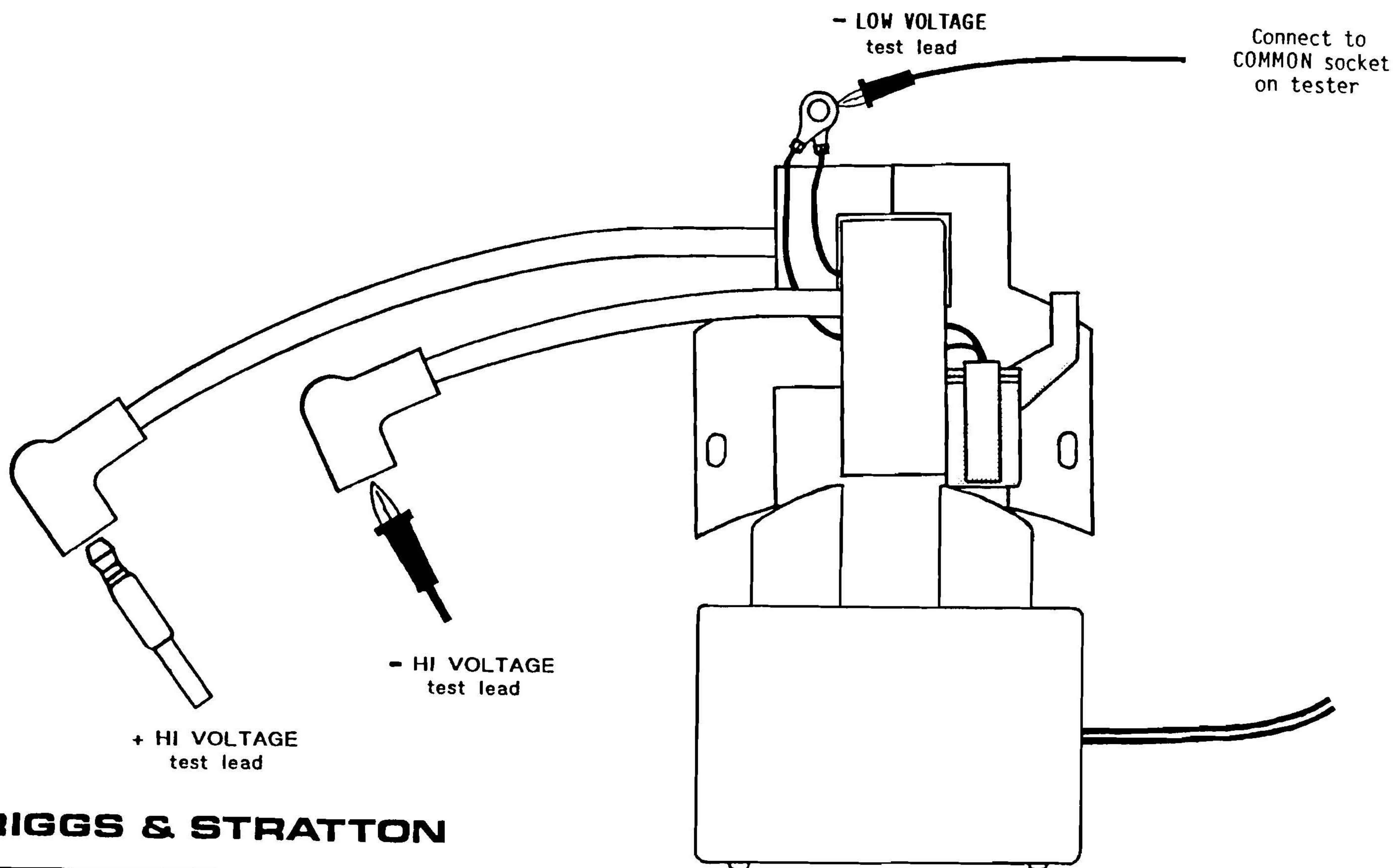
PART	PART No	SPARK GAP
COMPOSITE MAGNETRON ASSY	398811	6 mm.

### TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





## BRIGGS & STRATTON

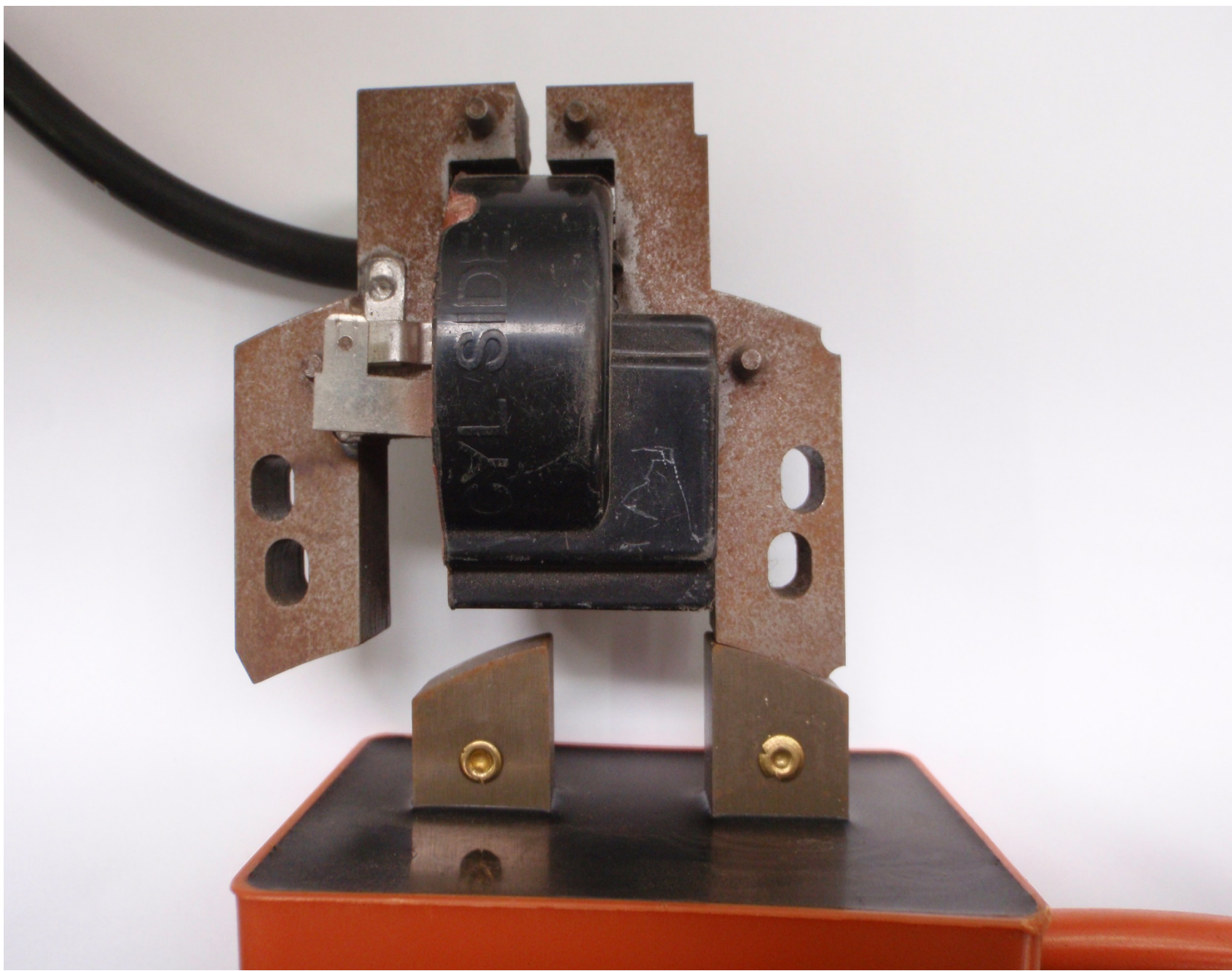
PART	PART No	SPARK GAP
RETROFIT ARMATURE	394891	6mm.
MAGNETRON MODULE	394970	

### TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





**BRIGGS & STRATTON**

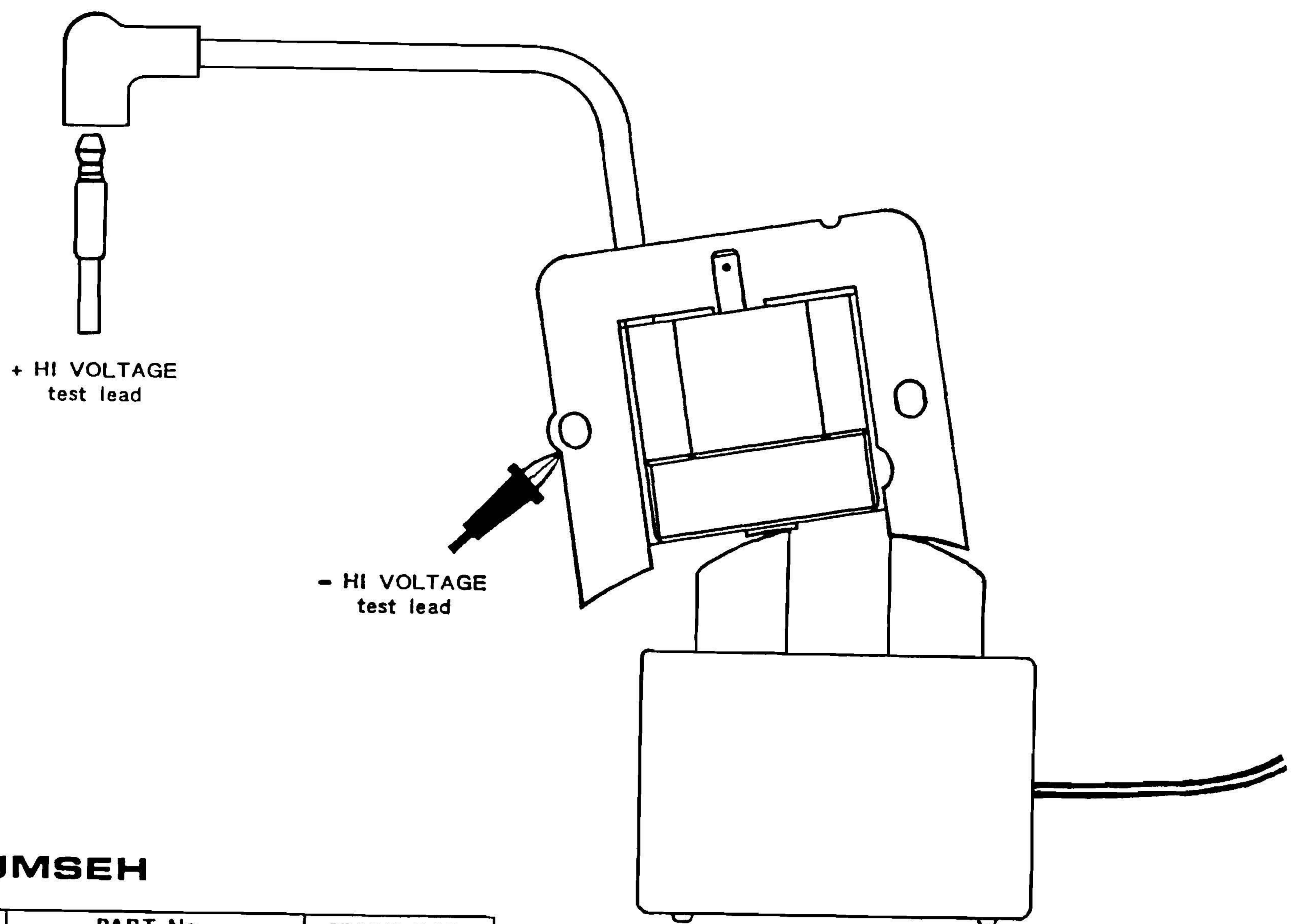
PART	ENGINE	SPARK GAP
CCNPOSITE MAGNETRON ASSY	SERIES 280000	5 - 6 mm.

TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





## TECUMSEH

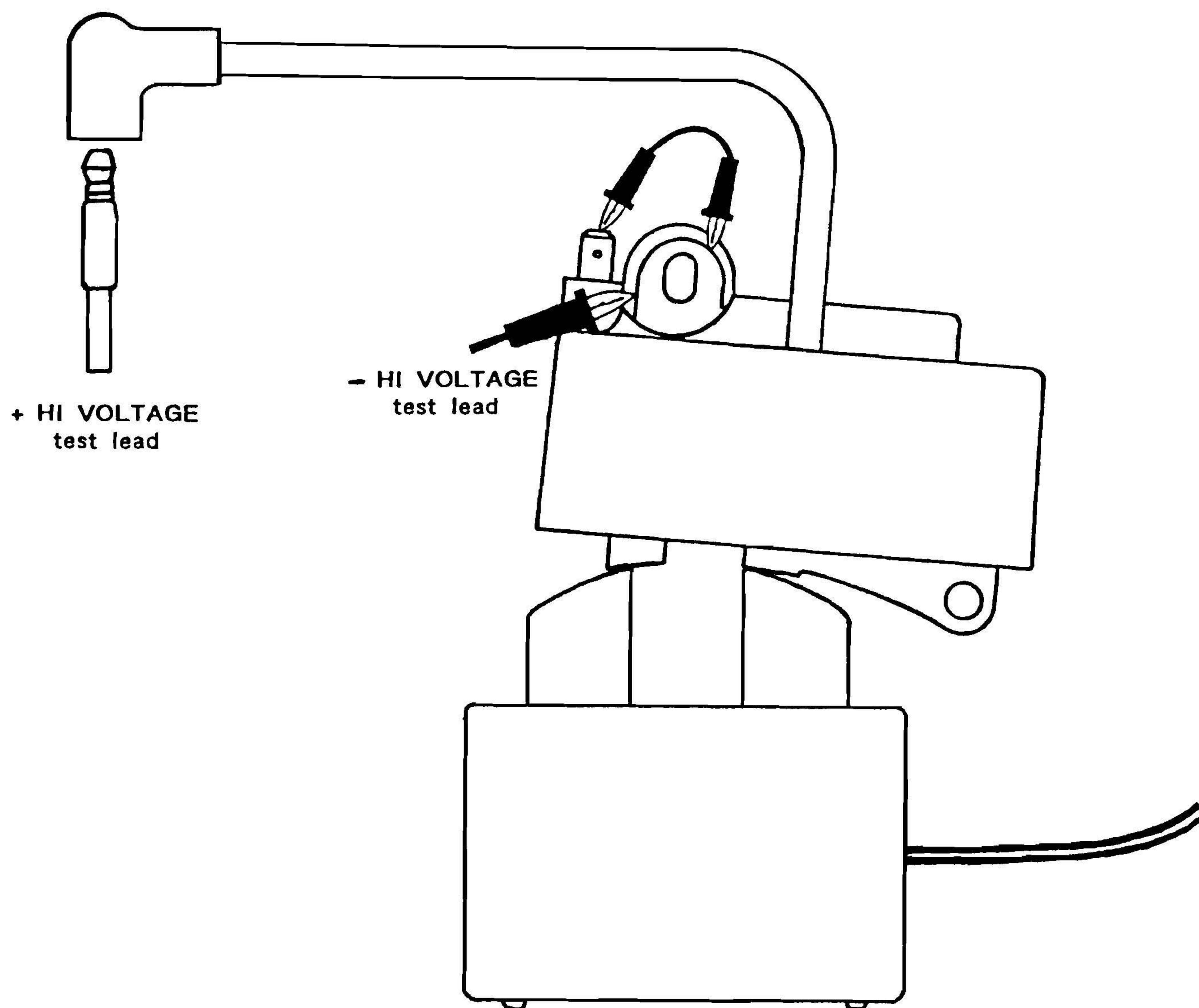
PART	PART No	SPARK GAP
SOLID STATE IGNITION MODULE (ONE PIECE)	34443	6mm.

### TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





**O.M.C.**

PART	ENGINE	SPARK GAP
SOLID STATE IGNITION MODULE (ONE PIECE)	LAWN BOY "F" SERIES ENGINE	6 mm.

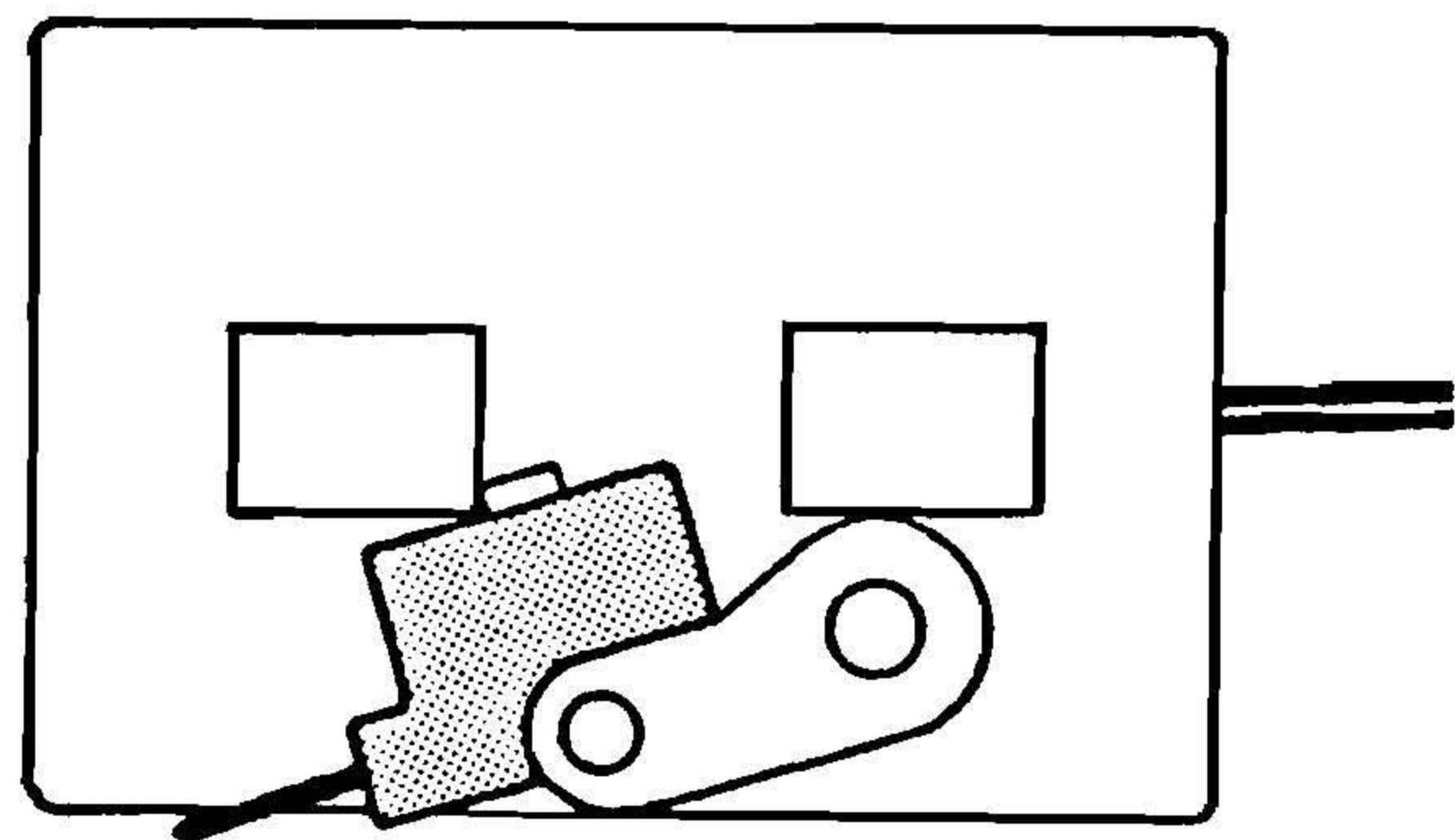
Connect JUMPER lead from IGN.switch terminal on the CD.MODULE to the metal laminations of the CD.MODULE.

### TESTING ONE PIECE SOLID STATE IGNITION MODULE

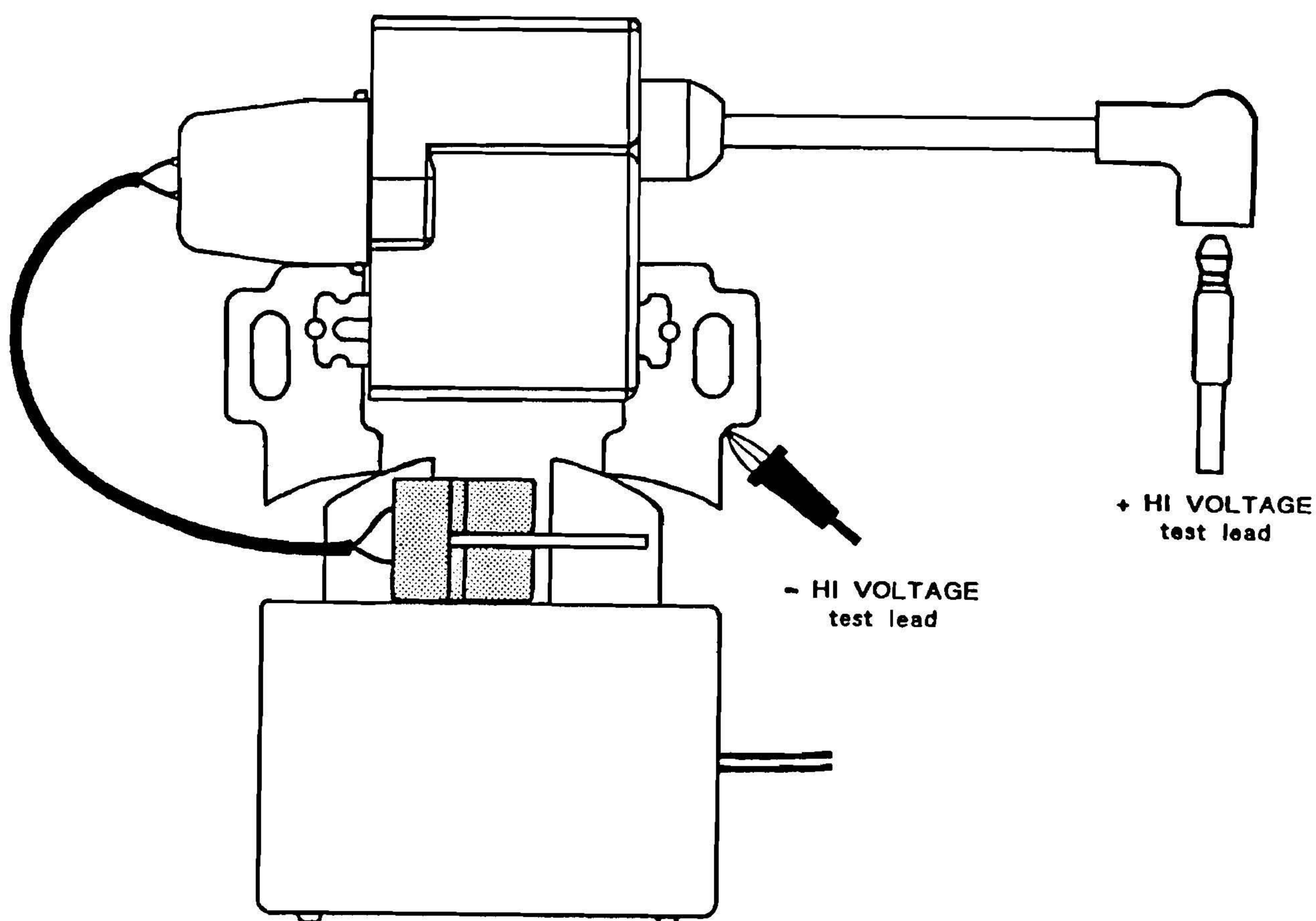
Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





PULSER COIL  
TOP VIEW



**HONDA**

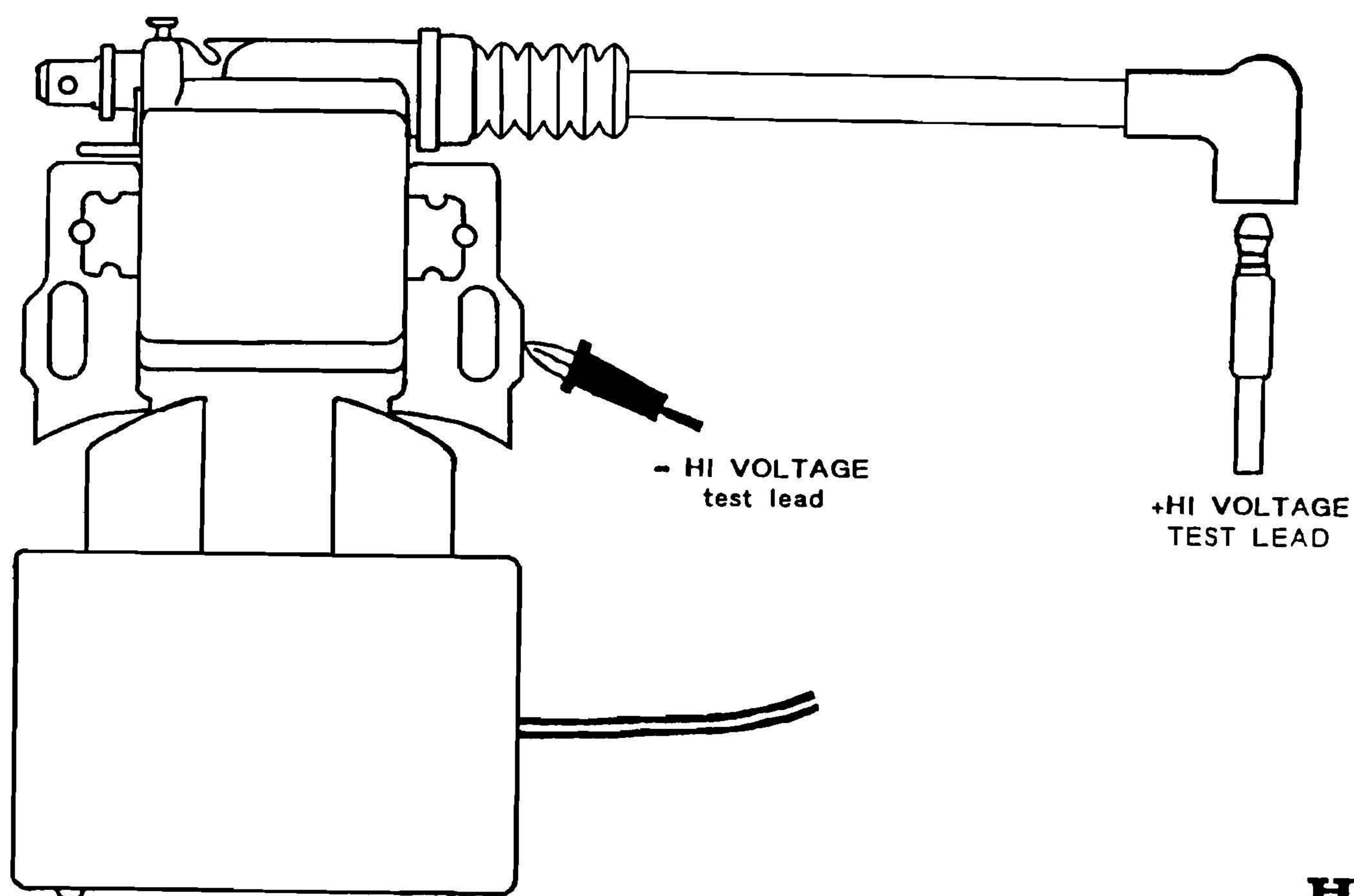
PART No	ENGINE	SPARK GAP
IGNITION COIL 30500 - ZE3 - 003	GX340	6mm.
PULSER COIL 30410 - ZE3 - 003		

### TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





**HONDA**

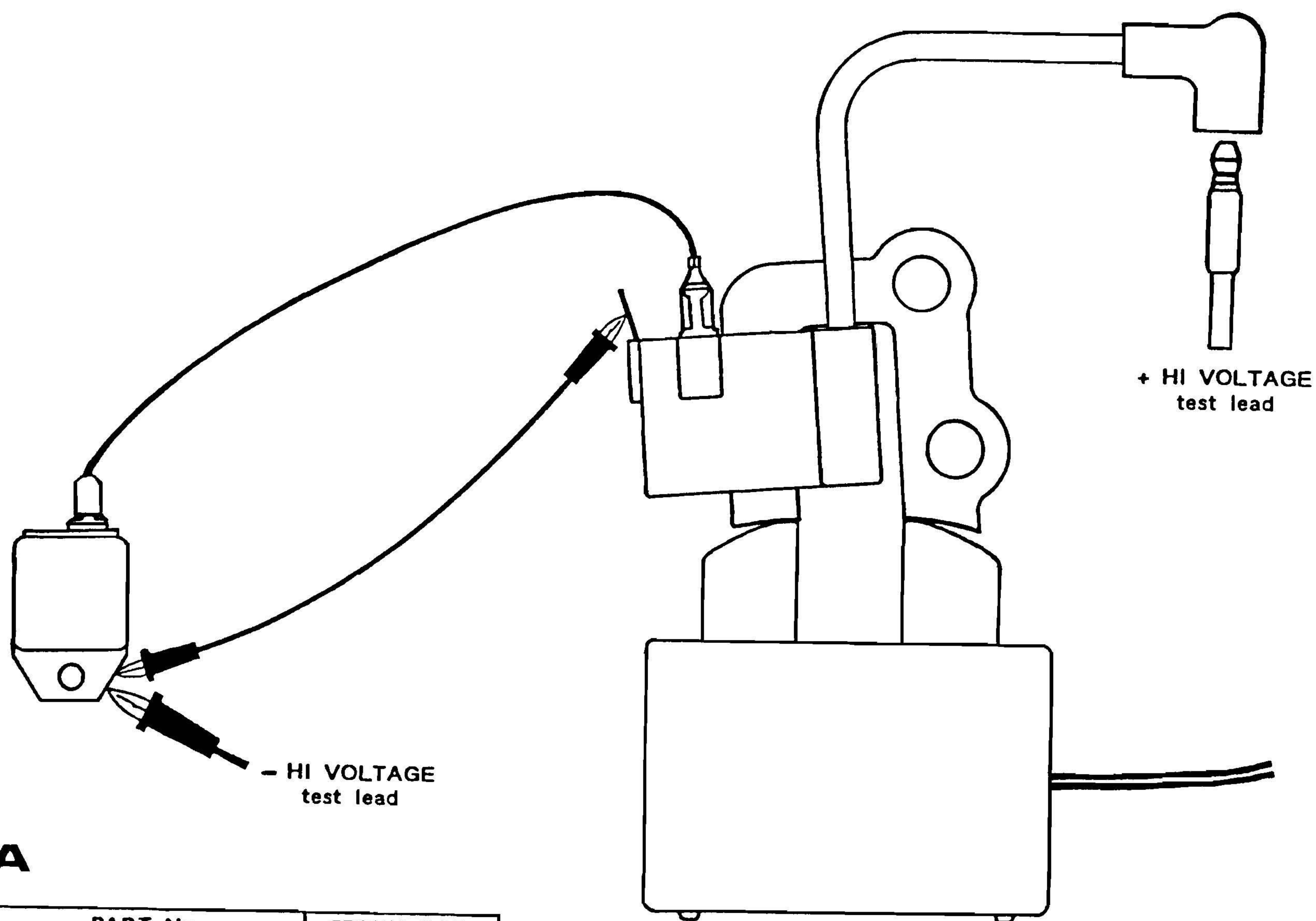
PART No	ENGINE	SPARK GAP
SOLID STATE IGNITION MODULE (ONE PIECE)	GX. 110 GX. 140 GX. 240	6mm.

### TESTING ONE PIECE SOLID STATE IGNITION MODULE

Be sure that the AC. power switch is in the OFF position.

1. Fit the Flywheel simulator to meter.
2. Set spark gap to 3mm.
3. Press GREY coil button.
4. Connect the (-) high voltage test lead to the ignition module as above.
5. Connect the (+) high voltage test lead to the spark plug lead.
6. Set up as shown above.
7. Switch power to ON.
8. If there is no spark across a 3mm spark gap, then the ignition unit is faulty.
9. If there is a steady spark across the gap, then slowly increase the gap to the above recommendation.
10. If spark is weak or intermittent at recommended gap, then ignition unit is faulty.
11. If ignition unit is OK, then connect the insulation probe into socket on meter and pass over spark plug lead and around the ignition unit for high voltage leakage.





**VICTA**

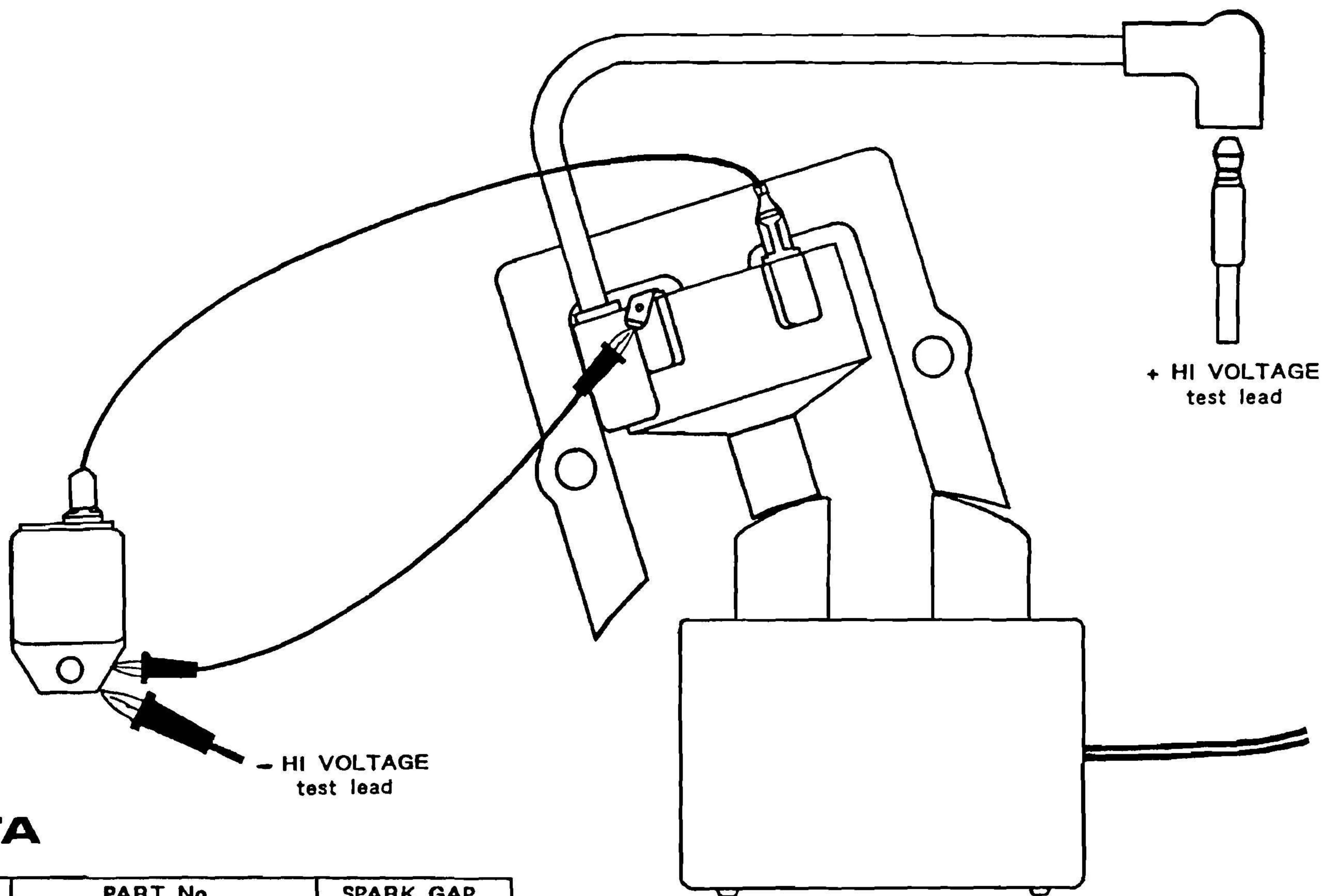
PART	PART No	SPARK GAP
IGNITION COIL	MAO 5556 A.	6 mm.
TCI. MODULE	MAO 5617 A.	

### TESTING TCI MODULE

Be sure that the AC. power switch is in the OFF position.

1. Test ignition coil using the Coil Power Test feature on the meter.  
(see page 19 in the "Imrie 3000 OWNERS OPERATING MANUAL")  
If coil is OK, then proceed with steps 2 to 11.  
If coil is faulty then use a **known** good coil.
2. Fit Flywheel simulator (FS1) to meter.
3. Set spark gap to 3mm.
4. Press GREY coil button.
5. Connect (-) high voltage test lead to ignition coil as above.
6. Connect (+) high voltage test lead to spark plug lead.
7. Connect TCI module between ignition coil PRIMARY and GROUND as above.
8. Set up ignition coil on simulator as above.
9. Switch power to ON.
10. If there is no spark across a 3mm spark gap, then TCI module is faulty.
11. If there is a steady spark across the gap, then slowly increase the spark gap to the above recommendation.
12. If spark is weak or intermittent at the recommended gap, then TCI module is faulty.





**VICTA**

PART	PART No	SPARK GAP
IGNITION COIL	MAO 5529 P.	6 mm.
TCI. MODULE	MAO 5617	

### TESTING TCI MODULE

Be sure that the AC. power switch is in the OFF position.

- Test ignition coil using the Coil Power Test feature on the meter.  
(see page 19 in the "Imrie 3000 OWNERS OPERATING MANUAL")  
If coil is OK, then proceed with steps 2 to 11.  
If coil is faulty then use a **known** good coil.
- Fit Flywheel simulator (FS1) to meter.
- Set spark gap to 3mm.
- Press GREY coil button.
- Connect (-) high voltage test lead to ignition coil as above.
- Connect (+) high voltage test lead to spark plug lead.
- Connect TCI module between ignition coil PRIMARY and GROUND as above.
- Set up ignition coil on simulator as above.
- Switch power to ON.
- If there is no spark across a 3mm spark gap, then TCI module is faulty.
- If there is a steady spark across the gap, then slowly increase the spark gap to the above recommendation.
- If spark is weak or intermittent at the recommended gap, then TCI module is faulty.