Part XVIII: Russian Motorcycle Speedometer Evolution
(also see Russian Headlight Assemblies)

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09 / 2017
Speedometer / Odometer Overview and Notes

- **Part I: Three Types of Speedometers in Ural / Dnepr History**
  - СП-8 (SP-8) up to 1952, СП-8А (SP-8A) post-1952, СП-8Б (SP-8B)
  - СП-102 (SP-102), СП-102А (SP-102A)
  - IMZ-8.1037-17004

- **Part II: Bill Glazer’s Repair Manual**
  - MyUral. com (5.7 Speedometer Disassembly & Service)

- **Speedometer in Russian:** спидометр

- **Speedometer Accuracy**
  - Speedometer Isn't a Precision Instrument, More of a Gauge!
  - For Accurate Speeds; Use GPS

- **Odometer Usefulness**
  - Reset Trip Odometer at Each Fuel Fill-Up and Know Typical Range

- **Lloyd Lounsbury at Ramco of Seattle has a LOT of new Dnepr speedometers with both MPH and KPH on the face, however the odometer is still KPH**
  - Contact Him thru Dneprheads (http://autos.groups.yahoo.com/group/dneprheads/)
### Ural (Урал) / Dnepr (Днепр) Speedometers and Flexible Drive Cables

<table>
<thead>
<tr>
<th>Ural (Урал) Model</th>
<th>Voltage</th>
<th>Speedometer Part #</th>
<th>Flexible Cable Part #</th>
<th>O-Ring Part #</th>
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<tbody>
<tr>
<td>M-72</td>
<td>6-Volt</td>
<td>СП-8 and 8А (72174)</td>
<td>ГВ-38 (72175)</td>
<td>7218414</td>
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<td>M-72M</td>
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<tr>
<td>8.103 and 8.107 Series “650”</td>
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<td>IMZ-8.102-17004</td>
<td>IMZ-8.101-17005-01</td>
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<tr>
<td>650 &amp; 750 Series</td>
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<td>IMZ-8.1037-17004</td>
<td>IMZ-8.101-17005-01</td>
<td>-</td>
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<td>“750”Series</td>
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<td>IMZ-8.1037-17004</td>
<td>IMZ-8.101-17005-01 (&lt; 2005)</td>
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### Dnepr (Днепр) Model

<table>
<thead>
<tr>
<th>Dnepr (Днепр) Model</th>
<th>Voltage</th>
<th>Speedometer Part #</th>
<th>Flexible Cable Part #</th>
<th>O-Ring Part #</th>
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<tr>
<td>M-72</td>
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<td>K-750</td>
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<td>MB-750</td>
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<td>750179</td>
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<td>MB-750M</td>
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<td>MT-11 (Dnepr-11)</td>
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<td>MT-16 (Dnepr-16)</td>
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<td>СП-102 (3802010)</td>
<td>ГВ-127 (3802600)</td>
<td>7218414</td>
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</tbody>
</table>
The M-72 and K-750 motorcycles used the SP-8 (СП-8) speedometer.
Speedometer / Odometer SP-8 (спидометр / одометр СП-8)

Motorcycle: M-72, K-750
List Price: €59
(www.ebay.com.au)

Motorcycle: M-72
Part #: 002.505
List Price: €68
(www.oldtimergarage.eu)

Motorcycle: M-72, K-750
List Price: €49
(www.ebay.de)

Speedometer for M-72 and K-750
List Price: €59.50
Part #: S903
(www.ural-zentrale.de)

Reproduction
Fits: M-72 (80mm hole)
Part #: S3486
List Price: €59.50
(www.ural-zentrale.de)
The SP-8, on early M-72s, is very similar to the SP-8, but has an emphasis on the arrow of the speedometer.
Dnepr MT-10.36 Speedometer (спидометр)

СП-102 (SP-102)
Speedometer with Odometer for Ural 650 cm³
GOST (ГОСТ) Number on Speedometer Faceplate
(en.wikipedia.org)

• Word GOST is an Acronym for GOsudarstvennyy STandart, which means state standard

• ГОСТ (GOST) Standards
  – Set of Technical Standards maintained by the Euro-Asian Council for Standardization, Metrology and Certification (EASC), a Regional Standards Organization operating under the auspices of the Commonwealth of Independent States (CIS)

• Originally Developed by the Government of the Soviet Union as part of its National Standardization Strategy

• **GOST 1578-XX**
  – Speedometers with Flexible Shaft Drive for Cars and Cycles
  – Last Two Numbers Indicate Update (Year) of the Standard

• GOST Number Doesn’t Help Much for Identifying the Speedometer Part
Speedometer / Odometer Accuracy

• Speedometer Drive Taken from Transmission Output Shaft
• Speedometer / Odometer Accuracy Affected by Amount of Wear on Rear Tire
  – As Rear Tire Wears, Circumference Decreases and Bike Covers Less Distance
  – Appears to Be Going Faster, Overstating the Distance as Tire Wears
  – Effect Should Be Minimal:
    • Inherent Speedo Error Is Much More Influential than Tire Circumference / Final Ratio
    • Assuming 19" Tire with 1.5" of Rubber on Each Side
      – Total Diameter of a New Tire of 22" yields Circumference of 69"
      – If 1/4" of Tread Wear, 21.5" Dia., Circumference of 67.5" (2.2% smaller)
      – If 1/2" of Tread Wear, 21" Dia., Circumference of 66" (4.4% smaller)
  – Oil Changes Occur Sooner with Tire Wear
Improving the Backlighting on Speedometers

- Having a Problem with Speedometer Lighting?
  - Can Hardly See It at Night
  - Two Bulbs in Speedometer
  - Like to Keep an Eye on the Klicks, so You Don't Run Out of Gas
  - Instrument Lights (speedometer face): Speedometer Bulb (65017401) Replaced with Sylvania 3893 (4W vs. 3W)
  - Go to www.myural.com and Look under Speedometer Repair
  - Gives step-by-step Instructions
  - Shouldn't Take but a Half-Hour
- Older Speedometers Cast a Green Glow, Newer Rigs Cast Amber Glow
Speedometer Cable Water Seal

• Common Problem: Folks Report Water in the Gear Box
  – Check the Grommet/Gasket where Speedometer Cable Enters Gearbox
  – Water Enters the Gearbox Down the Speedometer Drive Cable
  – Transmission Sucks Moisture In as It Cools
  – Forms a Milky White or Grayish Emulsion with Oil (not good)

• Cure
  – Some RTV Will Cure It
  – Packing Underside of the Boot with Silicone Dielectric Grease Works Too
  – Can Make a Better Boot from a Heavy Rubber Boot Made to Seal the Spark Plug Wire that goes into a Automotive Ignition Coil. Slit with a Razor Blade Vertically. Place It Around the Speedometer Cable after Removing the Thin Old Boot. Apply a Bit of ZAP-brand Super Thin Super Glue and Press the Sides Together for a Minute to Seal the Slit Shut. Pack It Underneath with Silicone Grease and Slide It Down into Place so Boot and Silicone Grease Together Seal the Cable to the Transmission

• 2006 Improvements in Urals
  – Improved Speedometer Cable Seal
Motorcycle Speedometer Consists of Two Components: Speed Indicator and Odometer

- **Speedometer**
  - Rotating Magnetic Disc (3), Rotated by Flexible Shaft from Output Shaft Gear
  - Magnetic Disc Located under Aluminum Hood, Compass rose (4), Freely Turning on Its Axis
  - On a Common Axis (6) with a Compass Rose Attached Speed Needle Pointer
  - Compass Rose with Arrow Held at Zero Degrees by Spiral Spring (5)
  - When Rotating Magnetic Disc Crosses the Compass Rose and Excites Current, Which Creates a Magnetic Field
  - Interaction of Magnetic Fields, Disc Moves Compass Rose, Twisting of Spiral Spring (5)
  - The Faster the Disc Spins, the More Power It Drags the Compass Rose with an Arrow That is Moving on a Scale to Indicate Speed of the Motorcycle

- **Motorcycle Odometer**
  - Counting Device (7) Consists of Usual type of Computing Drums (with the numbers on the rim), Loosely Mounted on Common Axis and Connected to Another Gear Transmission with Ratio of 1:10. When Rightmost Drum Makes One Turn, Neighboring Drum Rotates by 0.1 Turns
  - Right-Drum Unit Counts the Distance in kms
  - Some Speedometers Rightmost Drum with Red Numbers Counts Tenths of a Kilometer
  - Counting Device Is Driven by Worm Gear (8) from Main Shaft (2)

### СП-8А (SP-8A) Accuracy

<table>
<thead>
<tr>
<th>Speed</th>
<th>Accuracy</th>
</tr>
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<tbody>
<tr>
<td>20 km/h</td>
<td>+1/-1 km/h</td>
</tr>
<tr>
<td>40 km/h</td>
<td>+3/-2 km/h</td>
</tr>
<tr>
<td>60 km/h</td>
<td>+3/-2 km/h</td>
</tr>
<tr>
<td>80 km/h</td>
<td>+5/-2 km/h</td>
</tr>
<tr>
<td>100 km/h</td>
<td>±10 km/h</td>
</tr>
<tr>
<td>120 km/h</td>
<td>±10 km/h</td>
</tr>
</tbody>
</table>

1. Flexible Speedometer Cable
2. Main Shaft
3. Rotating Magnetic Disc
4. Compass Rose
5. Spiral Spring
6. Common Axis
7. Counting Device
8. Worm Gear
Speedometer / Odometer (спидометр / одометр) СП-8

Note: СП-8 does NOT have a Trip Counter
СП-8, СП-8А, and СП-8Б Speedometers (www.retromoto.lv)

СП-8 does not have a spring tension regulator, like СП-8А and Б

СП-8 has a speedo stopper pin
**Speedometer Dial Plates for СП-8**

**M-72 Speedometer Plate Replica**
Product ID: 586
List Price: €14.16
(moto-boxer.com)

**Custom Speedometer Plate M-72 (78 mm)**
Part#: 001.454
List Price: €12.60
(www.oldtimergarage.eu)

**Speedometer Cable Rubber Grommet for M-72**
List Price: €8.85
(moto-boxer.com)

**Speedometer Gasket O-Ring**
Product #: S851
List Price: €0.99
(www.ural-zentrale.de)
Flexible Speedometer Cable (Вал гибкий привода спидометра) for СП-8: ГВ-38 (Part # 72175)

• Consists of Cable with Connectors and Protective Shells

- Speedometer Cable for M-72, K-750
  Part #: 1008
  List Price: €11
  (www.ural-hamburg.de)

- Speedometer Cable for K-750, MB-650\750, M-72
  Part #: 001.579
  List Price: €7
  (www.oldtimergarage.eu)

- Speedometer Cable (72175-A) for M-72/K-750
  Part #: 001.579
  List Price: €19.50
  (www.oldtimergarage.eu)

- Speedometer Cable (1055 mm) for M-72 / K-750
  Part #: 002.837
  List Price: €25.20
  (www.oldtimergarage.eu)

- Speedometer Cable, Old Style M-72
  Cable tunnel is form-locking, no plastic or rubber cover
  Generally painted
  List Price: €12.50
  Part #: S4151
  (www.ural-zentrale.de)
Modern Speedometer Cables

Speedometer Cable
Dnepr / Ural Speedometer (until 2005)
ΓВ-127-В (GV-127-В-3802600)
(shop.ural.cz)

Ural Speedometer Cable (since 2006)
IMZ-8.103-17005
(shop.ural.cz)
Modern Speedometer Cables

Speedometer Cable with Square Tip for Ural / Dnepr
List Price: $8 (www.ebay.com)

Motor End with Water-Protection Cap

Speedometer End

Speedometer Cable
Product ID: 255
List Price: €7.08 (moto-boxer.com)

Flexible Speedometer Cable, up to 2005: IMZ-8.101-17005-01 (750/650 cc)
Flexible Speedometer Cable, from 2006: IMZ-8.103-17005 750cc only
Speedometer Flexible Cable

GV127
Replaces 750179
(www.henriksson.ee)

GV127-B-3802600
IMZ-8.101-17005-01
Fits: Dnepr MT-11/16, Ural 10.20€ New
Suitable for:
(easthighway.com)

GV127-B-3802600
Fits: Dnepr MT-11/16, K-750, MB-750, M-72, MT-10.36, MT-9
$7.00 New
http://www.ebay.com/itm
Speedometer (спидометр) SP-102 (СП-102) for М-72, К-750М, MB-750 and K-650 (motoizhtuning.ucoz.ru)

**Speedometer СП-102:**
1. Scale
2. Arrow Pointer
3. Odometer
4. Connecting Sleeve of Flexible Shaft
5. Stud Mount
6. Housing
7. Glass Scale
8. Rim Body
9. and 10. О-rings

Speedometer For K-750, MB-750
Product ID: 583
List Price: 100€
(moto-boxer.com)
SP-102 Speedometer for K-650, K-750, Ural, Dnepr MT
(СП-102 К-650 , К-750, УРАЛ , ДНЕПР, МТ)
**Speedometer** (спидометр) **SP-102** (СП-102)

**New Speedometer for URAL DNEPR**
Part ID: 587
List Price: €58
(moto-boxer.com)

**List Price: €58**
(www.ural-hamburg.de)

**Speedometer for Dnepr and Ural**
Part ID: 587
List Price: €59
(moto-boxer.com)

**List Price: €59**
(moto-boxer.com)

**650174/SP102-3802010**
for MB-750/MB-650
Part #: 000.671
List Price: €45
(www.oldtimergarage.eu)

**List Price: €45**
(www.oldtimergarage.eu)

**NEW speedometer for DNEPR,URAL**
Part ID: 457
List Price: €22
(russianspares.com)

**List Price: €22**
(russianspares.com)

**Speedometer for Dnepr, Ural**
(80mm hole)
List Price: €54.50
Part #: S901
(www.ural-zentrale.de)

**List Price: €54.50**
(www.ural-zentrale.de)

**New Speedometer for URAL DNEPR**
Part #: 000.671
List Price: €45
(www.oldtimergarage.eu)

**List Price: €45**
(www.oldtimergarage.eu)
Ural (Урал) М-72 (1941)
Speedometer and Flexible Drive Cable

7218414 O-Ring

72174 Speedometer (СП-8Б)

72175 Flexible Speedo Cable
M-72 Headlight Assembly for an Old Soldier

Speedometer СП-8
Dnepr (Днепр) M-72 (1955) Speedometer and Flexible Drive Cable

72174 Speedometer (СП-8Б)

72175-A Flexible Speedo Cable

7218414 O-Ring
Dnepr (Днепр) MB-750 (Military Version of MT-12)

- 7218414 O-Ring
- 650174 Speedometer СП-8Б
- 750179 Flexible Cable
Dnepr (Днепр) MT-9 / MT-10 Speedometers

MT-9

MT-10

Speedometer СП-102

7218414 O-Ring

7218414 O-Ring
Speedometer СП-102
7218414 O-Ring
Dnepr MT-10.36

7218414 O-Ring

ГВ-127 Flexible Cable

Speedometer СП-02
Dnepr (Днепр) MT-12 (1961)

**650174 Speedometer СП-8Б**

**7218414 O-Ring**

**750179 Flexible Cable**
Dnepr (Днепр) MT-11 and MT-16

Speedometer СП-102
7218414 O-Ring
Dash-Board for Dnepr (Днепр) МТ-11 / МТ-16

Ignition Lock (141.3704)

Neutral (green) ПД20 3803000-Д1 (A12-1)

“Charge” Alarm (red) ПД20 3803000-Е1 (A12-1)

Neutral (blue) ПД20 3803000-М1 (A12-1)

Speedometer (СП-102)

Turn (green) ПД20 3803000-Д1 (A12-1)

Oil-Pressure Alarm (red) ПД20 3803000-Е1 (A12-1)

Helpful “Cheat-Sheet” Added to Indicators (www.cossackmotorcycles.com)
Ural (Урал) M-62, M-63 and M-66 Parts

- 6217004 Speedometer СП-102
- 6218414 O-Ring
- Flexible Cable
Ural (Урал) M-63 Speedometer (oppozit.ru)
Ural (Урал) М-67

Alternator “Charge” Alarm

Speedometer СП-102

Speedometer Separate from Headlight Cavity

Turn Signal
Ural (Урал) М-67.36 Speedometer

Speedometer СП-102
IMZ-8.101-17005-01 Flexible Speedo Cable
IMZ-8.102-17004 Speedometer
Modern Speedometers with km Scale

Speedometer for Ural/Dnepr
List Price: $27
(www.ebay.com)

New Speedometer for Ural Dnepr
List Price: $24
(www.ebay.com)

Speedometer for Ural IMZ8
List Price: €59
Product ID: 1730
(moto-boxer.com)

Speedometer Casing (Sleeve)
IMZ-8.1031-17161

Trip Set Cable

Motorcycle: “8.103” Urals
Part #: IMZ-8.102-17004
List Price: €55.45
(www.oldtimergarage.eu)
Modern Speedometers with mph & kph Scales

Ural/Dnepr Speedometer
IMZ-8.102-17004
List Price: $50
(www.caferacer.net)

Trip Set Cable
Ural Retro

Ignition

Alternator Alarm

Hi-Beam

Turn Signal

Trip Odometer Reset

Neutral

Trip Odometer

Speedometer IMZ-8.1037-17004
Ural 2006 Gear-Up

- Trip Odometer
- Turn Signal Indicator
- Odometer "Zeroing" Knob
- Neutral Indicator
- Speedometer IMZ-8.1037-17004
- Alternator Alarm Indicator
- Hi-Beam Indicator

Ural 2006 Gear-Up

- Trip Odometer
- Turn Signal Indicator
- Odometer "Zeroing" Knob
- Neutral Indicator
- Speedometer IMZ-8.1037-17004
- Alternator Alarm Indicator
- Hi-Beam Indicator

Ural 2006 Gear-Up

- Trip Odometer
- Turn Signal Indicator
- Odometer "Zeroing" Knob
- Neutral Indicator
- Speedometer IMZ-8.1037-17004
- Alternator Alarm Indicator
- Hi-Beam Indicator
# Gear Up and Patrol Speedometer / Odometer (2010 – 2013)

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<tr>
<th>#</th>
<th>Description</th>
<th>Part number</th>
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<tbody>
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<td>1</td>
<td>Dashboard</td>
<td>IMZ-8.1037-17151-10</td>
</tr>
<tr>
<td>2</td>
<td>Flexible shaft</td>
<td>IMZ-8.103-17005</td>
</tr>
<tr>
<td>3</td>
<td>Speedometer</td>
<td>IMZ-8.1037-17004</td>
</tr>
<tr>
<td>4</td>
<td>Speedometer cover</td>
<td>IMZ-8.103-17161</td>
</tr>
<tr>
<td>5</td>
<td>Brace</td>
<td>IMZ-8.103-17154</td>
</tr>
<tr>
<td>6</td>
<td>Nut M5-6H</td>
<td>DIN 985 M5</td>
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<tr>
<td>7</td>
<td>Dashboard</td>
<td>IMZ-8.1037-17041-20</td>
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# Gear Up, Patrol Speedometer / Odometer (2014 – 2016)

<table>
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<th>#</th>
<th>Description</th>
<th>Part number</th>
</tr>
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<td>1</td>
<td>Dashboard</td>
<td>IMZ-8.1040-17151</td>
</tr>
<tr>
<td>2</td>
<td>Flexible shaft</td>
<td>IMZ-8.103-17005-01</td>
</tr>
<tr>
<td>3</td>
<td>Speedometer</td>
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### Parts for Speedometer

- **Speedometer Sealing O-Ring**
  - Fits: M-72, Dnepr K-750, K-750M, MT-9, MT10-36, MT-11/16
  - List Price: 1.80€
  - [www.henriksson.ee](http://www.henriksson.ee)

- **O-ring for Speedometer**
  - Part #: 7218414
  - [www.henriksson.ee](http://www.henriksson.ee)

- **Gearwheel for Speedometer**
  - Fits: Dnepr MT-11/16, K-750, M-72
  - List Price: $11.00
  - [www.ebay.com](http://www.ebay.com)
## Relative Prices of Speedometers over the Internet (2011 $s)

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