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Mechanical Speedometer (cable driven), All Manufactures {Audi, Bentley, BMW, Mercedes-Benz, Porsche, Rolls Royce, SAAB, Volkswagen and Volvo

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



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
100 C4 platform	1992-1997	E15	? small pod
5000	Late 1986	E26	15 tooth Large Pod
A6 C4 platform	1992-1997	E15	? small pod

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.

E23	1977-1986 7 Series	E1=12 tooth	E2=48x12 No Neck	E3=48x17 or 48x19 Neck
E23	1977-1986 7 Series (Euro-KM)	20x23		
E24	1976-1989 6 Series	E1=12 tooth	E2=48x12 No Neck	E3=48x17 or 48x19 Neck
E28	1982-1988 5 Series	E1=12 tooth	E2=48x12 No Neck	E3=48x17 Neck
E30	1982-1993 3 Series VDO	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x14 Neck
E30	1982-1994 3 Series VDO South America	E1=12 tooth	E2=48x12 No Neck	E3=48x12 or 48x16 Neck
E30	1982-1993 3 Series MotoMeter (US Spec)	E1=12 tooth	MM2=44x16	MM3=40x22 MM4=35x22
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=33x23
E30	1982-1993 3 Series MotoMeter (Portugal/Greece) R and K Series Motor Cycle	E1=12 tooth	MM2c=44x17	MM3d=38x28 .822mm diam. MM4c=33x23

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	
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	
E65/E66	2002-2008	Electronic Parking Brake Actuator Gear Repair Kit			

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
2005-Current Corvette C6	Seat Bushings Kit
1998-Current Pick-up	Seat Bushings Kit

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 except Monaco	E20	16 tooth Medium Pod
Monaco	E25	15 tooth Large Pod

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 stacked in middle of speedometer)	E20	16 tooth Medium Pod
Crown Victoria (only if odometer and trip are split 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

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 (NO neck or collar/ splined or smooth inner bore/ splined or smooth inner bore)

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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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 stacked in middle of speedometer)	E20	16 tooth Medium Pod
If odometer and trip are split 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.

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		
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 NOT available.		

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 stacked in middle of speedometer)	E20	16 tooth Medium Pod
Grand Marquis (only if odometer and trip are split 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 (NO neck or collar/ splined or smooth inner bore/ splined or smooth inner bore)	

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)	
911 US-MPH (Base, Carrera, SC, Turbo)	1975-1989	20x30	
911 Euro-KM and Asian (Base, Carrera, SC, Turbo)	1975-1989	20x22 or 20x32 (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	16 tooth Small Pod
911/930 US-MPH	1986.5-1988	E25	15 tooth Large Pod
911/964 US-MPH Option 1	1989-1993	E15	16 tooth Small Pod
911/964 US-MPH Option 2	1989-1993	E25	15 tooth Large Pod
911/964 Australia	1989-1993	E20	15 tooth Medium Pod
911/964 Singapore	1989-1993	E15	17 tooth Small Pod
911/993 US-MPH (C2, C4, T Turbo)	1993-1998	E15	16 tooth Small Pod
911/993 Middle Eastern (C2, C4, T Turbo)	1993-1998	E20	15 tooth Medium Pod
911/993 Euro-KM (C2, C4, T Turbo)	1995-1998	E15	17 tooth Small Pod
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)	1978-1991	20x21 or 20x30 (Best to confirm tooth count)	
928 Euro-KM (Base, GT, GTS, S4)	1978-1991	20x21 or 20x29 (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	20x23 or 20x30 (Best to confirm tooth count)	
944 US-MPH (Base, S, S2, Turbo)	1985.2-1991	20x21 or 20x22 (Best to confirm tooth count)	
944 US-MPH (Base, S, S2, Turbo)	1991	E25	15 tooth Large Pod
944 Euro-KM	1985.2-1991	20x22 or 20x30	
968	1992-1995	E15	12 or 16 tooth Small Pod

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

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)	

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	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

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)	
VDO unit		UAF 2115 bipolar Integrated circuit chip (Has to be soldered) not common	