

Russian Headlight Assemblies

Part III: Headlight Cavity for Dnepr K-750 / K-750M / MB-750 / MB-750M

***(Also See Part I: Headlight Cavity, Early Central
Switch and Speedometer)***

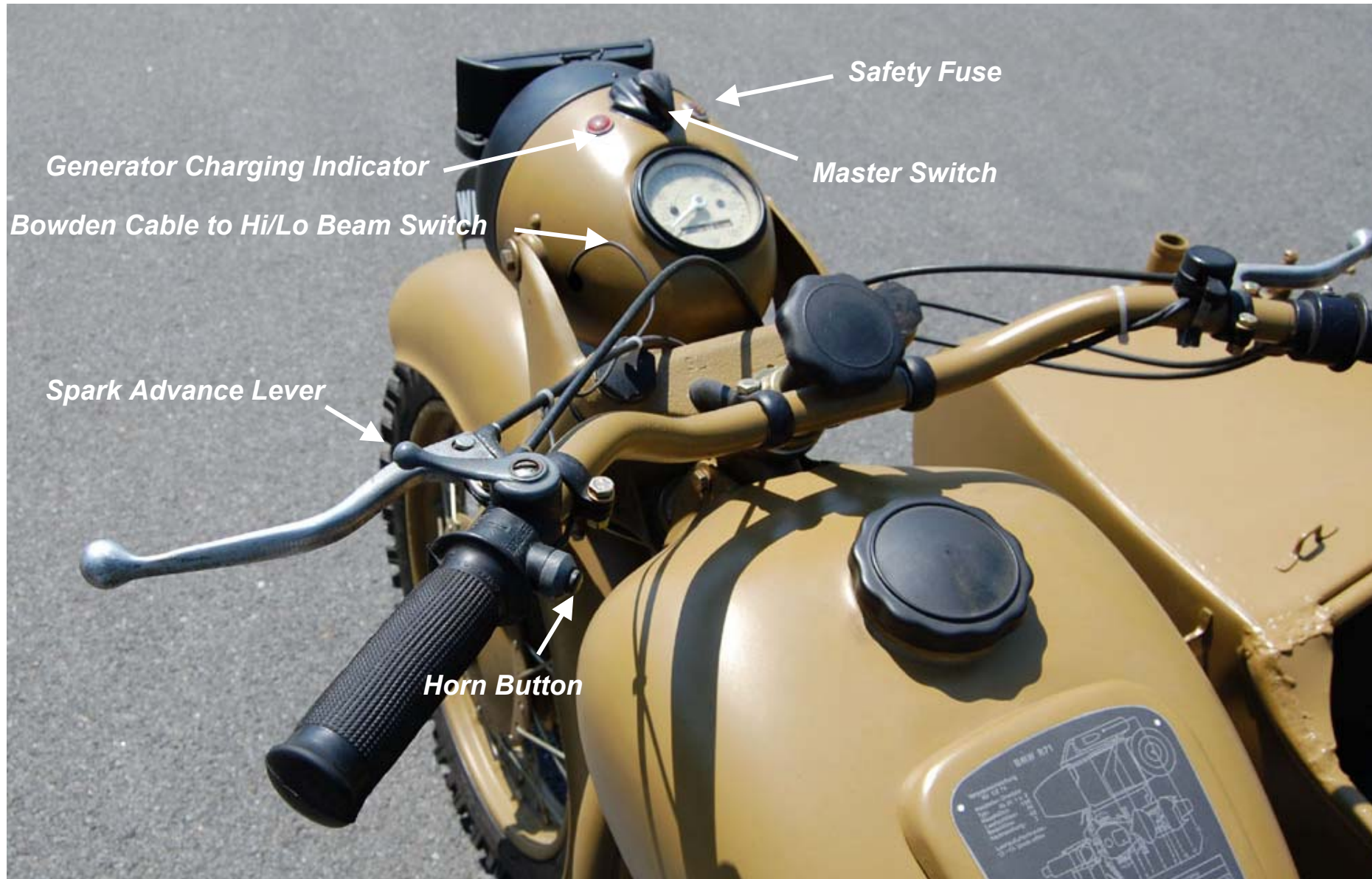
Ernie Franke

eafranke@tampabay.rr.com

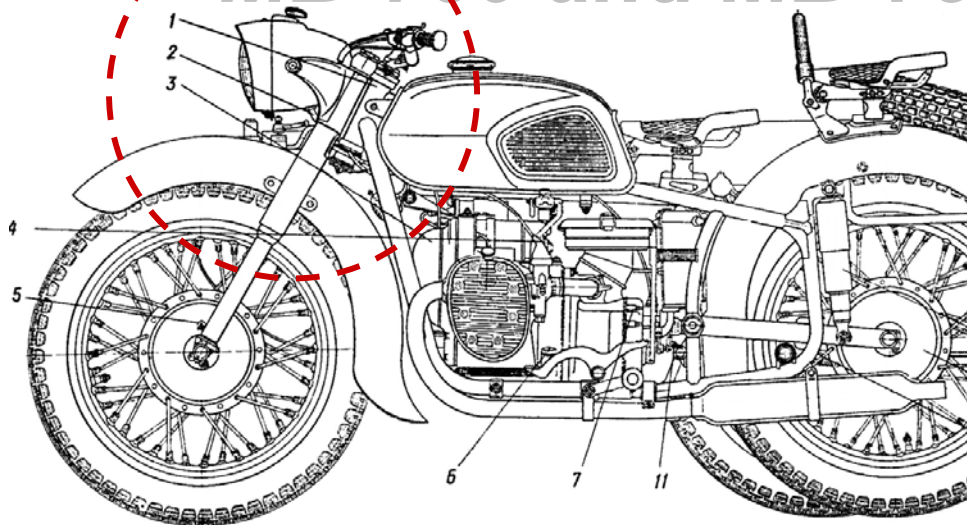
(09/2011)



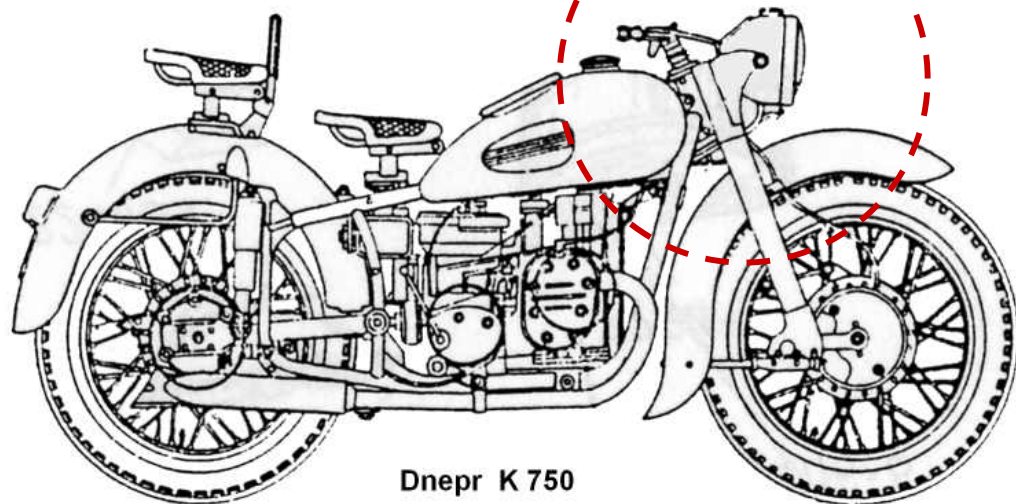
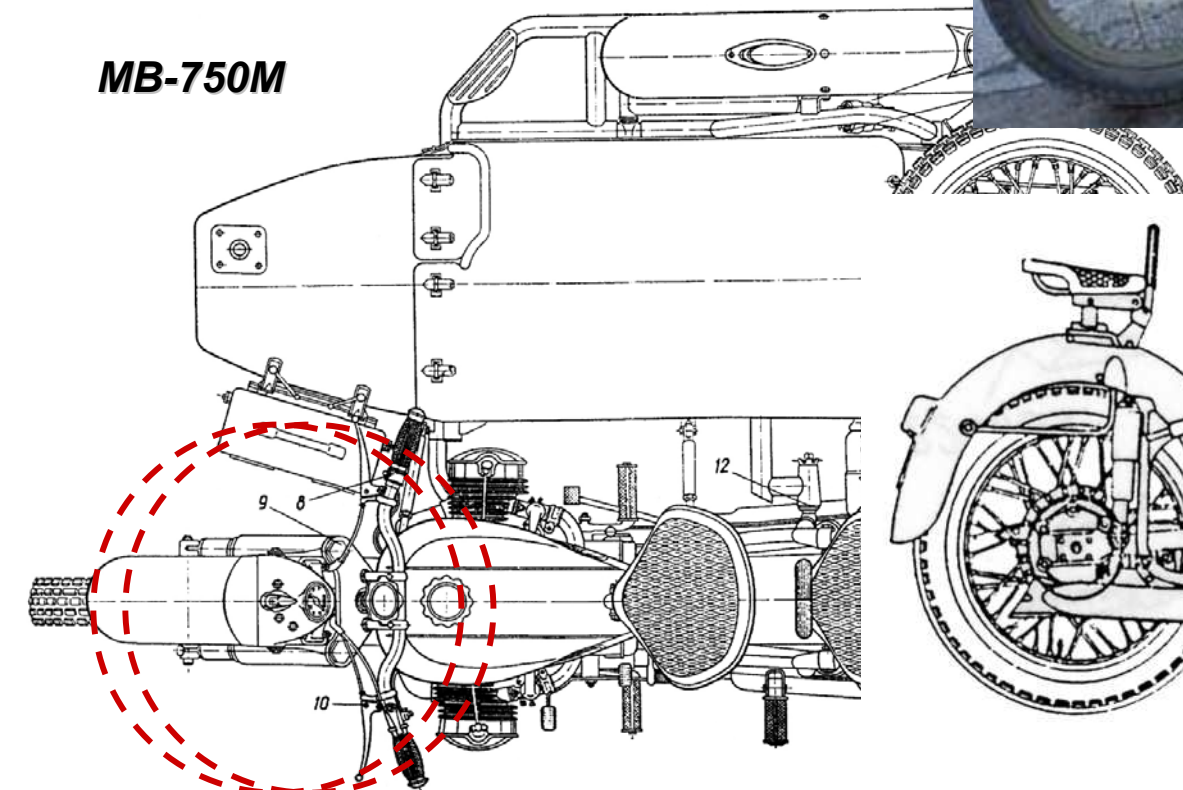
Dnepr (Днепр) K-750 Motorcycle with Sidecar



MB-750 and MB-750M www.russiancycles.com



MB-750M

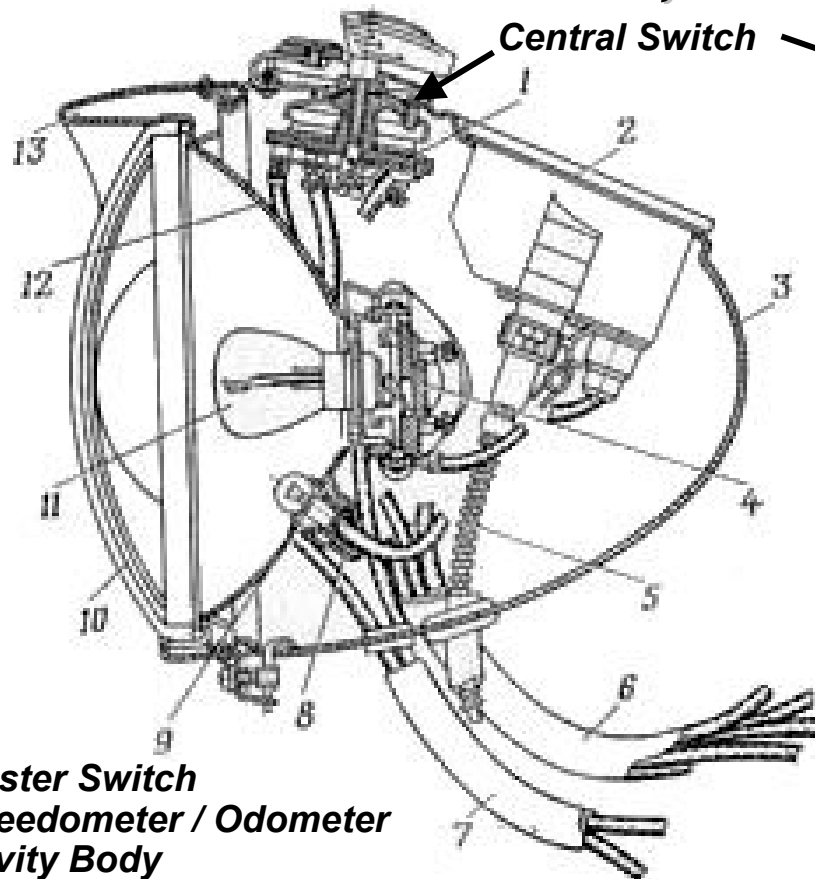


Dnepr K 750

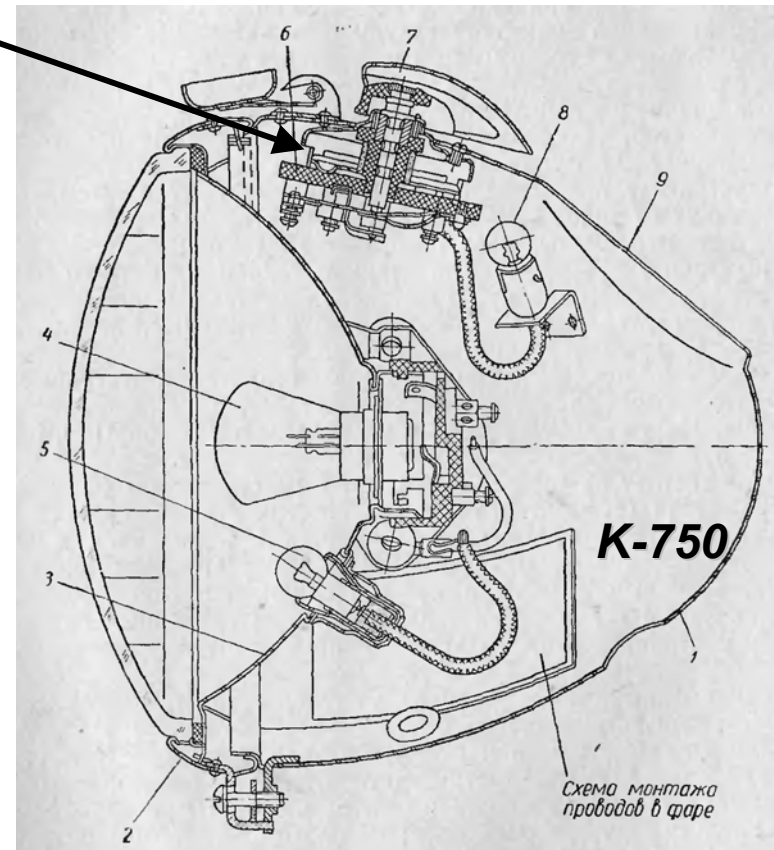
K-750 Headlight Assembly (<http://www.ural-hamburg.de>)



Headlight Assembly Φ ара Φ Г-116 (FG-116) on K-750M, MB-750 and MB-750M



1. Master Switch
2. Speedometer / Odometer
3. Cavity Body
4. Lamp Holder and Hi/Lo Beam Lamp
5. Flexible Shaft Speedometer Cable
6. and 7. Bundles of Wires
8. Parking Light Bulb Socket
9. Lamp Holder
10. Lens
11. Dual Filament (Hi/Lo) Beam Lamp
12. Reflector
13. Ring (rim) of Lens and Reflector



1. Cavity Shell
2. Ring (rim) of Lens and Reflector
3. Reflector
4. Dual-Filament Hi/Lo Beam Lamp
5. Parking Light
6. Central Switch
7. Ignition Key
8. Speedometer Light
9. Speedometer Mounting Hole

Headlight Cavity for K-750 Showing Hi/Lo Beam Switch, Central Switch and Fuse Holder Hole, and Generator Charge Lamp Holder (www.oldtimergarage.eu)



Components for K-750/MB-750 Headlight Cavity

(www.oldtimergarage.eu)



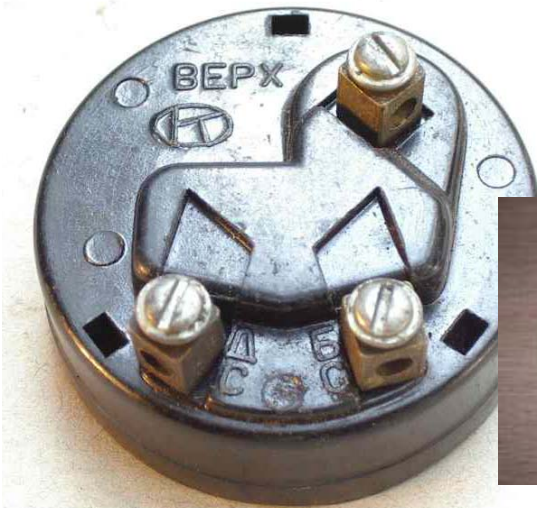
Fuse Holder
Part #: 000.772
List Price: €12.10



Dual-Beam Headlamp, 6V, 32/21W
Ural/Dnepr Part #: 72176-B
Part #: 001.551
List Price: €7.06



Headlamp Rubber Gasket
M72/K750/MB750
Part #: 001.912
List Price: €2.02



Headlamp Bulb Connector
Part #: 000.848
List Price: €4.54



Parking Light Bulb Holder
Ural/Dnepr Part #: 72177-B
Part#: 000.768
List Price: €5.04

Components for K-750/MB-750 Headlight Cavity

(moto-boxer.com)



Generator "Charge" Warning Bulb
Part#: 6V 0.25A.
List Price: 7.08€



15-Amp Fuse
List Price: 1.00€



Hi/Lo Dimmer Switch for Headlight
List Price: 40.12€



Headlamp Casing
List price: 40.12€



Dual-Filament Headlamp, 6V
Part #: A6V 32+21W
List Price: 4.72€

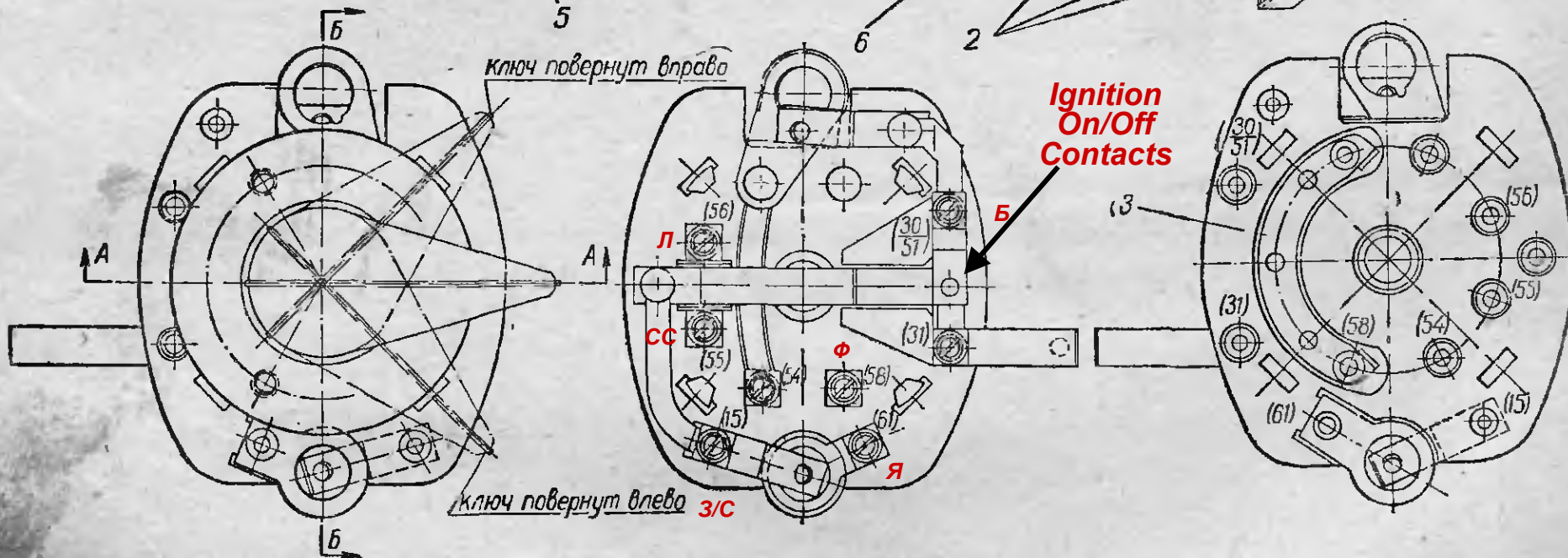
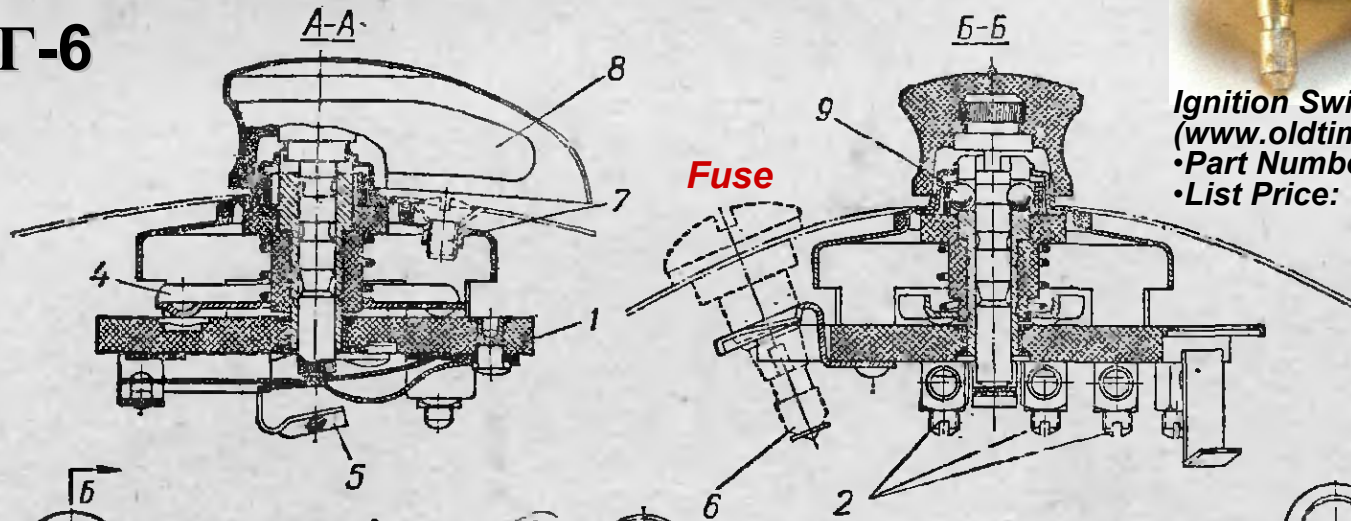


Dnepr K-750 Three-Position Headlight Cavity Switch

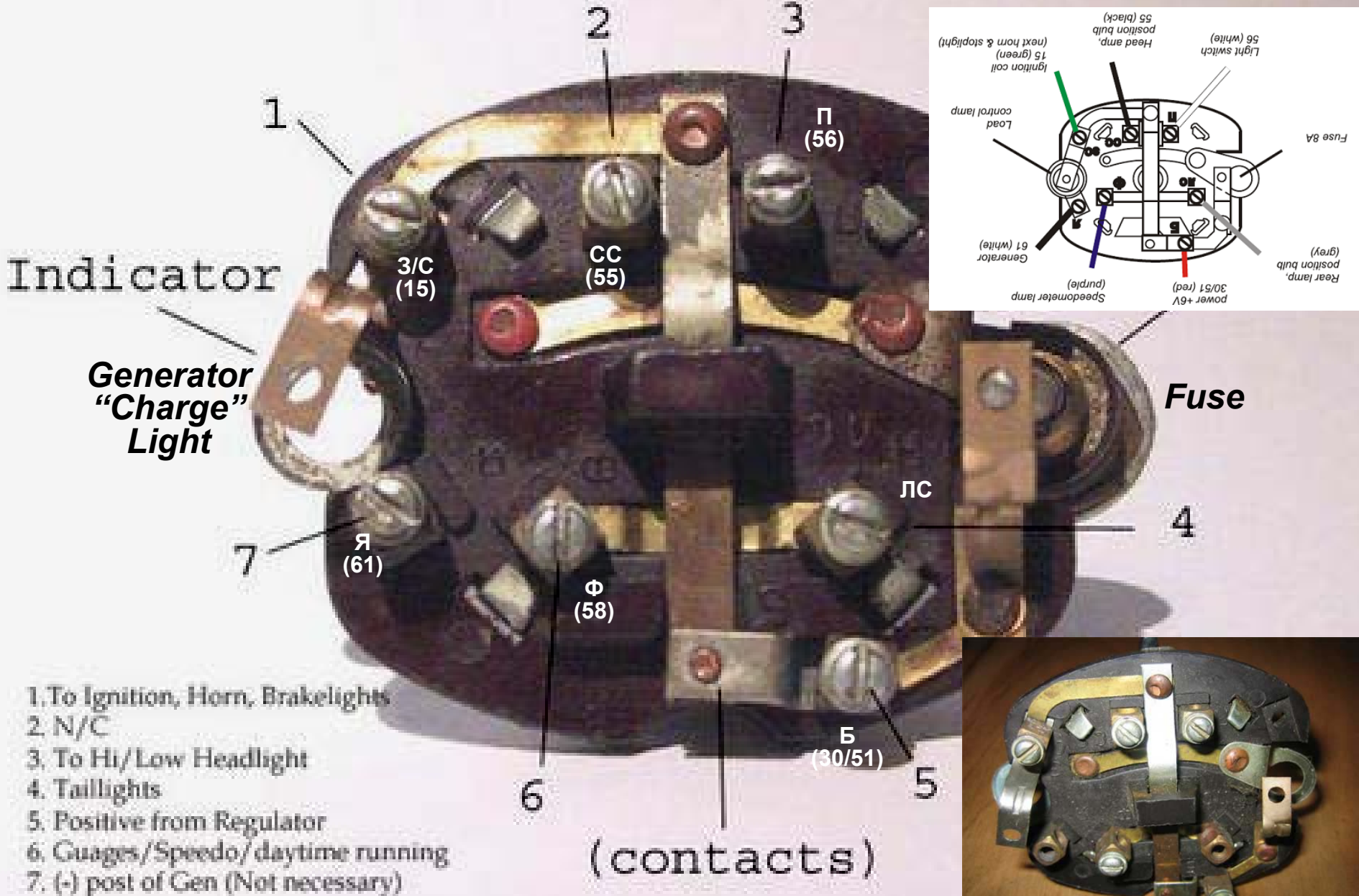
Фары ФГ-6



Ignition Switch Key M-72
(www.oldtimergarage.eu)
•Part Number: 000.789
•List Price: €14



Dnepr: K-750 Master Switch Schematic (lggyMo on Dneprheads)

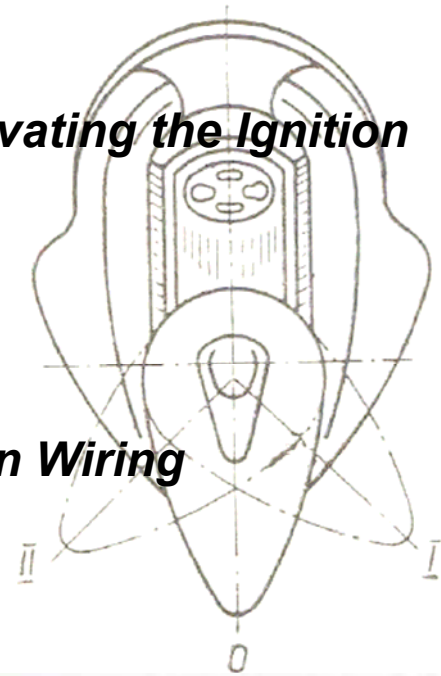


Ignition Key for Dnepr K-750, M-72, MT-9, MT-10



Ignition Master Switch

- **Activated by a Key that Can Be Pulled Out**
 - Insert the Key Straight Down and You Get Ignition-Only
 - Put the Key Half-Way In and Turn Left or Right without Activating the Ignition
 - Pull the Key Out in Any Position
- **Black Dust Cover**
 - Push Forward to See the Key-Slot
- **Push-In to Turn-On Ignition**
- **Turn Right or Left to Turn-On Various Accessories**
 - Left or Right Will Be Different Accessories, Depending upon Wiring



Chrome-Plated Ignition Lock/Switch Cover (moto-boxer.com)

Slide Mechanism



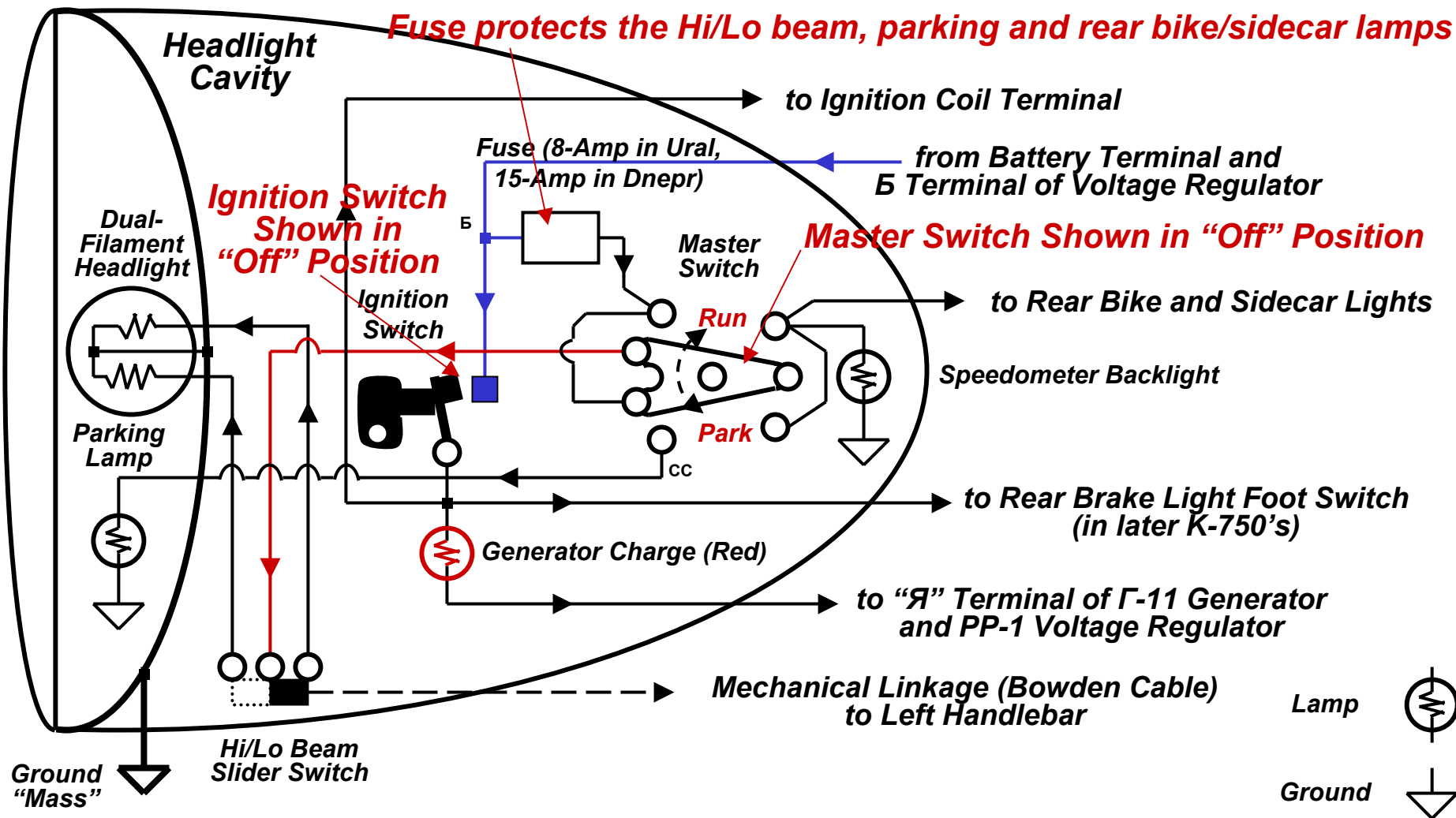
Cover Closed



Cover Open

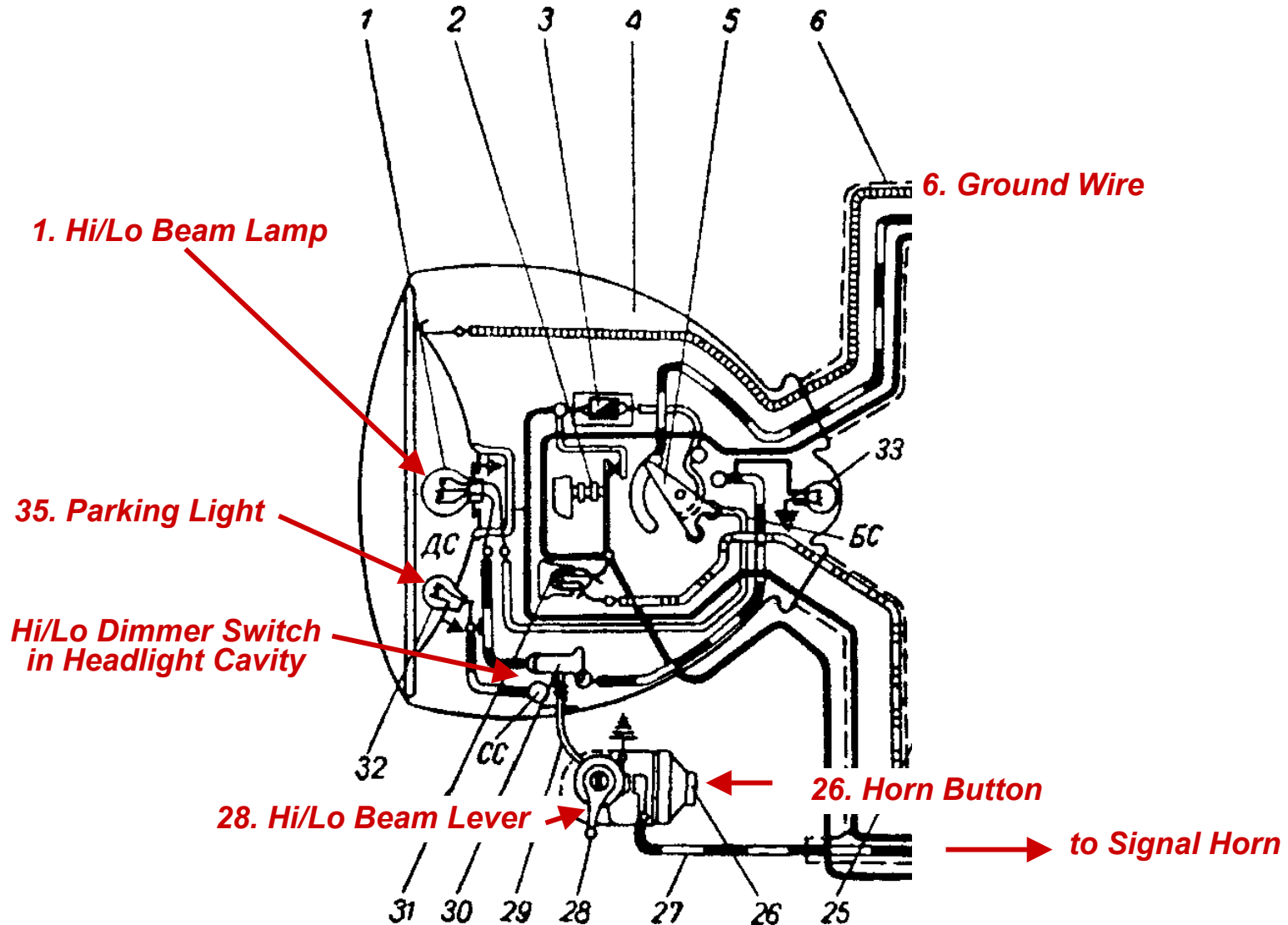


K-750 Headlight Cavity



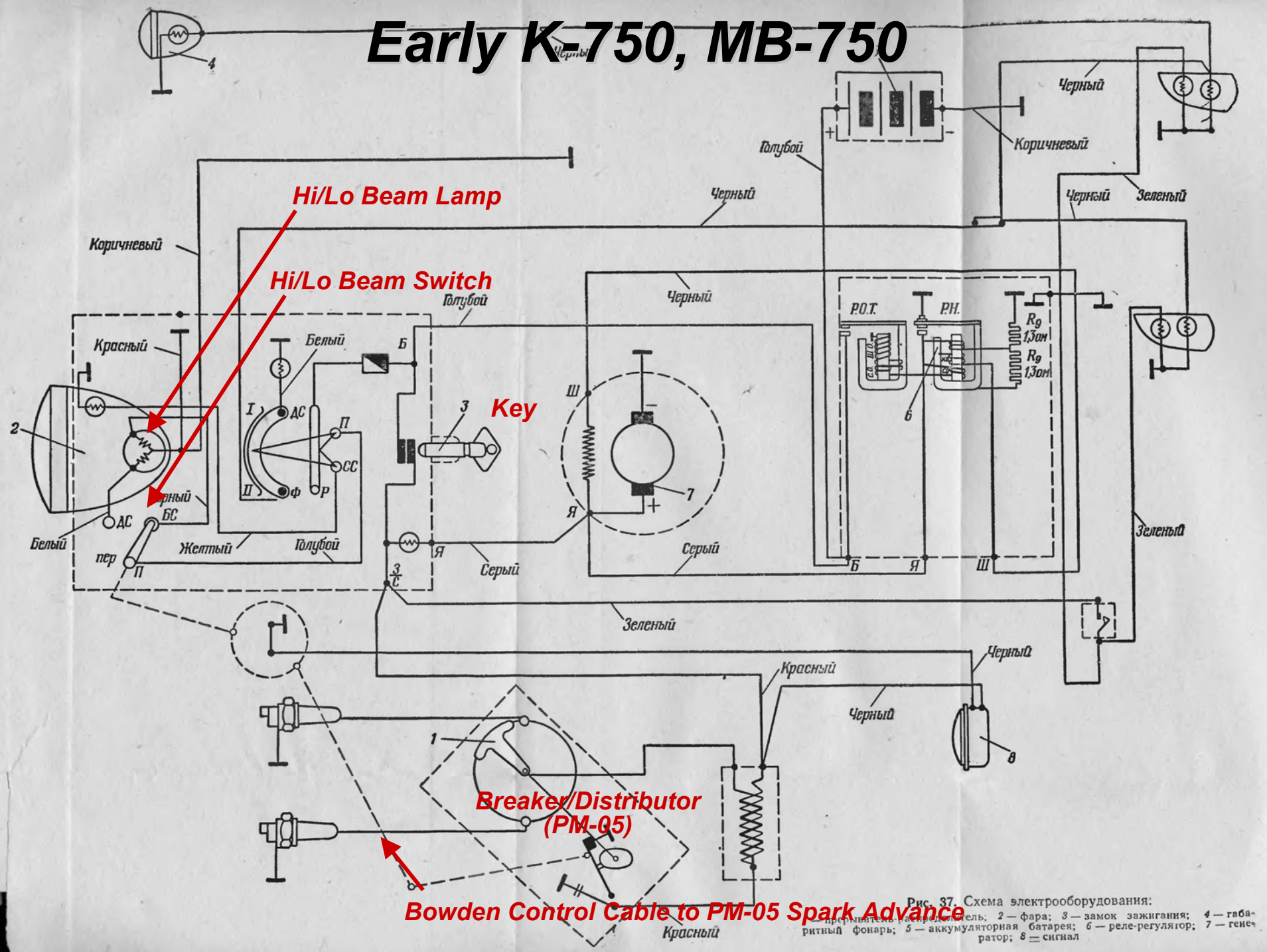
Central ignition switch supplies 6-Volts to the bike/sidecar lamps and either the hi/lo beam lamp or the parking light. The ignition switch also supplies energy to the generator field coil, ignition coil and voltage regulator.

K-750M with PM-05 Ignition and Handlebar Control

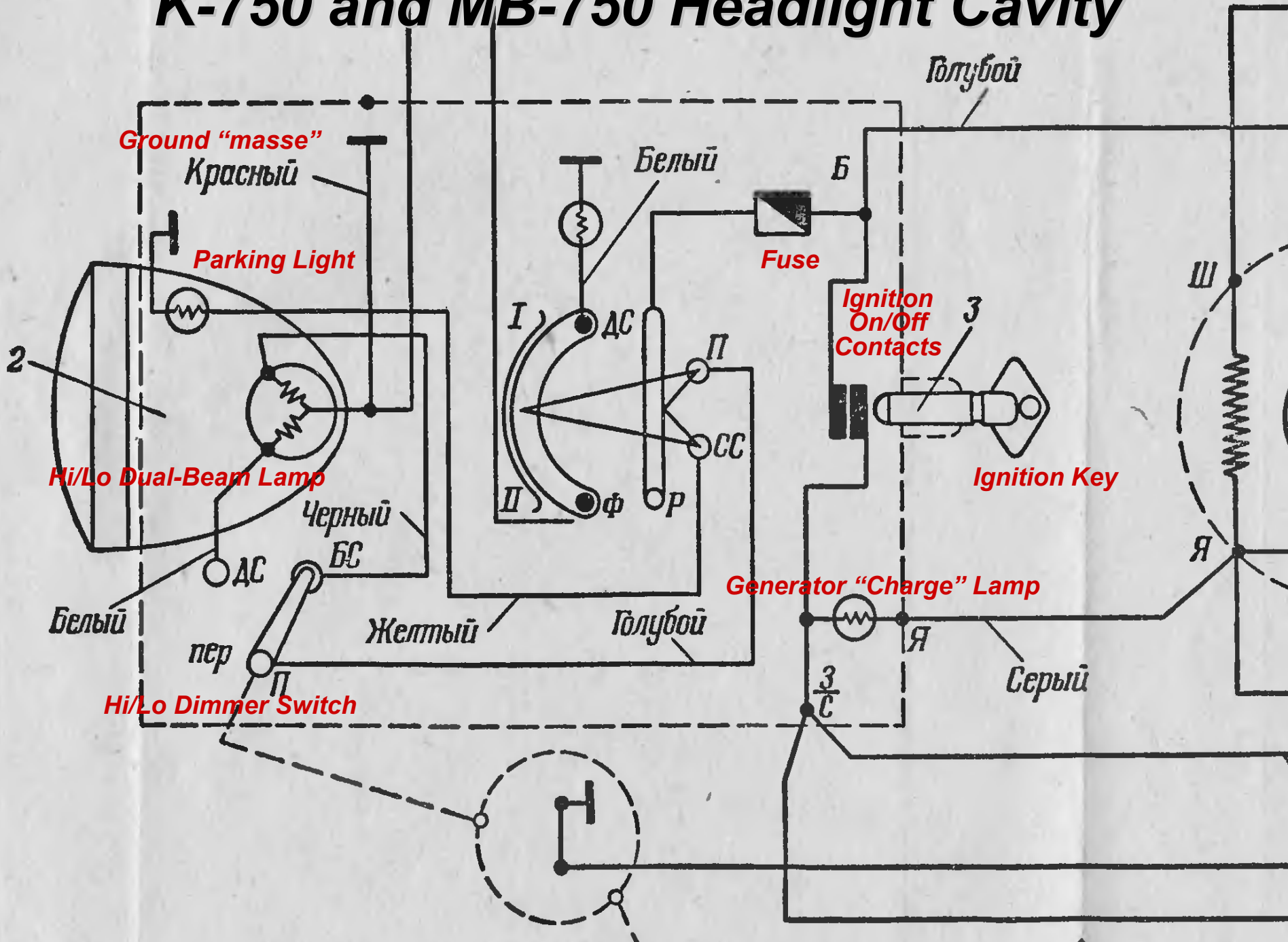


1. Light Beam and Low Beam, 2. Key, 3. Fuse, 4. Lamp, 5. Master Switch, 6. Ground Wire, 26. Signal Horn Button Switch, 27. Signal Wire, 28. Hi/Lo Beam Lever, 29. Cable Switch for Hi/Lo Light, 30. Driving and Parking Light Switch 31. Warning Light 32. Parking Light Bulb 33. Backlight Speedometer

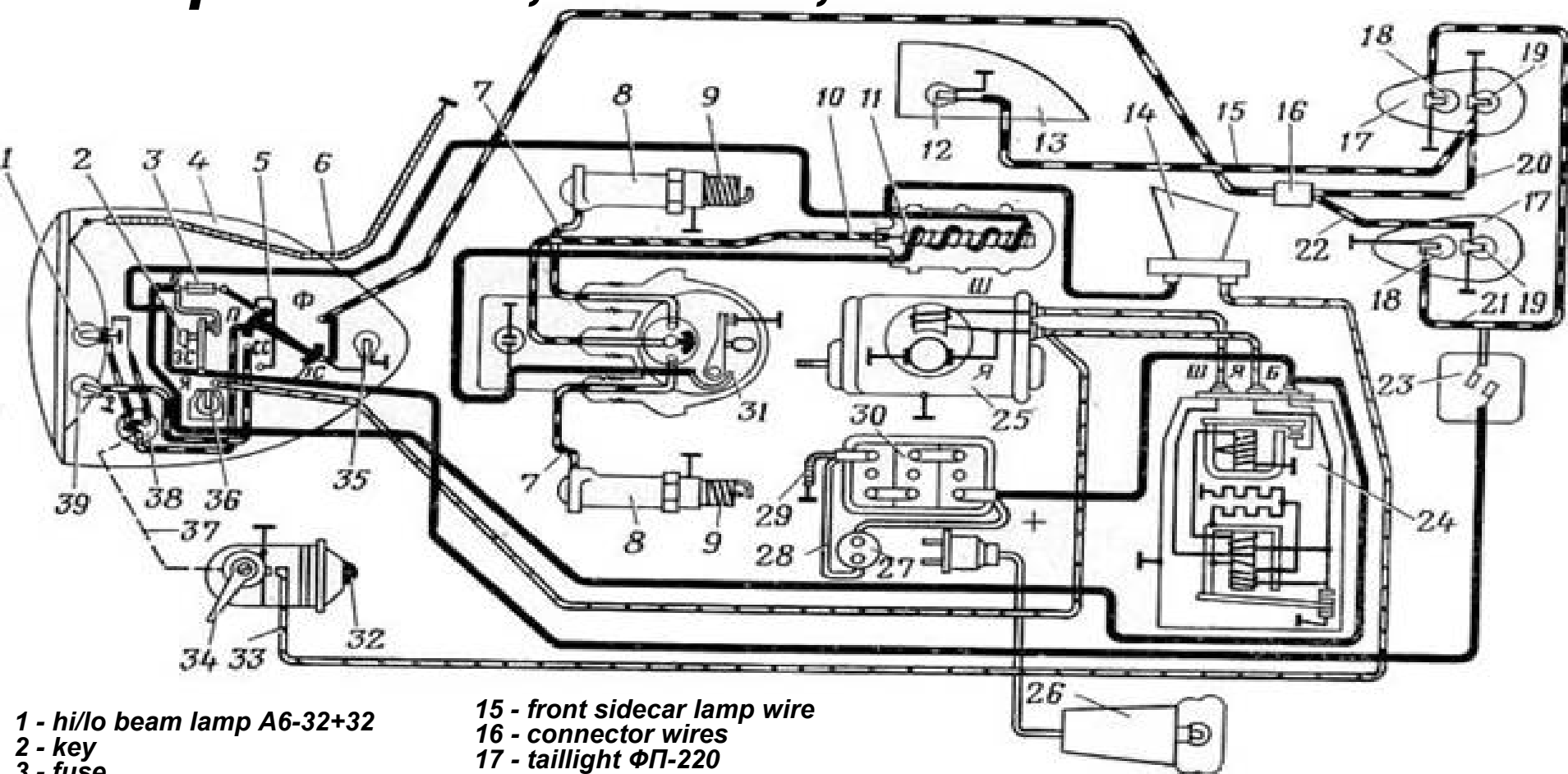
Early K-750, MB-750



K-750 and MB-750 Headlight Cavity



Dnepr K-750M, MB-750, K-650 and MB-750M

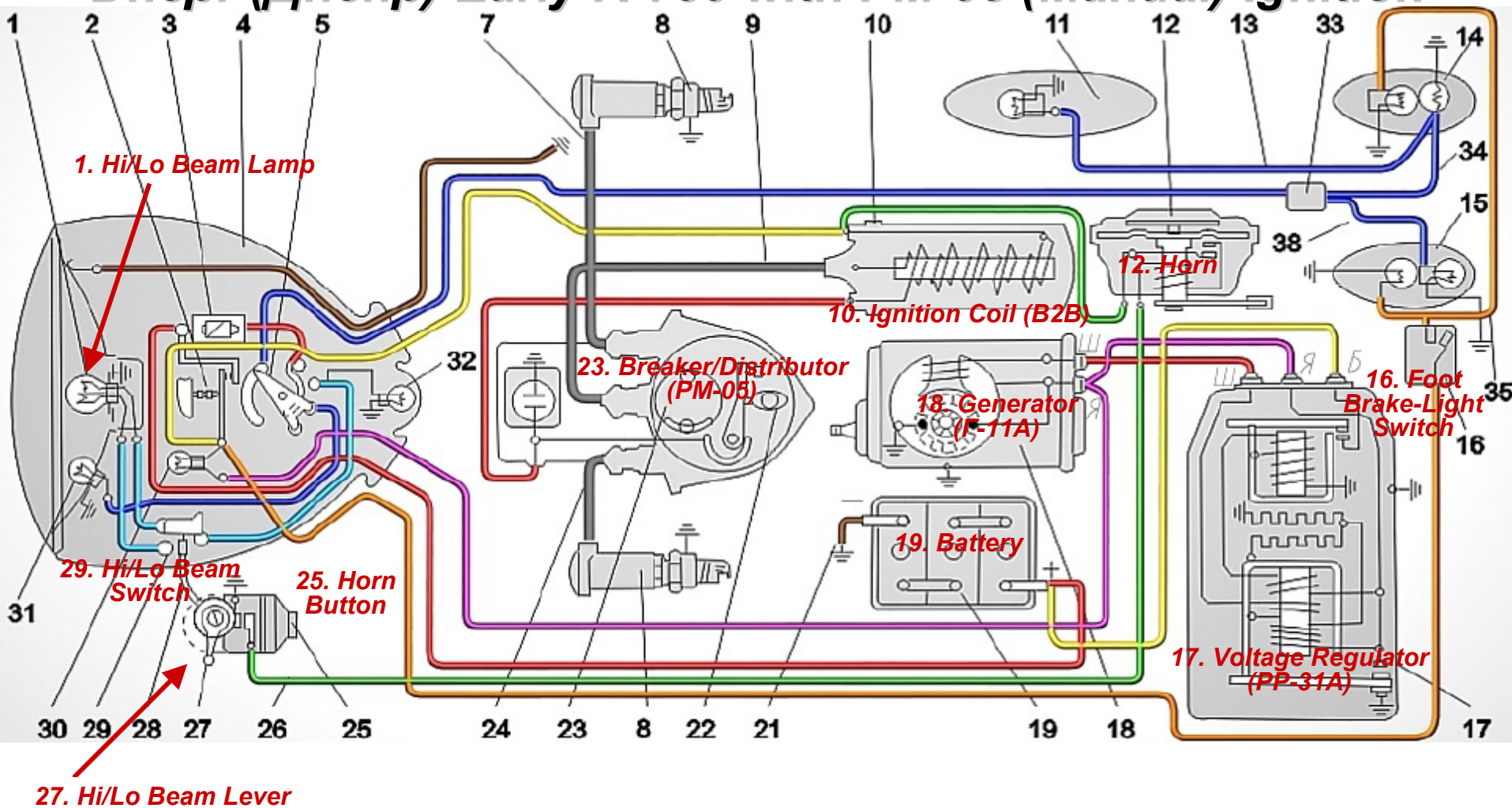


- 1 - hi/lo beam lamp A6-32+32
- 2 - key
- 3 - fuse
- 4 - ФГ-116 headlight assembly
- 5 - central switch
- 6 - ground wire "mass"
- 7 - high tension wire
- 8 - spark plug tip
- 9 - spark plug A8Y
- 10 - high tension wire
- 11 - ignition coil Б2Б (B2B)
- 12 - overall lamp
- 13 - headlight sidecar ПФ-200
- 14 - horn С-37А

- 15 - front sidecar lamp wire
- 16 - connector wires
- 17 - taillight ФП-220
- 18 - "Stop" A6-15 lamp
- 19 - tail light bulb overall A6-3
- 20 - sidecar lamp wire
- 21 - lamp switch brake wire
- 22 - license plate illumination wire
- 23 - foot brake-light switch
- 24 - voltage regulator
- 25 - DC generator Г-414
- 26 - portable trouble lamp
(only MB-750 and MB-750M)
- 27 - 47K socket
(only MB-750 and MB-750M)

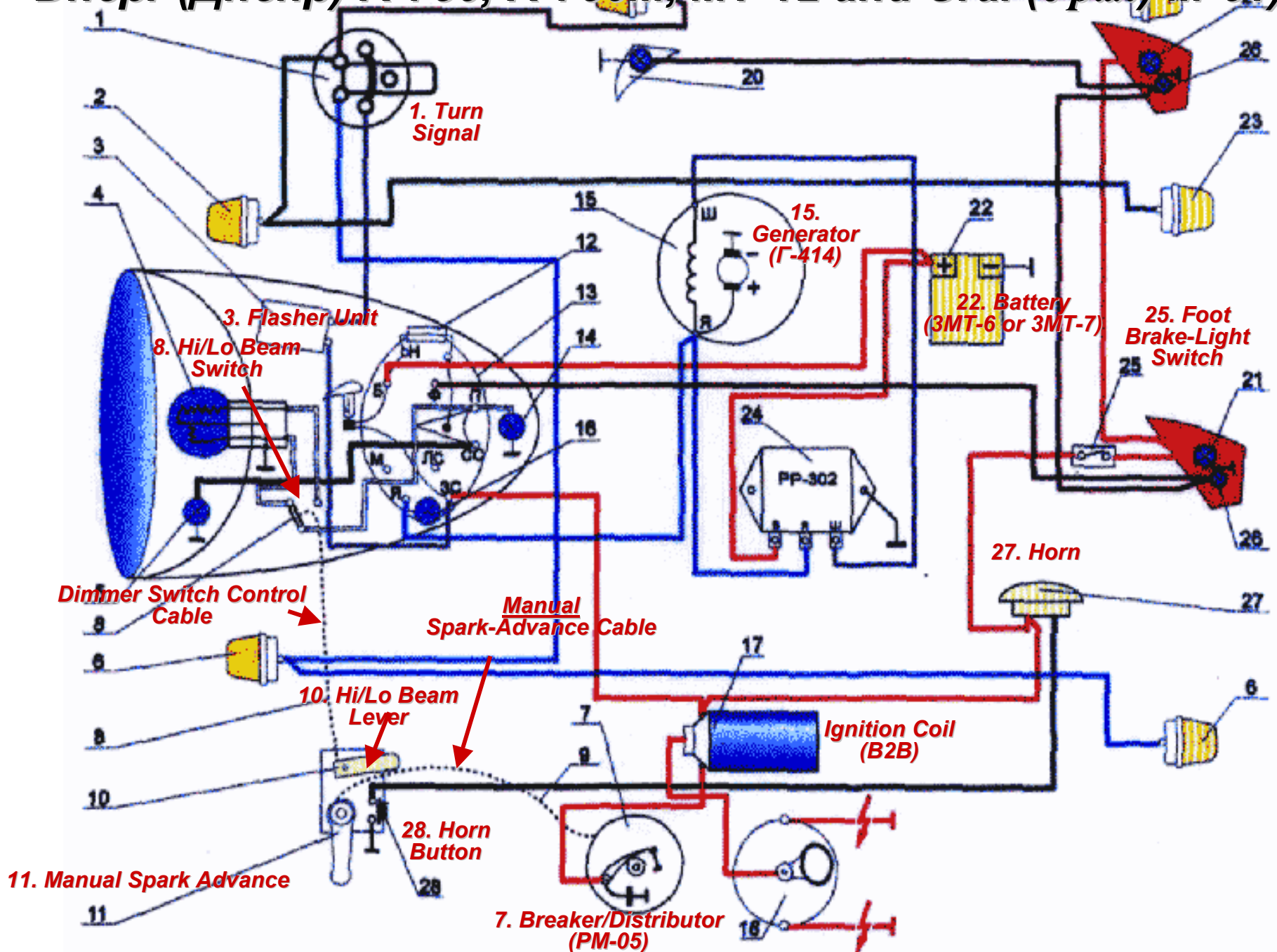
- 28 - lead to a power outlet
- 29 - battery ground-wire
- 30 - battery
- 31 - breaker contacts PM-05
- 32 - horn button
- 33 - signal wire
- 34 - ignition advance lever
- 35 - speedometer backlight
- 36 - generator warning lamp A6-0.25
- 37 - shift cable light
- 38 - hi/lo beam dimmer switch
- 39 - parking light A6-2

Днепр (Днепр) Early K-750 with PM-05 (Manual) Ignition

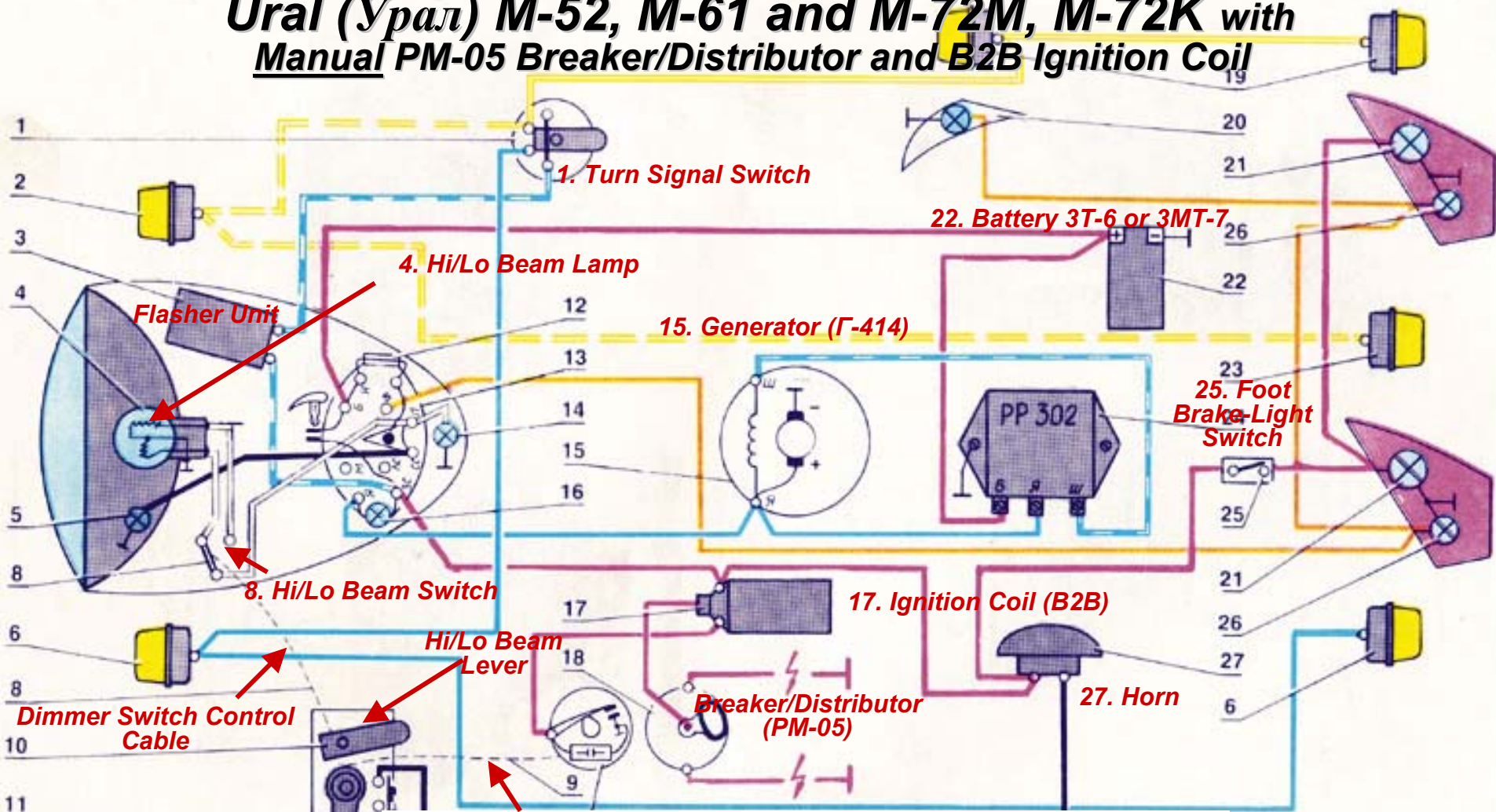


1 – hi/lo beam lamp beam, 2 – key, 3 – fuse, 4 – lamp, 5 – central switch, 6 – wire “ground”, 7 – high voltage wire, 8 – spark plugs, 9 – high voltage, 10 – ignition coil, 11 – sidecar front light, 12 – horn, 13 – sidecar wire, 14 – tail light sidecar, 15 – tail lamp of motorcycle, 16 – foot brake-light switch, 17 – voltage regulator, 18 – generator, 19 – battery, 20 – low voltage wiring loom, 21 – battery ground wire, 22 – breaker, 23 – distributor, 24 – high voltage wire, 25 – horn button, 26 – wire signal, 27 – advance ignition; 28 – cord switch driving and parking light, 29 – hi/lo switch (driving/dipped beam), 30 – “charge” indicator lamp, 31 – parking light bulb, 32 – speedometer lamp, 33 – connecting jack wires, 34 – sidecar lamp wire, 35 – wire from the sensor to stop lamp, 36 – wire from the connector to the lamp lighting plate

Днепр (Днепр) К-750, К-750М, МТ-12 and Ural (Урал) М-61



Dnepr (Днепр) Early K-750, K-750M, MT-12 and Ural (Урал) M-52, M-61 and M-72M, M-72K with Manual PM-05 Breaker/Distributor and B2B Ignition Coil



- | | | | |
|--|---|--|------------------------------------|
| 1 - switch indicators P-201 | 11 - Shifters Ignition | 21 - Lamp A6-15 | 25 - Foot Brake-Light Switch |
| 2 - right front indicator lamp on a motorcycle | 12 - fuse 15A | 22 - battery 3MT-6 or 3MT-7 | 26 - headlight rear position lamps |
| 3 - flasher PC-419 | 13 - central switch (on M-72 & K-750 slightly different notation terminals) | 23 - right rear indicator lamp on motorcycle-alone | 27 - Horn C-35 |
| 4 - lamp head light headlamp A6-32, 21 or A6-32 +32 | 14 - bulb illumination A6-2 scale speedometer | 24 - Voltage regulator | 28 - Horn button |
| 5 - parking light | 15 - generator | | |
| 6 - Left direction indicators | 16 - control lamp of the generator A6-0.25 | | |
| 7 - Breaker Points PM-05 | 17 - ignition coil KM-01 or B-2B | | |
| 8 - light switch (located in the housing headlights) | 18 - Distributor | | |
| 9 - cable Shifters Ignition | 19 - Indices turning right (sidecar) | | |
| 10 - lever light switch | 20 - front position lamp sidecar | | |
| | | 15 stop-signals (only in the lamp, or OP-230 OP-246) | |

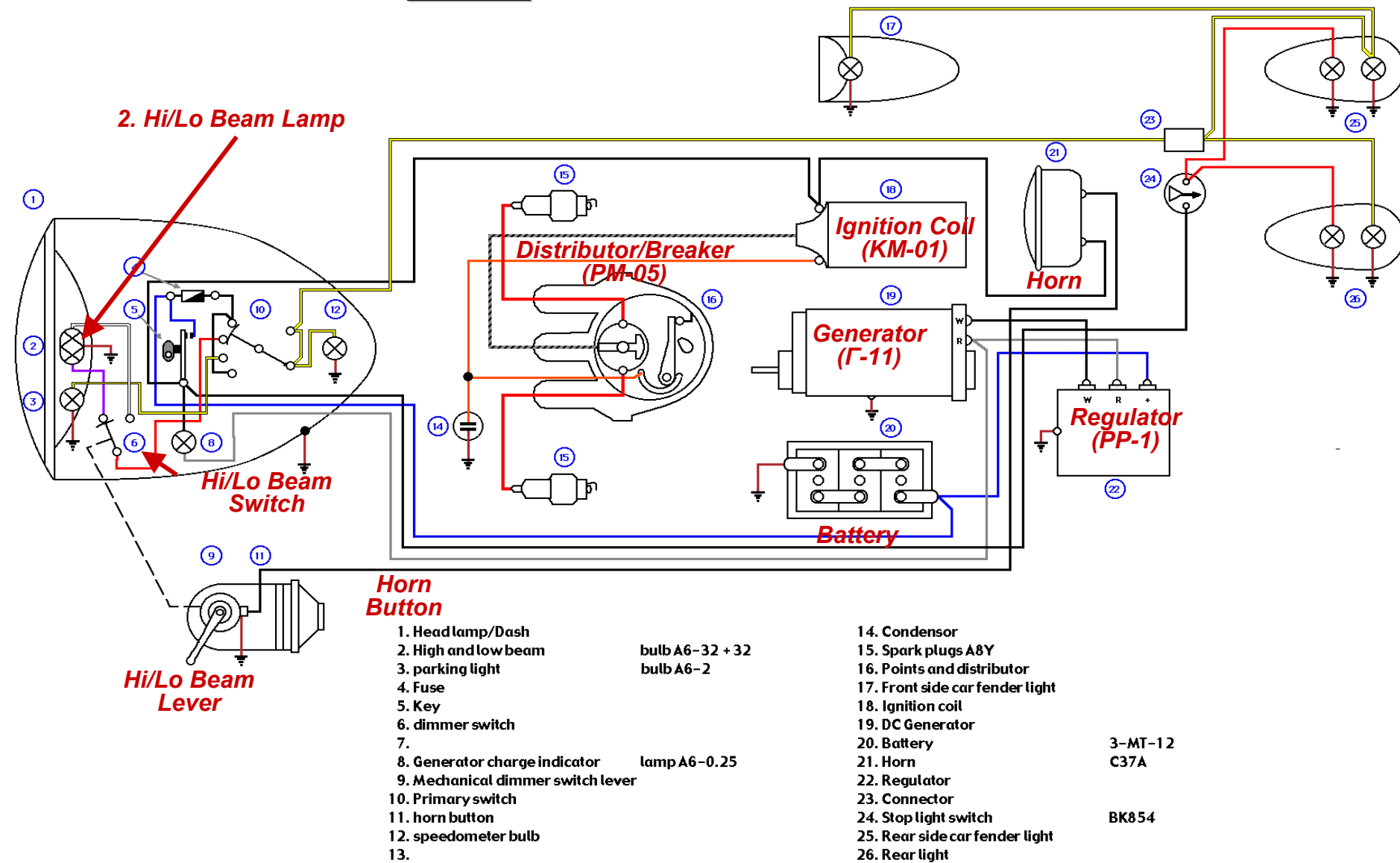
23 November 2006

Carl Allison

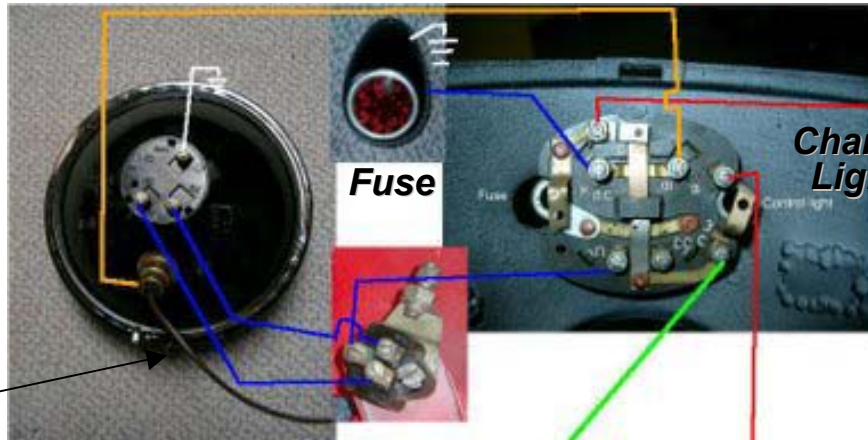
Note: Wire colors are not likely correct nor consistent with factory wiring.
Schematic may have errors as well.

Dnepr K-750, K-750M and MT-12

with Manual PM-05 Distributor/Breaker Points



M-72 / K-750 Wiring Diagram



Parking Light

Fuse

Charge Light

Hi/Lo Beam Switch



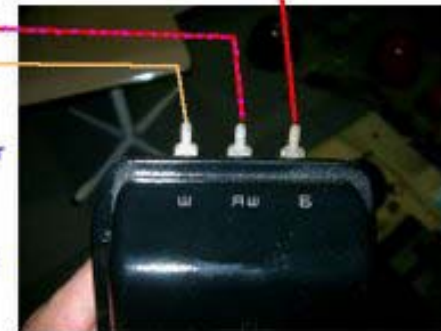
Battery (+ ground)



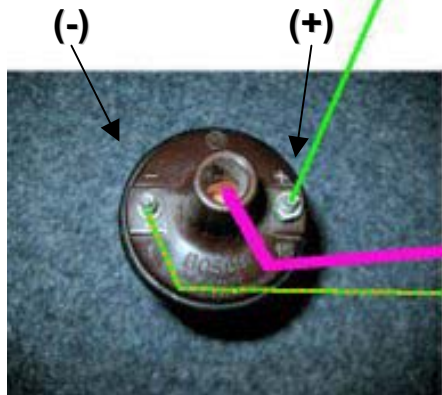
Generator Г-11

Main switch

б to plus battery and 6 regulator
я to я generator
ш
ф to city light and speedo light
п to light switch
cc
3c to plus ignition coil, claxon and brake switch



Voltage Regulator (PP-1)



Ignition Coil (KM-01)

б = 30 -51
я = 61
ш = 31
ф = 58
п = 56
cc = 55
3c = 15

sparkplug

sparkplug



Distributor (PM-01)

Breaker Points (PM-01)

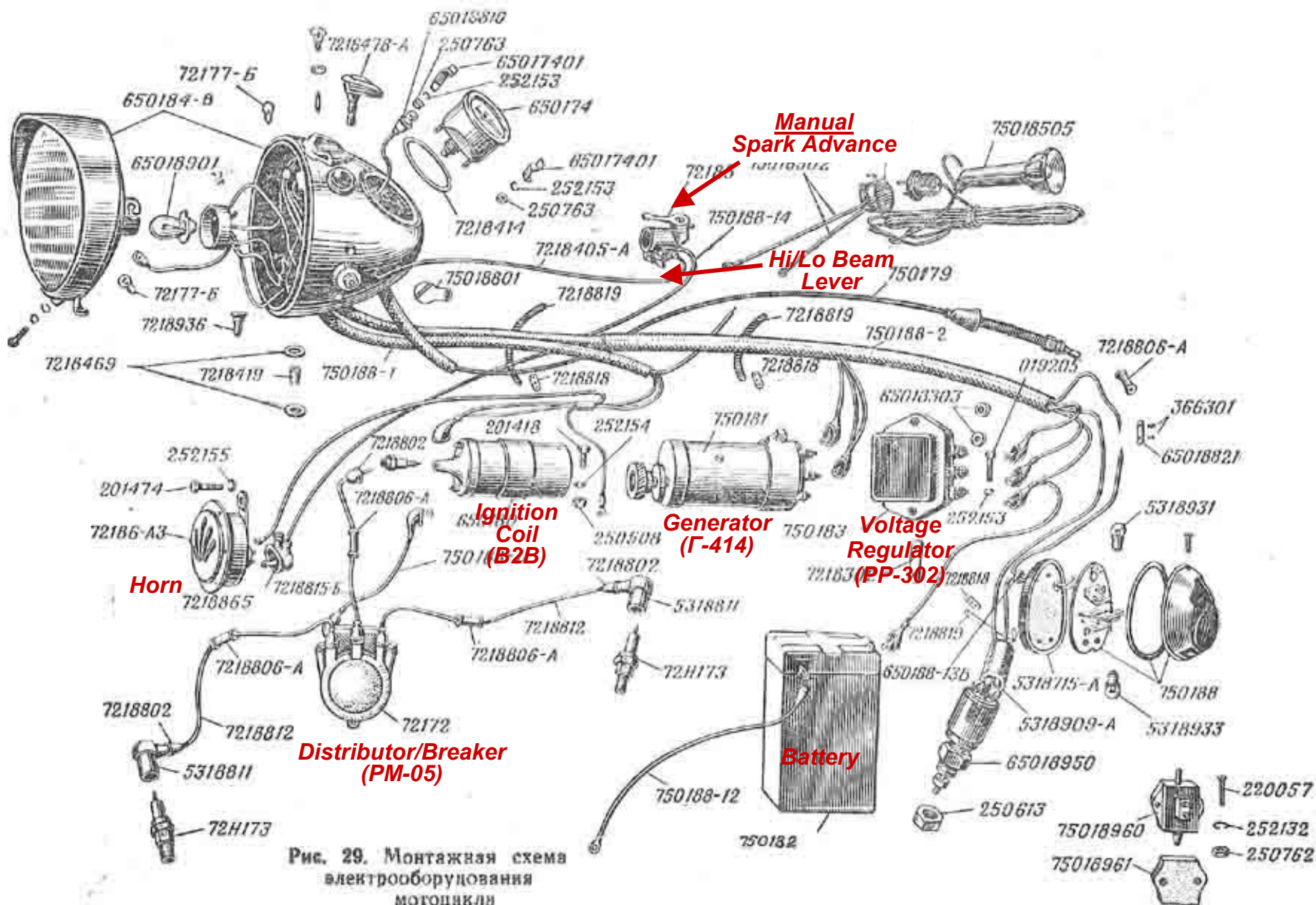
Minus on earth

This diagram illustrates the electrical system components of a motorcycle, including the headlight, horn, handlebar controls, ignition system, generator, regulator, battery, and lighting. Key components are labeled with part numbers and names:

- Headlight:** 650184-B, 650176, 72177-5, 7218936, 7218469, 7218419, 7218825, 252155, 019405, 72186-A3, 7218802, 7218806-A, 7218812, 5318811, 72 H 173.
- Horn (C-37):** 7218802, 7218812, 5318811, 72 H 173.
- Handlebar Control Switch (P-45):** 72185, 750188-1, 750179, 7218819, 750188-2, 019205, 7218806-A, 365301, 65018821, 5318931.
- Manual Spark Advance:** 72185, 750188-1.
- Hi/Lo Beam Lever:** 750188-1, 750188-2.
- Ignition Coil (B2B):** 7218802, 7218806-A, 750188-1, 7218818, 7218819, 750188-2, 019205, 7218806-A, 365301, 65018821, 5318931.
- Generator (Γ-414):** 750181, 7218818, 7218819, 750188-2, 019205, 7218806-A, 365301, 65018821, 5318931.
- Regulator (PP-302):** 750133, 7218818, 7218819, 750188-13, 5318715-A, 5318909-A, 65018950, 250613.
- Battery:** 72189-B, 750188-12, 72 H 173.
- Breaker/Distributor (PM-05):** 72172, 7218802, 7218812, 5318811, 72 H 173.

Рис. 34. Монтажная схема электрооборудования мотоцикла

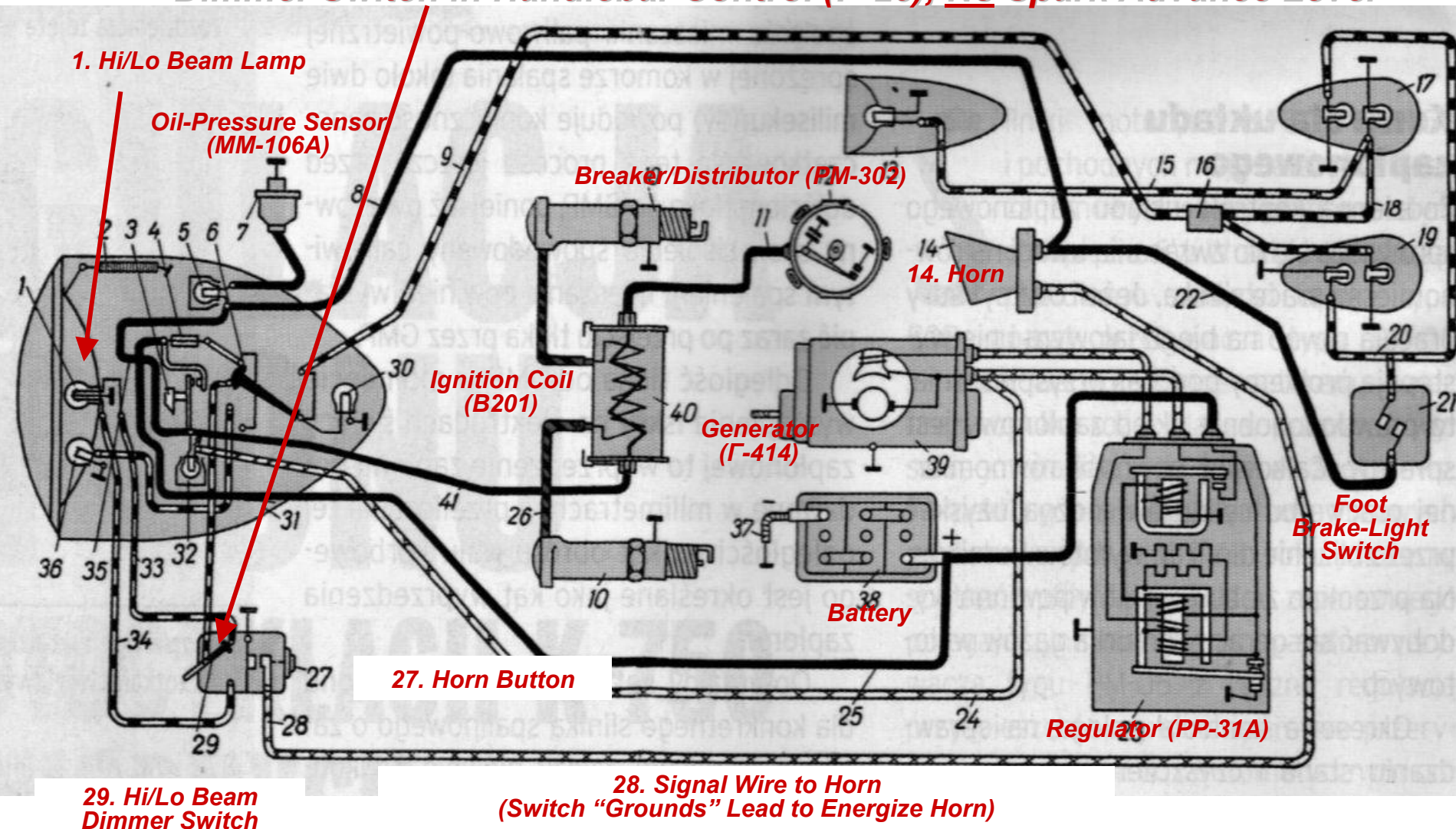
Dnepr (Днепр) Early MB-750 (Military Version of MT-12) (1961)



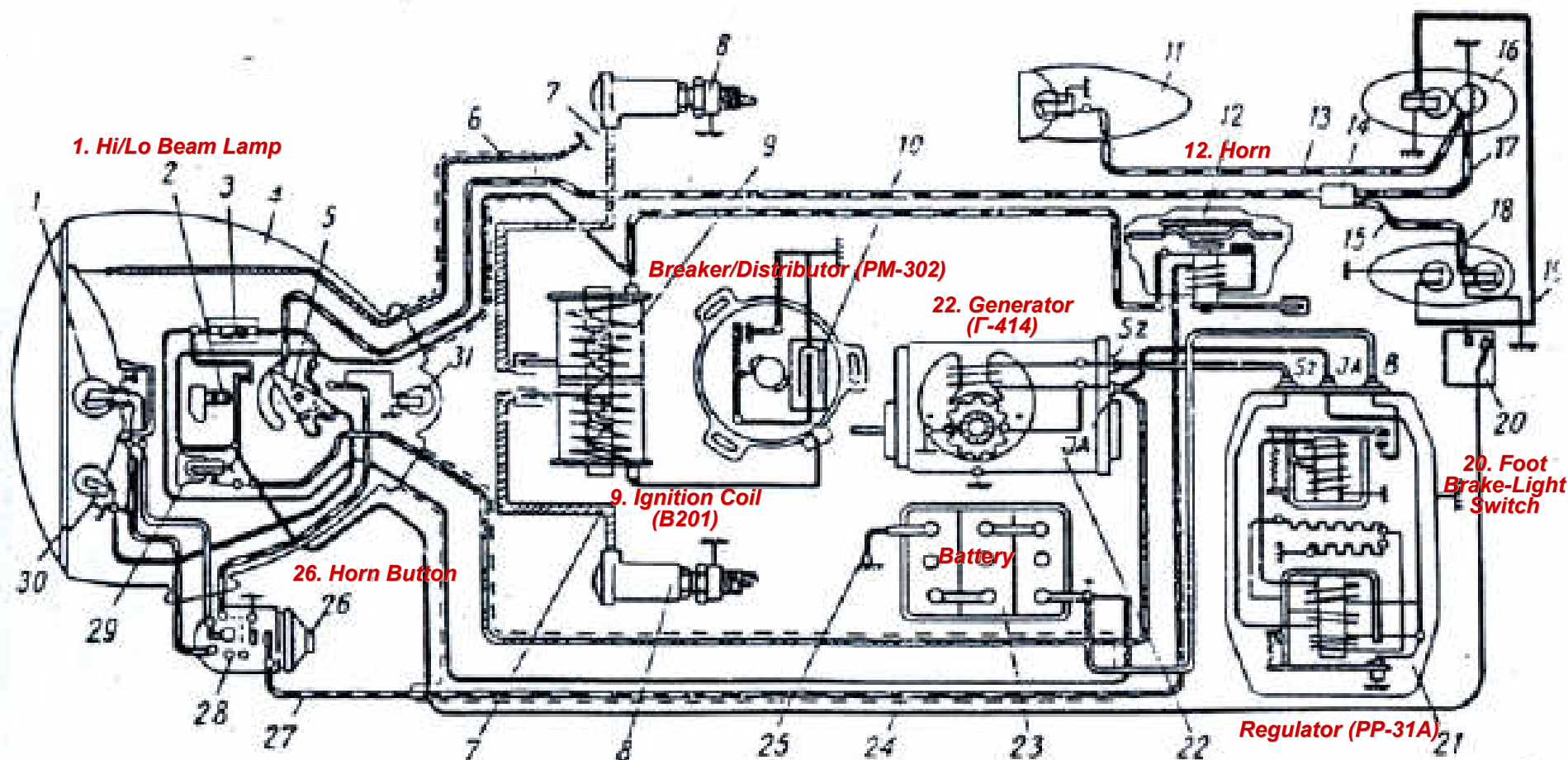
Dnepr (Днепр) Later K-750

(with Breaker PM-11A, PP-302 and B201 for Automatic Control of Firing Angle)

Dimmer Switch in Handlebar Control (P-25), No Spark Advance Lever



K-750M with PM-302 (Automatic) Ignition System



Rys. 70. Schemat instalacji elektrycznej motocykla K-750 W z zastosowaniem urządzenia przyspieszania zapłonu PM16 i prądnicy 65 W

1 — żarówka światła szosowego i światła mijania, 2 — kluczyk, 3 — bezpiecznik, 4 — reflektor, 5 — główny przełącznik, 6 — przewód do „masy”, 7 — przewód wysokiego napięcia, 8 — świeca zapłonowa, 9 — cewka zapłonowa, 10 — przerywacz, 11 — lampa przednia przyciępy, 12 — sygnał dzwinkowy, 13 — przewód przedniej lampy przyciępy, 14 — gniazdo przewodów, 15 — przewód tylnej lampy motocykla, 16 — lampa tylna przyciępy, 17 — przewód tylnej lampy przyciępy, 18 — lampa tylna motocykla, 19 — przewód światła hamulcowego („stop”), 20 — włącznik światła hamulcowego („stop”), 21 — regulator prądnicy, 22 — prądnicę prądu stałego, 23 — bateria akumulatorów, 24 — przewody niskiego napięcia, 25 — przewód łączący baterię akumulatorów z „masą”, 26 — przycisk sygnału dzwinkowego, 27 — przewód sygnału dzwinkowego, 28 — przełącznik światła, 29 — lampka kontrolna, 30 — żarówka światła postojowego, 31 — żarówka oświetlenia skali prędkościomierza