

affixed to cover. Rotate sensor driven gear (1) to align holes in the driven gear and the sensor, then insert alignment pin in hole (2). Install sensor assembly on carburetor shaft and lightly tighten mounting screws in the center of adjusting slots. With carburetor throttle valves fully closed, install drive gear (5), aligning the timing marks on drive and driven gears (Fig. SZ20-11). Make sure throttle valves are fully closed, then install and tighten throttle shaft nut (4—Fig. SZ20-10), tighten sensor mounting screws, remove alignment pin and affix to sensor cover and install sensor cover.

To adjust throttle valve sensor, remove oil pump control rod from pump lever and disconnect throttle valve sensor wires. Connect the red test lead of ohmmeter to the light green/red wire and black test lead to the black sensor wire. With throttle valves fully closed, resistance should be 200-250 ohms on models prior to 1989 and 225-275 on models after 1988. If not, first make sure throttle valves are fully closed, then loosen sensor mounting screws and rotate sensor as necessary to obtain 230 ohms on models prior to 1989 and 250 ohms on models after 1988. Retighten

sensor screws securely and reconnect oil pump control rod.

CDI MODULE. Test CDI module output using a Stevens Model CD-77 or a suitable equivalent peak reading voltmeter. Follow instructions included with tester.

COOLING SYSTEM

WATER PUMP. A rubber impeller type water pump is mounted between the drive shaft housing and gearcase. A key in the drive shaft is used to turn the

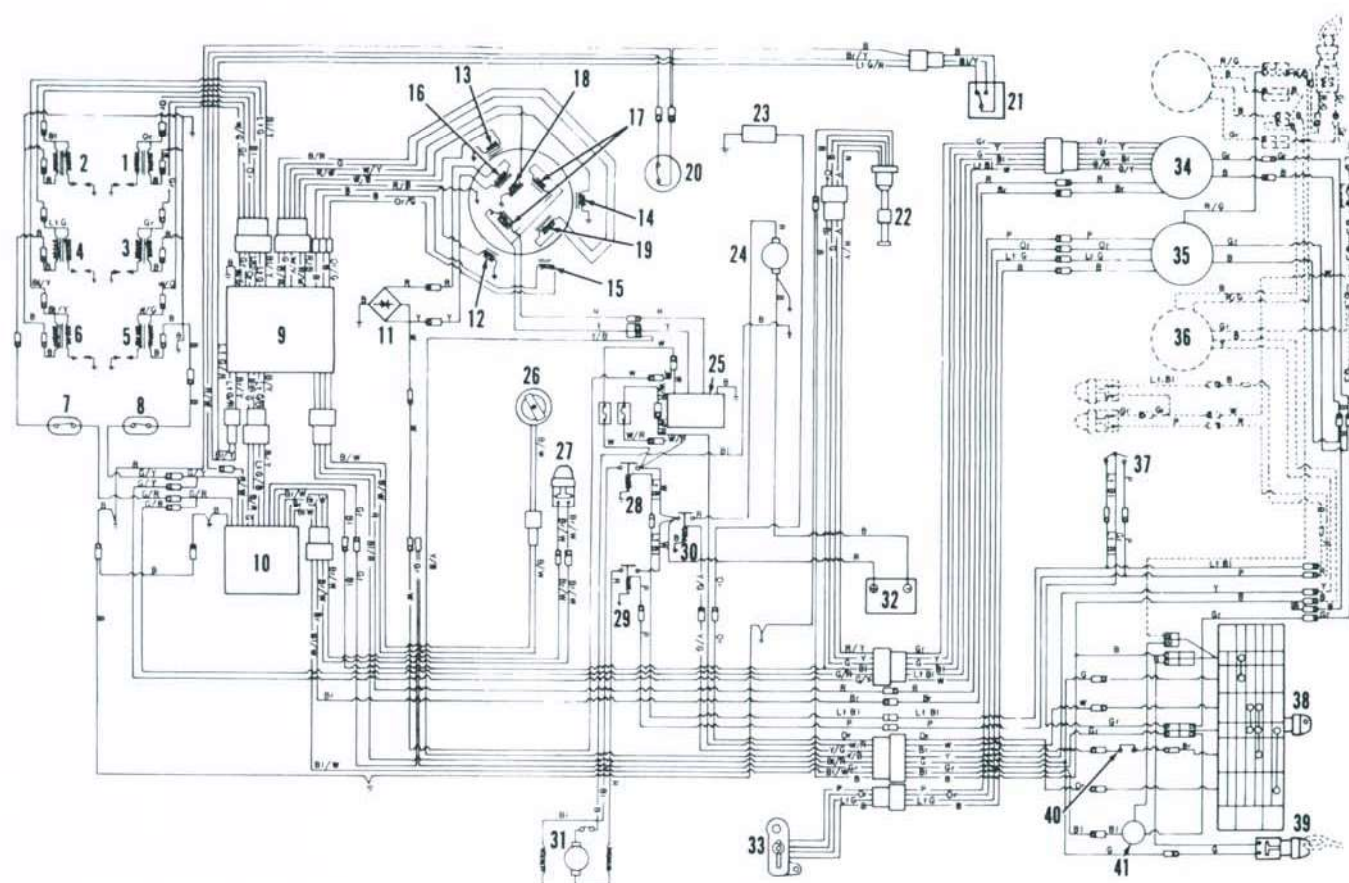


Fig. SZ20-9—Wiring diagram typical of early DT150 and DT200 models. Model DT150SS and later DT150, DT175 and DT200 models are similar.

1. Ignition coil (No. 1 cyl.)
2. Ignition coil (No. 2 cyl.)
3. Ignition coil (No. 3 cyl.)
4. Ignition coil (No. 4 cyl.)
5. Ignition coil (No. 5 cyl.)
6. Ignition coil (No. 6 cyl.)
7. Cooling water sensor (port side)
8. Cooling water sensor (starboard side)
9. CDI module
10. Low oil warning reset unit
11. Rectifier
12. Pulser coil (No. 1)

13. Pulser coil (No. 2)
14. Pulser coil (No. 3)
15. Counter coil
16. Battery charging coil (No. 1)
17. Battery charging coil (No. 2 & 3)
18. IC power source coil
19. Condenser charging coil
20. Oil flow sensor
21. Throttle plate sensor
22. Oil level switch
23. Starter valve
24. Starter motor

25. Rectifier with voltage regulator
26. Idle speed control knob
27. Oil warning reset switch
28. Power tilt & trim motor "UP" relay
29. Power tilt & trim motor "DOWN" relay
30. Starter motor relay
31. Power tilt & trim motor
32. Battery
33. Trim sender
34. Monitor
35. Trim meter
36. Tachometer

37. Power tilt & trim switch
38. Ignition switch
39. Emergency stop switch
40. Neutral switch
41. Overheat & oil warning buzzer
- B. Black
- G. Green
- P. Pink
- R. Red
- W. White
- Y. Yellow
- Bl. Blue
- Br. Brown
- Gr. Gray
- Lt Bl. Light blue
- Lt G. Light green
- Or. Orange
- B/R. Black with red tracer

- B/W. Black with white tracer
- B/Y. Black with yellow tracer
- Bl/R. Blue with red tracer
- Bl/W. Blue with white tracer
- Bl/Y. Blue with yellow tracer
- Br/W. Brown with white tracer
- Br/Y. Brown with yellow tracer
- G/R. Green with red tracer
- G/Y. Green with yellow tracer
- Lt. G/B. Light green with black tracer
- Lt. G/R. Light green with red tracer

- Or/G. Orange with green tracer
- R/B. Red with black tracer
- R/G. Red with green tracer
- R/W. Red with white tracer
- R/Y. Red with yellow tracer
- W/B. White with black tracer
- W/G. White with green tracer
- W/R. White with red tracer
- W/Y. White with yellow tracer
- Y/B. Yellow with black tracer
- Y/G. Yellow with green tracer