

W - WAVEFORM (INJECTOR) - 1.6L 4A-FE MFI VIN [A]

1993 Toyota Celica

1987-1996 TOYOTA FUEL INJECTOR WAVEFORM
1.6L "4A-FE" DOHC 16-Valve In-Line 4 MFI VIN [A]

1988.5-1989
Toyota: Corolla

1990-1993
Toyota: Celica, Corolla

1994-1996
Toyota: Corolla

NOTES

NOTES

- * For a tutorial on how to interpret injector waveforms, see WAVEFORMS - INJECTOR PATTERN TUTORIAL found in the GENERAL/GENERAL INFORMATION area.
- * To see a list of the other year/make/models these waveform(s) apply to, go to the top of the article.

SOURCE OF WAVEFORM

The Source Vehicle Information Table describes the vehicle the waveform came from. It is not needed for interpretation and is included for reference only.

The waveform contains a note that links it to its related source table.

SOURCE VEHICLE INFORMATION TABLE

Application	Specification
Year	1990
Make	Toyota
Model	Corolla
Engine	1.6L DOHC 16-Valve In-Line 4 4A-FE VIN [A]
Ignition Type	Distributor w/Magnetic Pickup
Trans Type	Manual Transaxle
Mileage	14,916
VIN Code	- - - A E - - A - L - - - - - -

VOLTAGE WAVEFORM

Quick Hyperlinks

- * See Fig. 1 for the waveform.
- * See the WAVEFORM DATA TABLE for supporting data.

Introduction

The Waveform Data Table is listed first. This table contains supporting information about the waveform illustration and should be used in conjunction with it.

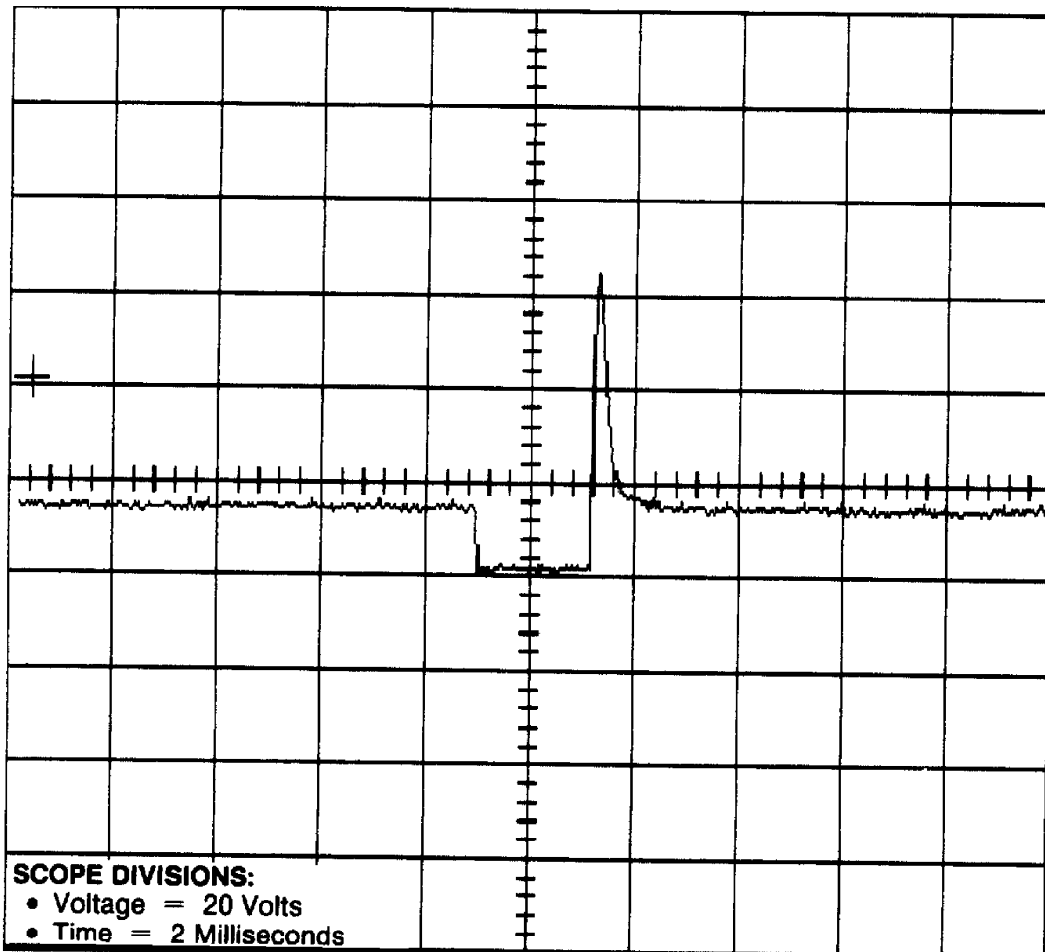
The waveform illustration follows after the table.

NOTE: See the SOURCE VEHICLE INFORMATION TABLE in this article for

a description of the vehicle the waveform came from.

WAVEFORM DATA TABLE

Application	Specification
Pattern Type	Voltage
Voltage Base	20 Volts
Time Base	2 Milliseconds
Oscilloscope Used	Tektronix 222A
Pattern Represents	Bank Of Injectors
Injector Driver Type	Voltage Controlled
Side of Circuit That Driver Switches	Ground
Injector On-Time Shown	2.2 mS
Conditions	Unknown
Cursors On-Screen	No
Cursors Are Measuring	N/A
Status	Known Good Pattern



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Fig. 1: Injector Waveform (Voltage) - Known Good