

Ural (Урал) - Dnepr (Днепр) Mufflers for Russian Motorcycles with Sidecars Part I: Muffler Introduction



***(Also See Part 2: Muffler Components, Part 3: Installation of Modtop Muffler,
Part 4: After-Market Mufflers, Part 5: Chapter 9 of Bill Glaser's
"Unofficial" URAL 750cc Motorcycle Service Manual)***

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12 / 2012***

Review of Mufflers on Russian Sidecars

- ***Information on Muffler Systems Gathered from;***
 - ***Maintenance Manuals***
 - ***Advertisements / Data Sheets***
 - ***Parts Catalogs***
 - ***Internet Forums***
- ***Muffler Terminology***
 - ***Muffler in U.K. = Silencer***
 - ***Exhaust Manifold = Header Pipe = Down-Pipe***
 - ***Cross-Over Pipe = Balance Pipe = Interference Pipe***
- ***Muffler Styles***
 - ***Fish-Tail***
 - ***Trumpet and Cigar-Shaped***
 - ***Torpedo***
 - ***Flat-End***
 - ***BMW R71 / BMW R75***
- ***Muffler Systems***
 - ***2-into-2 System (2 Exhaust Pipes into 2 Mufflers)***
 - ***2-into-1 System (2 Exhaust Pipes into 1 Muffler)***
- ***Interchangeability***
 - ***Cigar-Styled or Trumpet-Style Replace Fish-Tail Mufflers***
 - ***Ural or Dnepr Readily Exchanged Styles***

We will explore the evolving history of mufflers on Russian sidecar motorcycles, examining all of the components and considering after-markets entries.

Ural (Урал) / Dnepr (Днепр) Mufflers and Rear Suspension

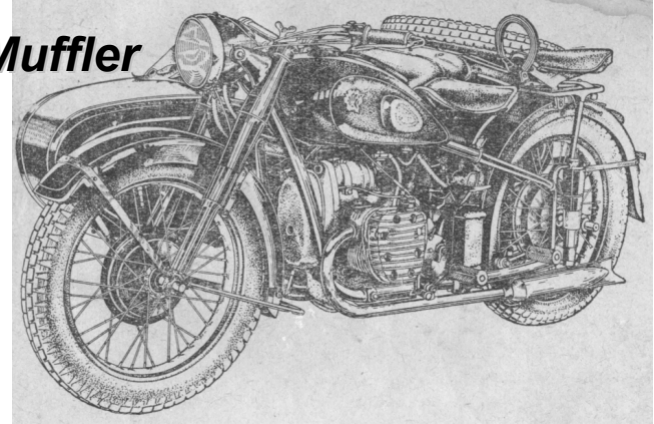
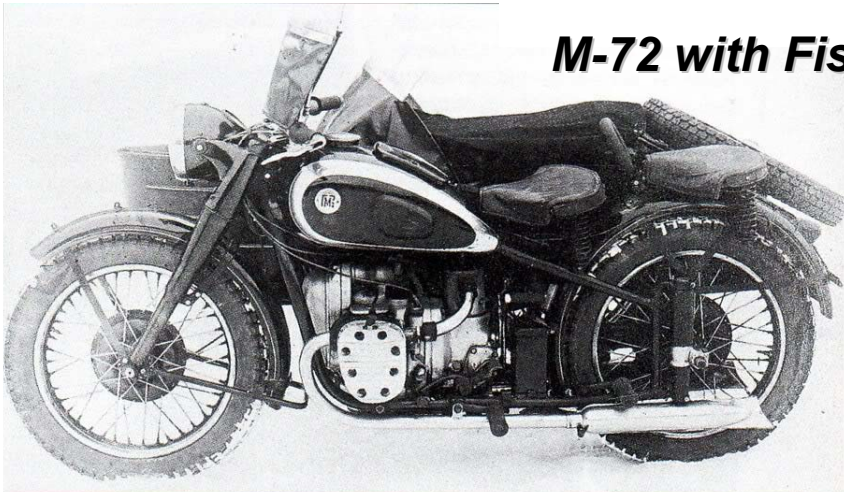
<i>Ural (Урал) Model</i>	<i>Production</i>	<i>Engine</i>	<i>Voltage</i>	<i>Muffler</i>	<i>Rear Suspension</i>
<i>M-72</i>	<i>1941-1950</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>7212216 (RH), 721228 (LH) Fish-Tail</i>	<i>Plunger</i>
<i>M-72K</i>	<i>1952-1958</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>7212216 (RH), 721228 (LH) Fish-Tail</i>	<i>Plunger</i>
<i>M-72M</i>	<i>1956-1961</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>7212216 (RH), 721228 (LH) Fish-Tail</i>	<i>Plunger</i>
<i>M-61</i>	<i>1957-1961</i>	<i>650cc OHV</i>	<i>6-Volt</i>	<i>6612016 (RH), 6612019 (LH) Trumpet</i>	<i>Plunger</i>
<i>M-62 (Ural-1)</i>	<i>1961-1965</i>	<i>650cc OHV</i>	<i>6-Volt</i>	<i>6612016 (RH), 6612019 (LH) Trumpet</i>	<i>Plunger</i>
<i>M-63 (Ural-2)</i>	<i>1965-1969</i>	<i>650cc OHV</i>	<i>6-Volt</i>	<i>6612016 (RH), 6612019 (LH) Trumpet</i>	<i>Swing Arm</i>
<i>M-66 (Ural-3)</i>	<i>1968-1975</i>	<i>650cc OHV</i>	<i>6-Volt</i>	<i>6612016 (RH), 6612019 (LH) Trumpet</i>	<i>Swing Arm</i>
<i>M-67 (8.101)</i>	<i>1974-1977</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>6612016 (RH), 6612019 (LH) Trumpet</i>	<i>Swing Arm</i>
<i>M-67.36</i>	<i>1976-1984</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>6612016 (RH), 6612019 (LH) Trumpet</i>	<i>Swing Arm</i>
<i>8.103 & 8.107 Series "650"</i>	<i>1994-2002</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>IMZ-8.101-12016 (RH), IMZ-8.101-12019 (LH)</i>	<i>Swing Arm</i>
<i>"750"Series</i>	<i>2003-Present</i>	<i>750cc OHV</i>	<i>12-Volt</i>	<i>IMZ-8.123-12003</i>	<i>Swing Arm</i>

<i>Dnepr (Днепр) Model</i>	<i>Production</i>	<i>Engine</i>	<i>Voltage</i>	<i>Muffler</i>	<i>Rear Suspension</i>
<i>M-72</i>	<i>1951-1956</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>7212216 (RH), 721228 (LH) Fish-Tail</i>	<i>Plunger</i>
<i>M-72N (H)</i>	<i>1956-1960</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>7212216 (RH), 721228 (LH) Fish-Tail</i>	<i>Plunger</i>
<i>K-750</i>	<i>1959-1963</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>K-750M</i>	<i>1963-1977</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MT-12 (Dnepr-12)</i>	<i>1974-1982</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MB-750</i>	<i>1964-1973</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MB-750M</i>	<i>1973-1977</i>	<i>750cc SV</i>	<i>6-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>K-650/MT-8</i>	<i>1967-1971</i>	<i>650cc OHV</i>	<i>6-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>K-650/MT-9</i>	<i>1972-1976</i>	<i>650cc OHV</i>	<i>6-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MB-650</i>	<i>1976-1984</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MB-650M</i>	<i>1985-1991</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MT-10</i>	<i>1976-1978</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MT-10.36</i>	<i>1976-1984</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MT-11 (Dnepr-11)</i>	<i>1985-1999</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>
<i>MT-16 (Dnepr-16)</i>	<i>1986-1999</i>	<i>650cc OHV</i>	<i>12-Volt</i>	<i>72122 Fish-Tail, 75012-2-A Cigar</i>	<i>Swing Arm</i>

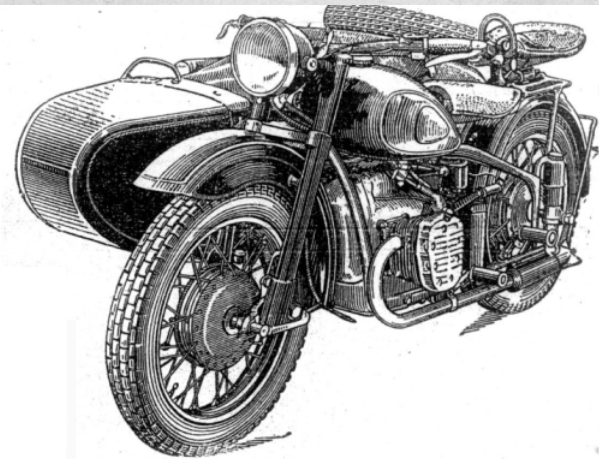
Russian sidecar motorcycles inherited the fish-tail muffler from BMW's R71. Subsequent models used cigar and trumpet-styled muflers.

M-72 / M-72K / M-72M / M-72N Motorcycles

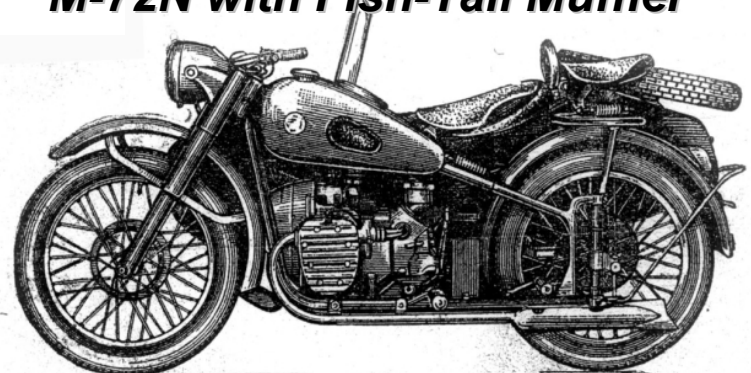
M-72 with Fish-Tail Muffler



M-72K with Fish-Tail Muffler

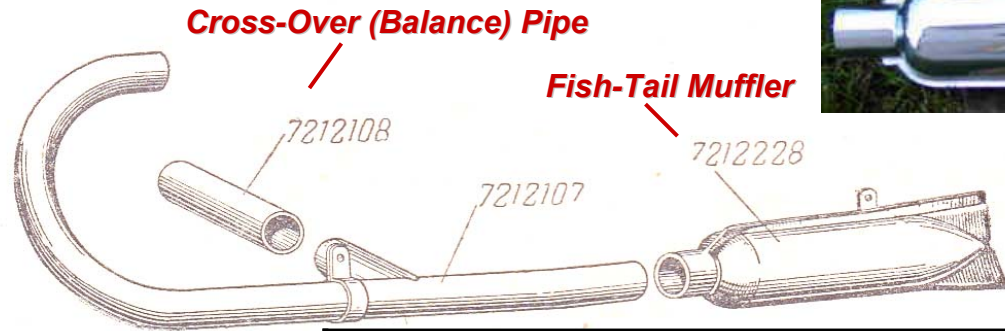
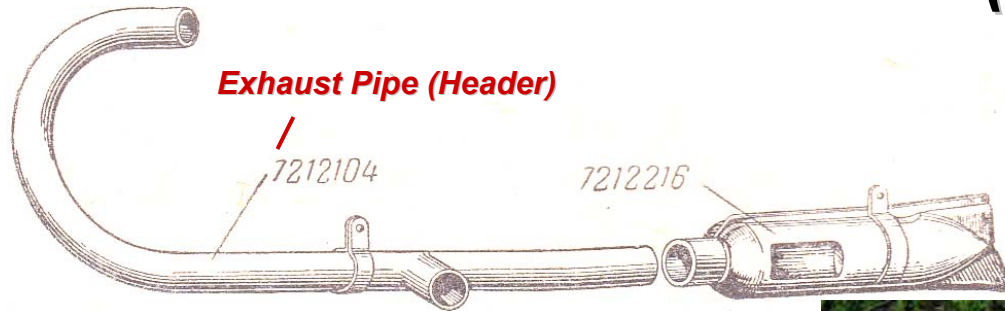


M-72N with Fish-Tail Muffler



M-72M with Fish-Tail Muffler

M-72 Muffler with Cross-Over (Balance) Pipe



Part #	Description	Qty
7212104	Exhaust Pipe, RH	1
7212107	Exhaust Pipe, LH	1
7212108	Cross-Over (Balance) Pipe	1
7212216	Muffler, RH	1
7212228	Muffler, LH	1



The fish-tail muffler is the classic Ural and Dnepr muffler.

2-into-1 Muffler System for 650cc

- Ural Offered 2-into-1 Muffler System on 650cc Engines
- Current Urals Use Separate Exhaust Manifold (“Header”) Pipes for Each Cylinder, with a Separate Muffler (“Silencer”) on Each Side
- Earlier 650cc Patrol Used a 2-into-1 System, with Single Muffler on the Right Side
 - Both Header Pipes and Muffler Are Different for the 2-into-1 System
 - When Ural Offered 2-into-1 System, They Used One Standard Muffler and Top-End Performance Suffered
- 2-into-2 Muffler System Uses a Cross-Over (“Connecting or Balance”) Pipe between Two Mufflers



Similar to BMW's R75 muffler system, the 2-into-1 system combines the output from 2 exhaust pipes into 1 muffler.

2-into-1 Muffler System for 650cc (cont.)



2-into-1 Muffler System
(motoserp.ru)



2-into-1 Muffler System
(opposit.ru)



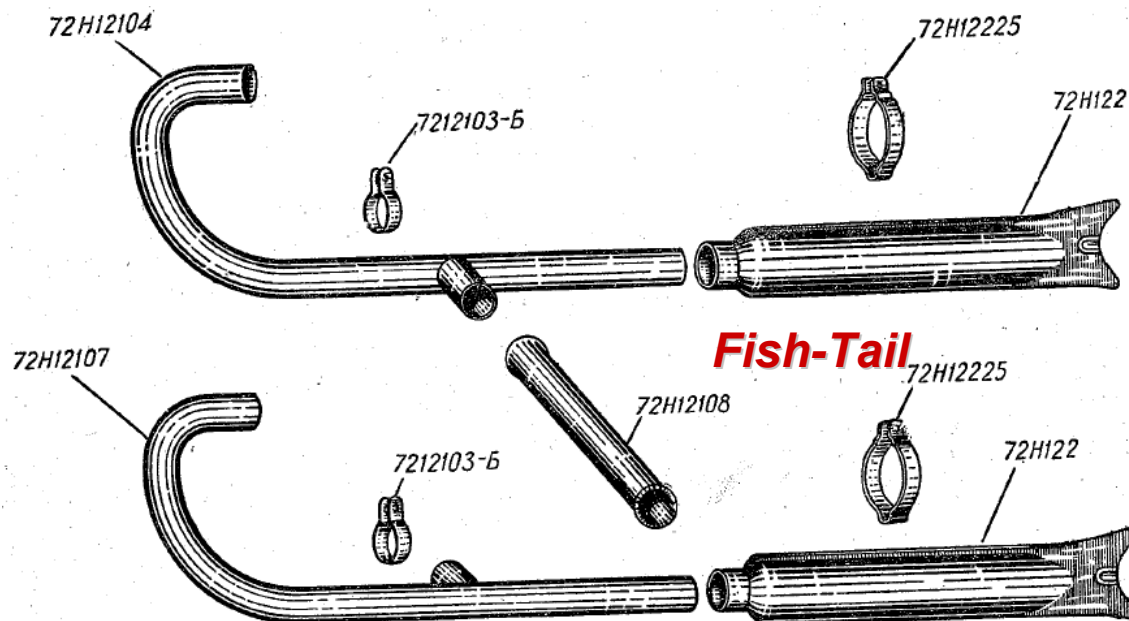
2-into-1 Ural Exhaust System
(www.moto-p.ru)



Ural Exhaust System
(www.ebay.com)



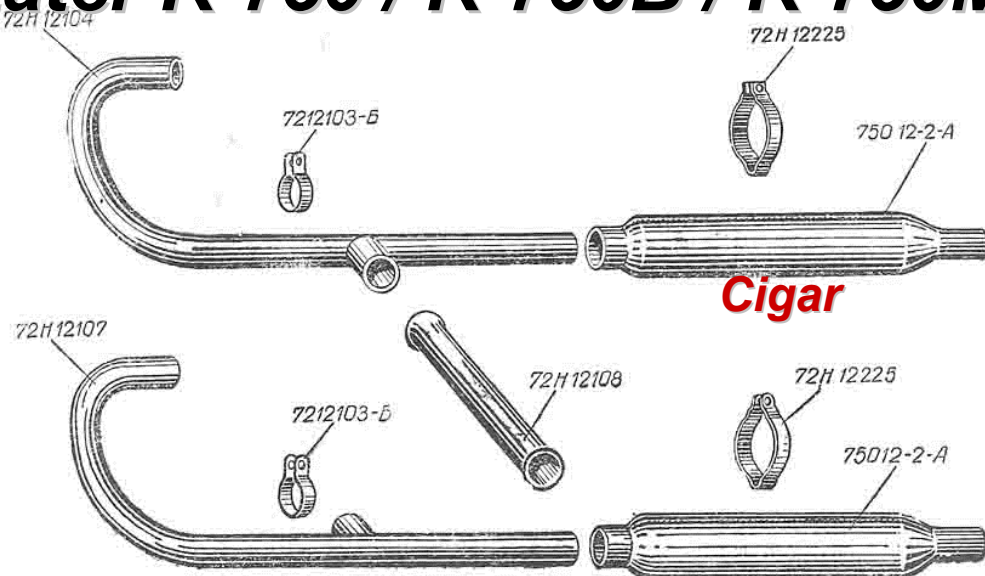
Dnepr K-750 / K-750B / K-750M Exhaust Parts



Early K-750 Parts (Fish-Tails)

Part #	Description	Qty
7212103-B	Bracket, Small	2
72H12104	Exhaust Pipe, Right	1
72H12107	Exhaust Pipe, Left	1
72H12108	Cross-Over Pipe	1
72H12225	Bracket, Large	2
72H122	Muffler	2

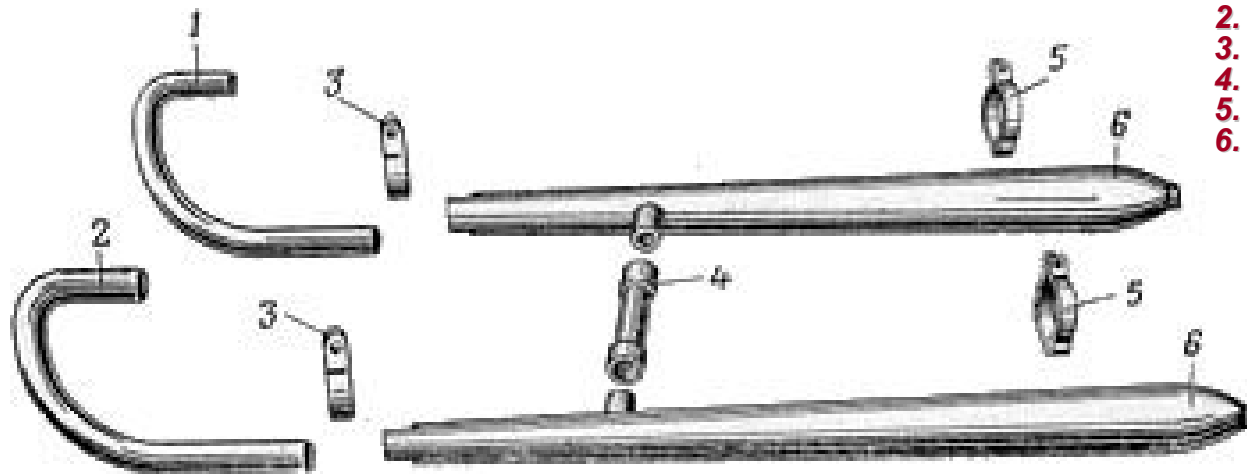
Later K-750 / K-750B / K-750M / MB-750 Exhaust Exhaust System 75012-A



Description	Part #	Qty
Exhaust Manifold, Right	75012101	1
Exhaust Manifold, Left	75012106	1
Muffler	750122-A	2
Muffler Bracket, Large	72H12225	2
Muffler Bracket, Small	7212103-B	2
Cross-Over (Balance) Pipe	72H12108	1
Bolt M8X1X25	201478	2
Nut M8X1	250511	2
Washer 8	252155	2

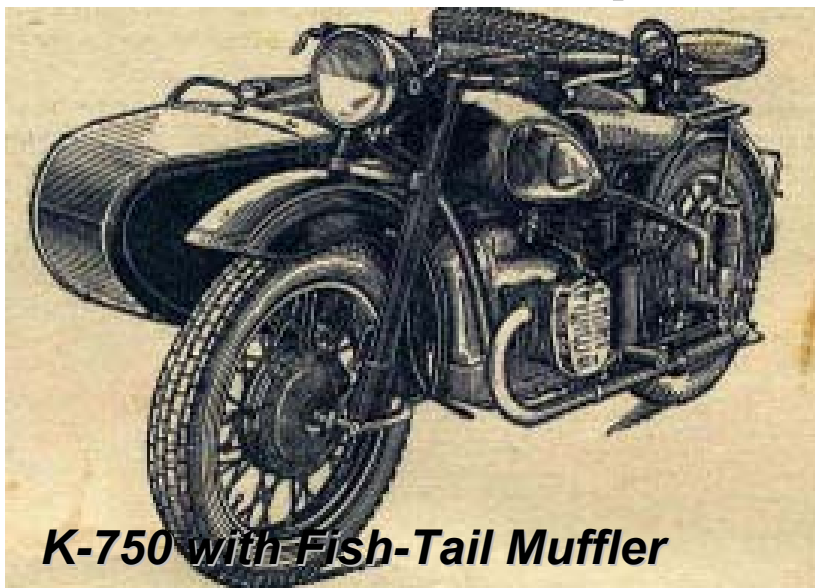
K-750 Exhaust System (Trumpet)

- ***K-750 Exhaust System Includes an Outlet Pipe (1) and Two Mufflers (6)***
- ***Curved Upper End of Discharge Pipe Is Freely Inserted into Outlet Pipes of Cylinders***
- ***Attached to Cylinder Head Nuts with Special Ribbed Seal with Split Rings of Wire***
- ***Bottom of Discharge Pipes Attached to Frame Using Lugs (3 and 5) Clamps***
- ***Exhaust Pipes Connected Together by Cross-Pipe (4)***
 - ***Reduces the Resistance of the Exhaust System***

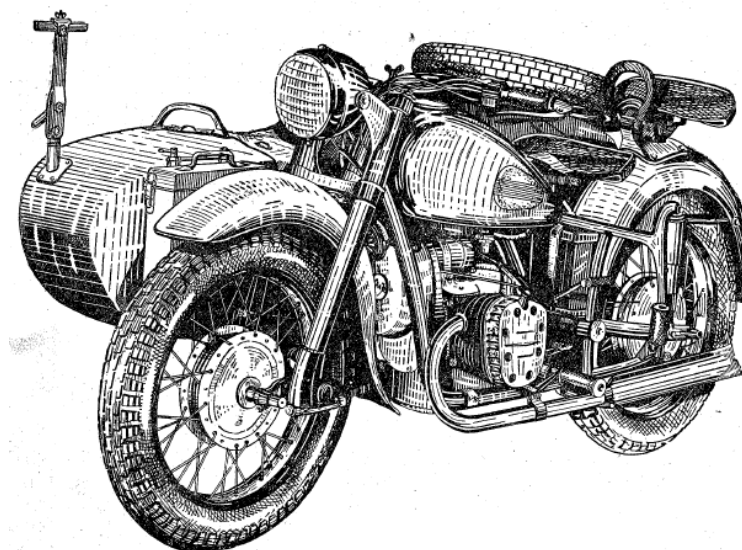


- 1. Right Cylinder Exhaust Pipe
- 2. Left Cylinder Exhaust Pipe
- 3. Eyelet of Exhaust Pipe
- 4. Connecting Pipe
- 5. Muffler Clamp
- 6. Muffler (Silencer)

Dnepr K-750 / K-750M



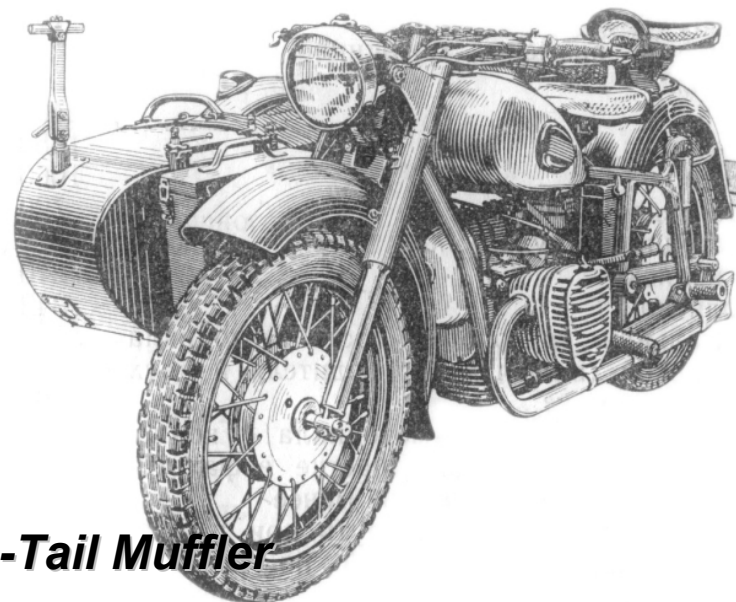
K-750 with Fish-Tail Muffler



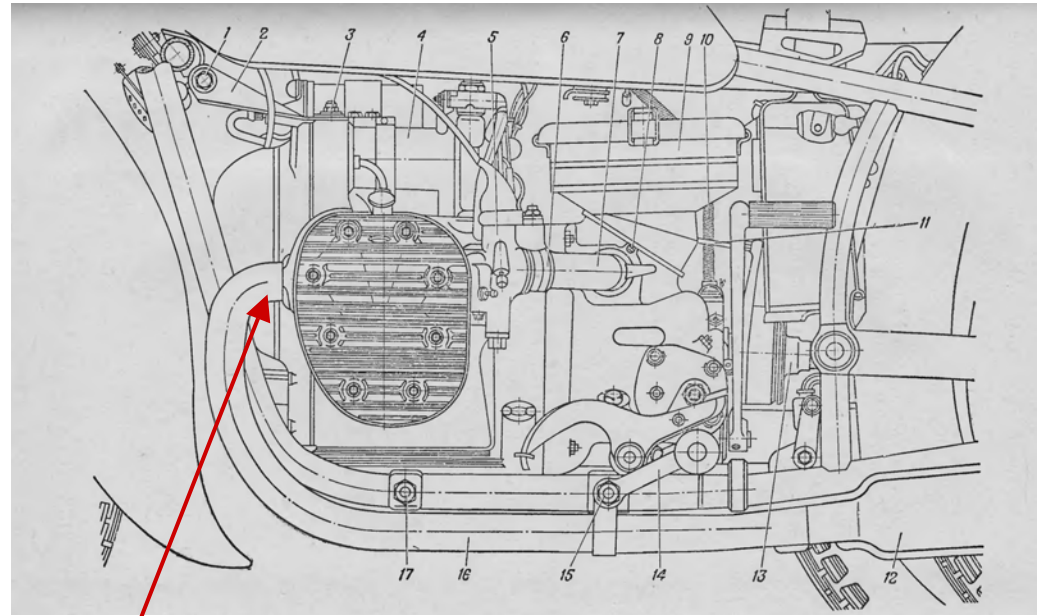
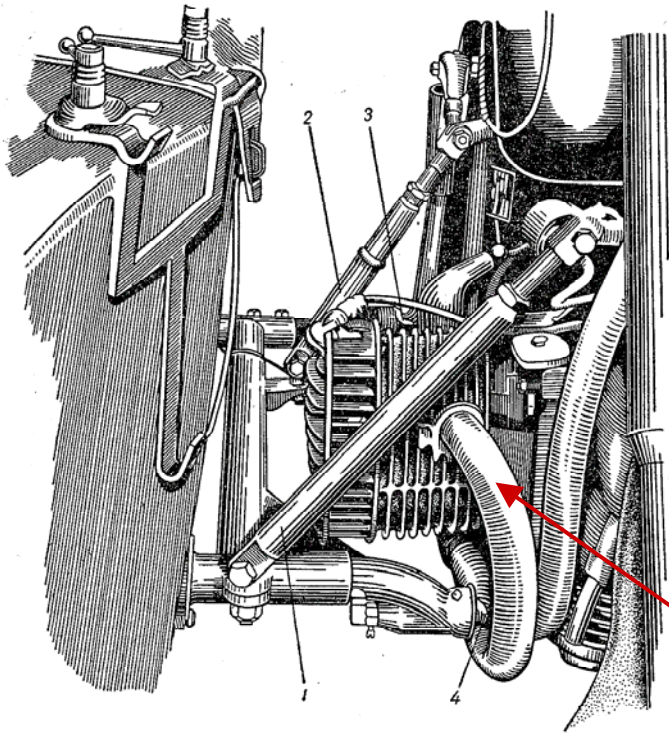
K-750B with Fish-Tail Muffler



K-750M with Fish-Tail Muffler



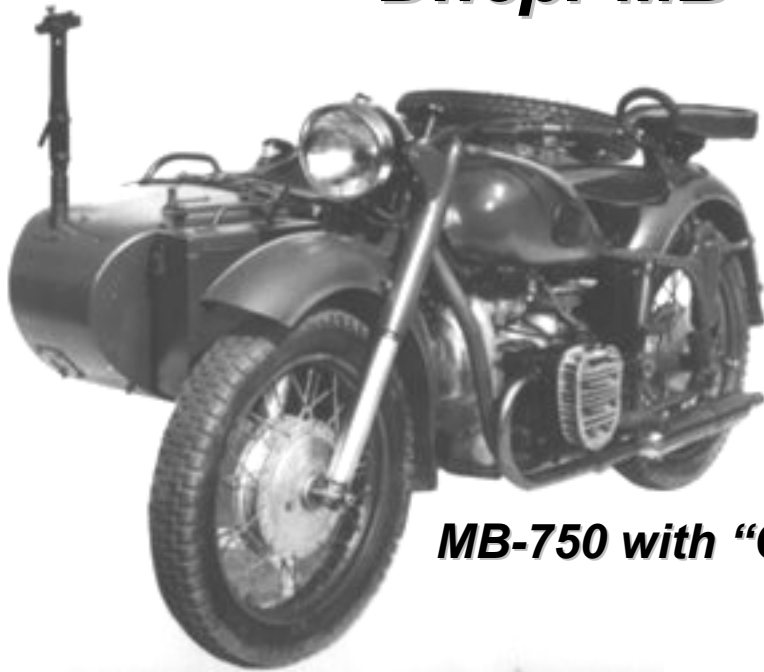
K-750 / MB-750 Exhaust Pipe-to-Cylinder Head Attachment



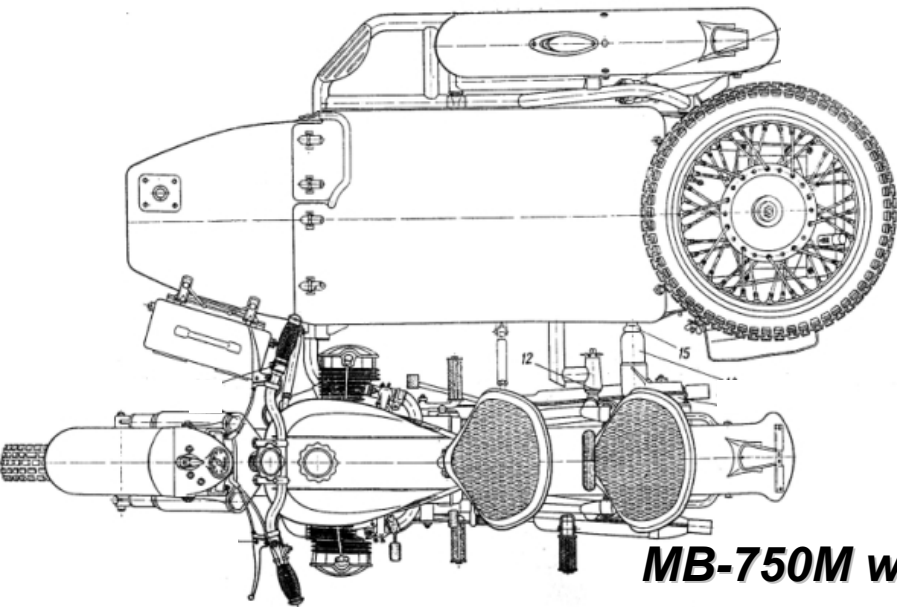
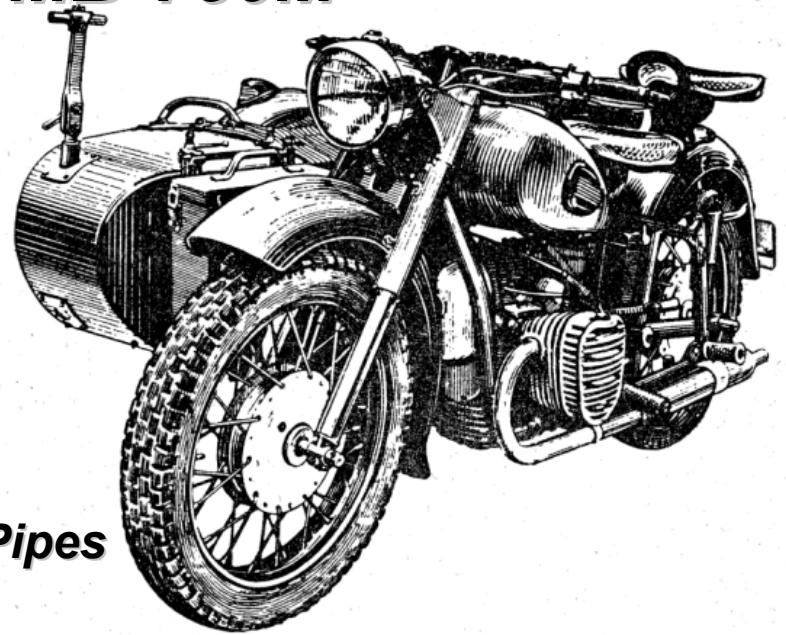
Push-In Attachment

The K-750 and its successor, the militarized MB-750, both pushed the muffler into the cylinder head port.

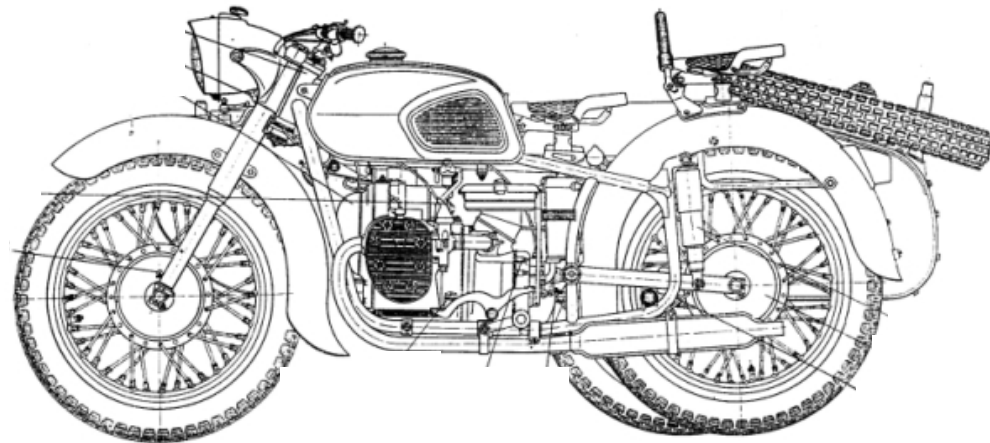
Dnepr MB-750 / MB-750M



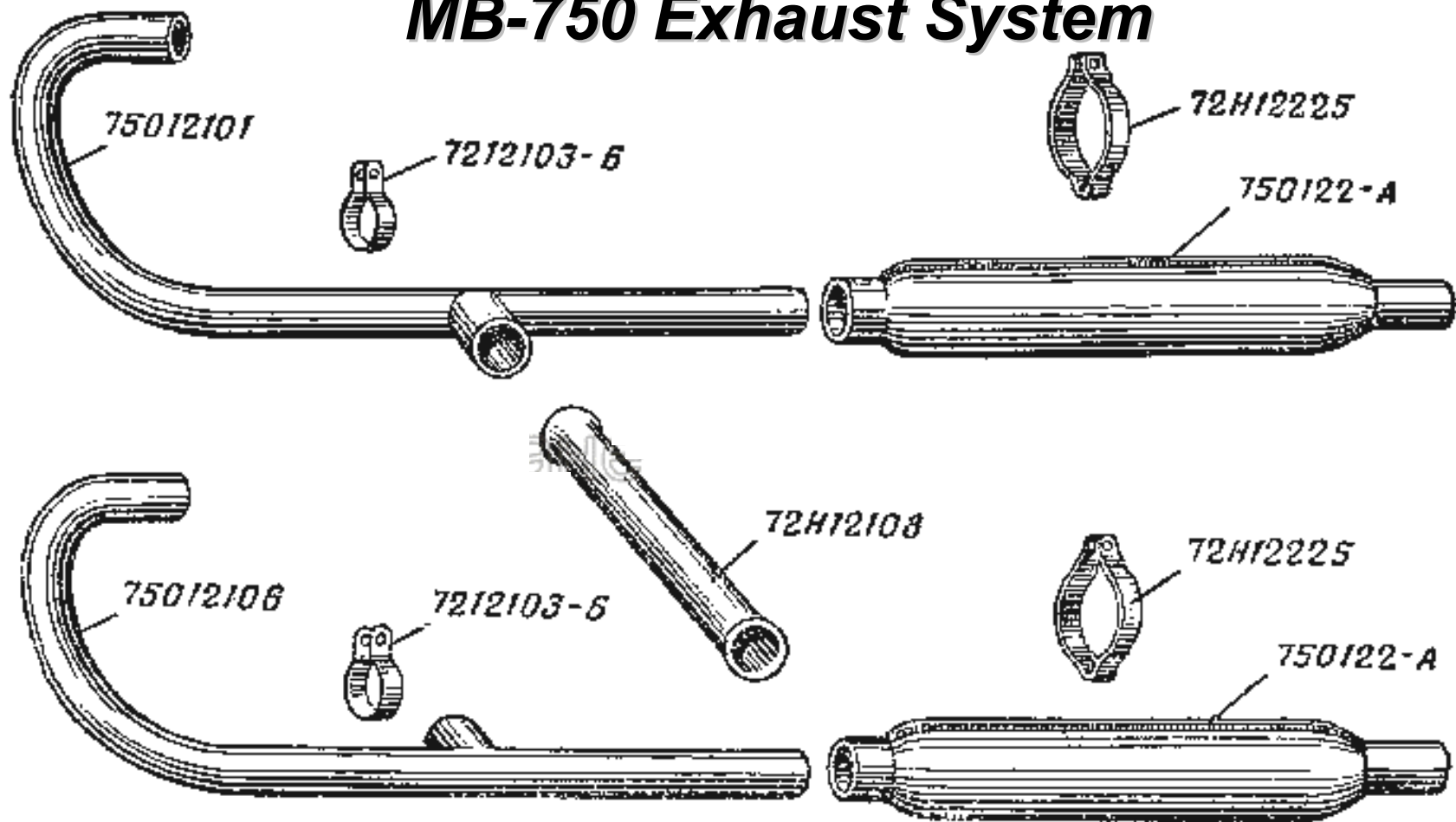
MB-750 with “Cigar” Pipes



MB-750M with “Cigar” Pipes



MB-750 Exhaust System

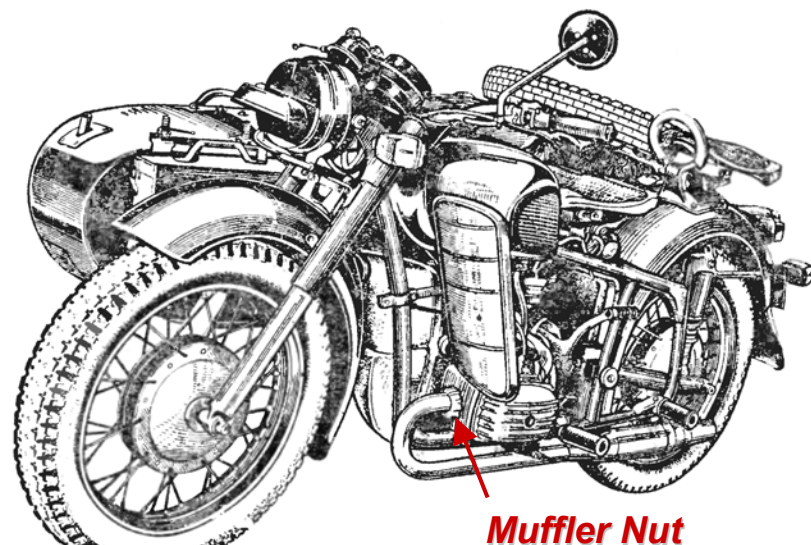


Part #	Description
201478	Bolt to the Bridge to the Panel
250511	Nut Bolts Fastening Rear Panel to Frame
252155	Spring Washer Mounting Bolts to Frame of Rear Panel
7212103-B	Eyelet Exhaust
72H12108	Pipe Connection
72H12225	Muffler Clamp
75012101	Exhaust Pipe of Right Cylinder Assembly
75012106	Exhaust Pipe of Left Cylinder Assembly
750122-A	Muffler Assembly

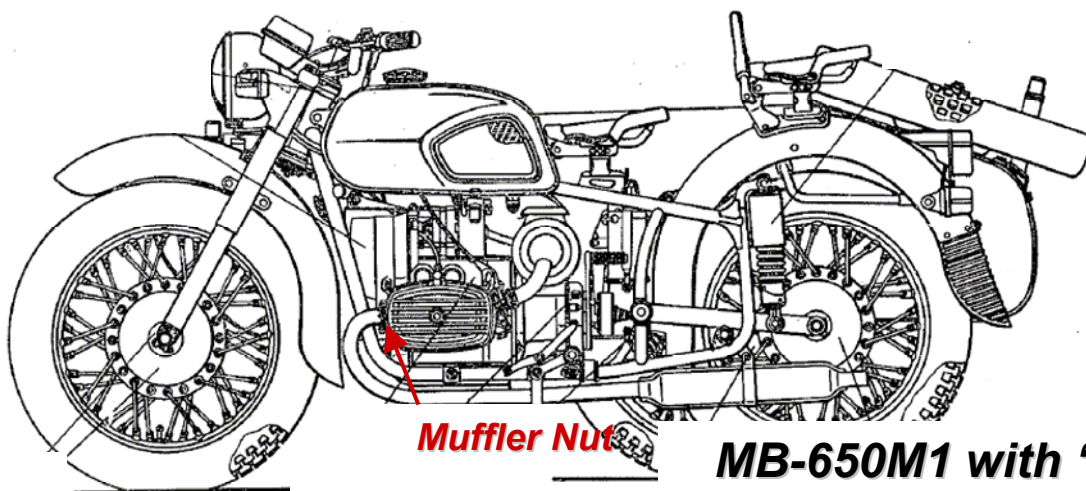
Dnepr MB-650M / MB-650M1



MB-650M with "Cigar" Pipes

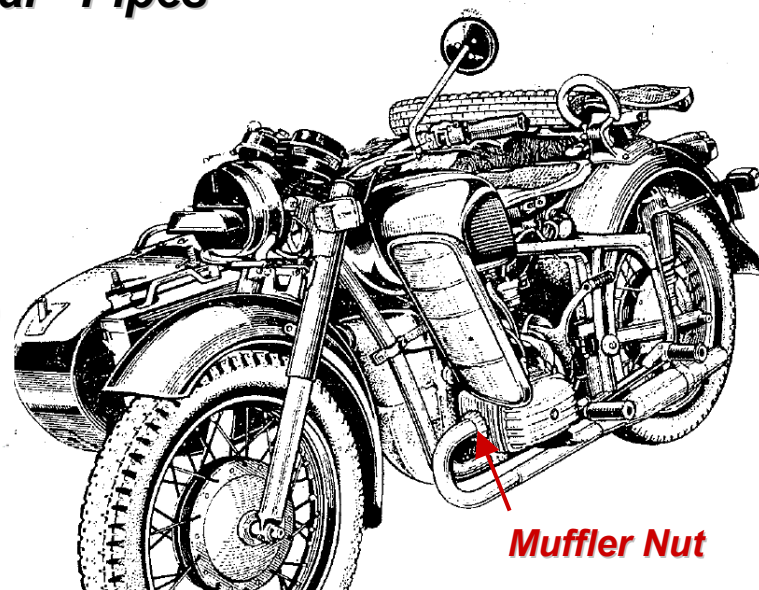


Muffler Nut



Muffler Nut

MB-650M1 with "Cigar" Pipes



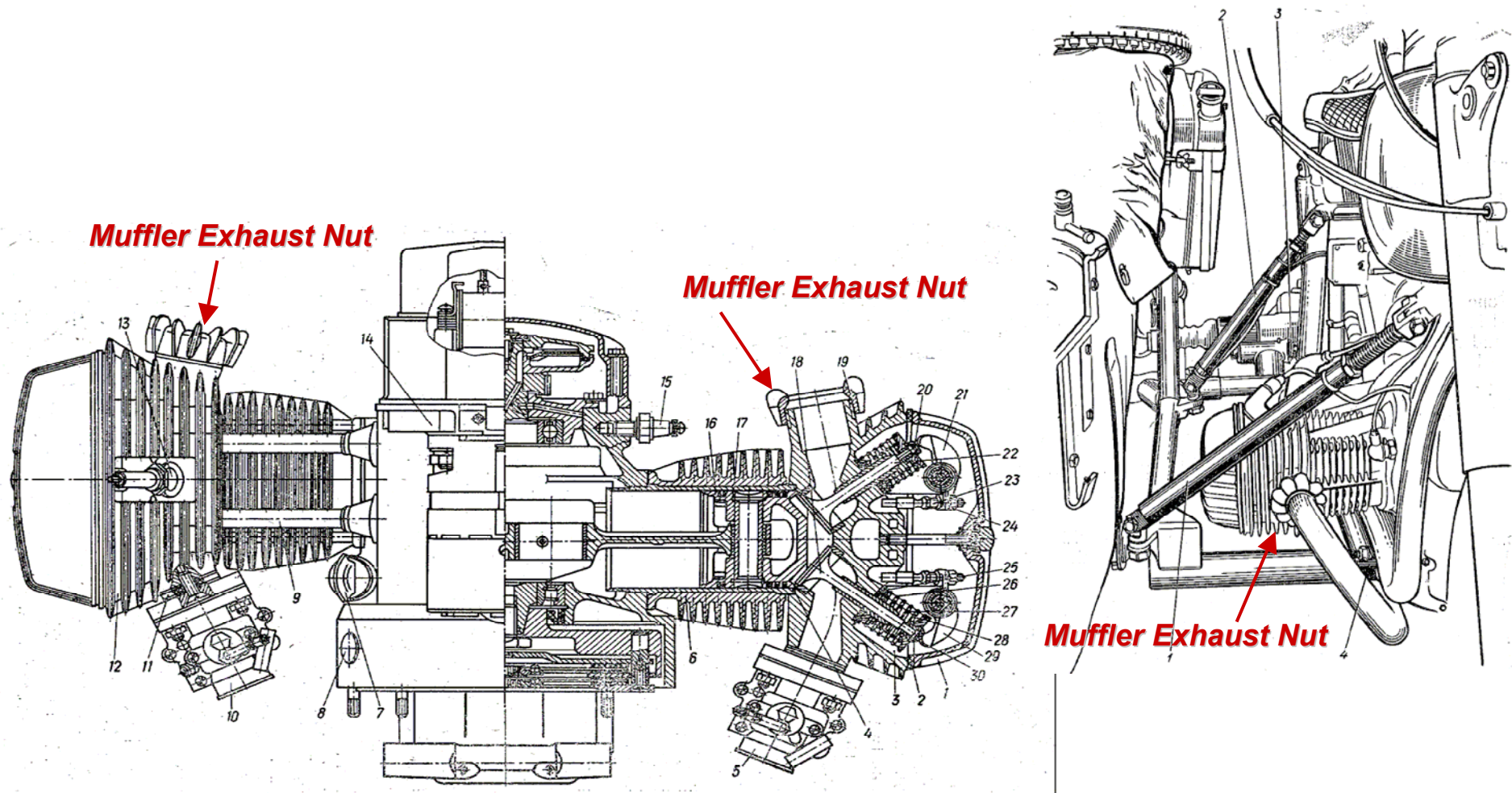
Muffler Nut

MB-650M1: Attachment of Exhaust Pipe Using a Muffler Nut

Muffler Exhaust Nut

Muffler Exhaust Nut

Muffler Exhaust Nut



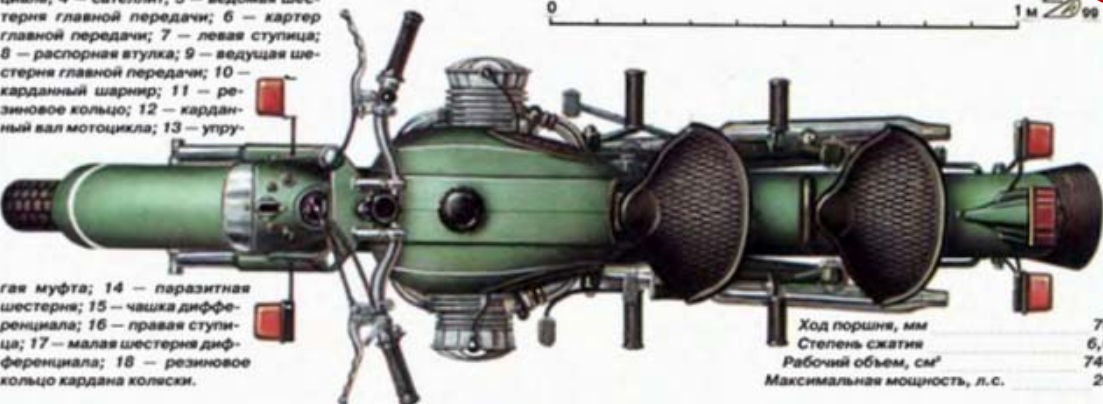
The militarized MB-650M1 used a muffler nut to secure the exhaust pipe to the cylinder head port.

Dnepr MT-12

ГЛАВНАЯ ПЕРЕДАЧА
С ДИФФЕРЕНЦИАЛОМ
Цифрами обозначены:
1 — крышка картера
дифференциала; 2 —
выходная шестерня



дифференциала; 3 — картер дифференциала; 4 — сателлит; 5 — ведомая шестерня главной передачи; 6 — картер главной передачи; 7 — левая ступица; 8 — распорная втулка; 9 — ведущая шестерня главной передачи; 10 — карданный шарнир; 11 — резиновое кольцо; 12 — карданный вал мотоцикла; 13 — упру-

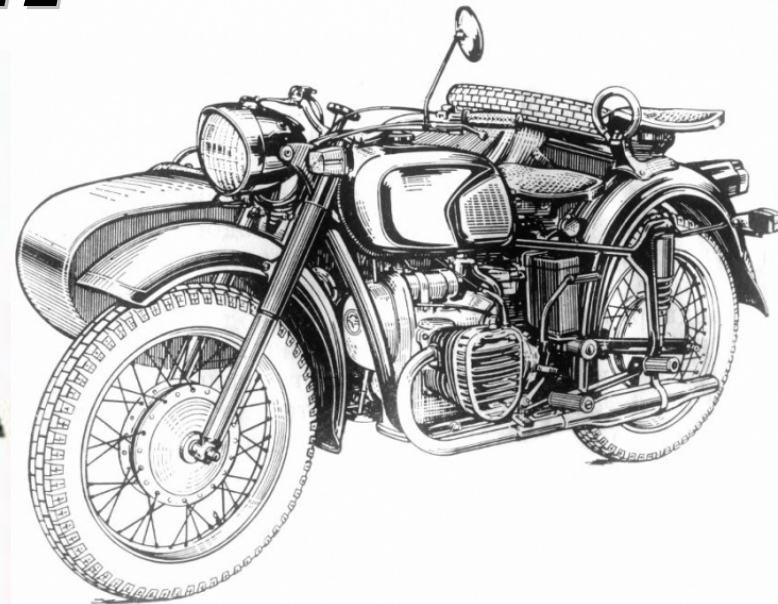


гая муфта; 14 — паразитная шестерня; 15 — чашка дифференциала; 16 — правая ступица; 17 — малая шестерня дифференциала; 18 — резиновое кольцо кардана колески.

Рис. Михаила ДМИТРИЕВА

0 1 м

Ход поршня, мм 78
Степень сжатия 6,0
Рабочий объем, см³ 746
Максимальная мощность, л.с. 26



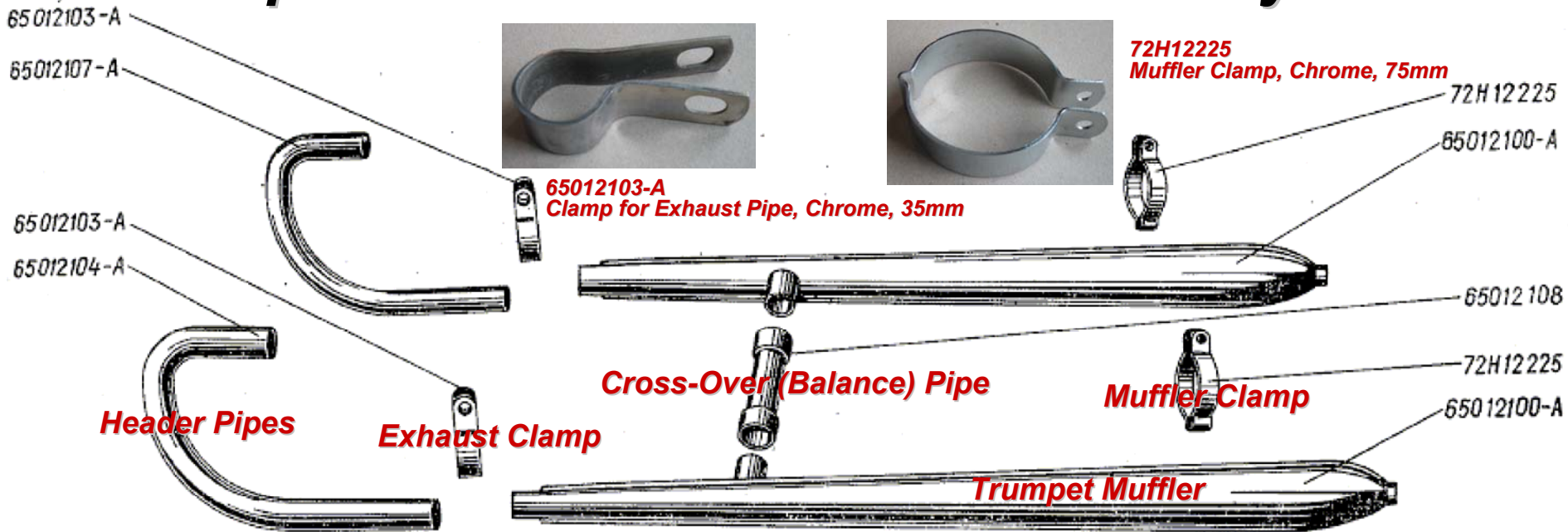
Cigar-Shaped

Dnepr K-650 / MT-8



K-650 with Trumpet Mufflers

Dnepr MT-9 / MT-10 / K-650 Exhaust System



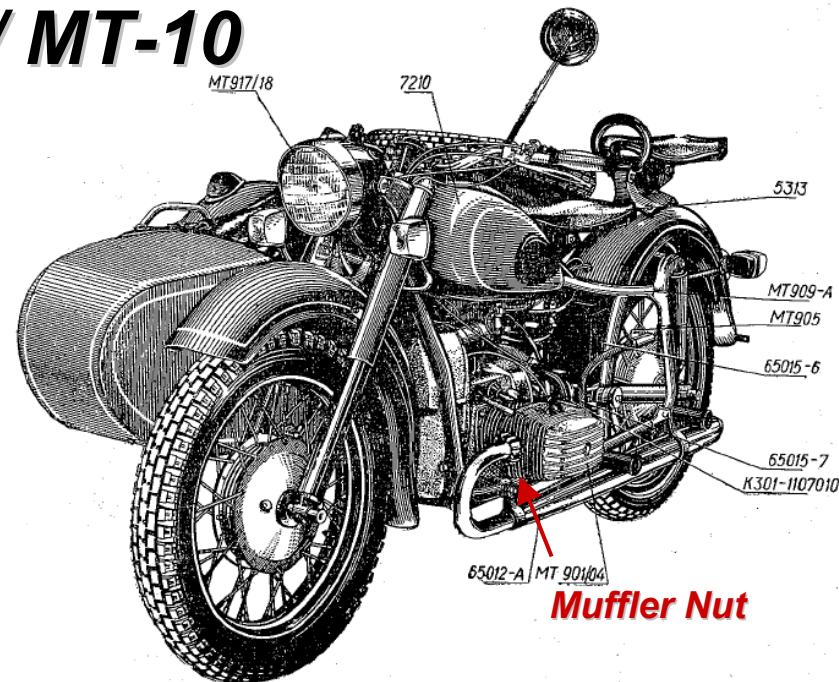
65012104-A + 65012107-A
Exhaust Pipes, Chrome, 35mm

Notice the Slight Bulging,
to Aid in Attachment
Using the Muffler Nut

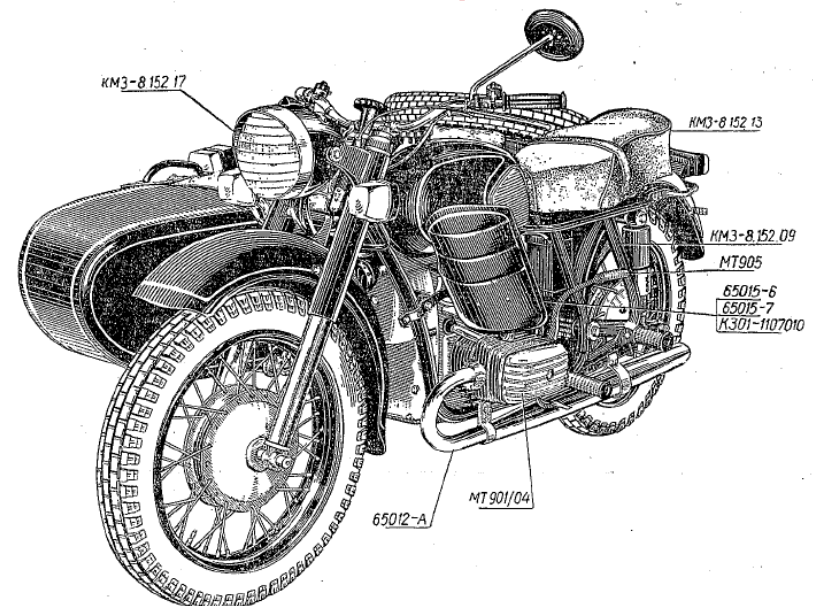
Description	Part #	Qty
Muffler	65012100-A	2
Pipe Fastening Eye (Clamp)	65012103-A	2
Right-Hand Pipe	65012104-A	1
Left-Hand Pipe	65012107-A	1
Connecting (Cross-Over) Pipe	65012108	1
Muffler Yoke (Clamp)	72H12225	2

Dnepr used the trumpet muffler on their 650cc motorcycle.

Dnepr MT-9 / MT-10



65012-1 Exhaust Pipes with Mufflers



65012-1 Exhaust Pipes with Mufflers

Dnepr MT-9 / MT-10 Header-to-Cylinder Fastening

Exhaust Nut
MT801508-A

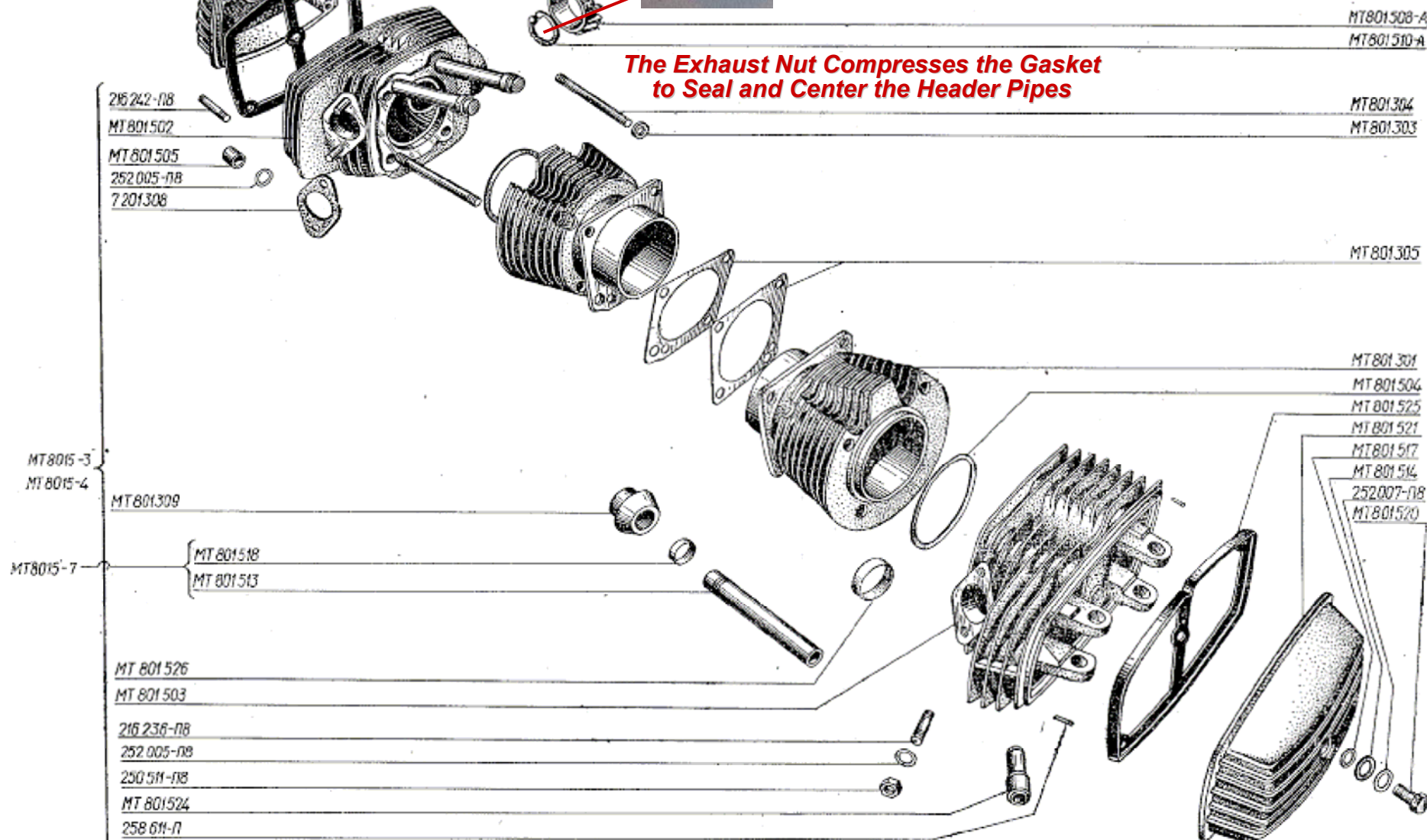


Exhaust Nut Gasket
MT801510-A

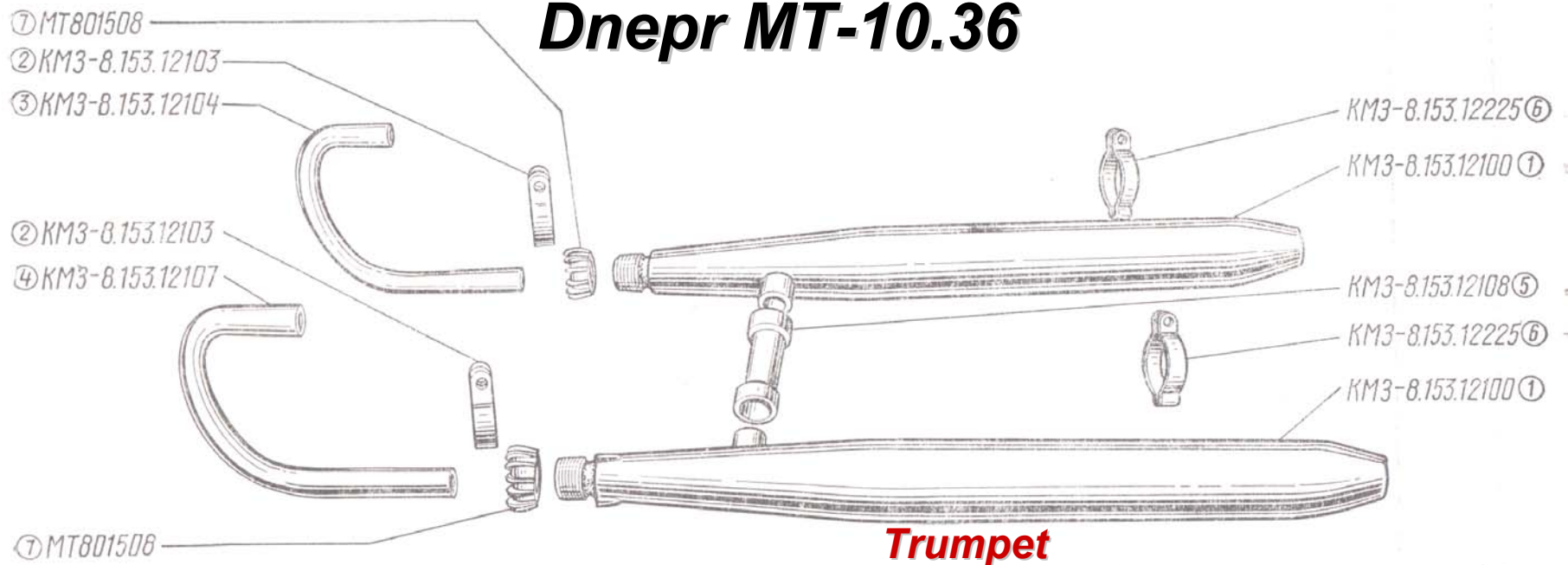


Part #	Description
MT801508-A	Nut
MT801510-A	Packing Ring

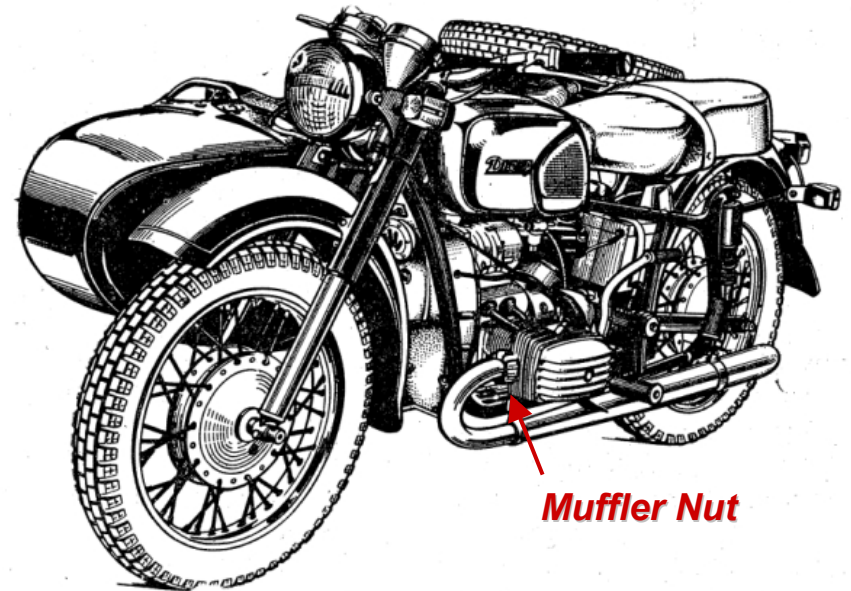
The Exhaust Nut Compresses the Gasket to Seal and Center the Header Pipes



Dnepr MT-10.36



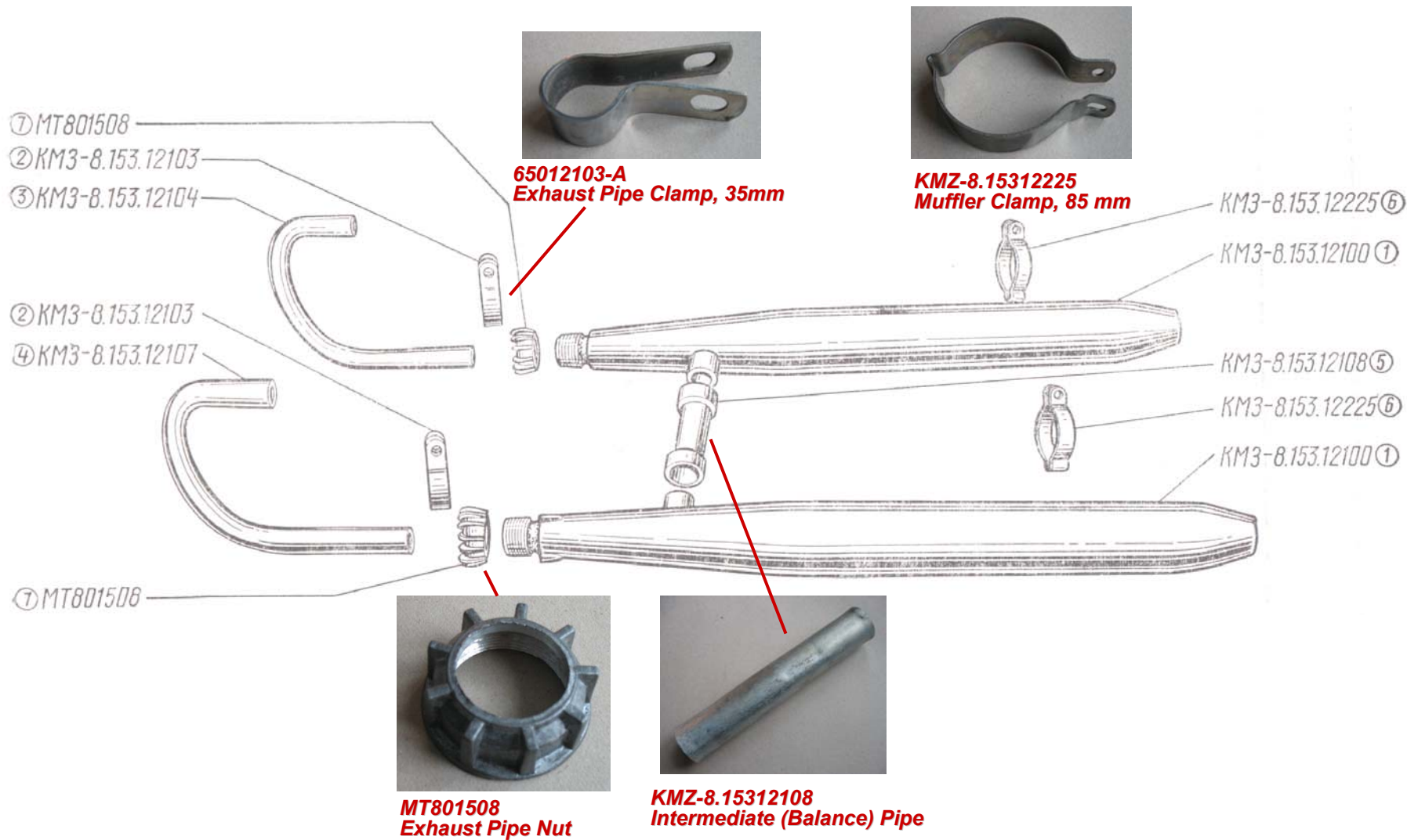
Trumpet



Muffler Nut

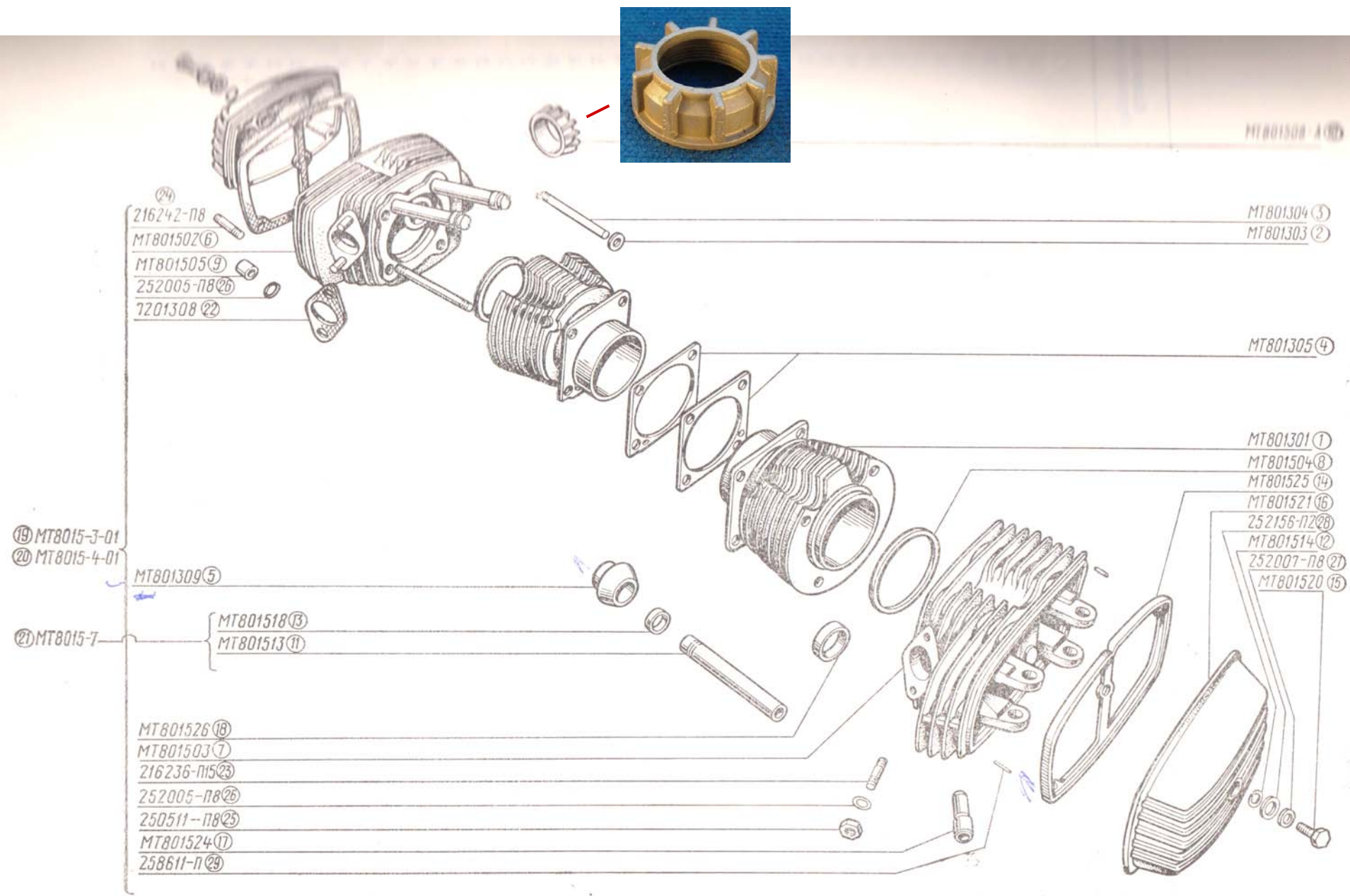
KM3-8.152.01/04 Exhaust System

Dnepr MT-10.36 Exhaust System



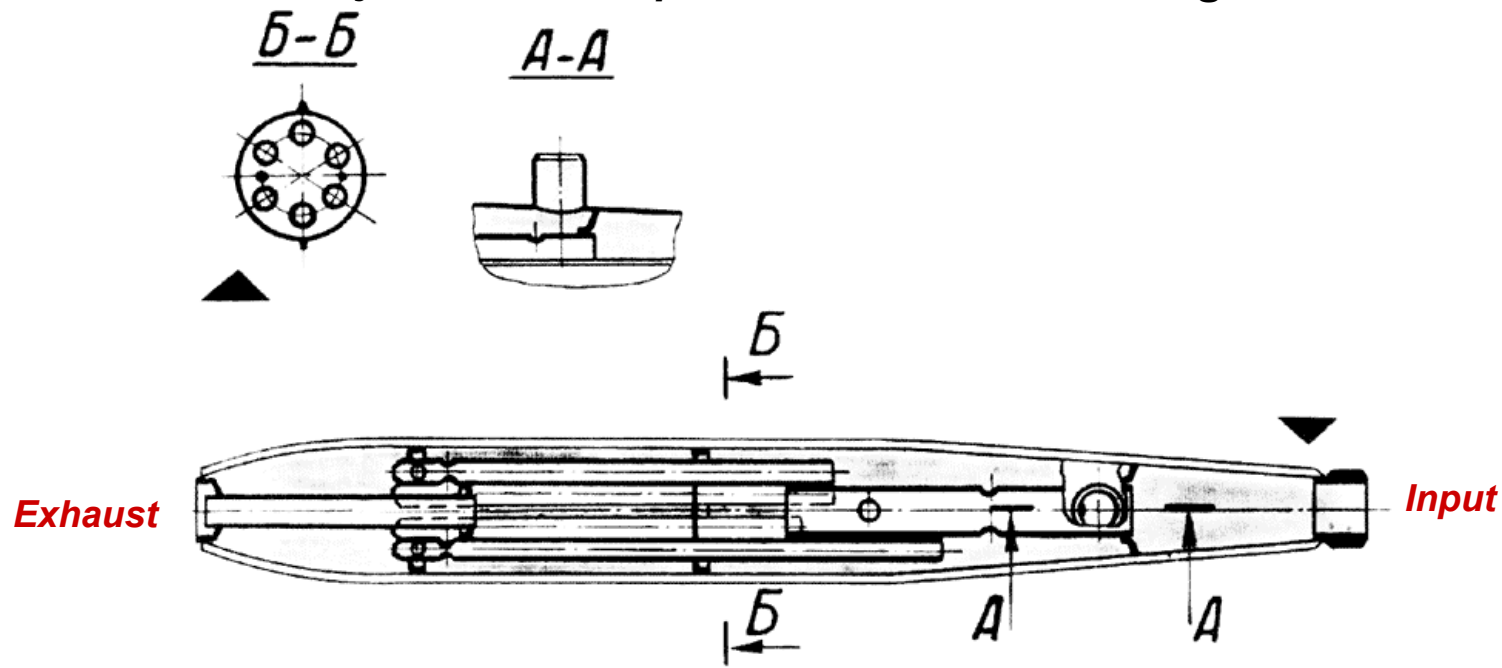
MT-10.36 Muffler Attachment to Cylinder Head

Dnepr 650cc Exhaust Nut
MT801508-A

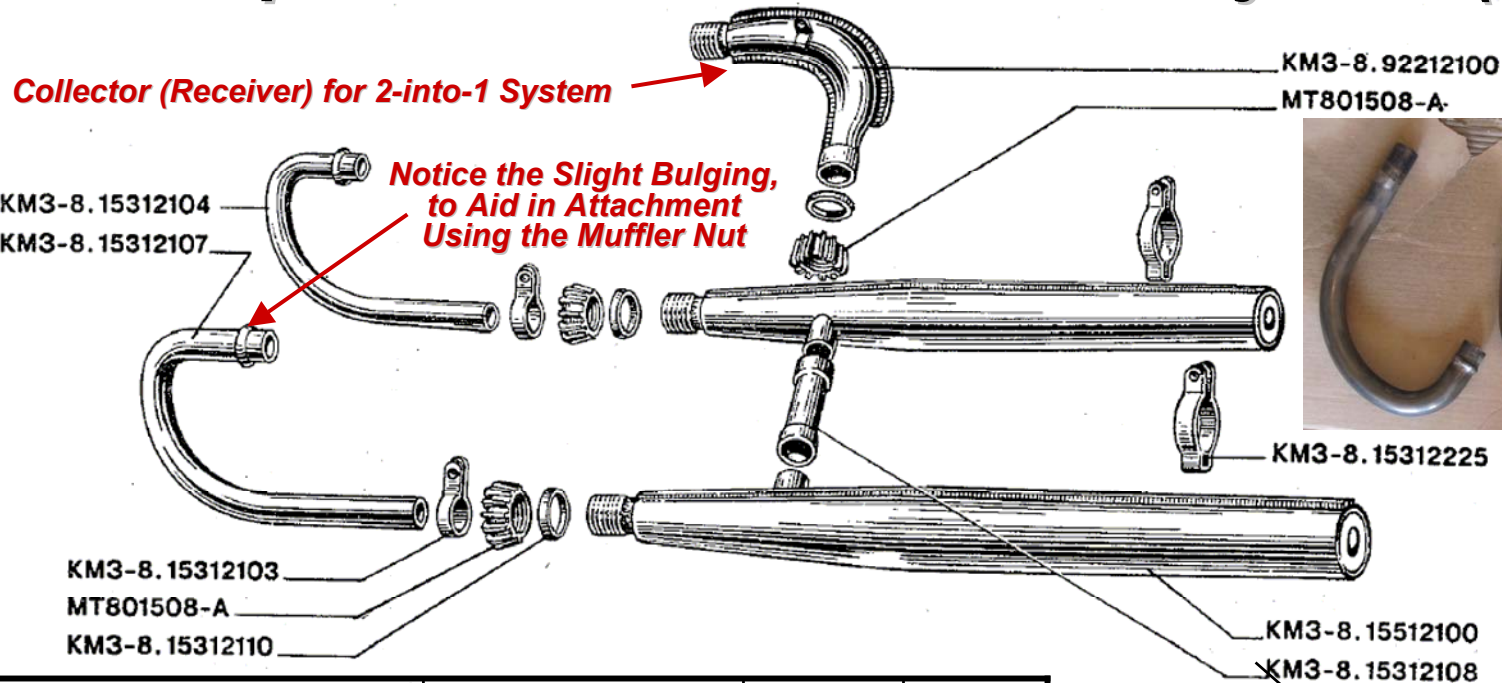


MT-10.36 Muffler (roker.kiev.ua)

- **New Muffler for Dnepr MT-10.36**
 - **Reduced Noise by 10 dB (decibels) on MT-10.36**
 - **Can Be Retro-Fitted on Dnepr MT-8, MT-9, MT-10**
 - **Mufflers (complete with clamps) Can Be Retro-Fitted without Any Modification**
 - **Replace Main Jet Capacity 200 cm³/min with 180 cm³/min in Carburetor**
 - **Outer Diameter Increased to 86 mm**
 - **Volume Increased by 1.6 Times**
 - **Exhaust Gases Flow at Slower Rate and Expand Much More than Previous**
 - **Increased Volume, along with Increased Surface Area, Reduces Its Calorific Silencer and Therefore Increases Durability**
 - **Now Mounted as Cylinder, Not Clip as Before, to Provide Tight Connection**



Dnepr MT-11 / MT-16 Exhaust System (650 cc)



KMZ-8.15512100
Muffler, Flat-End, 85mm

Description	Part #	MT-11	MT-16
Exhaust Pipe Nut	MT801508-A	2	3
Muffler (Silencer)	KM3-8.15512100	2	1
Receiver	KM3-8.92212100	-	1
Ear	KM3-8.15312103	2	2
Right-Hand Pipe	KM3-8.15312104	1	11
Left-Hand Pipe	KM3-8.15312107	1	1
Connecting Pipe	KM3-8.15312108	1	1
Seal Ring	KM3-8.15312110	2	3
Silencer (Muffler) Stirrup	KM3-8.15312225	2	1

Dnepr offered the 2-into-1 muffler on the MT-16.

Dnepr MT-11 / MT-16 Exhaust System (650 cc)



65012104-A + 65012107-A
Exhaust Pipes, 35mm

Notice the Slight Bulging,
to Aid in Attachment
Using the Muffler Nut



KMZ8.92212100
Collector

KM3-8.92212100

MT801508-A



KMZ-8.15312110
Exhaust Nut Gasket



MT801508-A
Exhaust Pipe Nut



KMZ-8.15312225
Muffler Clamp, 85 mm

KM3-8.15312104

KM3-8.15312107

KM3-8.15312103

MT801508-A

KM3-8.15312110



65012103-A
Exhaust Pipe Clamp, 35mm



MT801508-A
Exhaust Pipe Nut



KMZ-8.15312110
Exhaust Nut Gasket



KMZ-8.15512100
Muffler, Flat-End, 85mm

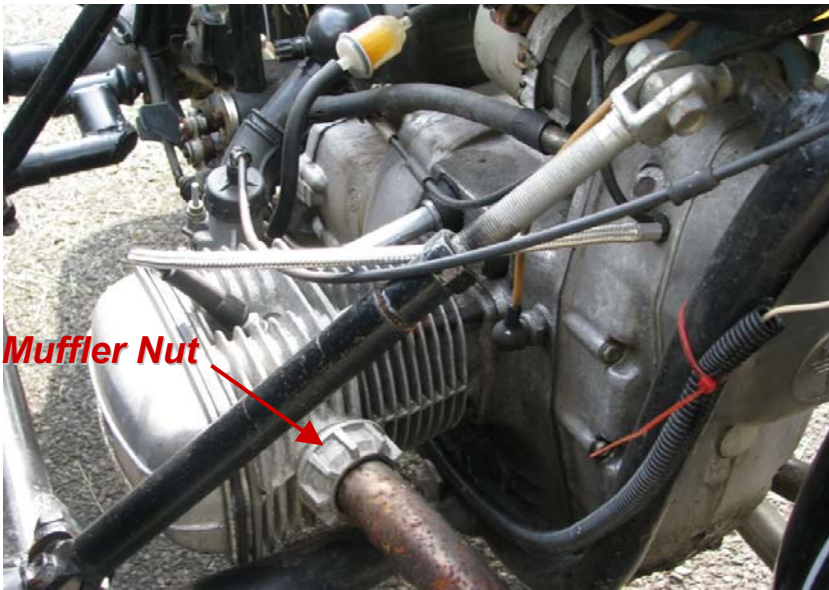
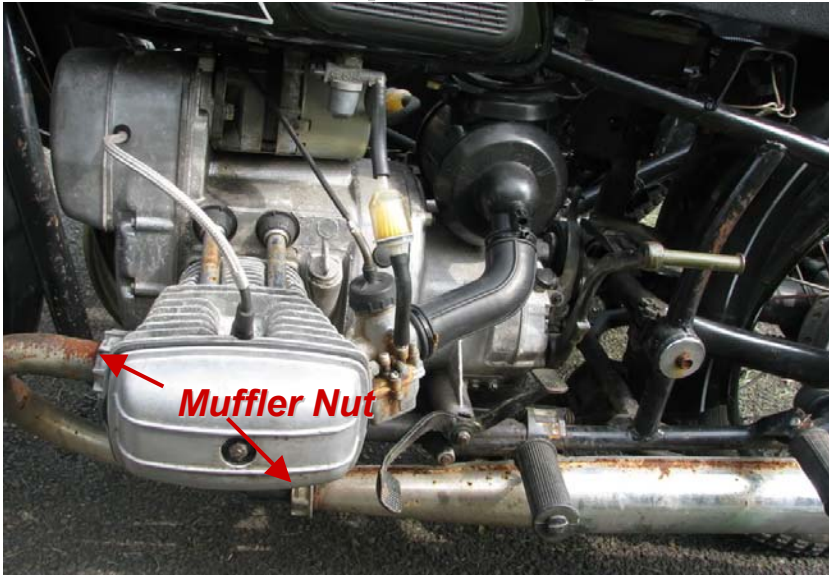
KM3-8.15512100

KM3-8.15312108



72H12108/ KMZ-8.15312108
Intermediate (Balance) Pipe

1985 MT-16 (650cc) Header Attachment to Cylinders



Muffer nuts were used between the headers and the cylinders and between the headers and the mufflers.

1985 Dnepr MT-16 (650cc) 2-into-1 Exhaust System



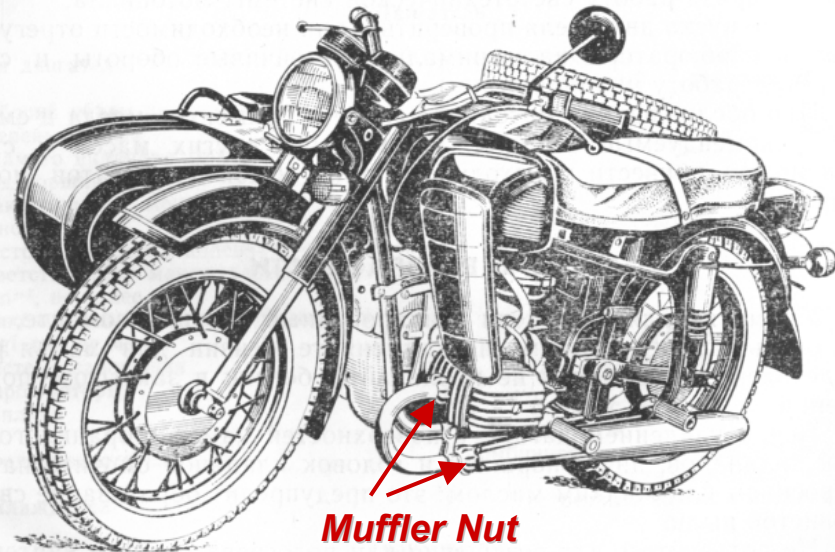
MT-16 with 2-into-1 on Left-Side



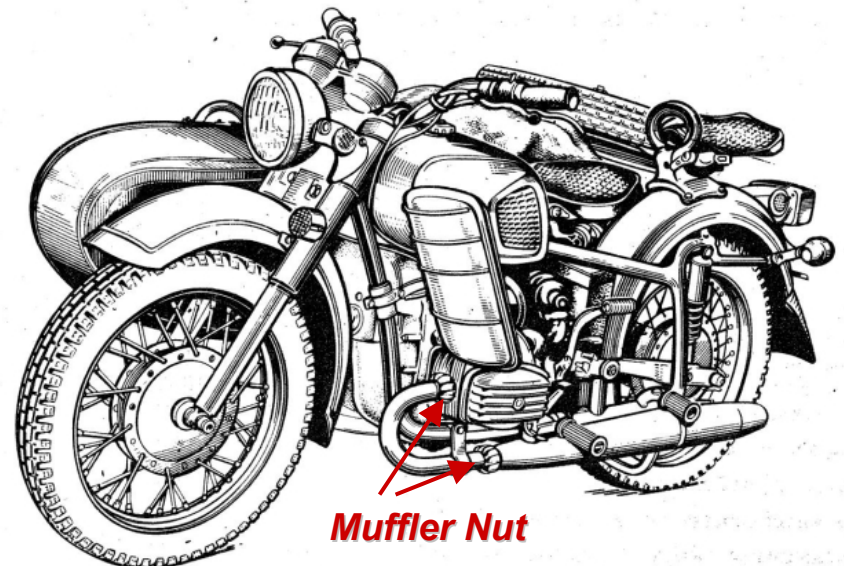
MT-16 with 2-into-1 on Right-Side

The rear-end shot of the MT-16 clearly shows the 2-into-1 muffler system.

Dnepr MT-11 / MT-16



MT-11 with Trumpet Muffler



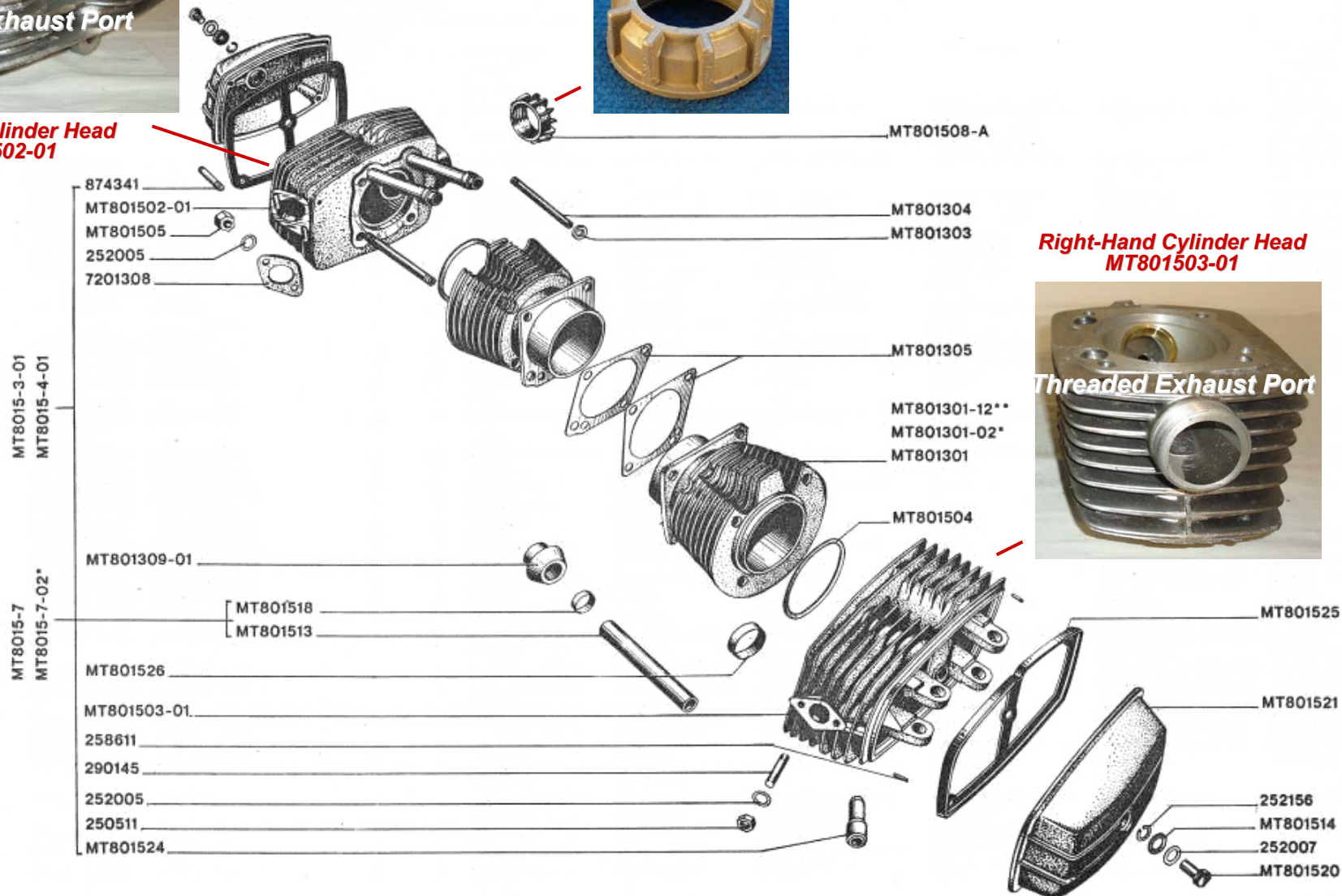
MT-16 with Trumpet Muffler

MT-11 / MT-16 Muffler Attachment to Cylinder Head



Left-Hand Cylinder Head
MT801502-01

Dnepr 650cc Exhaust Nut
MT801508-A



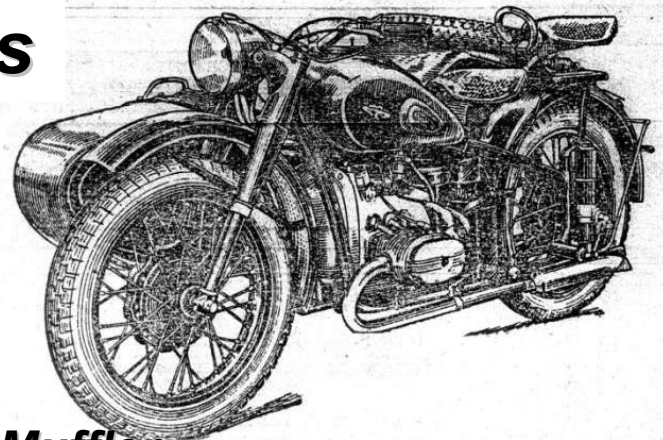
Right-Hand Cylinder Head
MT801503-01



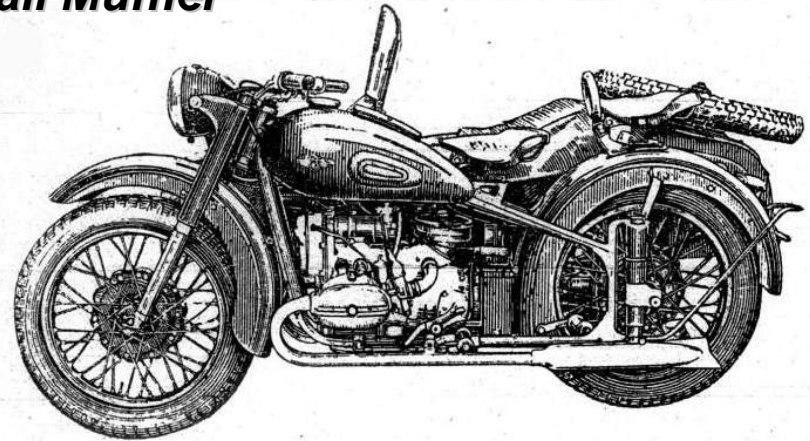
Ural 650's



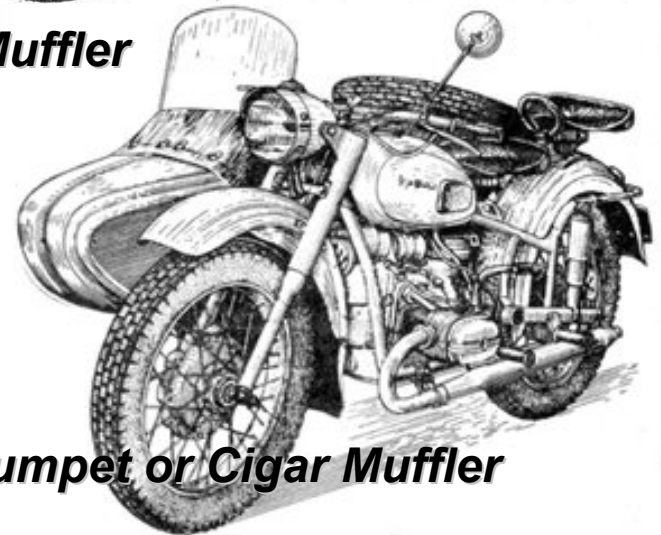
M-61 with Fish-Tail Muffler



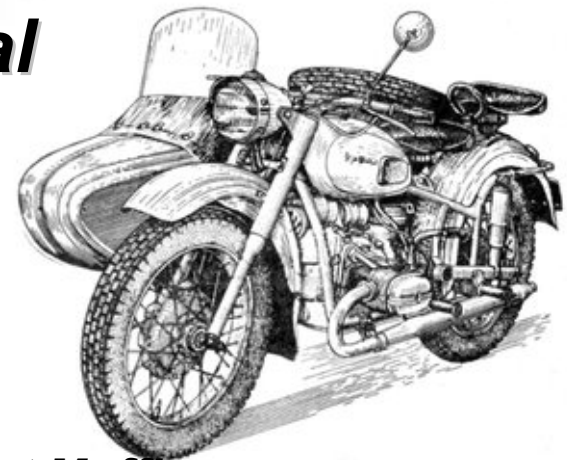
M-62 with Fish-Tail Muffler



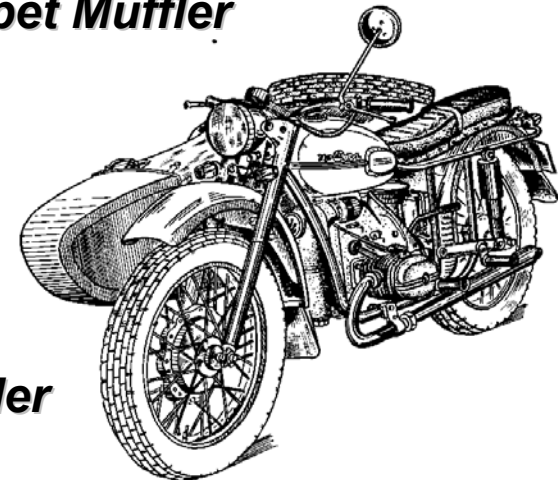
M-63 (Ural-2) with Trumpet or Cigar Muffler



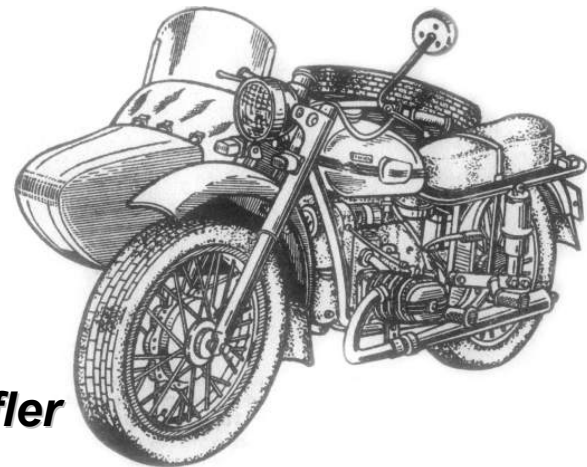
Ural 650's Ural



M-66 (Ural-3) with Trumpet Muffler

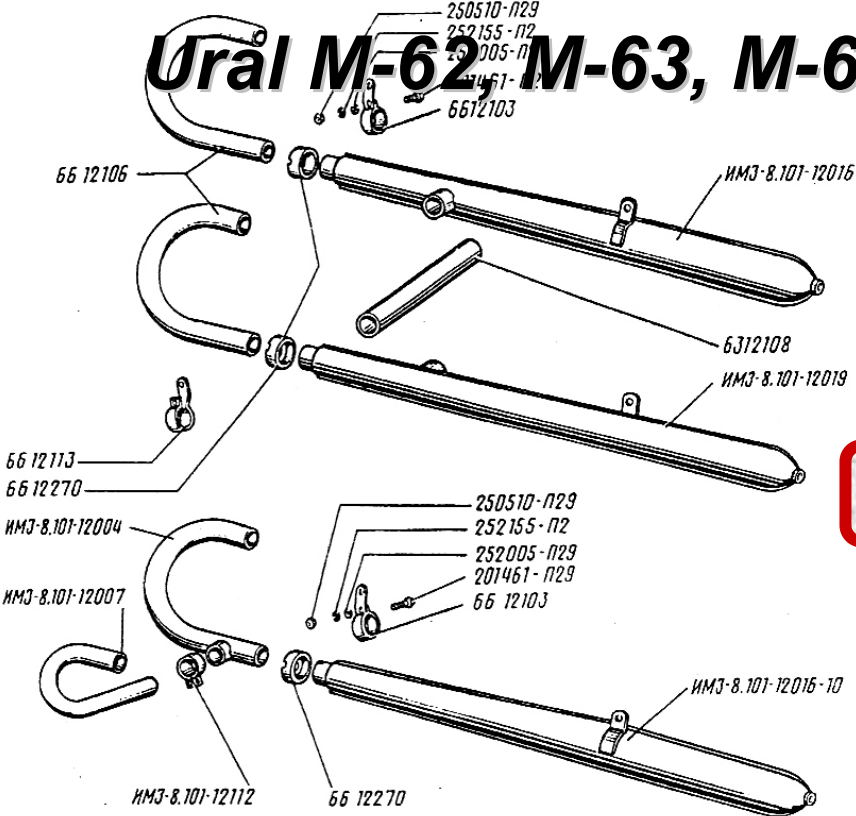


M-67 with Trumpet Muffler



M-67.36 with Trumpet Muffler

Ural M-62, M-63, M-66, M-67 and 8.103 (650 cc)



Description	Part #	M-62	M-63	M-66	M-67
Right-Hand Muffler	6612016	-	1	1	1
Left-Hand Muffler	6612019	1	1	1	1
Exhaust Pipe	6612106	-	2	2	2
Exhaust Pipe Clip	6612113	-	2	2	2
Muffler Nut	6612270	-	2	2	2
Connecting Pipe	6312108	-	1	1	1

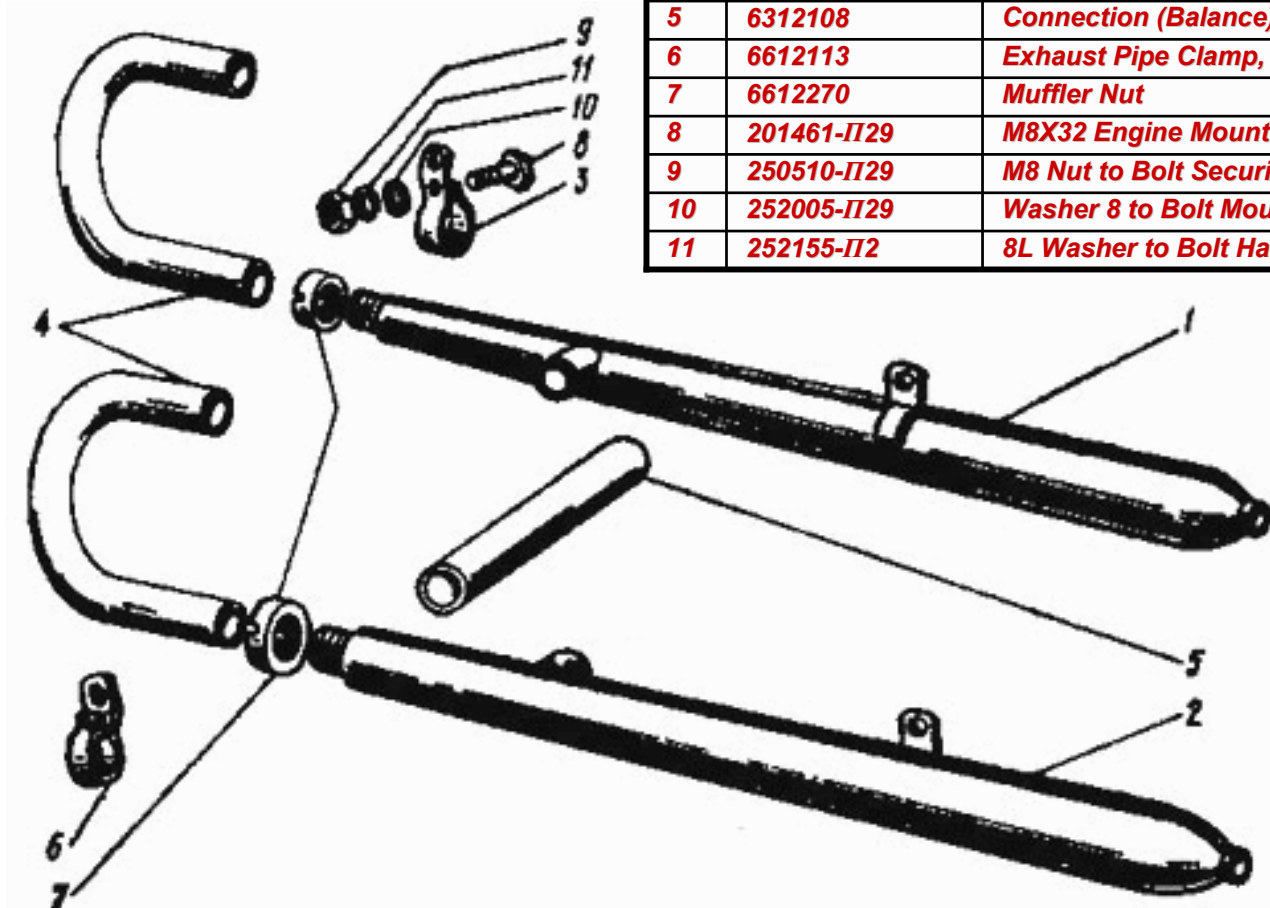
Ural's M-62 uses the 2-into-1 muffler system.

Upswept Parts List

<i>Description</i>	<i>Part #</i>	<i>Qty</i>
<i>Muffler RH Upswept</i>	<i>IMZ-8.123-120016-C6</i>	<i>1</i>
<i>Muffler LH, Upswept</i>	<i>IMZ-8.123-120019-C6</i>	<i>1</i>
<i>Header Pipe RH, Upswept</i>	<i>IMZ-8.103-12004-C6</i>	<i>1</i>
<i>Header Pipe LH, Upswept</i>	<i>IMZ-8.103-12007-C6</i>	<i>1</i>
<i>Branch Pipe Upswept</i>	<i>IMZ-8.103-12036</i>	<i>2</i>
<i>Connecting Pipe, Upswept</i>	<i>IMZ-8.103-12102</i>	<i>1</i>
<i>Clamp LH or RH</i>	<i>IMZ-8.101-12112</i>	<i>2</i>
<i>Muffler Nut</i>	<i>6,612,270</i>	<i>2</i>
<i>Heat Protection Sheet Metal RH, Upswept</i>	<i>IMZ-8.123-12281</i>	<i>1</i>
<i>Heat Protection Sheet Metal LH, Upswept</i>	<i>IMZ-8.123-12282</i>	<i>1</i>
<i>201461-Π29</i>	<i>Bolt M8-6gx32 OST 37.001.124-75</i>	<i>2</i>
<i>252155- Π2</i>	<i>Washer 8L OST37.001.115-75</i>	<i>2</i>
<i>250510-Π29</i>	<i>Nut M8 -6H OST37.001.124-75</i>	<i>2</i>

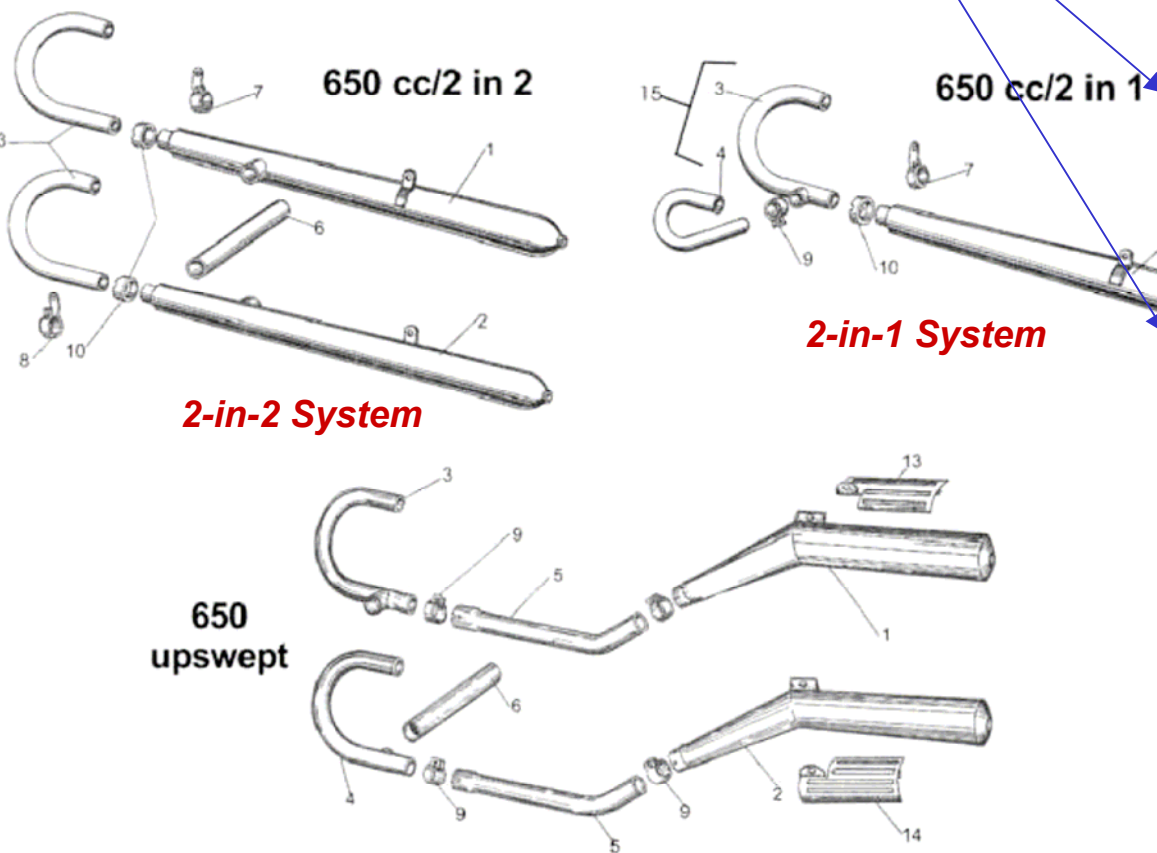
Exhaust System Ural M-67.36 (650cc)

#	Part #	Description	Qty
1	KMZ-8.101-12016	Muffler, Right	1
2	KMZ-8.101-12019	Silencer, Left	1
3	6612103	Exhaust Pipe Clamp, Right Cylinder	1
4	6312106	Exhaust Pipe	2
5	6312108	Connection (Balance) Pipe	1
6	6612113	Exhaust Pipe Clamp, Left Cylinder	1
7	6612270	Muffler Nut	2
8	201461-II29	M8X32 Engine Mounting Bolt	2
9	250510-II29	M8 Nut to Bolt Securing Engine at the Top	2
10	252005-II29	Washer 8 to Bolt Mounting Bracket to Windscreen	2
11	252155-II2	8L Washer to Bolt Handle Positioning	2



Ural Exhaust Systems 650cc

The Ural 8.103 and 8.107 parts fit the Driven Sidecar of the 650cc Sportsman (1995-1998) and 650cc Patrol (1999-2002)

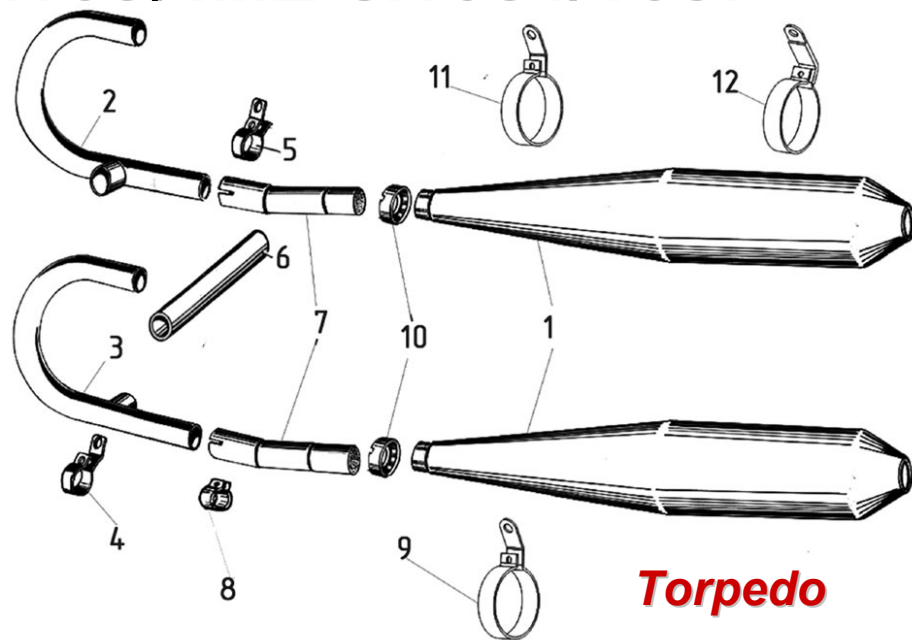
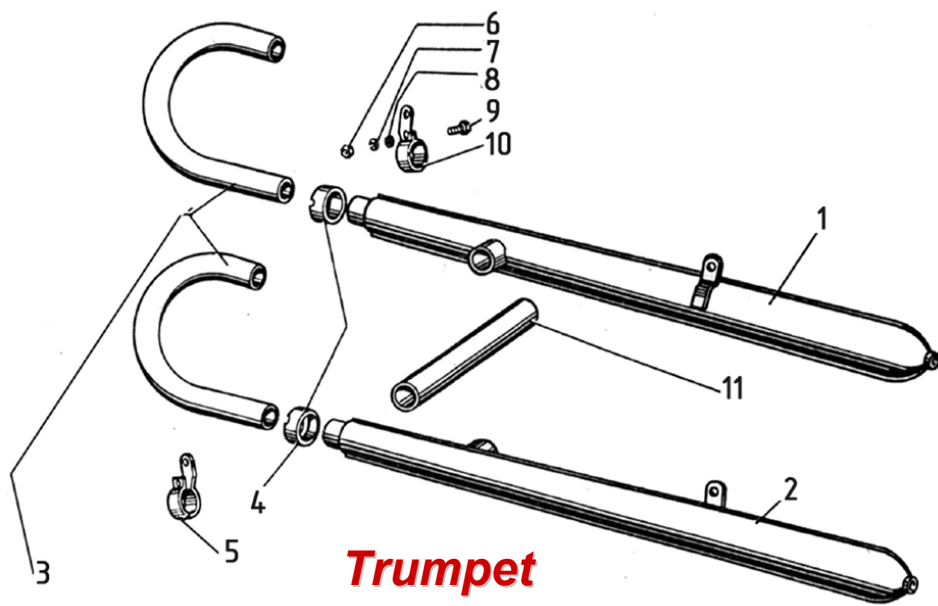


Most current Ural's use separate exhaust pipes ("headers") for each cylinder, with a separate muffler ("silencer") on each side. Some models (e.g. Patrol) and earlier models use a 2-into-1 system, with a single muffler on the right side. The 2-into-2 system uses a crossover ("connecting") pipe between the two mufflers. Both header pipes and muffler are different for the 2-into-1 system.

#	IMZ Part #	Description
1	IMZ-8.101-12016	Muffler RH, 2-in-2 system
1	IMZ-8.101-12016-10	Muffler RH, 2-in-1 system
1	IMZ-8.107-12016	Muffler RH, 2-in-2 system, driven sidecar and 2-in-1 system
1	IMZ-8.123-120016-C6	Muffler RH Upswept
1	IMZ-8.123-12003	Muffler (RH and LH)
2	IMZ-8.101-12019	Muffler LH, 2-in-2 system
2	IMZ-8.107-12019	Muffler LH, 2-in-2 system, driven sidecar
2	IMZ-8.123-120019-C6	Muffler LH, Upswept
3	'6612106	Header pipe LH and RH, 2-in-2 system
3	IMZ-8.101-12004	Header Pipe RH, 2-in-1 system
3	IMZ-8.103-12004-C6	Header Pipe RH, Upswept
3	IMZ-8.107-12004-10	Header Pipe RH, 2-in-2 system, driven sidecar
3	IMZ-8.107-12106	Header Pipe for sidecar drive
4	IMZ-8.101-12007	Header pipe LH, 2-in-1 system
4	IMZ-8.103-12007-C6	Header Pipe LH, Upswept
4	IMZ-8.107-12007	Exhaust Pipe LH, 2-in-2 system, driven sidecar
5	IMZ-8.103-12036	Branch Pipe Upswept
6	6312108	Connecting Pipe, 2-in-2 system
6	6312108-10	Connecting Pipe, 2-in-2 system, driven sidecar
6	IMZ-8.103-12102	Connecting Pipe, Upswept
7	'6612103	Clamp RH
7	IMZ-8.107-12103	Clamp, 2-in-2 system, driven sidecar
8	'6612113	Clamp LH
9	IMZ-8.101-12112	Clamp LH or RH
10	6,612,270	Muffler Nut
13	IMZ-8.123-12281	Heat Protection Sheet Metal RH, upswept
14	IMZ-8.123-12282	Heat Protection Sheet Metal LH, Upswept
15	IMZ-8.107-12022	Headerpipe System 2-in-1 system, driven sidecar

The Ural 650cc engine had three options; 2-into-2 dual mufflers, 2-into-1 single muffler and the dual muffler upswept system.

Ural (650/750cc) IMZ-8.103, IMZ-8.1034/1037



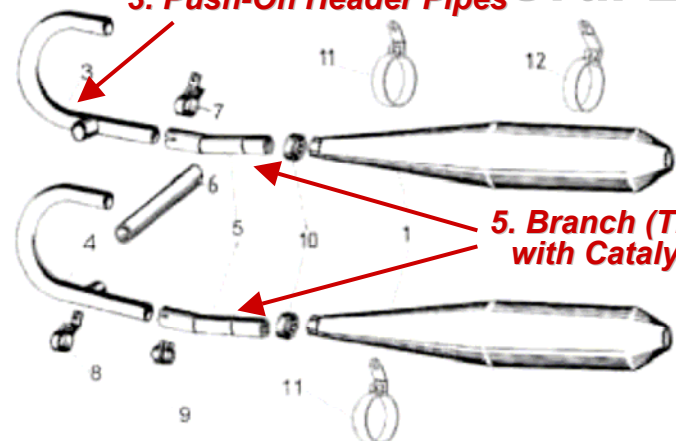
#	Part #	Description	Qty	Engine
1	IMZ-8.101-12016	Muffler Assy, RH	1	650cc
2	IMZ-8.101-12019	Muffler Assy, LH	1	650cc
3	66-12106	Header Pipe	1	650cc
4	66-12270	Muffler Nut	2	650cc
5	IMZ-8.103-12103-10	Clamp	1	650cc
6	250 510-P29	Nut M8 -6H OST37.001.124-75	4	650cc
7	252 155-P2	Washer 8L OST37.001.115-75	6	650cc
8	252 005-P29	Washer 8	2	650cc
9	201 461-P29	Bolt M8-6gx32 OST 37.001.124-75	6	650cc
10	IMZ-8.107-12103	Clamp, Header Pipe RH	1	650cc

#	Part #	Description	Qty	Engine
1	IMZ-8.123-12003	Muffler Assy	2	650/750cc
2	IMZ-8.123-12004	Header Pipe	1	750cc
3	IMZ-8.123-12007	Header Pipe	1	750cc
4	IMZ-8.103-12103-10	Clamp	1	650/750cc
5	IMZ-8.123-12103	Clamp	1	650/750cc
6	6,312,108	Connecting Pipe	1	650/750cc
7	IMZ-8.123-12036	Branch pipe	2	650/750cc
8	IMZ-8.101-12112	Clamp	6	650/750cc
9	IMZ-8.123-12114	Clamp	1	650/750cc
10	6,612,270	Muffler Nut	2	650/750cc
11	IMZ-8.123-12114	Clamp	1	650/750cc
12	IMZ-8.107-12060	Clamp	1	650/750cc

750ccm < 2006

Ural Exhaust Systems (750cc)

3. Push-On Header Pipes

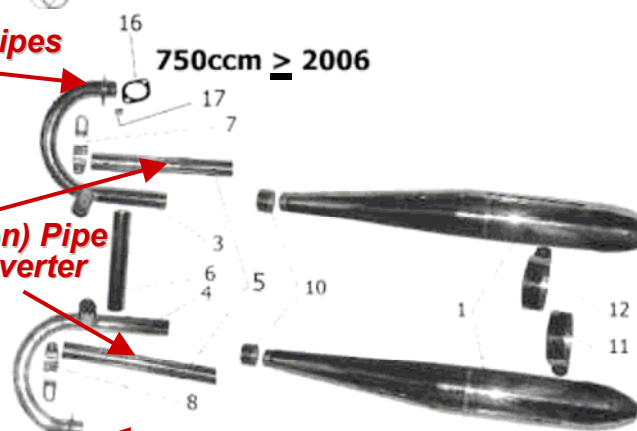


5. Branch (Transition) Pipe with Catalytic Converter

3. Bolt-On Header Pipes

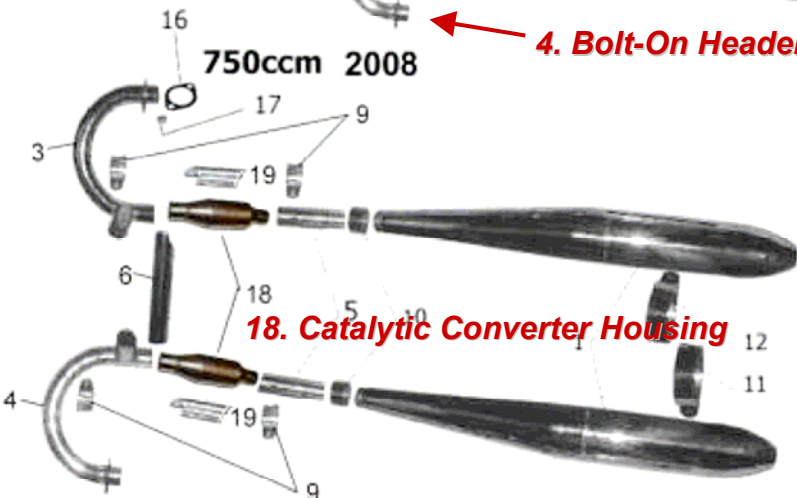
750ccm ≥ 2006

5. Branch (Transition) Pipe with Catalytic Converter



4. Bolt-On Header Pipes

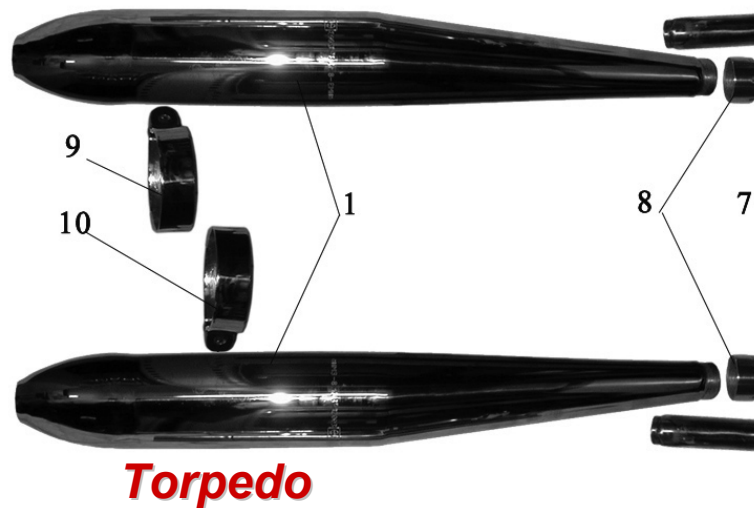
750ccm 2008



18. Catalytic Converter Housing

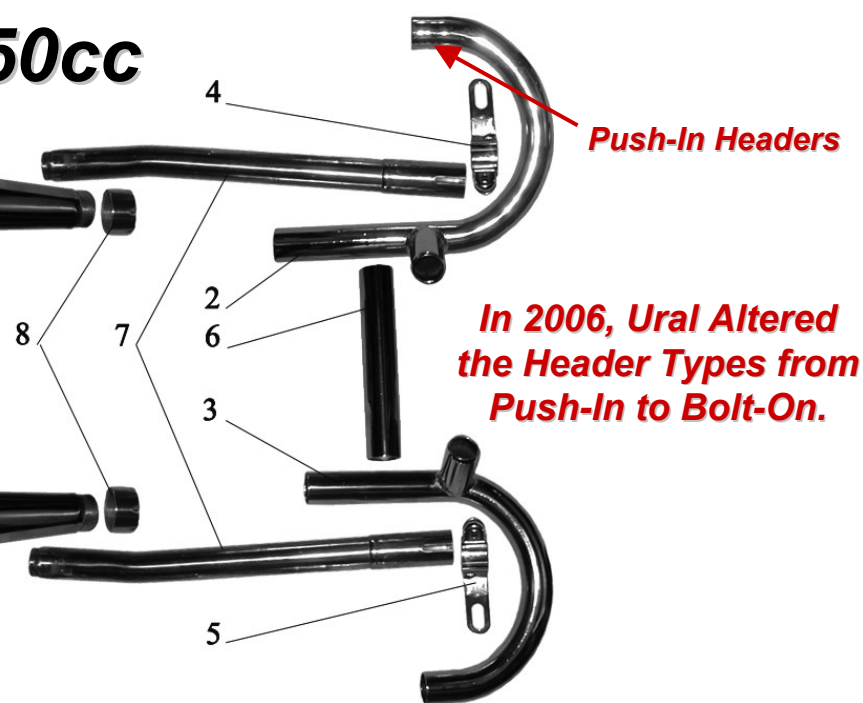
#	IMZ Part #	Description
1	IMZ-8.123-12003	Muffler (RH and LH), up to 2008
1	IMZ-8.123-12003-08	Muffler (RH and LH), only for 2008
1	IMZ-8.123-12003-12	Muffler (RH and LH), from 2008
3	IMZ-8.123-12004	Header Pipe RH, up to 2005, Slip-On
3	IMZ-8.1236-12004-08	Header Pipe RH, only for 2008
3	IMZ-8.1236-12004-10	Header Pipe RH, only for 2006 and 2007, Bolt-On
3	IMZ-8.1236-12004-10BL	Header Pipe RH, from 2006, Black Chrome
3	IMZ-8.4001-12004-10	Header Pipe RH, from 2009
4	IMZ-8.123-12007	Header Pipe LH, up to 2005, Slip-On
4	IMZ-8.1236-12007-08	Header Pipe LH, only for 2008
4	IMZ-8.1236-12007-10	Header Pipe LH, only for 2006 and 2007, Bolt-On
4	IMZ-8.1236-12007-10BL	Header Pipe LH, from 2006, black chrome
4	IMZ-8.4001-12007-10	Header Pipe LH, from 2009
5	IMZ-8.107-12036	Branch Pipe for sidecar drive, Only for 2006 & 2007
5	IMZ-8.123-12036	Branch Pipe with catalytic converter, up to 2007
5	IMZ-8.123-12036-08	Branch Pipe, from 2008
5	IMZ-8.123-12036-10	Branch Pipe w/o cat. convert., Only for 2006 & 2007
5	IMZ-8.4001-12036-08	Branch Pipe, only for 2008
5	IMZ-8.4001-12036-20	Branch Pipe, from 2009, Stainless
6	6312108-20	Connecting (Branch) Pipe, up to 2008
6	6312108-20BL	Connecting (Branch) Pipe, Black Chrome
6	6312108-30	Connecting (Branch) Pipe, from 2009
7	IMZ-8.123-12103	Clamp RH, up to 2005
8	IMZ-8.103-12103-10	Clamp LH, up to 2005
9	AC036-039W2	Clamp, Stainless
9	IMZ-8.101-12112	Clamp
10	6612270	Muffler Nut, up to 2008
11	IMZ-8.123-12060	Clamp Rear, up to 2005
11	IMZ-8.123-12060-01	Clamp Rear 2006, up to 2008
11	IMZ-8.123-12060-09	Clamp Rear 2006, from 2009
12	IMZ-8.107-12060	Clamp Rear for driven sidecar, up to 2005
12	IMZ-8.107-12060-01	Clamp Rear for driven sidecar, from 2006 up to 2008
12	IMZ-8.107-12060-09	Clamp Rear for driven sidecar, from 2009
16	IMZ-8.1236-12155	Exhaust Seal, from 2006
17	E00911	Nut M8
18	IMZ-8.128-12036	Catalytic Converter with Housing Only, for 2008
18	IMZ-8.128-12036-00	Catalytic Converter Empty Housing, from 2008
18	IMZ-8.128-12036-09	Catalytic Converter with Stainless Housing, from 2009

Ural 750cc



Torpedo

Ural ≤ 2005



Ural ≥ 2006

#	Part #	Description	Qty
1	IMZ-8.123-12003	Muffler	2
2	IMZ-8.123-12004	Header Pipe (slip on)	1
3	IMZ-8.123-12007	Header Pipe (slip on)	1
4	IMZ-8.103-12103-10	Header Pipe Clamp	1
5	IMZ-8.123-12103	Header Pipe Clamp	1
6	63-12108-20	Connecting Pipe	1
7	IMZ-8.123-12036	Branch Pipe	2
7	IMZ-8.107-12036	Branch Pipe (for sidecar drive wheel)	1
8	66-12270	Muffler Nut	2
9	IMZ-8.123-12060	Clamp	1
10	IMZ-8.123-12060	Clamp	1
10	IMZ-8.107-12060	Clamp (for sidecar drive wheel)	1
11	IMZ-8.1236-12155	Gasket (Seal)	2

#	Part #	Description	Qty
1	IMZ-8.123-12003	Muffler	2
2	8.1236-12004-10	Header Pipe (from 2006 - Bolt on)	1
3	8.1236-12007-10	Header Pipe (from 2006 - Bolt on)	1
4	IMZ-8.103-12103-10	Header Pipe Clamp	1
5	IMZ-8.123-12103	Header Pipe Clamp	1
6	63-12108-20	Connecting Pipe	1
7	IMZ-8.123-12036	Branch Pipe	2
7	IMZ-8.107-12036	Branch Pipe (for sidecar drive wheel)	1
8	66-12270	Muffler Nut	2
9	IMZ-8.123-12060	Clamp	1
10	IMZ-8.123-12060	Clamp	1
10	IMZ-8.107-12060	Clamp (for sidecar drive wheel)	1
11	IMZ-8.1236-12155	Gasket(Seal)	2

Bolt-On Header Pipes (www.cossackmotorcycles.com)



***Bolt-On Mounting Flange
+ Flange-Type Exhaust Gasket***

From mid-2006, all Urals have exhaust systems with bolt-on mounting flanges, replacing the older push-in types.

Modern Ural Mufflers www.uralne.com



2012 Gear-Up 2WD in Forest Camo

Stainless Steel Trumpet



2008 Patrol 2WD in Black

Chrome Torpedo



Stainless Steel Muffler

2012 Ural Patrol



2009 Ural T



The factory started offering the stainless steel mufler on 2009 and newer Urals.