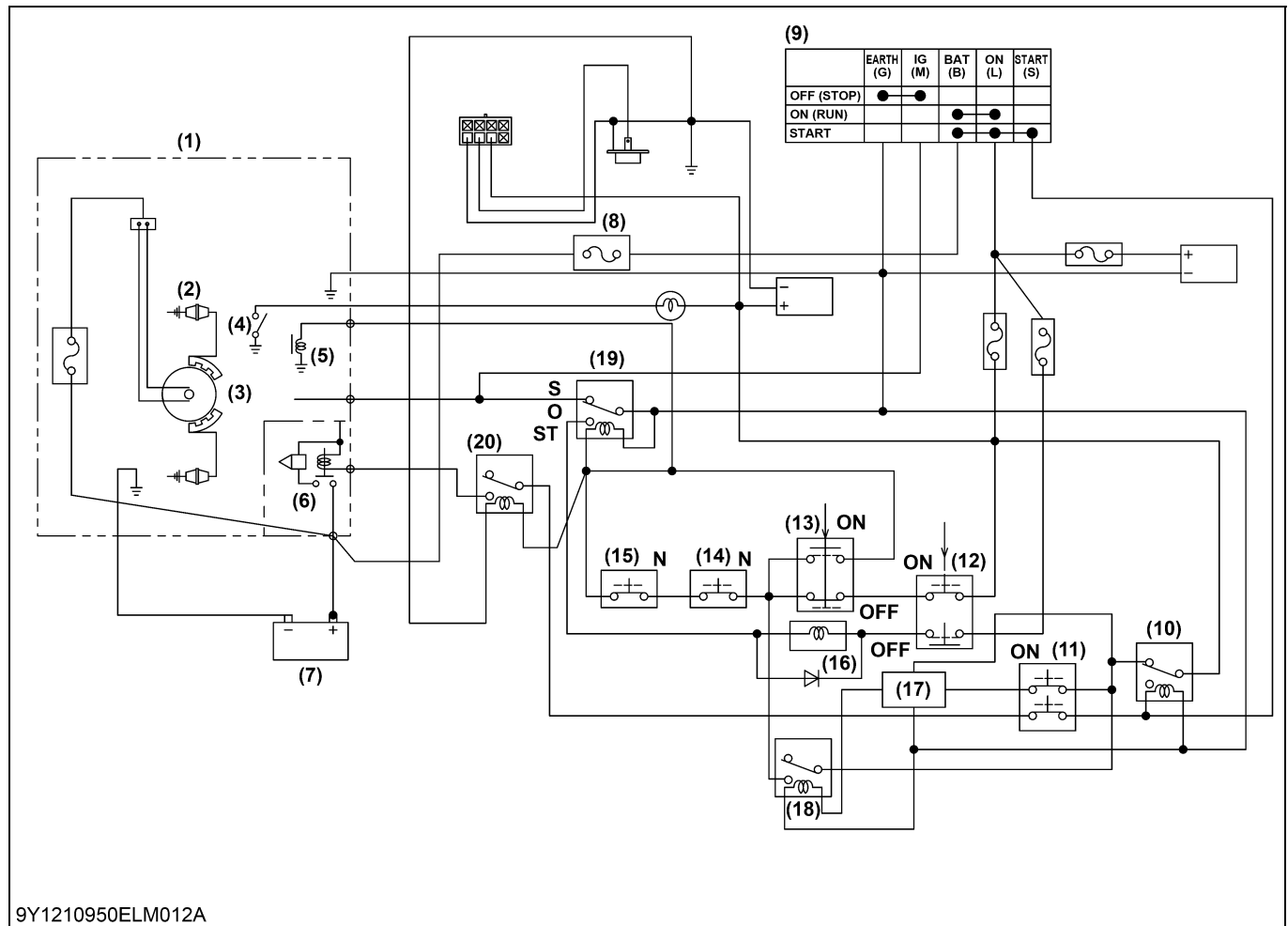


## 2. START SYSTEM AND OPC

### [1] START SYSTEM

#### (1) Z723KH, Z724KH, Z725KH

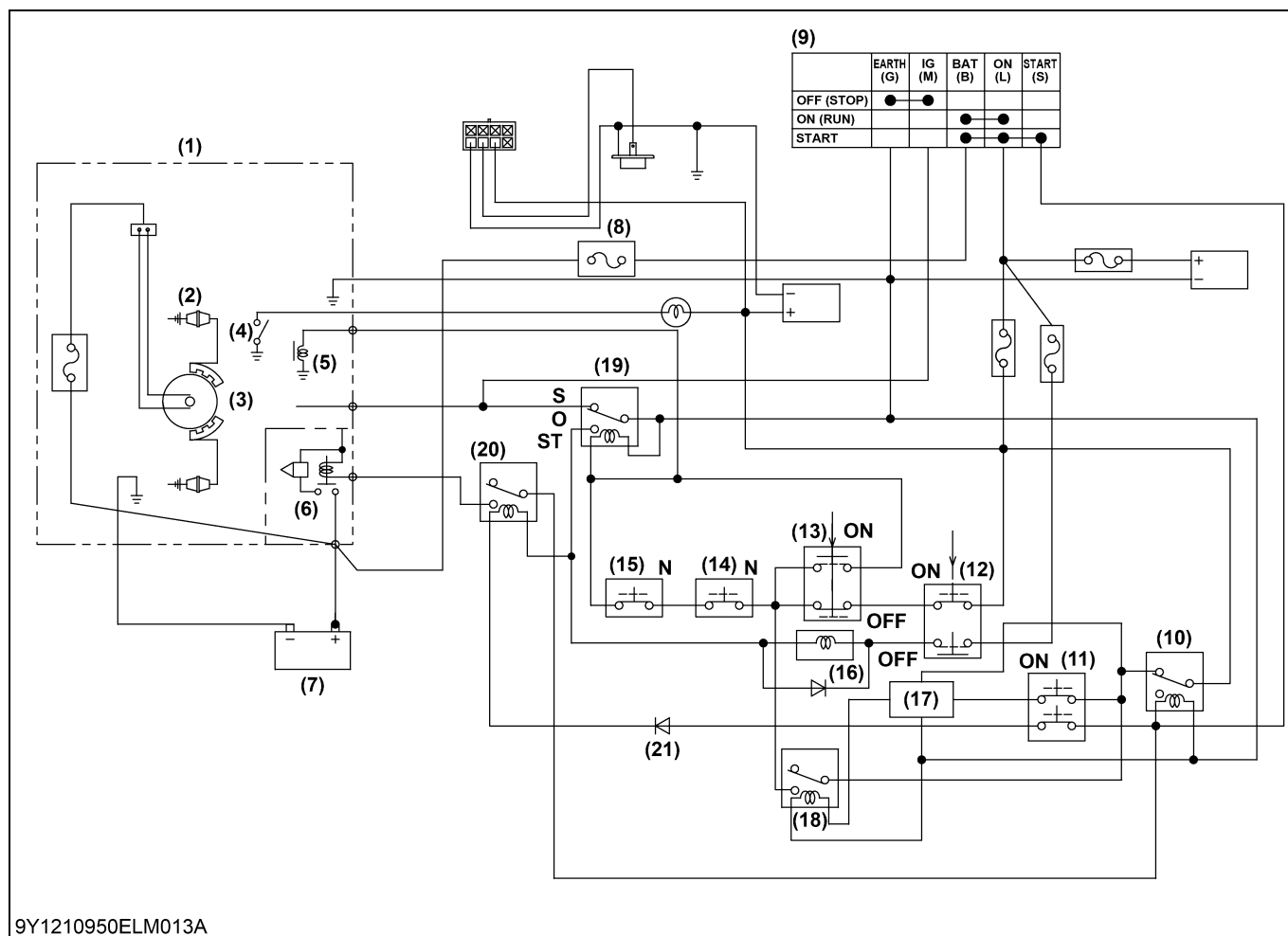


- |                                  |   |   |                   |
|----------------------------------|---|---|-------------------|
| (1) Engine                       | (9) Main Switch                         | (15) Motion Control Lever Switch (R.H.) | <b>S:</b> Stop    |
| (2) Spark Plug                   | (10) Safety Relay                       | (16) PTO Clutch                         | <b>O:</b> Operate |
| (3) Ignition Coil                | (11) Seat Switch                        | (17) OPC Timer                          | <b>ST:</b> Start  |
| (4) Oil Switch                   | (12) PTO Switch                         | (18) Seat Relay                         | <b>N:</b> Neutral |
| (5) Fuel Solenoid                | (13) Brake Switch                       | (19) Stop Relay                         | <b>OFF:</b> OFF   |
| (6) Starter and Starter Solenoid | (14) Motion Control Lever Switch (L.H.) | (20) Starter Relay                      | <b>ON:</b> ON     |
| (7) Battery                      |   |   |                   |
| (8) Slow Blow Fuse               |   |   |                   |

To start the engine, current must flow from battery (7) to starter (6).

- With the main switch (9) **ON**, current flows from the battery to main switch.
- If the PTO switch (12), brake switch (13), motion control lever switch (L.H.) (14), motion control lever switch (R.H.) (15) are in contact, current flows to the stop relay (19) and the starter relay (20) to turn **O, ST**.
- The current also goes to the fuel solenoid (5) to supply fuel.
- With the main switch (9) **START** and seat switch **ON**, current flows from the main switch "S" (9) to the starter relay (20) to operate the starter (6).
- The spark plugs (2) make ignition spark.  
Then the engine can start.

9Y1210950ELM0002US0

**(2) Z723KH-2, Z724KH-2, Z725KH-2 (Serial Number 50001 and Higher)**

- |                                  |   |   |                   |
|----------------------------------|---|---|-------------------|
| (1) Engine                       | (9) Main Switch                         | (15) Motion Control Lever Switch (R.H.) | <b>S:</b> Stop    |
| (2) Spark Plug                   | (10) Safety Relay                       | (16) PTO Clutch                         | <b>O:</b> Operate |
| (3) Ignition Coil                | (11) Seat Switch                        | (17) OPC Timer                          | <b>ST:</b> Start  |
| (4) Oil Switch                   | (12) PTO Switch                         | (18) Seat Relay                         | <b>N:</b> Neutral |
| (5) Fuel Solenoid                | (13) Brake Switch                       | (19) Stop Relay                         | <b>OFF:</b> OFF   |
| (6) Starter and Starter Solenoid | (14) Motion Control Lever Switch (L.H.) | (20) Starter Relay                      | <b>ON:</b> ON     |
| (7) Battery                      |   | (21) Diode                              |                   |
| (8) Slow Blow Fuse               |   |   |                   |

To start the engine, current must flow from battery (7) to starter (6).

1. With the main switch (9) **ON**, current flows from the battery to main switch.
2. If the PTO switch (12), brake switch (13), motion control lever switch (L.H.) (14), motion control lever switch (R.H.) (15) are in contact, current flows to the stop relay (19) and the starter relay (20) to turn **O**, **ST**.
3. The current also goes to the fuel solenoid (5) to supply fuel.
4. With the main switch (9) **START** and seat switch **ON**, current flows from the main switch "S" (9) to the starter relay (20) to operate the starter (6).
5. The spark plugs (2) make ignition spark.  
Then the engine can start.

9Y1210950ELM0013US0