



Digital
Ohmmeter

Connect Leads
Across Injector
Terminals

Injector Resistance Specifications

Acura
1990-1998

| Engine | Year | Resistance (W) | Temperature °F / °C |
|------------------------|---------|----------------------------|------------------------|
| All | 1987-91 | 1.5-2.5 | - |
| 1678cc, 1797cc, 1834cc | 1992-95 | 10-13 | - |
| 2451cc, 2977cc, 3206cc | 1992-95 | 1.5-2.5 | - |

Audi
1990-1998

| Engine | Year | Resistance (W) | Temperature °F / °C |
|----------------|---------|----------------------------|------------------------|
| 2771cc Siemens | 1992-97 | 13.5-14.5 | - |
| Bosch | 1992-97 | 15-17 | - |
| 3697cc, 4172cc | 1997 | 12-20 | - |

BMW
1990-1998

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------|---------|----------------------------|------------------------|
| 1796cc | 1991-93 | 15-17 | - |

Buick
1990-1998

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------------------|---------|----------------------------|------------------------|
| 2.0L, 2.5L | 1988-89 | 1.2 min. | - |
| 2.0L, 2.5L | 1990-92 | 1.6 min. | - |
| 2.2L | 1993-96 | 11.8-12.6 | 68/20 |
| 2.3L | 1988-95 | 1.9-2.15 | 140/60 |
| 2.3L | 1996 | 1.95-2.30 | - |
| 2.4L | 1996-98 | 1.95-2.30 | - |
| 2.8L, 3.1L: Regal | 1988-92 | 12.0-12.4 | - |
| 2.8L, 3.1L: Others | 1988-89 | 8 min. | - |
| 3.0L | 1988 | 10 min. | - |
| 3.1L, 3.4L | 1994-98 | 11.8-12.6 | - |
| 3.3L | 1989-92 | 11.8-12.6 | 68/20 |
| 3.8L Code 3 | 1988 | 10 min. | - |
| 3.8L | 1991-95 | 14.3-14.7 | 68/20 |
| 3.8L | 1996-98 | 11.4-12.6 | - |
| 5.0L, 5.7L | 1991-93 | 1.2 min. | - |
| 5.0L, 5.7L | 1994-97 | 11.8-12.6 | - |

**Cadillac
1990-2001**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|----------------|---------|-------------------|------------------------|
| 2.0L, 2.5L | 1987-88 | 1.2 min. | - |
| 2.8L | 1987-88 | 8 min. | - |
| 4.6L, 4.9L | 1991-98 | 8-25 | - |
| 5.0.; 5.7L TBI | 1990-93 | 1.2 min. | - |
| 5.7L | 1994-96 | 11.8-12.6 | - |

**Chevrolet
1985 – 00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|------------------------|----------|-------------------|------------------------|
| 1.8L TBI | 1985—86 | 1.2 min. | — |
| 1.8L Turbo | 1985—86 | 2.0 min. | — |
| 2.0L | 1985—86 | 1.2 min. | — |
| 2.0L MFI | 1992—94 | 5.9—7.3 | — |
| 2.0L TBI | 1987—89 | 1.2 min. | — |
| 2.0L TBI | 1990—91 | 1.6 min. | — |
| 2.0L Turbo | 1987—91 | 2.0 min. | — |
| 2.3L | 1988—93 | 1.9—2.1 | 140/68 |
| 2.3L | 1994—95 | 1.9--2.15 | — |
| 2.4L | 1996—00 | 1.9—2.3 | — |
| 2.5L | 1985—89 | 1.2 min. | — |
| 2.5L | 1990—92 | 1.6 min. | — |
| 2.8L | 1987—89 | 8 min. | — |
| 2.8L, 3.1L: All others | 1988-93 | 12 min. | — |
| 2.8L, 3.1L: All others | 1994 | 11.8—12.6 | — |
| 2.8L, 3.1L: Firebird | 1993 | 11.8—12.6 | — |
| 2.8L, 3.1L: Grand Prix | 1988—93 | 12—12.4 | — |
| 3.0L | 1988 | 10 min. | — |
| 3.1L, 3.4L | 1994--00 | 11.8 -- 12.6 | — |
| 3.1L; All Others | 1990--93 | 8 min. | — |
| 3.1L: Camaro | 1992 | 11.8—12.6 | — |
| 3.1L: Lumina | 1990—93 | 12.0—12.4 | — |
| 3.3L | 1991—93 | 11.8—12.6 | 68/20 |
| 3.4L | 1992—93 | 12—12.4 | — |
| 3.4L | 1994 | 11.8—12.6 | — |
| 3.8L | 1991—93 | 14.5 | 68/20 |
| 3.8L | 1994 | 14.3—14.7 | — |
| 3.8L Code 3 | 1988 | 10 min. | — |
| 4.3L | 1985—87 | 1.4 min. | — |
| 4.3L | 1988—93 | 1.2 min. | — |
| 4.3L | 1994—96 | 11.8—12.6 | — |
| 5.0L TBI | 1988—92 | 1.2 min. | — |
| 5.0L, 5.7L MFI | 1985—92 | 10 min. | — |
| 5.0L, 5.7L MFI | 1993--94 | 11.8—12.6 | — |
| 5.0L, 5.7L TBI | 1988—93 | 1.2 min. | — |
| 2.2L | 1990—91 | 1.6 min. | — |
| 2.2L | 1992—95 | 11.6—12.4 | — |
| 2.2L | 1996—00 | 11.8—12.6 | — |

**Chevrolet/ GMC trucks
1985 – 00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|----------|---------|-------------------|------------------------|
| 2.2L MFI | 1994 | 14.6—12.4 | — |
| All | 1990—00 | 40—80 | — |
| All TBI | 1987—89 | 1.2 min. | — |
| All TBI | 1990—94 | 1.3 min. | — |

**Chrysler, Dodge, Plymouth
1985 – 00**

Colt, Conquest, Laser (1990-94), Raider, Ram 50, Stealth, Vista, Sebring Coupe & Avenger

| Engine | Year | Resistance (W) | Temperature °F / °C |
|------------------------------|----------|-------------------|------------------------|
| 1.6L, 2.6L Turbo | 1985—86 | 2—3 | 68/20 |
| 3.3L Longitudinal Engine | 1993—97 | 12 approx. | 68/20 |
| 3.3L, 3.8L Transverse Engine | 1990—91 | 2.4 | — |
| 3.3L, 3.8L Transverse Engine | 1992—95 | 14.5 | — |
| 3.3L, 3.8L Transverse Engine | 1996—99 | 12 approx. | 68/20 |
| 3.5L | 1993—97 | 12 approx. | 68/20 |
| 4—cyl. | 1988 | 2—3 | 68/20 |
| 4—cyl.: Avenger, Sebring | 1995—97 | 11—15 | — |
| All | 1987 | 2—3 | 68/20 |
| All exc. Turbo | 1989—94 | 13—16 | 68/20 |
| CNG | 1995 | 4.2—5.0 | — |
| Turbo | 1989--94 | 2—3 | 68/20 |
| V6 | 1988 | 15—17 | 68/20 |
| V6: Avenger, Sebring | 1995—97 | 13—16 | — |

Dodge Trucks

1985 – 00

All Rear wheel & 4-wheel drive models

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------|----------|-------------------|------------------------|
| 2.5L | 1996—97 | 13.3—15.7 | 68/20 |
| 2.5L | 1998—00 | 10.8—13.2 | 68/20 |
| 3.9L | 1992—97 | 13.3—15.7 | 68/20 |
| 3.9L | 1998—00 | 10.8—13.2 | 68/20 |
| 5.2L | 1992—97 | 13.3—15.7 | 68/20 |
| 5.2L | 1998—00 | 10.8—13.2 | 68/20 |
| 5.9L | 1992—97 | 13.3—15.7 | 68/20 |
| 5.9L | 1998--00 | 10.8—13.2 | 68/20 |
| 8.0L | 1994—97 | 13.3—15.7 | 68/20 |
| 8.0L | 1998—00 | 10.8—13.2 | 68/20 |

Eagle/Renault

1985 – 00

Medallion, Premier, Summit, Talon, Vista
Eagle Vision—See Chrysler Motors Corp.

| Engine | Year | Resistance (W) | Temperature °F / °C |
|------------------------|---------|-------------------|------------------------|
| 1.6L, 1.8L, 2.0L, 2.4L | 1989—96 | 12--13 | 68/20 |
| 2.0L Talon, exc. Turbo | 1995—98 | 11—15 | 68/20 |
| 2.0L Turbo | 1990—98 | 2—3 | 68/20 |

Ford Motor Company

1985 – 00

Ford, Lincoln, Mercury, Merker

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------------------------|----------|-------------------|------------------------|
| 1.3L | 1996--97 | 12--16 | — |
| 1.9L MFI | 1985—89 | 2.0—2.7 | — |
| 1.9L TBI | 1985—89 | 1—2 | — |
| 2.3L HSC | 1988—89 | 13.5—16 | — |
| 2.3L OHC | 1988—89 | 15—19 | — |
| 2.3L OHC Turbo | 1988 | 2--3 | — |
| 2.3L OHC, 3.0L | 1990—91 | 13—16 | — |
| 2.5L | 1988—89 | 1—2 | — |
| 3.0L exc. SHO | 1988—89 | 15—18 | — |
| 3.0L SHO, 3.8L, 5.0L | 1988—89 | 13.5—19 | — |
| 3.8L | 1999—00 | 9--16 | — |
| 4.6L CNG | 1997—00 | 4—6 | — |
| All | 1992 | 13—16 | — |
| All exc.: 2.3L OHC, 3.0L | 1990—91 | 13—16 | — |
| All Others | 1993—00 | 11--18 | — |

**Ford Trucks
1985 – 00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|-------------------------|---------|-------------------|------------------------|
| 1.9L MFI | 1989 | 2.0—2.7 | — |
| 1.9L TBI | 1989 | 1—2 | — |
| 2.3L HSC | 989 | 13.5—16 | — |
| 2.3L OHC, 3.0L | 1990—91 | 13—16 | — |
| 2.3L OSC | 1989 | 15—19 | — |
| 2.5L | 1989 | 1—2 | — |
| 2.5L Probe | 1996—97 | 12—16 | — |
| 3.0L exc. SHO | 1988—89 | 15—18 | — |
| 3.0L SHO, 3.8L, 5.0L | 1989 | 13.5—19 | — |
| 3.0L Villager | 1996—98 | 10—14 | — |
| 3.8L | 1999—00 | 9—16 | — |
| 4.0L | 1992 | 14—17 | — |
| 4.0L | 1993—94 | 12—19 | — |
| 4.6L CNG | 1997—00 | 4—6 | — |
| All exc. 2.3L OHC, 3.0L | 1990—91 | 15—18 | — |
| All Others | 1988—89 | 13.5—18 | — |
| All Others | 1990—92 | 13—16 | — |
| All Others | 1993—00 | 11—18 | — |
| All w/EEC IV, V | 1996—97 | 12—16 | — |
| CNG | 1996—98 | 4—6 | — |

**Geo-Asuna/Chevrolet--Pontiac
1989– 94**

Metro, Prizm, Spectrum, Storm, Sunfire, Tracker, Sunrunner, Sprint, Firefly

Chevrolet—Pontiac

1985--00

Sprint, Spectrum, Nova, Firefly, Sunburst

| Engine | Year | Resistance (W) | Temperature °F / °C |
|-----------------------------|---------|-------------------|------------------------|
| 1.0L | 1989—94 | 0.5—1.5 | 68/20 |
| 1.0L | 1998 | 0.5-1.5 | 68/20 |
| 1.0L Prizm | 1989—92 | 11—17 | — |
| 1.0L, 1.3L | 1989—97 | 0.5—1.5 | 68/20 |
| 1.3L | 1998 | 12—13 | — |
| 1.6L Tracker, Sunrunner TBI | 1989—94 | 1—2 | 68/20 |
| 1.6L, 1.8L Prizm | 1993—96 | 12—15 | — |
| 1.6L, 1.8L Prizm | 1997—00 | 11.8—12.6 | — |
| MFI | 1993—94 | 12--17 | — |
| MFI | 1993—95 | 12—17 | — |
| MFI | 1996—98 | 11.8—12.6 | — |

Honda
1985--00

| Engine | Year | Resistance (W) | Temperature °F / °C |
|-----------------------------|---------|----------------------------|------------------------|
| All Accord, Prelude | 1992—95 | 12--17 | — |
| All Civic | 1992—95 | 1—2 | — |
| All MFI | 1985—91 | 0.5—1.5 | — |
| All TBI: Auxiliary Injector | 1998—91 | 12—15 | — |
| All TBI: Main Injector | 1988—91 | 11—17 | — |

Hyundai
1985--00

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------------------------------|---------|----------------------------|------------------------|
| All | 1989—95 | 13—16 | 68/20 |
| Scoupe | 1993—94 | 15.5—16.3 | 68/20 |
| All Others | 1993—94 | 13--16 | 68/20 |
| 1495cc, 1795cc, 1975cc | 1996—98 | 15.55—16.25 | 68/20 |
| 1997cc, 2351cc, 2493cc, 2972cc | 1996—00 | 13—16 | 68/20 |

Infiniti
1990--00

| Engine | Year | Resistance (W) | Temperature °F / °C |
|----------------|---------|----------------------------|------------------------|
| 2988cc, 4130cc | 1995—00 | 30.0 approx. | — |
| All | 1990—00 | 10—14 | — |

Isuzu
1985—00

| Engine | Year | Resistance (W) | Temperature °F / °C |
|---------------------------------|---------|----------------------------|------------------------|
| 1.6L | 1990 | 2 min. | — |
| 1.6L Impulse | 1991—92 | 1.2—2.2 | — |
| 1.6L Stylus | 1991-93 | 2 min. | — |
| 1471cc Turbo, 2.8L, 3.1L | 1987—94 | 20 min. | — |
| 1588cc, 1809cc, 2198cc, 3165cc, | 1989—00 | 40—80 | — |
| 2.6L | 1990—92 | 2—3 | — |
| 2.8L, 3.1L | 1990—94 | 1.2 min. | — |
| 3.2L Trooper | 1992—95 | 1.2—3.0 | — |
| 3.2L, 3.5L | 1996—98 | 11.8—12.6 | — |
| All | 1985—89 | 2—3 | — |
| Pickup, Amigo | 1991—94 | 13.8 | — |
| Rodeo | 1993—94 | 11.8—12.6 | — |

**Jeep
1985--00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|------------|---------|-------------------|------------------------|
| 2.5L | 1991—97 | 13.3—15.7 | 68/20 |
| 2.5L | 1998—00 | 10.8—13.2 | 68/20 |
| 4.0L | 1991—97 | 13.3—15.7 | 68/20 |
| 4.0L | 1988—89 | 16 | 68/20 |
| 4.0L | 1998—00 | 10.8—13.2 | 68/20 |
| 4.7L | 1998—00 | 10.8—13.2 | 68/20 |
| 5.2L, 5.9L | 1993—98 | 13.3—15.7 | 68/20 |
| 5.2L, 5.9L | 1998—00 | 10.8—13.2 | 68/20 |

**Lexus
1990—00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------|---------|-------------------|------------------------|
| All | 1990—00 | 13.4—14.2 | 68/20 |

**Mazda
1985—00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------------------------------|---------|-------------------|------------------------|
| 1308cc | 1985—87 | 1.5—3 | — |
| 1308cc | 1988-92 | 12—16 | — |
| 1308cc | 1993—95 | 13.8 approx. | 68/20 |
| 1489cc, 1597cc, 1839cc, 1844cc | 1986—87 | 1.5—3 | — |
| 1489cc, 1597cc, 1839cc, 1844cc | 1988—94 | 12—16 | — |
| 1489cc, 1597cc, 1839cc, 1844cc | 1995—00 | 13.8 approx. | 68/20 |
| 1991cc | 1993—99 | 12—16 | 68/20 |
| 1998cc, 2187cc | 1986—92 | 12—16 | — |
| 1998cc, 2187cc, Turbo | 1986—89 | 11--15 | — |
| 2255cc | 1995—98 | 13.8 approx. | 68/20 |
| 2497cc | 1993—95 | 13.8 approx. | 68/20 |
| 2497cc | 1996—00 | 12—16 | — |
| 2606cc | 1989—95 | 12—16 | — |
| 2954cc | 1989—98 | 12—16 | — |

Mitsubishi 1985—00

| Engine | Year | Resistance (W) | Temperature °F / °C |
|-----------------------|---------|----------------------------|------------------------|
| 1597cc, 2255cc, Turbo | 1985—86 | 2—3 | 68/20 |
| 1996cc | 1995—99 | 11—15 | 68/20 |
| 1997cc Turbo | 1989—99 | 2—3 | 68/20 |
| 2350cc Galant | 1985—86 | 1.5—2.5 | 68/20 |
| 2972cc Turbo | 1991—99 | 2—3 | 68/20 |
| 4—cyl. | 1988 | 2—3 | 68/20 |
| All | 1987 | 2—3 | 68/20 |
| All exc. Turbo | 1989—94 | 13—16 | 68/20 |
| Turbo | 1989—98 | 2—3 | 68/20 |
| V6 | 1988 | 15—17 | 68/20 |

Nissan 1985—00

| Engine | Year | Resistance (W) | Temperature °F / °C |
|--------------------|----------|----------------------------|------------------------|
| 1597cc | 1989—90 | 1—2 | — |
| 1597cc | 1991—94 | 10 approx. | — |
| 1597cc | 1995—98 | 10—14 | — |
| 1598cc DOHC | 1987 | 2.5 | — |
| 1809cc DOHC | 1988—89 | 10—15 | — |
| 1809cc Turbo | 1986—87 | 3 | — |
| 1809cc Turbo | 1988 | 2.5 | — |
| 1947cc | 1986 | 3 | — |
| 1947cc | 1987—89 | 2.5 | — |
| 1988cc | 1991—98 | 10—14 | — |
| 2389cc DOHC | 1991--94 | 11 | — |
| 2389cc SOHC MFI | 1989—94 | 10—15 | — |
| 2389cc TBI | 1986—89 | 1.5 | — |
| 2960cc MFI | 1986 | 3 | — |
| 2960cc MFI | 1987—88 | 1.5 | — |
| 2960cc MFI | 1989—98 | 10--14 | — |
| 2960cc TBI | 1986—89 | 1.5 | — |
| 2988cc, 3275cc | 1995—00 | 10—14 | — |
| 2389cc Trucks | 1995—97 | 10—15 | — |
| 2389cc exc. Trucks | 1995—00 | 10—14 | — |
| 2389cc Trucks | 1995—00 | 10—14 | — |

Air Regulator Control Valve

Controls fast idle on F1 engines.

| Engine | Year | Resistance (W) |
|------------------------------|---------|----------------------------|
| 1597cc, 1998cc | 1991—94 | 70—80 |
| 1809cc Turbo, 1947cc, 2960cc | 1985—89 | 30—50 |
| 2389cc 240SX | 1989—92 | 70—80 |
| 2960cc Pickup, 300ZX, Quest | 1990—94 | 70—80 |

**Oldsmobile
1985—00**

| Engine | Year | Resistance (Ω) | Temperature °F / °C |
|--------------------|-------------|---|--------------------------------|
| 2.0L, 2.5L | 1988—89 | 1.2 min. | — |
| 2.0L, 2.5L | 1990—92 | 1.6 min. | — |
| 2.2L | 1993—94 | 11.6—12.4 | 68/20 |
| 2.3L | 1988—93 | 1.9—2.15 | 140/60 |
| 2.3L | 1996—00 | 1.95—2.30 | — |
| 2.8L, 3.1L Cutlass | 1988—93 | 12—12.4* | — |
| 2.8L, 3.1L Others | 1988—93 | 8 min. | — |
| 3.0L | 1988 | 10 min. | — |
| 3.1L | 1994 | 11.8—12.6 | — |
| 3.3L | 1989—93 | 11.8—12.6* | 68/20 |
| 3.8L | 1991—93 | 14.5 | 68/20 |
| 3.8L | 1994 | 14.3—14.7 | — |
| 3.8L | 1996—99 | 11.4—12.6 | 68/20 |
| 3.8L (Code 3) | 1988 | 10 min. | — |
| 4.0L | 1995-99 | 11.8—12.6 | — |
| 5.0L, 5.7L | 1991—93 | 1.2 min. | — |

*Values for all injectors should be within a range of 0.8 ohms at room temperature.

**Pontiac
1985—00**

All models except Firefly, Sunburst & Trans Sport

| Engine | Year | Resistance (W) | Temperature °F / °C |
|------------------------|---------|----------------------------|------------------------|
| 1.8L TBI | 1985—86 | 1.2 min. | — |
| 1.8L Turbo | 1985—86 | 2.0 min. | — |
| 2.0L | 1985—86 | 1.2 min. | — |
| 2.0L MFI | 1992—94 | 5.9—7.3 | — |
| 2.0L TBI | 1987—89 | 1.2 min. | — |
| 2.0L TBI | 1990—91 | 1.6 min. | — |
| 2.0L Turbo | 1987—91 | 2.0 min. | — |
| 2.2L | 1995—97 | 11.4—12.6 | 68/20 |
| 2.2L | 1998—99 | 1.95—2.30 | 68/20 |
| 2.3L | 1988—94 | 1.9—2.15 | 140/60 |
| 2.5L | 1985—89 | 1.2 min. | — |
| 2.5L | 1990—92 | 1.6 min | — |
| 2.8L, 3.1L: Firebird | 1993 | 11.8—12.6 | — |
| 2.8L, 3.1L: Grand Prix | 1988—93 | 12-12.4 | — |
| 3.0L | 1988 | 10 min | — |
| 3.3L | 1991—93 | 11.8—12.6 | 68/20 |
| 3.4L | 1992—93 | 12—12.4 | — |
| 3.4L | 1994—97 | 11.8--12.6 | — |
| 3.8L | 1991—93 | 14.5 | 68/20 |
| 3.8L | 1994—95 | 14.3—14.7 | — |
| 3.8L | 1996—99 | 11.4—12.6 | — |
| 3.8L Code 3 | 1988 | 10 min. | — |
| 4.3L | 1985—98 | 1.4 min. | — |
| 5.0L TBI | 1988—92 | 1.2 min. | — |
| 5.0L, 5.7L MFI | 1985—92 | 10 min. | — |
| 5.0L, 5.7L MFI | 1993—99 | 11.8—12.6 | — |
| All Others | 1988—93 | 12 min. | — |
| All Others | 1994 | 11.8—12.6 | — |

**Porsche
1985—00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|---------------|-------------|---------------------------|--------------------------------|
| 2990cc | 1994 | 2—3 | — |
| 3598cc | 1994 | 2—3 | — |
| 3600cc | 1994 | 2—3 | — |
| 5397cc | 1994 | 2—3 | — |
| All | 1993—94 | 2—3 | — |
| 911 | 1996 | 16 | — |

**Saturn
1991—00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|---------------|-------------|---------------------------|--------------------------------|
| All | 1991—93 | 1—2 | — |
| TBI | 1991—94 | 1—2 | — |
| MFI | 1991—95 | 1.5—2.5 | — |
| MFI | 1996--98 | 11.5—12.5 | — |
| 2.2L | 2000 | 12—13 | — |
| 3.0L | 2000 | 11--13 | — |

**Toyota
1985—00**

| Engine | Year | Resistance (W) | Temperature °F / °C |
|-----------------------|-------------|---------------------------|--------------------------------|
| All | 1985 | 1.5—5 | — |
| All Others | 1987 | 1.5—3 | — |
| Camry | 1988 | 1.61 | — |
| Camry | 1989—94 | 13.8 | — |
| Camry | 1995—97 | 13.4—14.2 | — |
| Camry, Celica: 3S-FE | 1987 | 1.61 | — |
| Celica | 1988—93 | 13.8 | — |
| Celica | 1994—97 | 13.4—14.2 | — |
| Celica Turbo | 1988—93 | 2—4 | — |
| Celica, 3S-GE | 1986—87 | 13.8 | — |
| Corolla | 1988—94 | 13.8 | 68/20 |
| Corolla 4WD Wagon | 1988 | 11—17 | — |
| Cressida | 1988 | 1.5—3.0 | — |
| Cressida | 1989—92 | 13.8 | — |
| FX | 1988—89 | 13.8 | — |
| Landcruiser | 1988—92 | 13.8 | — |
| Landcruiser | 1993--94 | 12—161 | — |
| MR2 | 1988—93 | 13.8 | — |
| MR2—Supercharged | 1988—89 | 2.9 | — |
| MR2—Turbo | 1991—93 | 2—4 | — |
| Previa | 1992—94 | 13.4—14.2 | — |
| Supra | 1988 | 1.8—3.4 | — |
| Supra | 1989—92 | 13.8 | — |
| Supra Turbo | 1988—92 | 2—3.8 | 68/20 |
| Supra, 2945cc | 1986—1987 | 1.8—3.4 | — |
| Tercel, Paseo | 1990—94 | 13.8 | — |
| Trucks, T—100 | 1989—94 | 13.4—14.2 | — |
| Trucks: 4—cyl. | 1988 | 1—2.5 | — |
| Trucks: Turbo | 1988 | 1.1—2 | — |
| Trucks: V6 | 1988 | 1.2—2.2 | — |
| Van | 1988—89 | 1.1—2.2 | — |
| 4-Runner | 1989—00 | 13.4—14.2 | — |
| Camry, Avalon, Solara | 1989—94 | 13.8 | — |
| Camry, Avalon, Solara | 1995—00 | 13.4—14.2 | — |
| Celica | 1994—00 | 13.4—14.2 | — |
| Corolla 4WD Wagon | 1992—94 | 13.8 | 68/20 |
| Corolla 4WD Wagon | 1995—00 | 13.4--14.2 | — |
| Echo | 2000 | 13.4—14.2 | — |

Toyota (con't)

1985-00

| Engine / Model | Year | Resistance (Ω) | Temperature °F / °C |
|----------------|---------|----------------------------|------------------------|
| Landcruiser | 1995—99 | 13.4—14.2 | — |
| RAV4 | 1996—00 | 13.4—14.2 | — |
| Sienna | 1998—00 | 13.4—14.2 | — |
| Tacoma: 4-Cyl. | 1995—97 | 12—116 | — |
| Tacoma: 4-Cyl. | 1998—00 | 13.4—14.2 | — |
| Tacoma: V6 | 1995—00 | 13.4—14.2 | — |

COLD Start engines

| Engine / Model | Year | Resistance (Ω) | Temperature °F / °C |
|---|---------|----------------------------|------------------------|
| All Others | 1988—91 | 2—4 | — |
| All Others | 1986—87 | 3—5 | — |
| All, as equipped | 1992—95 | 2—4 | — |
| Celica, Camry, 2S-E | 1986 | 2—4 | — |
| Celica, Trucks | 1985 | 2—4 | — |
| Corolla & MR2 4A-GE, Van, Celica 3S-GE | 1988—89 | 3—5 | — |
| MR2, Supercharged, Camry, Landcruiser, Celica, Trucks, Supra | 1987 | 2—4 | — |
| Others | 1985 | 3—5 | — |
| Supra, 2954cc | 1986 | 2—4 | — |
| Supra, Truck, Camry, Celica | 1986 | 2—4 | — |
| Trucks | 1986 | 2—4 | — |

Volkswagen

1985—00

| Engine | Year | Resistance (Ω) | Temperature °F / °C |
|--------------------|----------|----------------------------|------------------------|
| 1780cc | 1990—91 | 15—20 | — |
| 1984cc | 1993—97 | 14—21.5 | — |
| 2451cc | 1993—95 | 15—20 | — |
| 2792cc | 1993—98 | 15—21.5 | — |
| Cabriolet, Corrado | 1991 | 15—20 | — |
| Vanagon | 1986--91 | 15—20 | — |

CONTROL PRESSURE REGULATOR

| Engine | Year | Resistance (Ω) |
|--------------------|----------|----------------------------|
| CIS | 1985—87 | 20—26 |
| Canada Code JN, UN | 1988--89 | 16—22 |
| 1987cc DOHC | 1990—94 | 15—25 |

Volvo

1985—00

| Engine | Year | Resistance (Ω) | Temperature °F / °C |
|--------|------|----------------------------|------------------------|
| 2435cc | 1993 | 15.9±0.35 | — |