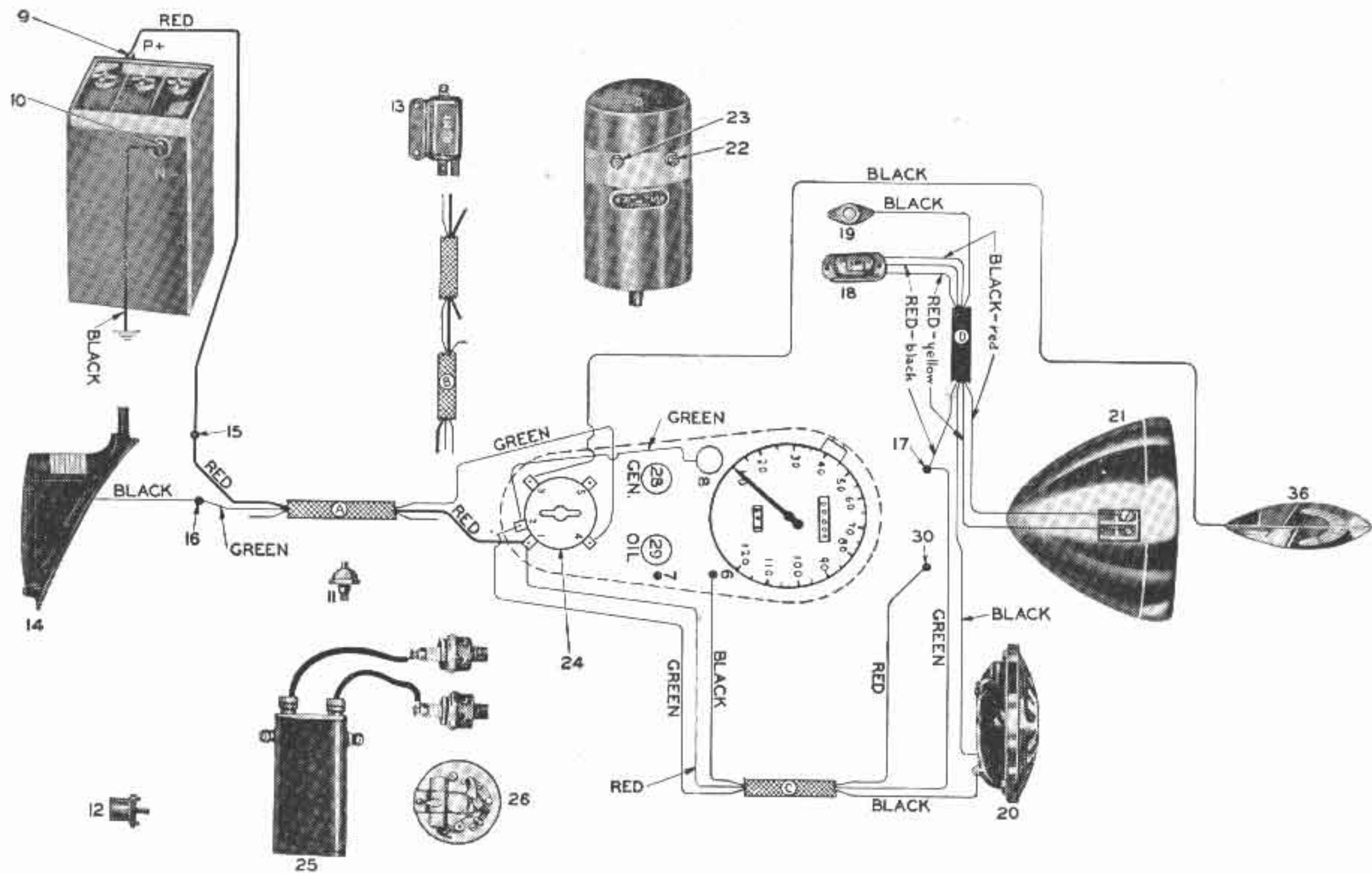


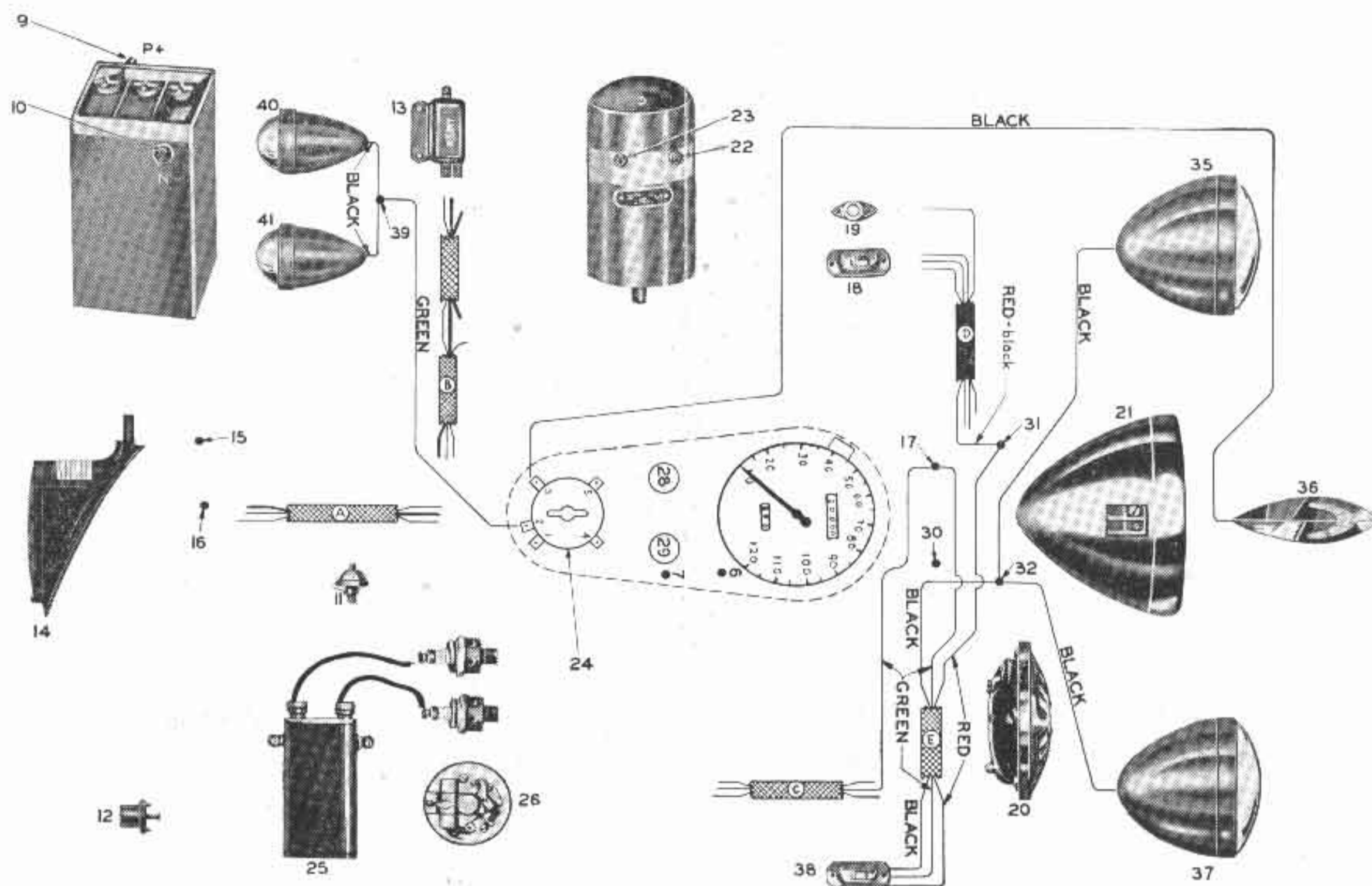
Wiring Diagram: Generator — Battery; Ignition; Horn; Generator and Oiling System Signal Lights and Stop Lamp — 1947 Models

- A. THREE WIRE CABLE—Green wire; red wire; black wire.
 B. THREE WIRE CABLE—Green wire; red wire; black wire.
 C. THREE WIRE CABLE—Green wire; red wire; black wire.
 D. LOOM (four wires)—Black wire with red tracer; red wire with yellow tracer; red wire with black tracer; black wire.
1. SWITCH TERMINAL—Cable "A" red wire from junction terminal (15); cable "B" red wire from relay (13) (terminal marked "BAT").
 2. SWITCH TERMINAL—Cable "B" green wire from generator "switch" terminal (22).
 5. SWITCH TERMINAL—Black wire from junction terminal (6).
 6. JUNCTION TERMINAL—Cable "C" black wire from horn (20); black wire from oil signal light (29); black wire from generator signal light (28); black wire from switch terminal (5); cable "A" black wire from coil front terminal.
 7. JUNCTION TERMINAL—Cable "B" black wire from relay (13); green wire from generator signal light (28).
 9. BATTERY POSITIVE TERMINAL (left side)—Red wire from junction terminal (15).
 10. BATTERY NEGATIVE TERMINAL (right side)—Black wire from ground terminal on frame.
 11. OIL PRESSURE SIGNAL SWITCH—Green wire from oil signal light (29).
 12. STOP LAMP SWITCH—Red wire from tail and stop lamp (14); green wire from coil front terminal.
 13. RELAY—Cable "B" red wire from switch terminal (1) to relay terminal marked "BAT"; cable "B" black wire from junction terminal (7); green wire from generator "relay" terminal (23).
14. TAIL AND STOP LAMP—Red wire from stop lamp switch (12).
 15. JUNCTION TERMINAL (in **right** side of motorcycle frame under saddle)—Cable "A" red wire from switch terminal (1); red wire from battery positive terminal (9).
 19. HORN SWITCH—Loom "D" black wire from horn (20).
 20. HORN—Loom "D" black wire from horn switch (19); cable "C" black wire from junction terminal (6).
 22. GENERATOR ("SWITCH") TERMINAL—Cable "B" green wire from switch terminal (2).
 23. GENERATOR ("RELAY") TERMINAL—Green wire from relay (13).
 24. IGNITION-LIGHT SWITCH (top view)—Switch is OFF when switch lock cover hinge is directly forward. Turn to first **right** position for ignition only. Switch is provided with lock and key to permit locking, if desired, when motorcycle is not in use. It can be locked in OFF and PARK positions only. When switch is unlocked and motorcycle is in use, key should be removed from lock.
 25. IGNITION COIL—Cable "A" black wire from junction terminal (6); green wire from stop lamp switch (12); black wire (low tension wire) from circuit breaker (26).
 26. IGNITION CIRCUIT BREAKER—Black wire (low tension wire) from coil rear terminal.
 28. GENERATOR SIGNAL LIGHT (marked "GEN")—Black wire from junction terminal (6); green wire from junction terminal (7).
 29. OIL PRESSURE SIGNAL LIGHT (marked "OIL")—Green wire from oil pressure signal switch (11); black wire from junction terminal (6).



Wiring Diagram: Lighting System and Horn — 1947 Models

- A. THREE WIRE CABLE—Green wire; red wire; black wire.
 C. THREE WIRE CABLE—Green wire; red wire; black wire.
 D. LOOM (four wires)—Black wire with red tracer; red wire with yellow tracer; red wire with black tracer; black wire.
1. SWITCH TERMINAL—Cable "A" red wire from junction terminal (15); cable "C" red wire from junction terminal (30).
 2. SWITCH TERMINAL—Cable "C" green wire from junction terminal (17); green wire from speedometer light (8).
 3. SWITCH TERMINAL—Black wire from mudguard lamp (36).
 4. SWITCH TERMINAL—Cable "A" green wire from junction terminal (16).
 6. JUNCTION TERMINAL—Cable "C" black wire from horn (20).
 8. SPEEDOMETER LIGHT—Green wire from switch terminal (2).
 9. BATTERY POSITIVE TERMINAL (left side)—Red wire from junction terminal (15).
 10. BATTERY NEGATIVE TERMINAL (right side)—Black wire from ground terminal on frame.
 14. TAIL AND STOP LAMP—Black wire from junction terminal (16).
 15. JUNCTION TERMINAL (in **right** side of motorcycle frame under saddle)—Cable "A" red wire from switch terminal (1); red wire from battery positive terminal (9).
 16. JUNCTION TERMINAL (in left side of motorcycle frame under saddle)—Cable "A" green wire from switch terminal (4); black wire from tail and stop lamp (14).
 17. JUNCTION TERMINAL (**front** terminal—left side, in headlamp bracket)—Cable "C" green wire from switch terminal (2); loom "D" red wire with black tracer from handlebar toggle switch (18).
 18. HANDLEBAR TOGGLE SWITCH—Loom "D" black wire with red tracer from headlamp large terminal screw; loom "D" red wire with yellow tracer from headlamp small terminal screw; loom "D" red wire with black tracer from junction terminal (17).
 19. HORN SWITCH—Loom "D" black wire from horn (20).
 20. HORN—Cable "C" black wire from junction terminal (6); loom "D" black wire from horn switch (19).
 21. HEADLAMP—Loom "D" black wire with red tracer from handlebar toggle switch (18) to large terminal screw; loom "D" red wire with yellow tracer from handlebar toggle switch (18) to small terminal screw. Note: Headlamp is shown in upside down position.
 24. IGNITION-LIGHT SWITCH (top view)—Switch is OFF when switch lock cover hinge is directly forward. Turn **left** for parking lights—first **right** position for ignition only—second right position for ignition and running lights. Bear in mind that lighting headlamp when engine is dead also turns ignition ON. Switch is provided with lock and key to permit locking, if desired, when motorcycle is not in use. It can be locked in OFF and PARK positions only. When switch is unlocked and motorcycle is in use, key should be removed from lock.
 30. JUNCTION TERMINAL—(**front** terminal—right side, in headlamp bracket)—Cable "C" red wire from switch terminal (1). This is a live terminal and can be used for accessory lamps independent of ignition-light switch.
 36. MUDGUARD LAMP—Black wire from switch terminal (3).



Wiring Diagram: Lighting System Accessory Lamps (does not apply to Police Pursuit Lamps) — 1947 Models

Note: With this method of wiring, when spotlamps are turned ON, headlamp is automatically turned OFF and vice-versa.

- C. THREE WIRE CABLE—Green wire; red wire; black wire.
- D. LOOM (four wires)—Black wire with red tracer; red wire with yellow tracer; red wire with black tracer; black wire.
- E. THREE WIRE CABLE (clamped on outside of right handlebar)—Green wire; red wire; black wire.
2. SWITCH TERMINAL—Green wire from junction terminal (39).
3. SWITCH TERMINAL—Black wire from mudguard lamp (36).
17. JUNCTION TERMINAL (**front** terminal—left side, in headlamp bracket)—Cable "C" green wire; cable "E" green wire from handlebar toggle switch (38). Note: Loom "D" red wire with black tracer is connected to this terminal for Standard Equipment Lighting System, but when installing spotlamps, it is disconnected from this terminal and reconnected to junction terminal (31).
31. JUNCTION TERMINAL (**side** terminal—left side, in headlamp bracket)—Cable "E" red wire from toggle switch (38); loom "D" red wire with black tracer.
32. JUNCTION TERMINAL (**side** terminal—right side, in headlamp bracket)—Black wires from spotlamps (35) and (37); cable "E" black wire from toggle switch (38).
35. SPOTLAMP—Black wire from junction terminal (32).
36. MUDGUARD LAMP—Black wire from switch terminal (3).
37. SPOTLAMP—Black wire from junction terminal (32).
38. HANDLEBAR TOGGLE SWITCH (clamped to right bar)—Cable "E" red wire from junction terminal (31); cable "E" green wire from junction terminal (17); cable "E" black wire from junction terminal (32).
39. JUNCTION TERMINAL (in saddle bar—right side)—Green wire from switch terminal (2); black wires from saddle lamps (40) and (41).
40. SADDLE LAMP—Black wire from junction terminal (39).
41. SADDLE LAMP—Black wire from junction terminal (39).

Lamp Bulbs For 1947 Models

	Contact	Candlepower	Part No.
Headlamp (pre-focused)	D.C.	32-21	4925-35
Speedometer light	S.C.	1	4513-47
Generator signal light.....	S.C.	1	4513-47
Oil pressure signal light.....	S.C.	1	4513-47
Stop and tail lamp (motorcycle and sidecar).....	D.C.	21-3	5058-47
Mudguard lamp (motorcycle and sidecar).....	S.C.	3	4927-15
Spotlamp	S.C.	32	4925-20
Police pursuit lamp.....	S.C.	32	4925-20
Saddle and parking lamp.....	S.C.	3	4927-15

Harley-Davidson Motor Company

Milwaukee 1, Wisconsin, U. S. A.