Ural (Урал) - Dnepr (Днепр)
Part xxv: Master Battery Ground Switch
(Выключатель массы)

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Master Battery Ground Switch (Выключатель массы)

- Disconnects All Electrical Systems from Battery for Long-Term Parking
- Present on Both Ural and Dnepr
- Ural Eliminated in 2001, Due to Addition of Electric Starter
- Purpose: Eliminates All Battery Leakage Current thru Generator and Voltage Regulator
- Enclosed Schematics Show Master Battery Switch to Ground
- Check for Terminal Corrosion and Ground Lug Corrosion and Tightness
- Located below Driver Seat (between the battery and grounding point of the voltage regulator)

Masseschalter (Ground Switch)

Main Battery Switch, Dnepr and Ural
Max current: 10A
(www.ural-zentrale.de)

Masseschalter (Ground Switch)
(cgi.ebay.com)

IMZ-8.101-18106-01
(www.oldtimergarage.eu)
The battery master switch disconnects all system for long-term parking, disconnecting the battery path to ground.
<table>
<thead>
<tr>
<th>Mfr</th>
<th>Model</th>
<th>Year</th>
<th>Engine Size (cm³ / inch³)</th>
<th>Voltage</th>
<th>Master Battery Switch</th>
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<tbody>
<tr>
<td><strong>Ural</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M-72</td>
<td>1941 - 1956</td>
<td>746 / 45.3 SV</td>
<td>6-Volt</td>
<td>Not Used</td>
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<tr>
<td></td>
<td>M-72K</td>
<td>1954 - 1960</td>
<td>746 / 45.3 SV</td>
<td>6-Volt</td>
<td>Not Used</td>
</tr>
<tr>
<td></td>
<td>M-72M</td>
<td>1956 - 1960</td>
<td>746 / 45.3 SV</td>
<td>6-Volt</td>
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<tr>
<td></td>
<td>M-61</td>
<td>1958 - 1960</td>
<td>649 / 39.4 OHV</td>
<td>6-Volt</td>
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<tr>
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<td>M-62</td>
<td>1961 - 1965</td>
<td>649 / 39.4 OHV</td>
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<td>M-63 (Ural-2)</td>
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<td>649 / 39.4 OHV</td>
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<td>8.1037 “750” Series</td>
<td>2003-present</td>
<td>745 / 45.2 OHV</td>
<td>12-Volt</td>
<td>Not Used (electric-start)</td>
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<td><strong>Dnepr</strong></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>M-72</td>
<td>1952 - 1956</td>
<td>746 / 45.3 SV</td>
<td>6-Volt</td>
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<td>M-72N</td>
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<td>746 / 45.3 SV</td>
<td>6-Volt</td>
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<td>K-750</td>
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<td>746 / 45.3 SV</td>
<td>6-Volt</td>
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<td>K-750B</td>
<td>1963 - 1965</td>
<td>746 / 45.3 SV</td>
<td>6-Volt</td>
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<td>K-750M</td>
<td>1965 - 1977</td>
<td>746 / 45.3 SV</td>
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<tr>
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<td>MB-750</td>
<td>1964 - 1973</td>
<td>746 / 45.3 SV</td>
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<td>MB-750M</td>
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<td>MT-10</td>
<td>1974 - 1976</td>
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<td>MT-10.36</td>
<td>1975 - 1987</td>
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<td>12-Volt</td>
<td>46.3710</td>
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<td>MB-650M1</td>
<td>1991-2005</td>
<td>649 / 39.4 OHV</td>
<td>12-Volt</td>
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<td>MT-12 (Dnepr-12)</td>
<td>1974-1984</td>
<td>746 / 45.3 SV</td>
<td>6-Volt</td>
<td>Not Used</td>
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<tr>
<td></td>
<td>MT-11 (Dnepr-11)</td>
<td>1985-1995</td>
<td>649 / 39.4 OHV</td>
<td>12-Volt</td>
<td>46.3710</td>
</tr>
</tbody>
</table>
The battery master switch disconnects all system for long-term parking, disconnecting the battery path to ground.
Dnepr (Днепр) Later K-650 / MT-8 with PP-302 Regulator, PM-302 Breaker and B201 Ignition Coil
1. Turn Signal Switch
2. Turn Signal Flasher
3. Instrument Illumination
4. Headlight
5. Parking light
6. Ignition Switch
7. Front Left Turn Signal – Bike
8. High Beam Switch
9. Right Turn Signal – Sidecar
10. Front Right Turn Signal – Bike
11. Battery
12. Fuse
13. Turn Signal Indicator
14. Oil Pressure Indicator
15. High Beam Indicator
16. Charge Indicator
17. Oil Pressure Switch
18. Neutral Switch
19. Neutral Indicator
20. Horn
21. Coil
22. Voltage Regulator
23. Generator
24. Sparkplugs
25. Points/Contact Breaker
26. Rear Right Turn Signal – Bike
27. Wire Connector
28. Ground
29. Brake Light
30. Tail Light

1974 Dniepr MT-10

Wykonali:
Carl Allison
Dnepr (Днепр) MT-11, MT-14 and MT-16
(showing replacement of PP-330 Regulator with the Solid-State 33.3702)

Older Models:
PP-330

Battery Regulator (33.3702)
Brake Neutral Switch
Ignition Coil (B204)
Breaker points
Horn
Alternator (Г-424)
Oil Pressure Switch
Flasher
Horn Button
Turn Signal

Chassis Ground

33. Battery Master Switch to Ground

Older Models:
PP-330

do Dniepra MT-11, 14 i 16
Dnepr (Днепр) Early MT-11 and MT-16

1. Headlamp
2. Hi/Lo beam bulb 45W/40W
3. Parking light
4. Left front turn signal
5. Oil pressure switch
6. Dashboard
7. Speedometer
8. Speedometer light
9. Turn signal indicator
10. Oil pressure indicator
11. High beam indicator
12. Generator indicator
13. Neutral indicator
14. Ignition switch
15. Flasher
16. Right handlebar controls
17. Left handlebar controls
18. Front sidcar lamp
19. Front left turn signal light
20. Front sidcar running light
21. Brake stop signal switch
22. Ignition switch
23. Regulator (PP-330)
24. Battery Master Switch to Ground
25. Horn
26. Spark plug
27. Noise suppressor
28. Ignition coil
29. Points
30. Rear stop light switch
31. Generator
32. Battery disconnect switch
33. Storage battery
34. Socket 47K
35. Rear sidcar lamp
36. Right rear turn signal bulb
37. Sidcar position and brake light
38. Motorcycle rear lamp
39. License plate light
40. Motorcycle brake light
41. Left rear turn signal
Dnepr (Днепр) Later MT-11
(showing replacement of PP-330 Regulator with the Solid-State 33.3702)

Older Models:
37. PP-330 Voltage Regulator

CMH-8.155: MT-11
CMH-8.922: MT-16
CMH-8.157: MT-14

Chassis Ground

33. Master Battery Ground Switch

alacji
do Dniepra MT-11, 14 i 16
Dnepr (Днепр) Later MT-11 (solid-state Regulator 33.3072 in 1992)

2. Lamp (A12-21-3)
7. Oil Pressure Sensor (MM126)
16. Voltage Regulator (33.3702)
33. Horn (C-205B)
42. Master Battery Ground Switch (46.3710)

27. Lamp (A12-45+40)
14. Flasher Unit (FC-427)
37. Breaker (PM-302A)
36. Spark plug (A14B)

21. Alternator: Г-424 (150W)
25. Lamp (A12-5)
43. Lamp (A12-1)
28. Lamp (A12-4)
2. Lamp (A12-21-3)
Ural (Урал) M-67 and M-67.36

1. Left direction indicator
13. Neutral transmission indicator
15. Central Switch
16. Direction Switch
17. Flasher Unit
18. Speedometer Light
20. Horn Button
21. Horn
23. Fuse Block
24. Alternator
25. Battery
26. Ignition Coil
27. Foot Brake-Light Switch
28. Battery Master Switch to Ground
30. Breaker Points
31. Spark-plugs
32. 1. Left direction indicator
33. 28. Battery Master Switch to Ground
34. Spark-plugs
Ural (Урал) M67

Fig. 44. Circuit Diagram of Electrical Equipment and Colouring of Wires:

1 — side-car front lamp; 2 — lamp bulb A12-21-6 of side light and stop light on the tail lamp of the side-car; 3 — direction indicator lamp bulb A12-21; 4 — side-car tail lamp; 5 — direction indicator switch; 6 — right-turn direction indicator lamp; 7 — right-turn direction indicator lamp; 8 — regulating relay; 9 — right-turn rear direction indicator lamp; 10 — stop light switch; 11 — speedometer lighting and pilot lamp; 12 — direction indicator lamp; 13 — far-reaching and bright light lamp bulb 12 V 45+40 W; 14 — side lamp and parking lamp bulb; 15 — headlamp; 16 — generator performance pilot lamp; 17 — speedometer lighting lamp socket; 18 — generator; 19 — switch; 20 — switch; 21 — storage batteries; 22 — motorcycle stop light lamp bulb A12-15; 23 — motorcycle licence plate; 24 — left-turn rear direction indicator lamp; 25 — motorcycle rear indicator lamp; 26 — master switch; 27 — left-turn front indicator lamp; 28 — horn; 29 — head lights turn-knob; 30 — ignition distributor; 31 — ignition coil; 32 — high tension wire; 33 — spark plug terminal; 34 — spark plug

Colours of wire insulation:

I — orange; II — violet; III — brown; IV — black; V — green; VI — red; VII — yellow; VIII — blue; IX — grey
Chassis Ground

Battery Master Switch to Ground

Wiring diagram
Ural 650
copyright by Lars Lassen
**Ural (Урал) IMZ-8.103-10, 40**

- **Chassis Ground**
- **Flasher**
- **Batteries**
- **Turn Signal**
- **Horn Button**
- **Ignition Switch**
- **Alternator (Г-424)**
- **Regulator (PP-330)** (Later Upgraded with 33.3702 Solid-State Regulator)
- **Spark Plug**
- **Foot-Brake Signal Switch**
- **Battery Master Switch to Ground**

**Diagram Details**:
- Color-coded wires for various components.
- Connections and pathways between different parts.
1995 Ural

1. Motorcycle head lamp
2. High-low beam headlight bulb
3. Side and parking bulb in headlight
4. Turn indicator bulb
5. Neutral gear indicator bulb
6. Speedometer
7. Speedometer illumination bulb
8. Generator
9. Highbeam indicator lamp
10. Left turn indicator
11. Turn signal flasher
12. Sidecar front lamp
13. Sidecar side bulb
14. Traffic indicator bulb
15. Front brake light switch
16. Fuse plate
17. Ignition lock
18. "Day-night" switch with emergency "ignition out" switch
19. Horn
20. Light and turn indicator switch, horn button
21. Distributor
22. Ignition coil
23. Spark plug
24. Spark plug cap
25. Neutral gear indicator switch
26. Generator
27. Ignition module
28. Voltage regulator
29. Earth disconnect switch
30. Sidecar rear lamp
31. Sidecar lamp
32. Sidecar side and brake bulb
33. Battery
34. Left rear turn signal
35. Foot brake signal switch
36. Motorcycle rear lamp
37. Brake light
38. Side bulb and number plate illumination bulb

Chassis Ground

29. Battery Master Switch to Ground
Fig. 23 Electric circuit diagram


Color legend: O - orange; 1 - blue; Ж - yellow; С - gray; K - brown; Ф - violet; Г - green; Ч - black; Р - red; Е - white.
Alternative Battery Master Switch
for 650 cm$^3$ and 750 cm$^3$ (www.ural-zentrale.de)

• High-Current Switch up to 150 Ampere
• Normally Fitted between Battery and Ground (earth)
• High-performance Alternative for Dnepr / Ural Main Switch
• Mountable at Any Place
• Secures Battery against Current Leak
• 2 Terminals M10
• 2 Mounting Holes for M6 bolts, Spacing: 37 mm
• Barrel Diameter: 17 mm
• Total Height: 85 mm / Total Diameter: 60 mm
• Master Battery Switch Serves for Disconnection of All Motorcycle Systems from the Battery for Long-Term Parking
• Switch Is Located under the Seat

35 Amp Alt. System

Chassis Ground
25. Master Battery Switch
** Deleted on Electric-Start

- Master Battery Switch Disconnects All Systems from Storage Battery for Long-Term Parking
- Switch Located Under the Seat, Except on Electric-Start Models Where It Has Been Removed.