



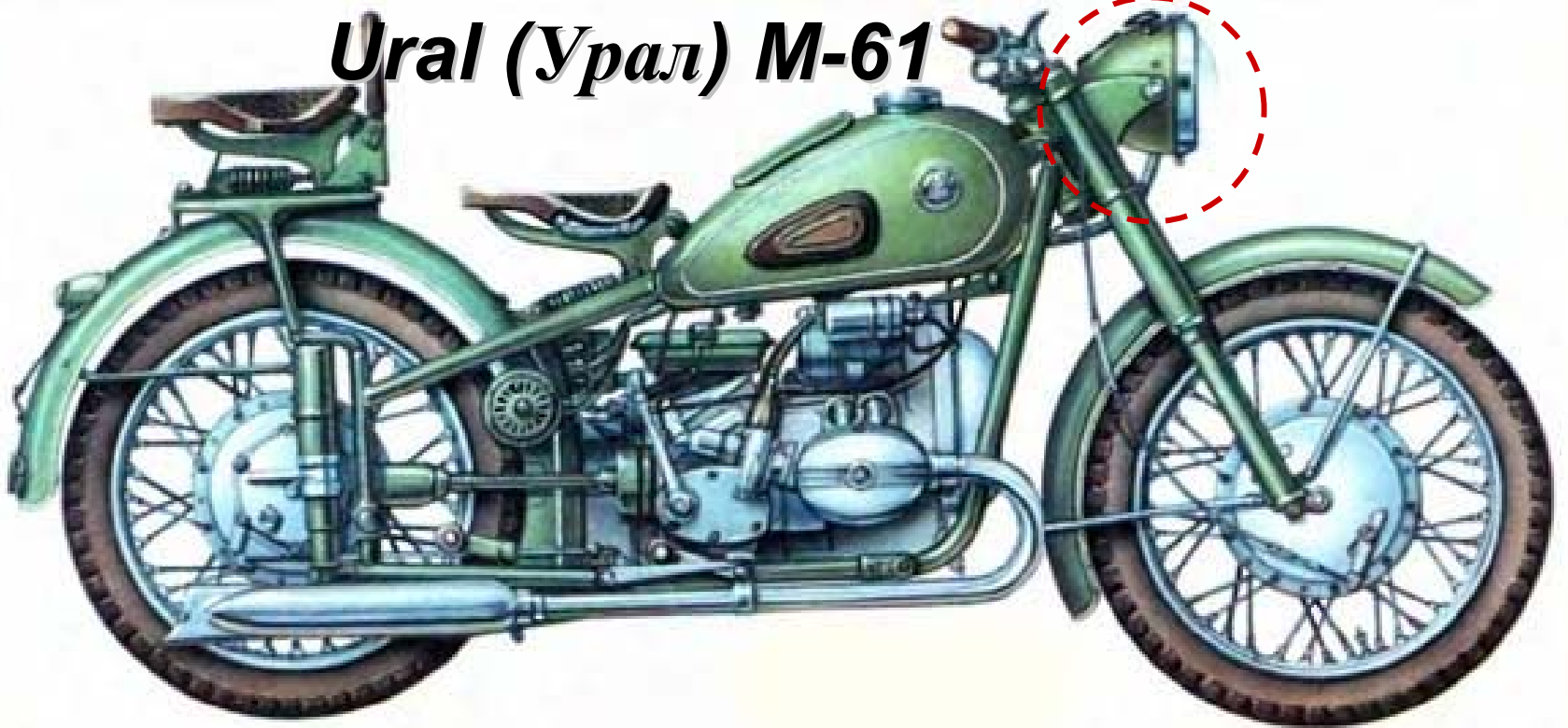
Russian Headlight Assemblies

Part IV: Headlight Cavity for M-61, M-62, M-63 and M-66

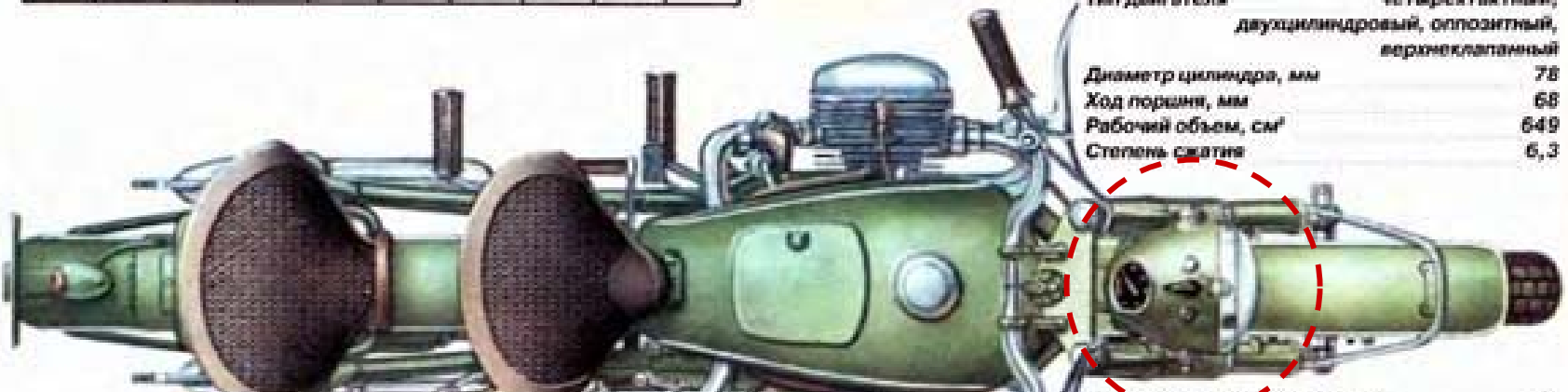
***(Also See Part I: Headlight Cavity, Early Central
Switch and Speedometer)***

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(09/2011)***

Ural (Урал) M-61



Тип двигателя	четырехтактный, двухцилиндровый, оппозитный, верхнеклапанный
Диаметр цилиндра, мм	78
Ход поршня, мм	68
Рабочий объем, см ³	649
Степень сжатия	6,3



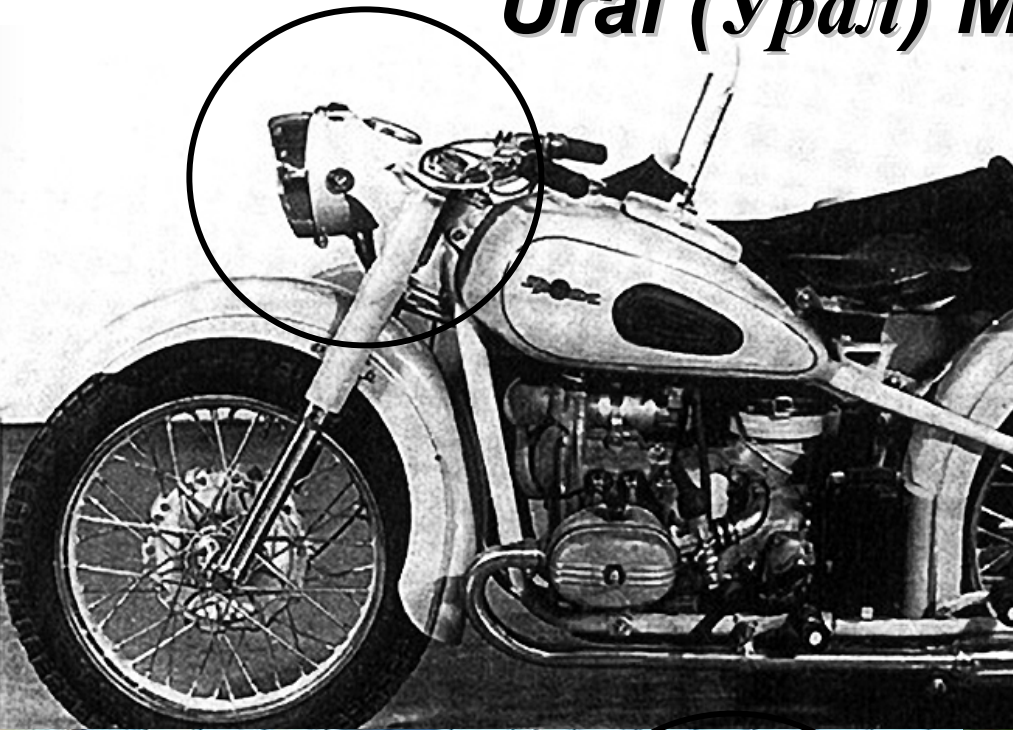
The headlight cavity contains a speedometer, warning lights, and hi/lo headlight dimmer switching, but the center of interest is the central ignition switch.

Ural (Урал) Ural M-61 (1958-1963)



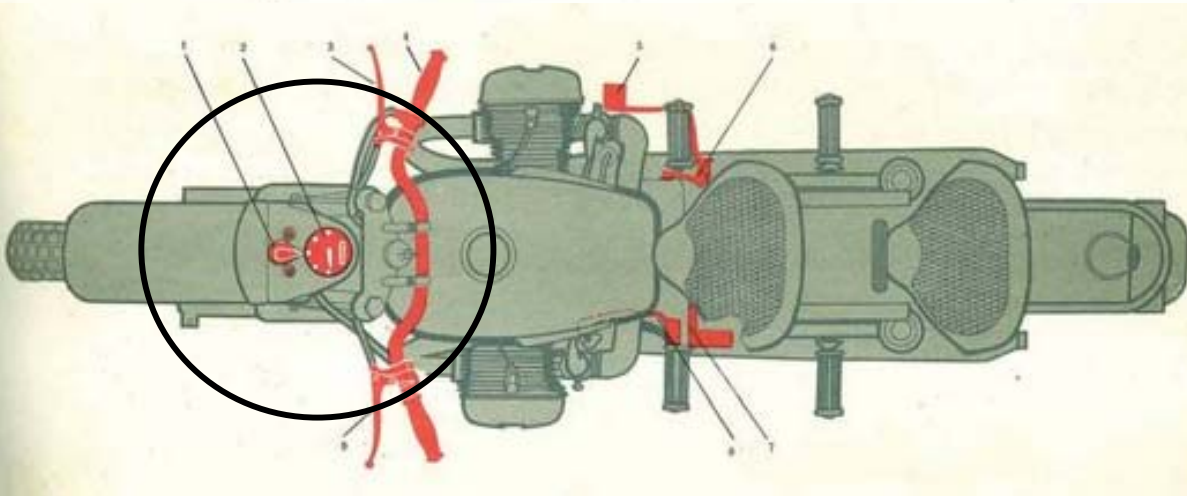
The headlight cavity of the M-61 resembles the cavity of a M-72 or K-750.

Ural (Урал) M-62 (1964)



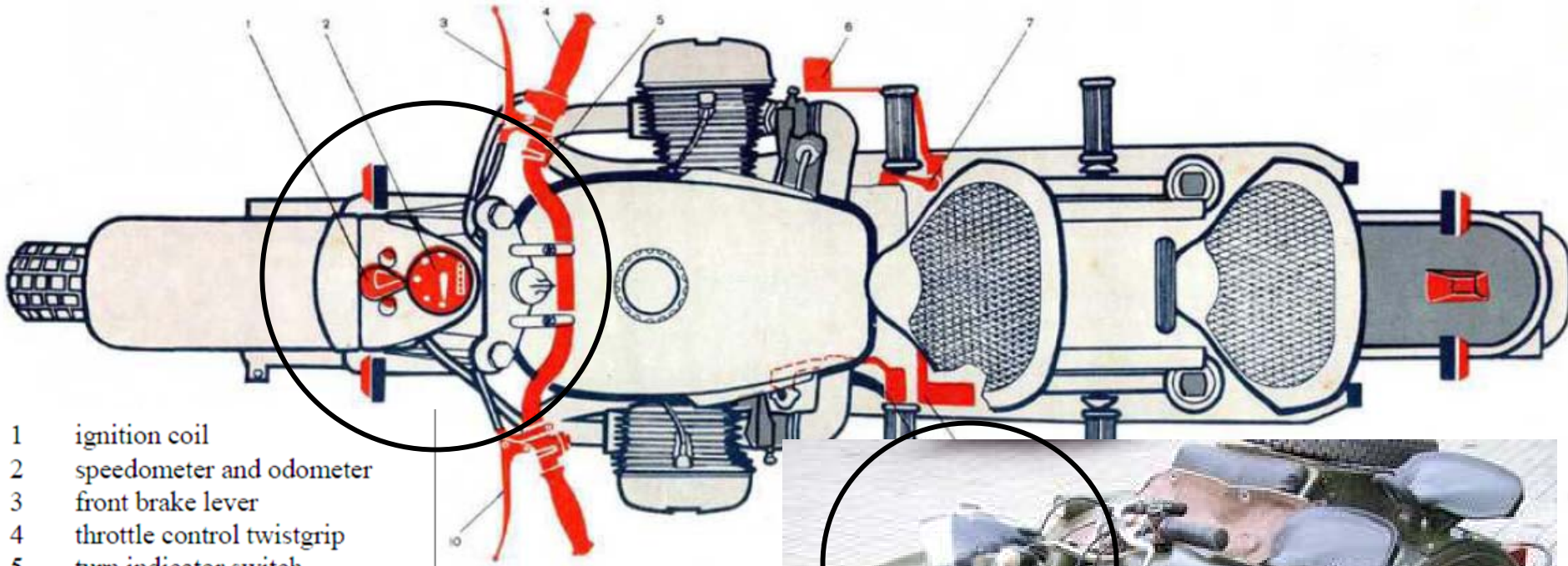
The headlight cavity of the M-62 resembles the cavity of a M-72 or K-750.

Ural (Урал) M-63 (Ural-2)



1. With the Ignition Key Pulled Out and Central Switch in the Mid-Point Position; All Instruments Are Off (day-time parking).
2. With the Key Pulled Out and Central Switch Turned to the Right; the Tail-Light, Sidecar Lights and Headlight "Dim" Bulb Are "On" (night-time parking).
3. With the Key Fully Pushed In, and Central Switch in the Mid-Point Position; Ignition is "on", Horn Will Sound if Button Depressed (day-time driving).
4. With the Key Fully Pushed In and Central Switch Turned to the Left; Ignition, Tail-Light, Speedometer Dial Light and Sidecar Lights Are On and, Depending on the Position of of the Dimmer Switch, Hi or Lo Beam Headlight.
5. With the Key Fully Pushed In and Central Switch Turned to the Right; Ignition, Tail Lamp, Speedometer Dial Light and Sidecar Lights and Lamp "dim" Bulb Are "on" (driving at night thru well-lighted streets), Horn Will Sound if Button Depressed.

Ural (Урал) M-63 and M-66 (i4.photobucket.com)



- 1 ignition coil
- 2 speedometer and odometer
- 3 front brake lever
- 4 throttle control twistgrip
- 5 turn indicator switch
- 6 rear brake pedal
- 7 gear change hand lever
- 8 kick starter
- 9 gear change floor pedal
- 10 clutch lever



Ural (Урал) Ural M-66 (www.bikepics.com and lubelskie.olx.pl)



The M-66 (Ural-3) was the first Ural to use the new paper oil filter cartridge at the front of the motor. Otherwise the machine was basically identical to the M-63 (Ural-2).

M-61, M-62, M-63, M-66 Headlight Cavity

(www.cossackmotorcycles.com)

Central Switch



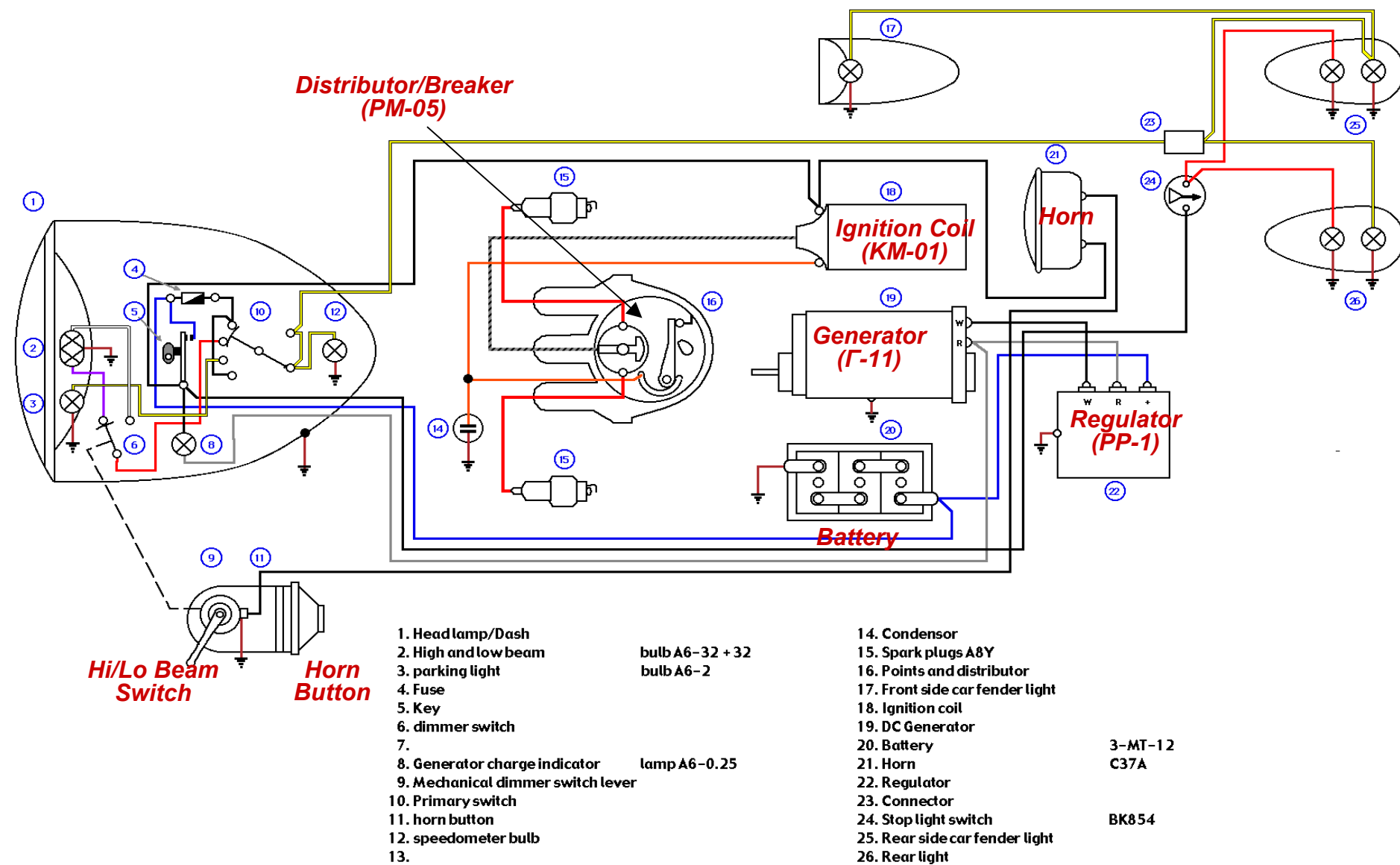
1970's Urals (M-63 and M-66) have a very nice simple light, with the speedometer set into it and the ignition key in front.

23 November 2006

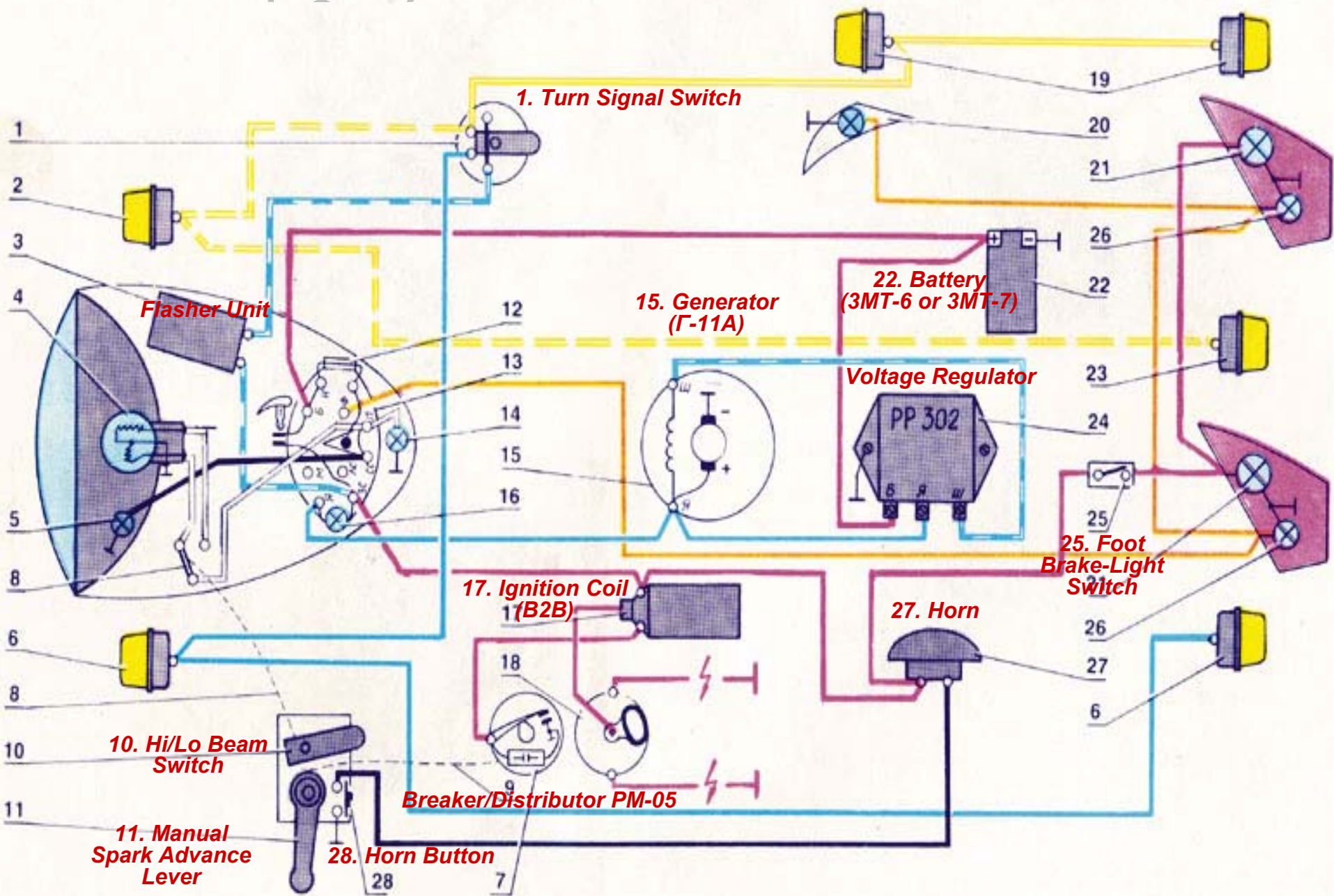
Carl Allison

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

Ural (Урал) Early M-61 with PM-05 Distributor/Breaker Points

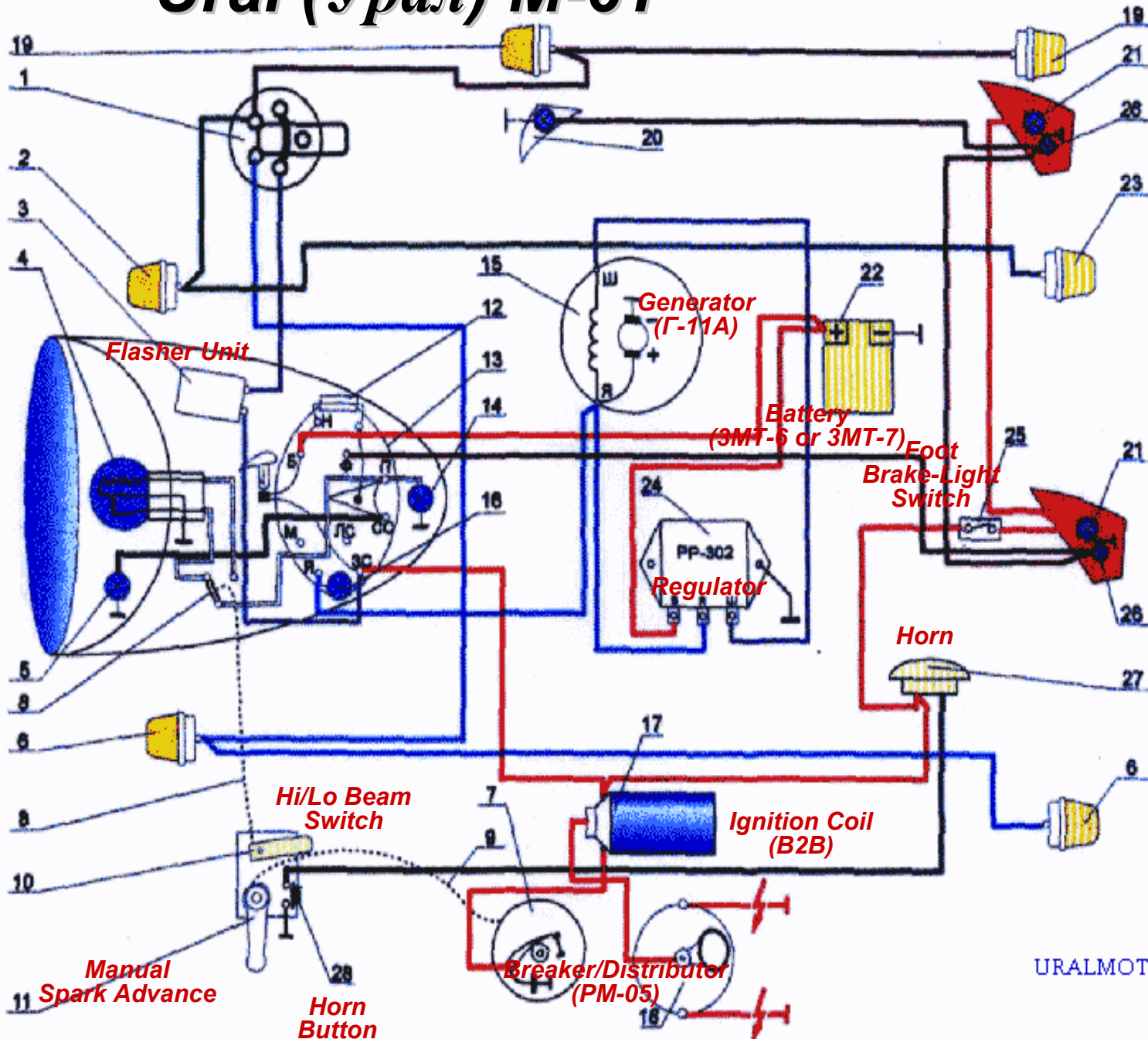


Ural (Урал) later M-61 with PP-302 Regulator

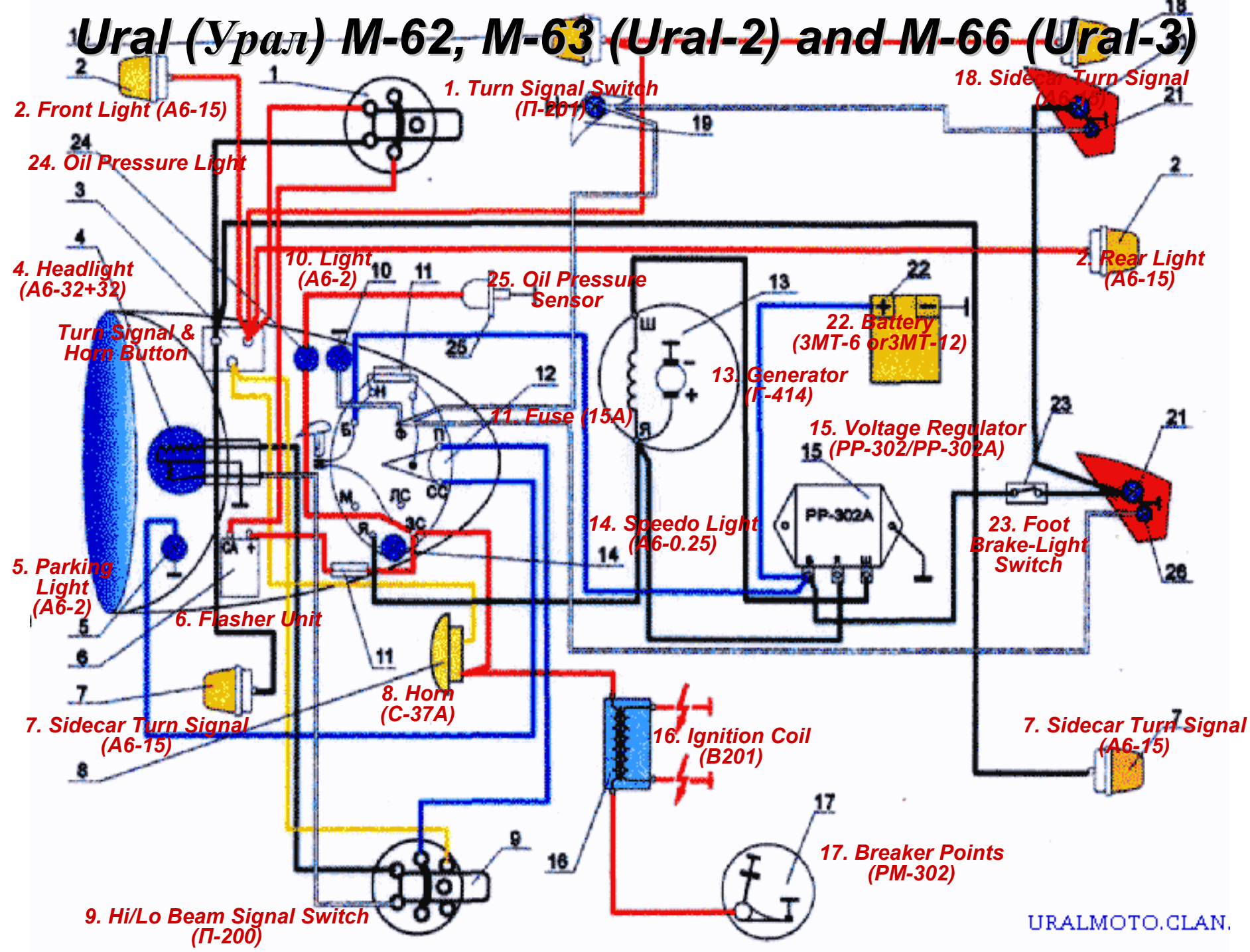


Ural (Урал) M-61

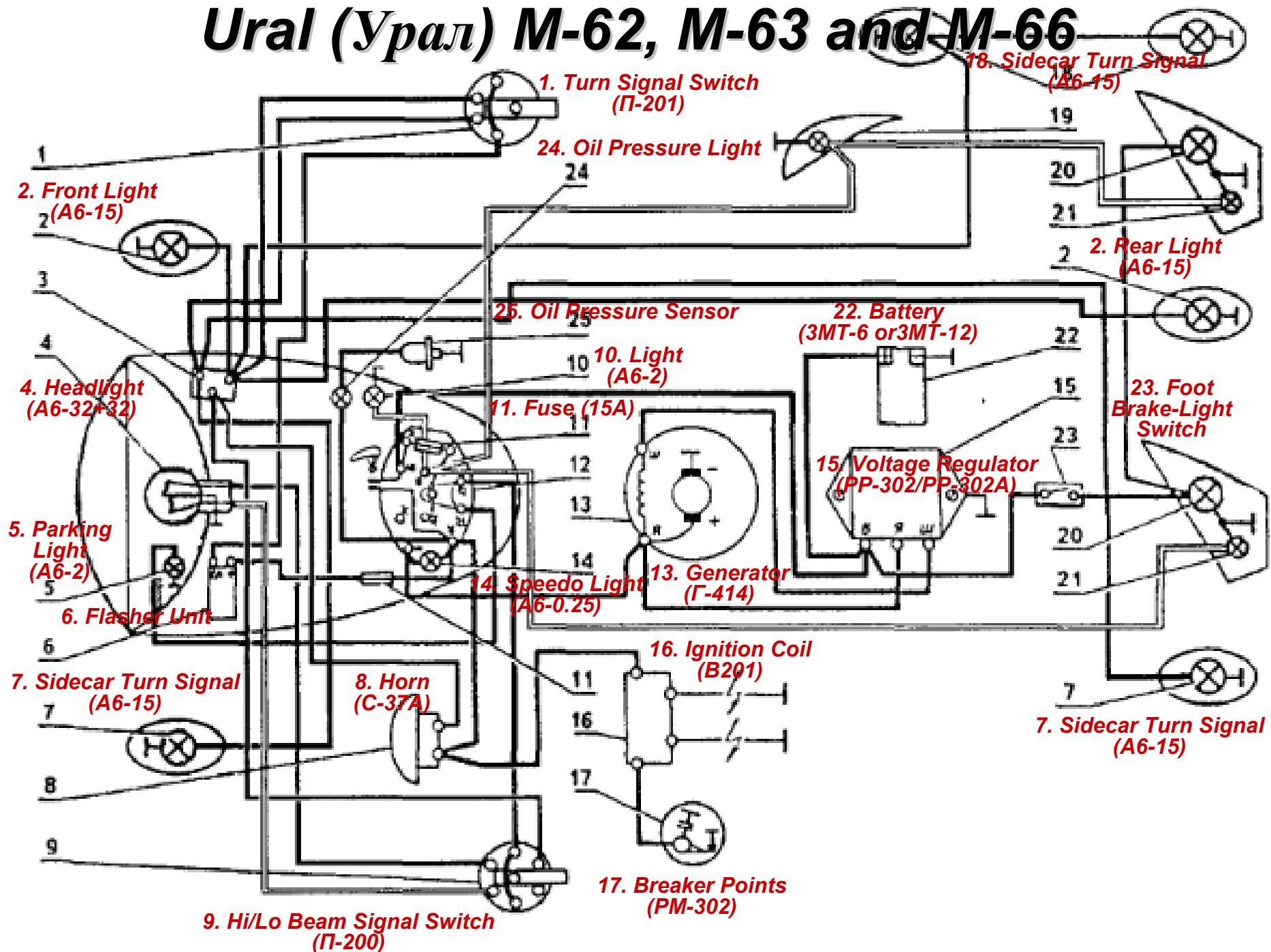
- 1 Переключатель указателей поворотов П-201
 - 2 Правый передний указатель поворота на мотоцикле-одиночке
 - 3 Реле-прерыватель указателей поворотов РС-419
 - 4 Лампа головного света фары АБ-32+21 или АБ-32+32
 - 5 Лампа стояночного света фары АБ-2
 - 6 Левые указатели поворотов
 - 7 Прерыватель ПМ-0,5
 - 8 Переключатель света (расположен в кожухе фары) и его тросик
 - 9 Тросик манетки опережения зажигания
 - 10 Рычажок переключателя света
 - 11 Манетка опережения зажигания
 - 12 Предохранитель 15А
 - 13 Центральный переключатель (на М-72 и К-750 имеет несколько иное обозначение клемм)
 - 14 Лампа АБ-2 подсветки шкалы спидометра
 - 15 Генератор
 - 16 Контрольная лампа работы генератора АБ-0,25
 - 17 Катушка зажигания КМ-01 или Б-2Б
 - 18 Распределитель
 - 19 Указатели поворотов правые (на коляске)
 - 20 Передний габаритный фонарь коляски
 - 21 Лампы АБ-15 стоп-сигналов (только в фонарях ФП-230 и ФП-246)
 - 22 Аккумуляторная батарея ЗТ-6 или ЗМТ-7
 - 23 Правый задний указатель поворота на мотоцикле-одиночке
 - 24 Реле-регулятор
 - 25 Включатель стоп-сигнала
 - 26 Лампы задних габаритных фонарей
 - 27 Звуковой сигнал С-35
 - 28 Кнопка звукового сигнала
- На мотоциклах М-72, М-52, М-61 и К-750 используются генератор Г-11 («Глоксинмакс») и распределитель РП-1 или РП-31, на мотоциклах М-72 и К-750 используются генератор Г-11 («Глоксинмакс») и распределитель РП-302. На мотоциклах М-72, М-52, М-61 используются катушка зажигания КМ-01 и манетка опережения зажигания К-750. На М-12 цепь переключения света переключается непосредственно на лампах, а не через переключатель.



Ural (Урал) M-62, M-63 (Ural-2) and M-66 (Ural-3)



Ural (Урал) M-62, M-63 and M-66



Ural (Урал) M-63 (Ural-2)

Ignition Switch

Spark Plug

Breaker Points (PM-302)

4. Ignition Coil (B201)

Dual-Beam Lamp

Hi/Lo Beam Connector

Foot Brake-Light Switch

6. Generator (Г-414)

10. Battery (3MT-6 or 3MT-12)

Voltage Regulator (PP-302/PP-302A)

Horn Button

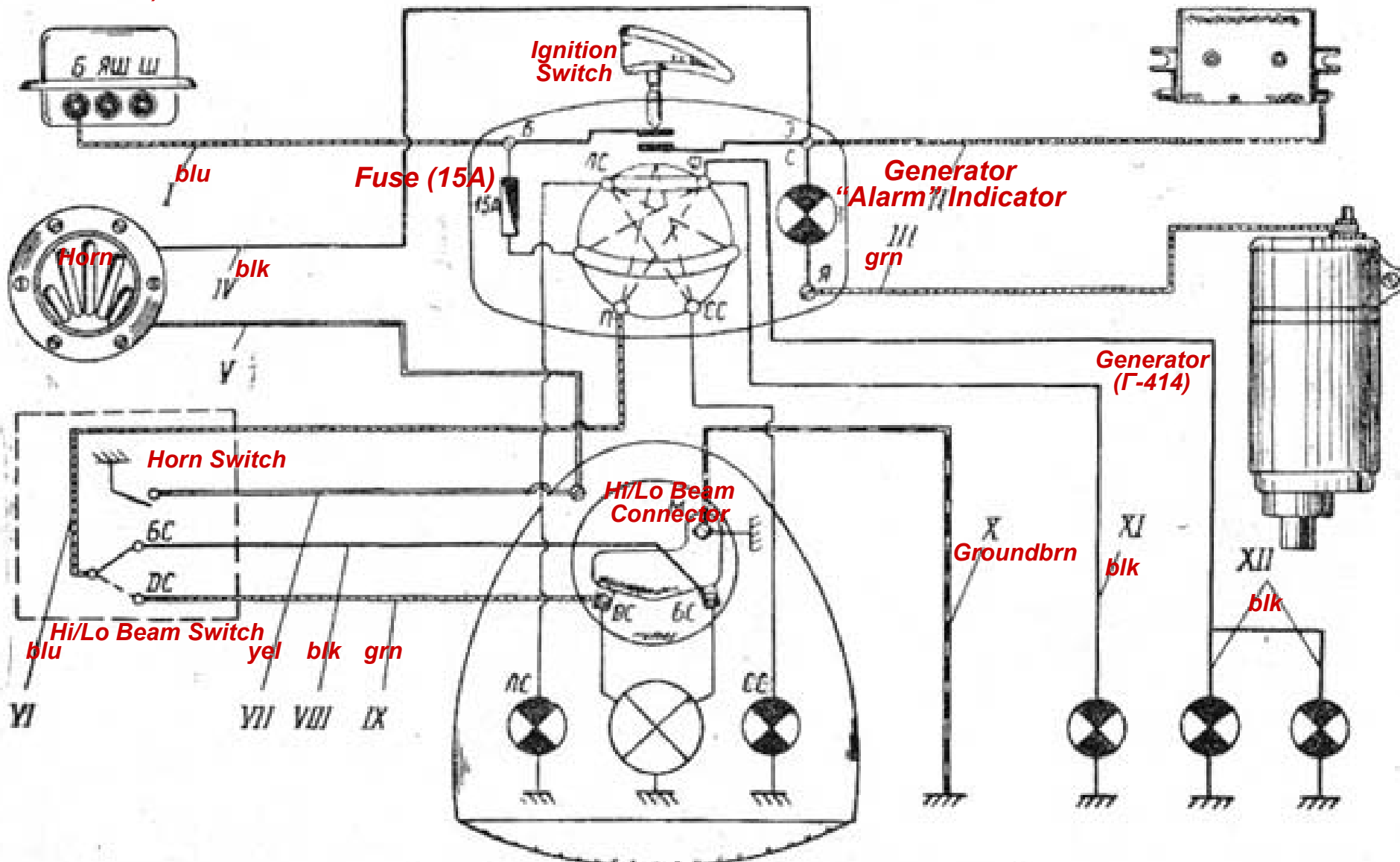
Horn

1 - lamp, 2 - an incendiary spark, 3 - sparkgap 4 - ignition coil, 5 - breaker with automatic ignition advance, 6 - generator, 7 - taillight motor/cycle, 8 - front position lamp sidcar; 9 - taillight sidcar; 10 - battery, 11 - relay-regulator, 12 - stop light switch; 13 - signal; 14 - light switch and button signal I-to the ignition coil (red); II-bike to the lamp (black); III-on "ground" (brown); IV-to-breaker (black); V - to sidcar lamp (black); VI - from generator to terminal; JS relay-regulator (green); VII-I to generator terminal (green); VIII-filament lamp to dim light (black); IX-filament lamp to beam (green); X-button on signal to the lamp (yellow); XI - to light switch (blue); XII-to-signal ratio (black); XIII - the signal to lamp (yellow); XIV-B switch to time-control (blue); XV - from relay controller to terminal W generator (brown); XVI-in battery (blue)

Ural (Урал) M-63 (Ural-2)

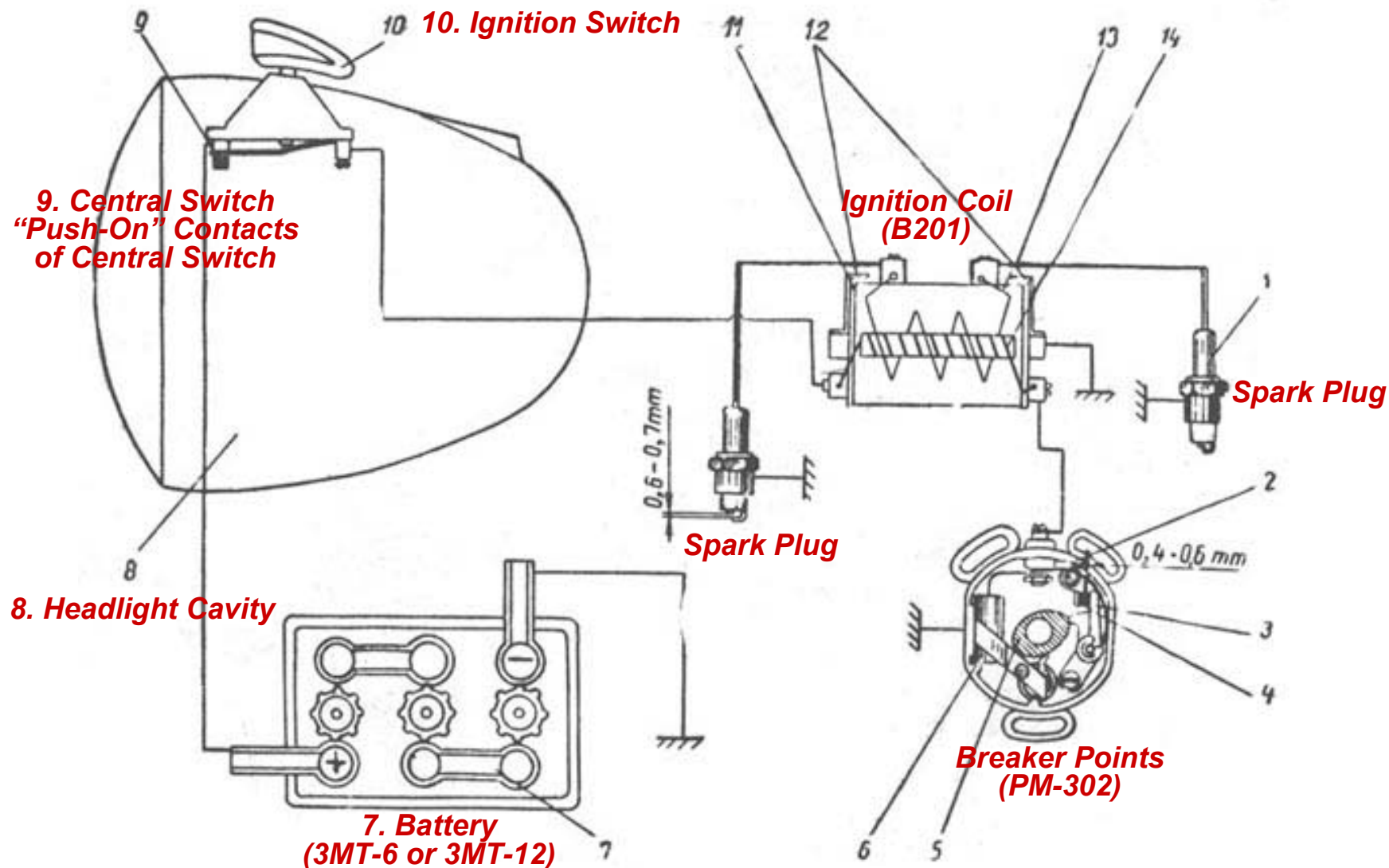
Regulator
(PP-302/
PP-302A)

Ignition Coil
(B201)



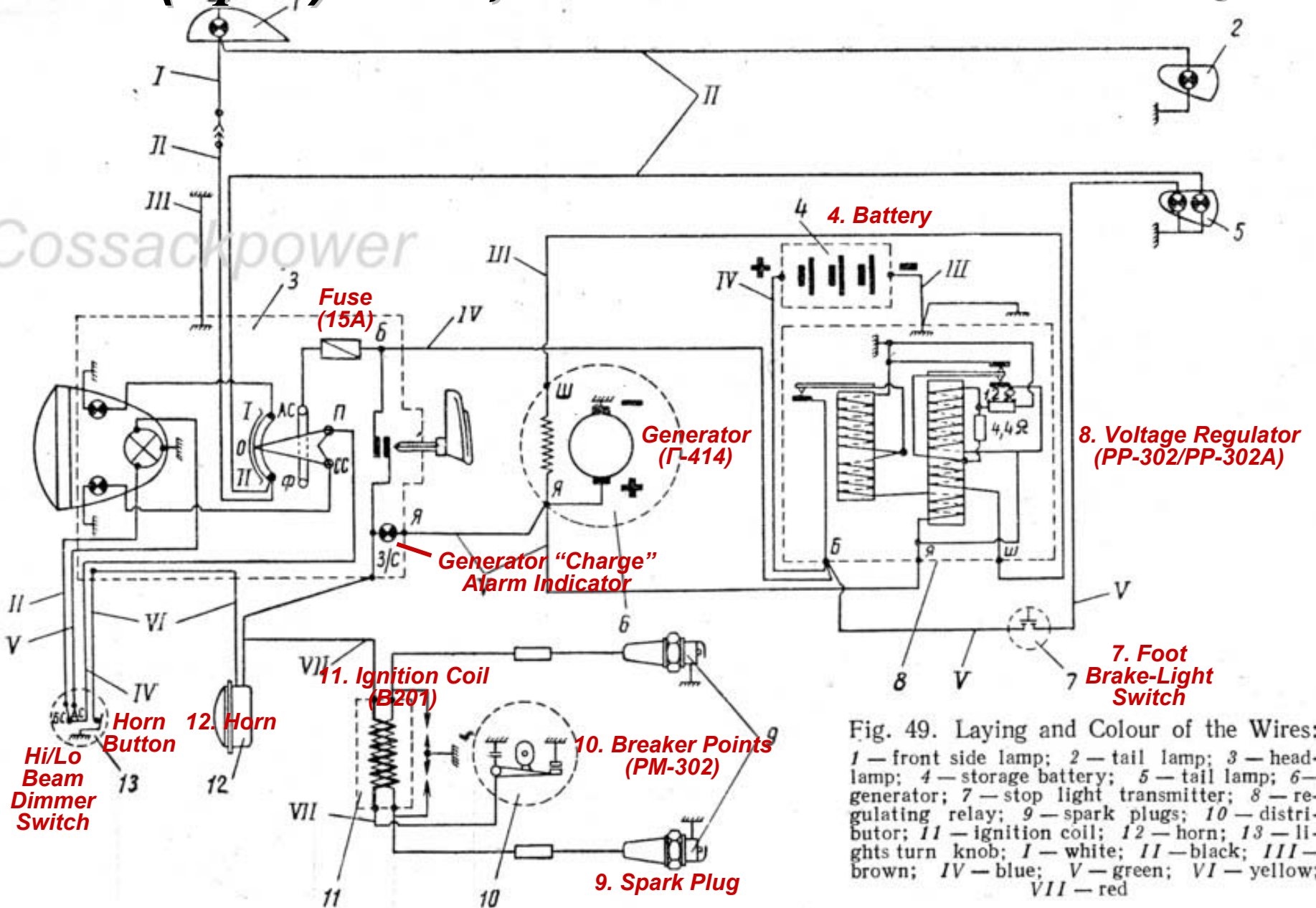
I-to terminal B relay control (blue); II-to coil; III-I to terminal of generator (green); IV-to-signal ratio (black); V-signal from headlamp; VI-to light switch (blue) ; VII-a button signal to lamp (yellow); VIII-filament lamp to dim light (black); IX-filament lamp to beam (green); X-on "ground" (brown); XI-bike to lamp (black); XII-lanterns to sidecar (black)

Ural (Урал) M-63 (Ural-2)

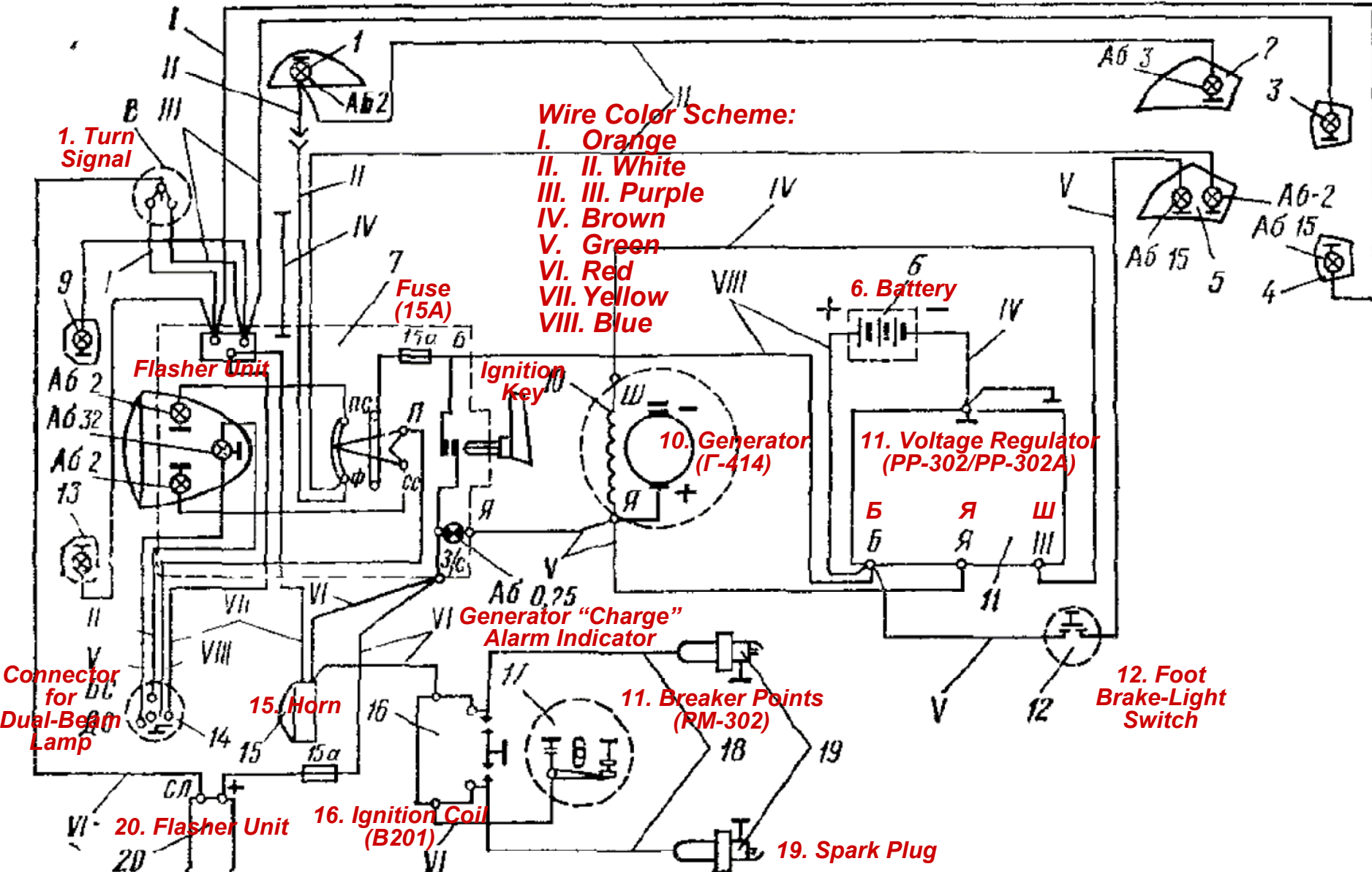


1 - sparkplug, 2 - circuit breaker, 3 - hammer breaker, 4 - anvil breaker, 5 - cam plugs, 6 - condenser, 7 - battery, 8 - headlight, 9 - ignition contact, 10 - ignition key, 11 - ignition coil, 12 - spark gap, 13 - secondary winding, 14 - primary winding

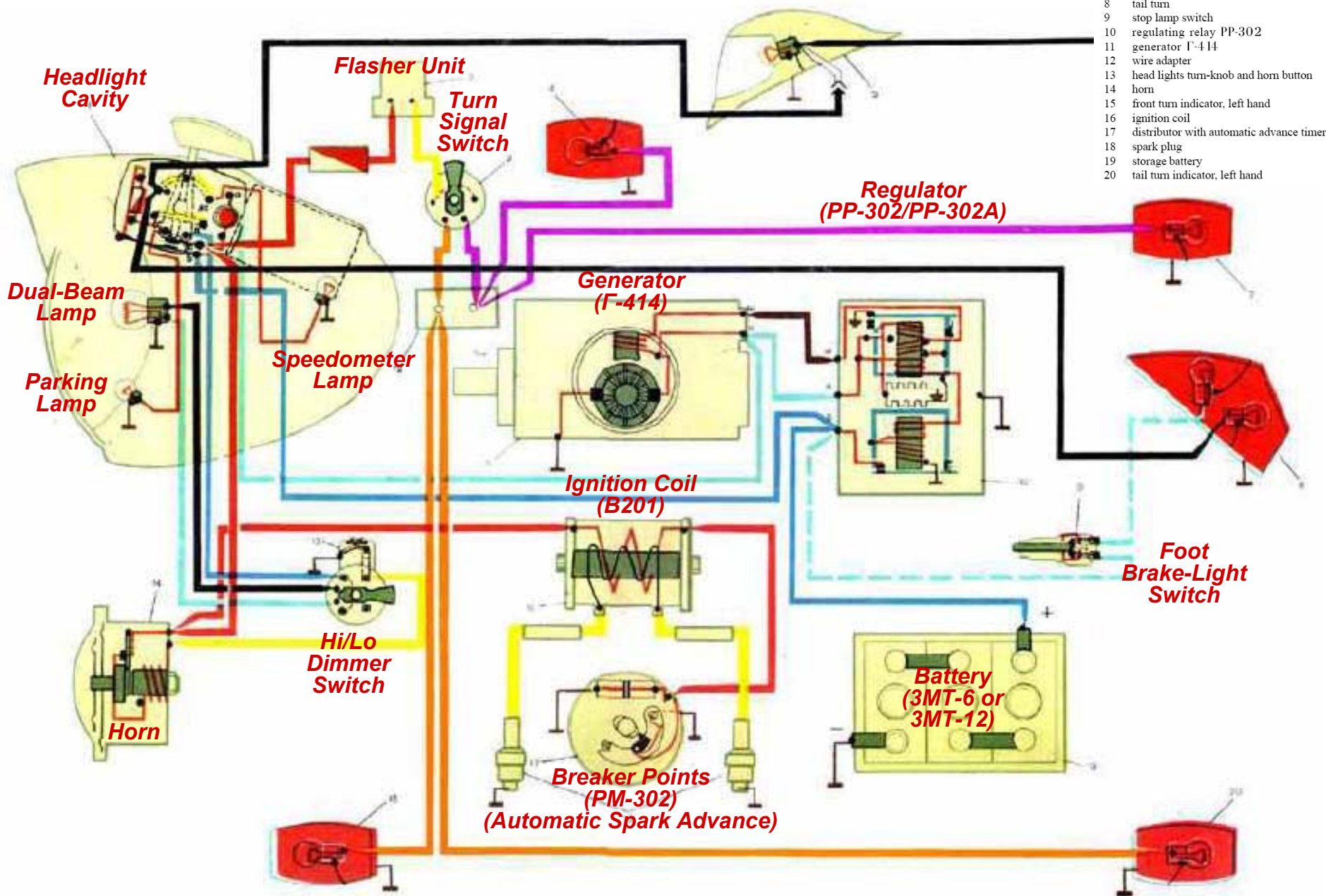
Ural (Урал) M-62, M-63 and M-66 without Turn Signals



Ural (Урал) M-63 (Ural-2) and M-66 Ural-3) with Turn Signals



Ural (Урал) M-66 (Ural-3)



- 1 headlamp
- 2 turn indicator relay
- 3 turn indicator switch
- 4 front turn indicator, right-hand
- 5 side-car front lamp
- 6 side-car tail lamp
- 7 tail turn indicator, right-hand
- 8 tail turn
- 9 stop lamp switch
- 10 regulating relay PP-302
- 11 generator F-414
- 12 wire adapter
- 13 head lights turn-knob and horn button
- 14 horn
- 15 front turn indicator, left hand
- 16 ignition coil
- 17 distributor with automatic advance timer
- 18 spark plug
- 19 storage battery
- 20 tail turn indicator, left hand

Ural (Урал) M-62, M63 and M-66 Parts

