

Updated: 10 March 2025



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**Mechanical Speedometer (cable driven), All Manufactures**

With cable driven speedometers, there are potentially two gears that can go bad. First is the odometer gear pictured. You will need to count the number of teeth on the original gear before ordering. 10, 11, 11 tooth Super beetle, 12,13,14,15,16,17,18,19,21,24 (Chevrolet/GMC), 25



Second is the lead gear on the same rail. Check to make sure it is tight on the shaft. Using a small screwdriver, see if it spins on the shaft. If it does, you should replace it also. There are three sizes. All you need to do is measure the overall thickness. 1/8" =4.57mm, 3/16" =5.44mm or 1/4" = 6.35mm



**AC Cobra/Shelby Cobra**

With Smiths Speedometer	Smiths 20 tooth gear
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**Audi On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

80	1986-1992	E15	? small pod
90	1988-1995	E15 (small pod) or E20 (med. pod)	? small pod or ? medium pod
100 C4 platform	1992-1997	E15	? small pod
5000	Late 1986	E25 or E26	15 tooth Large Pod
A6 C4 platform	1992-1997	E15	? small pod
Late Model vehicles with electronic gauges that sweep when the ignition key is first turned.	Requires one gear per gauge. Speedometer, Tachometer, Temperature and Fuel Gauges		E7 Gear

**Bentley On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

US Spec in MPH	20x23
Euro Spec in KM	20x29

**BMW On VDO & MotoMeter units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count. We have listed the most common combinations.**

E23	1977-1986 7 Series	E1=12 tooth	E2=48x12 No Neck	E3=48x17 or 48x19 Neck
<b>E23</b>	<b>1977-1986 7 Series (Euro-KM)</b>	<b>20x23</b>		
E24	1976-1989 6 Series	E1=12 tooth	E2=48x12 No Neck	E3=48x17 or 48x19 Neck
<b>E28</b>	<b>1982-1988 5 Series</b>	<b>E1=12 tooth</b>	<b>E2=48x12 No Neck</b>	<b>E3=48x17 Neck</b>
E30	1982-1993 3 Series VDO	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x14 Neck
<b>E30</b>	<b>1982-1994 3 Series VDO South America</b>	<b>E1=12 tooth</b>	<b>E2=48x12 No Neck</b>	<b>E3=48x12 or 48x16 Neck</b>
E30	1982-1993 3 Series MotoMeter (US Spec)	E1=12 tooth	MM2=44x16	MM3=40x22      MM4=35x22

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E30	1982-1993 3 Series MotoMeter (Asian/Euro) R and K Series Motor Cycle	E1=12 tooth	MM2=44x16	MM3b=40x28	MM4b=28x22
E30	1982-1993 3 Series MotoMeter (Asian/Euro) R and K Series Motor Cycle	E1=12 tooth	MM2c=44x17	MM3c=38x23 .761mm diam.	MM4c=33x26
E30	1982-1993 3 Series MotoMeter (Portugal/Greece) R and K Series Motor Cycle	E1=12 tooth	MM2c=44x17	MM3d=38x28 .822mm diam.	MM4c=33x26
E30	1982-1993 3 Series MotoMeter (Asian/Euro) R and K Series Motor Cycle	E1=12 tooth	MM2d=43x16	MM3e=39x28 OEM color is Red	MM4e=28x22 Inside gear is start shaped. OEM color is tan
E30	MotoMeter (Asian/Euro) R and K Series Motor Cycle		MM2e=43x17		
E30	MotoMeter (Australia) R and K Series Motor Cycle			MM3F=40x34	
E30	Z1 1989-1991	E20	17 medium pod		
E31	1989-1999 8 Series	Either Seat Recline Gear		E31 seat gear	
E36	1990-2000 3 Series	Driver's Seat Recline Gear= White		Driver's Seat Bottom Gear= Pink	
E36	1992-1993.5 ; 1997.5-2000	Passenger Seat Recline Gear= Green		Passenger Seat Bottom Gear= Pink	
E36	1993.5-1997.5	Passenger Seat Recline Gear= White		Passenger Seat Bottom Gear= Pink	
E36	1996-2002 Z3	Seat Bushing Kit for Both Seats		Z3 Seat Bushing kit	
E39	October 2000-2003 5 Series	Headlight Adjuster kit (one per side)		Fits both xenon and standard	
2002	1968-1977	Mechanical 10 tooth for 2002 BMW		Thin lead Gear	
E53-X5/E83-X3	1999-2010	Transfer Case Actuator Motor Gear - 27 10 7 566 296GR			
E60-S85	5/03-12/09	Throttle Actuator Gear Kit			
E61-S85	12/05-04/10	Throttle Actuator Gear Kit			
E63-S85	03/04-07/10	Throttle Actuator Gear Kit			
E64-S85	07/05-07/10	Throttle Actuator Gear Kit			
E65/E66	2002-2008	Electronic Parking Brake Actuator Gear Repair Kit			
E70-X5	2007-	Transfer Case Actuator Motor Gear - 27 10 7 566 296GR			
E71-X6	2007-2013	Transfer Case Actuator Motor Gear - 27 10 7 566 296GR			
E83/N X3	1999-2010	Transfer Case Actuator Motor Gear - 27 10 7 566 296GR			
E90-S65	01/07-10/11	Throttle Actuator Gear Kit			
E92-S65	07/06-06/13	Throttle Actuator Gear Kit			
E93-S65	03/07-10/13	Throttle Actuator Gear Kit			

### **Cadillac**

Escalade 2004-2006	Seat Bushing Kit for Both Seats
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***Chevrolet On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.***

1997-1999	M24
Avalanche 2003-2006	Seat Bushing Kit for Both Seats
Corvette 1997-2004	Seat Bushing Kit for Both Seats
Express 1996-2008	Seat Bushing Kit for Both Seats
Savana 1996-2008	Seat Bushing Kit for Both Seats
Sierra 1999-2007	Seat Bushing Kit for Both Seats
Silverado 2003-2007	Seat Bushing Kit for Both Seats
Suburban 1997-2006	Seat Bushing Kit for Both Seats
Tahoe 2005-2006	Seat Bushing Kit for Both Seats
Yukon 2000-2006	Seat Bushing Kit for Both Seats

***Chrysler/Dodge On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.***

All with Electronic Speedometer <b>except</b> Monaco	E20	16 tooth Medium Pod
Monaco	E25	15 tooth Large Pod

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**Eagle On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

Premier	E25	15 tooth Large Pod
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**Ford On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

Bronco (analog odometer)		Worm Gear
Contour (analog odometer)		Worm Gear
Crown Victoria (only if odometer and trip are <b>stacked</b> in middle of speedometer)	E20	16 tooth Medium Pod
Crown Victoria (only if odometer and trip are <b>split</b> left and right in the cluster)	Drive Gear (2 each)	Worm Gear (2 each)
Expedition (analog odometer)		Worm Gear
Explorer (analog odometer)		Worm Gear
F-Series Pickup (analog odometer)		Worm Gear
Fairmont <i>Australia</i>	1982-1988	20x29
Falcon <i>Australia</i>	1982-1988	20X29
Fairlane <i>Australia</i>	1979-1988	20x29
Mustang	Drive Gear	Worm Gear (only need to replace if original is black)
Ranger (analog odometer)		Worm Gear
Taurus (analog odometer)		Worm Gear
Thunder Bird	E20	16 tooth Medium Pod

**Holden On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

Astra LD <i>Australia</i>	1987-1989	E25	15 tooth Large Pod
Commodore VN, VP, VR, VS	1988-1997	E25	15 tooth Large Pod

**Hummer**

H2 2003-2006	Seat Bushing Kit for Both Seats
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**Infiniti**

All	2002-200?	Driver's or passenger's Power Seat Gear (Has neck and collar)
All	2002-200?	Driver's or passenger's Power Seat Gear ( <b>NO</b> neck or collar)

**Jaeger and Smiths Odometer Gears**

20, 25, 32 mold is currently being made with availability roughly 4 March 2015. Other three tooth counts to follow shortly

**John Deere On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

With electronic Tachometer with odometer	E1=12 tooth	E2=48x12 No Neck	E3=48x15 Neck
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**LaForza On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

1989-	20x29
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**Land Rover**

Discovery LR3	2005-2009	Transfer Case Actuator Motor Gear - IGH500040GR
Discovery LR4	2010-2015	Transfer Case Actuator Motor Gear - IGH500040GR
Range Rover	2006-2014	Transfer Case Actuator Motor Gear - IGH500040GR
Range Rover Sport	2006-2014	Transfer Case Actuator Motor Gear - IGH500040GR

**Lincoln On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

If odometer and trip are <b>stacked</b> in middle of speedometer)	E20	16 tooth Medium Pod
If odometer and trip are <b>split</b> left and right in the cluster)	Drive Gear (2 each)	Worm Gear (2 each)

**Mazda On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

B series Pick-up	Worm Gear
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**Mercedes-Benz** On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count. We have listed the most common combinations.

107 = SL Class	1972-1980	M18 or M25	Medium Lead Gear or Thick Lead Gear		
107 = SL Class	1981-1989	E1=12 tooth	E2=48x12 No Neck	E3=48x12, 48x16 or 48x17 Neck	
107 = SL Class Asian and Canadian Spec	1981-1989	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x13 Neck	
107 = SL Class Euro Spec	1981-1989	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x18 Neck	
123 Chassis	1976-1985	M18	Medium Lead Gear or Thick Lead Gear		
124 = E Class	1984-1995	M18 or M25	Medium Lead Gear or Thick Lead Gear		
124 = E Class	1984-1995	Bosch wiper transmission Gear (U Shaped) /SWF gear not available			
126 = S Class Gas	1981-1991	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x16 Neck	
126 = S Class Diesel	1981-1991	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x15 Neck	
126 = S Class Euro Spec	1981-1991	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x18 Neck	
126 = S Class Asian and Canadian Spec	1981-1991	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x13 Neck	
129 = SL Class	1990-1998 with analog odometer	E15	12 tooth Small Pod or 16 tooth Small Pod		
129 = SL Class	1990-2002	Bosch wiper transmission Gear (U Shaped) /SWF gear not available			
140 = S Class	1992-1999	E15	12 tooth Small Pod or 16 tooth Small Pod		
140 = S Class	1992-1999	Wiper transmission Gear			
164/166 GL	2006-2012	TS Electric Motor Gear (transfer case actuator motor)- 164 540 01 88GR			
164/166 ML	2005-2011	TS Electric Motor Gear (transfer case actuator motor) - 164 540 01 88GR			
201 = 190 Class	1982-1993	Bosch wiper transmission Gear (U Shaped) /SWF gear not available			
202 = C Class	1993-2000	Wiper transmission Gear (must grind shaft to install)/Gear inside of motor is <b>NOT</b> available.			
Powerliner Tractor	With analog odometer	E1=12 tooth	E2=48x12 No Neck	E3=48x12,13,14,15,16,17,18,19 or 21 Neck	
Late Model vehicles with electronic gauges that sweep when the ignition key is first turned.		Requires one gear per gauge. Speedometer, Tachometer, Temperature and Fuel Gauges			E7 Gear

**Mercury** On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.

Cougar	E20	16 tooth Medium Pod
Grand Marquis (only if odometer and trip are <b>stacked</b> in middle of speedometer)	E20	16 tooth Medium Pod
Grand Marquis (only if odometer and trip are <b>split</b> left and right in the cluster)	Drive Gear (2 each)	Worm Gear (2 each)
Mystique (analog odometer)	Worm Gear	

**Merkur** On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.

Scorpio	1988-1989	E20	16 tooth Medium Pod
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**Nissan** On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.

Pintara/Sentra	1986-1993	E25	15 tooth Large Pod
Pulsar N13	1987-1990	E25	15 tooth Large Pod
R31 Skyline	1985-1989	E25	15 tooth Large Pod
Car and SUV	2002-200?	Driver's or passenger's Power Seat Gear (Has neck and collar)	
Car and SUV	2002-200?	Driver's or passenger's Power Seat Gear ( <b>NO</b> neck or collar)	

### OKA Australia

Buses, Trucks and Vans	20 x ?? Need to count teeth on old gear to verify correct tooth count.
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### Pontiac

Firebird / Trans AM	1985-1992	15 x 11 includes shoulder bolt, nut and tap. US SPEC ONLY
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**Porsche** On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.

911 (Mechanical)	1965-1975	M17 (Best to confirm tooth count)
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911 US-MPH (Base, Carrera, SC, Turbo)	1975-1989	20x30
911 Euro-KM and Asian (Base, Carrera, SC, Turbo)	1975-1989	20x22 or <b>20x32</b> (Best to confirm tooth count)
911 Middle East-KM (Base, Carrera, SC, Turbo)	1975-1989	20x29
911 US-MPH (C2, C2 Turbo, C4)	1990-1998	E15
911/930 US-MPH	1986.5-1988	E25
911/964 US-MPH <b>Option 1</b>	1989-1993	E15
911/964 US-MPH <b>Option2</b>	1989-1993	E25
911/964 Australia	1989-1993	E20
911/964 Singapore	1989-1993	E15
911/993 US-MPH (C2, C4, T Turbo)	1993-1998	E15
911/993 Middle Eastern (C2, C4, T Turbo)	1993-1998	E20
911/993 Euro-KM (C2, C4, T Turbo)	1995-1998	E15
912 (Mechanical)	1965-1976	M17
914 (Mechanical)	1970-1976	M17
924S US-MPH (Mechanical)	1976-1988	M17
924S Euro-KM (Mechanical)	1976-1988	M11
928 US-MPH (Base, GT, GTS, S4)	1978-1995	20x21
928 Euro-KM (Base, GT, GTS, S4)	1978-1991	20x21 or <b>20x29</b> (Best to confirm tooth count)
944 US-MPH (Mechanical)	1982	M15
944 US-MPH (Mechanical)	1983	M11
944 US-MPH (Mechanical)	1984-1985.1	M17
944 Euro-KM (Base, S, S2, Turbo)	1982-1985.1	<b>20x23</b> or 20x30 (Best to confirm tooth count)
944 US-MPH (Base, S, S2, Turbo)	1985.2-1991	<b>20x21</b> or 20x22 (Best to confirm tooth count)
944 US-MPH (Base, S, S2, Turbo)	1991	E25
944 Euro-KM	1985.2-1991	20x22 or <b>20x30</b>
968	1992-1995	E15
986 Boxster	1997-2004	Left and Right Convertible Top Transmission Gears
987(-2) Boxster	2005-2011	Left and Right Convertible Top Transmission Gears

**Rolls Royce On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

US Spec in MPH	20x23
Euro Spec in KM	20x29
RR1, RR2, RR3	Electronic Parking Brake Actuator Gear Repair Kit

**Saturn On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

1991-1994	E25	15 tooth Large Pod
1991-1994	Shift Grommet, Manual shifting Saturn (located at base of shifter under center console)	

**Shelby Cobra/AC Cobra**

With Smiths Speedometer	Smiths 20 tooth gear
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**Smiths and Jaeger Odometer Gears**

20, 25, 32 mold is currently being made with availability roughly 4 March 2015. Other three tooth counts to follow shortly

**Vixen Motor Home On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

1986-1989	20x23 or 20x29
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**Volkswagen On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

Mechanical (cable driven)	Lead Gear (need to measure original gear, see top off page)	
Beetle and Super Beetle	1972-	VW11, VW12
Bus (Type 2)	1968-1979	VW11
Rabbit	1980-1982	M21
Late Model vehicles with electronic gauges that sweep when the ignition key is first turned.	Requires one gear per gauge. Speedometer, Tachometer, Temperature and Fuel Gauges	E7 Gear

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**VOLVO LISTED ON BACK PAGE // TURN OVER**

**Volvo On VDO units you need to open and count the teeth on the old gears to ensure that you order the correct tooth count. Part numbers from any part of the speedometer do not help in determining the tooth count.**

200 Series	1986-1991	E25	15 tooth Large Pod	
200 Series	1992-1993	E25 or E26	15 tooth Large pod	
440/460 (Only with Analog VDO Odometer)	1987-1997	E20	? tooth medium pod	
700 Series (Only with VDO unit)	1982-1988	E26	15 Tooth Large pod	
850	1992-1997	E15	12 tooth Small Pod	
850	1992-1997	Horn Kit (consist of 4 each: bolt, washer, Plastic grommet, speed nut)		
C/S/V 70 Series	1996-2000	Horn Kit (consist of 8 plastic bushings)		
FM Heavy Duty Truck	With analog odometer	E1=12 tooth	E2=48x12 No Neck	E3=48x12,13,14,15,16,17,18,19 or 21 Neck
VDO unit		UAF 2115 bipolar Integrated circuit chip (Has to be soldered) not common		