

# Chapter 14

## Rover MEMS - MPI/SPI

### Contents

<b>Overview of system operation</b>		
Catalytic converter and emission control	6	Fuel pressure
Control functions	2	Fuel pump and circuit
Fuel injection	5	Inertia switch
Ignition	4	Knock sensor (KS)
Introduction	1	Manifold heater (SPI engines only)
Primary trigger	3	MAP sensor
<b>Adjustments</b>		Multi-function unit (MFL)
Adjustment pre-conditions	7	Oxygen sensor (OS)
Idle adjustments	10	Phase sensor (PS)
Ignition timing checks	9	Primary ignition
Throttle adjustments	8	Primary trigger - crank angle sensor (CAS)
<b>System sensor and actuator tests</b>		Steeper motor
Air temperature sensor (ATS)	18	System relays
Carbon filter solenoid valve (CFSV)	31	Throttle potentiometer sensor (TPS)
Coolant temperature sensor (CTS)	19	Throttle switch (TS)
ECM voltage supplies and earths	24	<b>Pin table - typical 36-pin and 18-pin</b>
Fuel injector operation (MPI)	14	<b>Fault codes</b>
Fuel injector operation (SPI)	15	Obtaining fault codes
		29
		29
		25
		13
		23
		17
		27
		30
		16
		12
		11
		22
		26
		21
		20
		32

### Specifications

#### Vehicle

##### Rover MEMS MPI

114 1.4 GTi 16V cat	1991 to 1994	850 ± 50	0.75 max
214 1.4 DOHC 16V cat	1992 to 1996	875 ± 50	0.5 max
220 2.0 DOHC 16V cat	1991 to 1994	850 ± 50	0.5 to 2.0
220 2.0 DOHC 16V cat	1992 to 1996	850 ± 50	0.5 to 2.0
220 2.0 DOHC 16V turbo cat	1992 to 1996	850 ± 50	0.5 to 2.0
414 1.4 DOHC 16V cat	1992 to 1996	875 ± 50	0.5 max
414 1.4 DOHC 16V	1995 to 1996	875 ± 50	0.5 max
416 1.6 DOHC 16V	1995 to 1996	875 ± 50	0.5 max
420 2.0 DOHC 16V cat	1991 to 1994	850 ± 50	0.5 to 2.0
420 2.0 DOHC 16V cat	1992 to 1996	850 ± 50	0.5 to 2.0
420 2.0 DOHC 16V turbo cat	1992 to 1996	850 ± 50	0.5 to 2.0
520 2.0 DOHC 16V turbo	1994 to 1996	850 ± 50	0.3 max
520 2.0 DOHC 16V cat	1991 to 1996	850 ± 50	0.5 to 2.0
520 2.0 DOHC 16V turbo cat	1992 to 1996	850 ± 50	0.5 to 2.0
Metro 1.4 GTi DOHC 16V cat	1991 to 1994	850 ± 50	0.5 to 2.0
MGF 1.6 DOHC 16V	1995 to 1996	875 ± 50	0.3 max
MGF 1.8 VVC DOHC 16V	1995 to 1996	875 ± 50	0.3 max
Montego 2.0 EFI	1989 to 1992	750 ± 50	2.0 to 2.5
Montego 2.0 EFI AT	1989 to 1992	750 ± 50	2.0 to 2.5

##### Rover MEMS SPI

Metro 1.4 16V	1990 to 1992	850 ± 50	0.5 to 2.0
Metro 1.4 16V cat	1990 to 1992	850 ± 50	0.5 to 2.0
Metro 1.4 16V cat	1993 to 1997	850 ± 50	0.5 to 2.0
Mini Cooper 1.3i MT	1991 to 1992	850 ± 50	0.5 to 2.0
Mini Cooper 1.3i AT	1991 to 1992	850 ± 50	0.5 to 2.0
Mini Cooper 1.3i Cabriolet	1993 to 1997	850 ± 50	0.5 to 2.0
Mini 1.3	1995 to 1997	850 ± 50	0.4 max
111	1995 to 1997	850 ± 50	0.4 max
114	1995 to 1997	875 ± 50	0.4 max
114 1.4i & Cabrio cat	1991 to 1994	875 ± 50	0.75 max
114 1.4i 16V cat	1991 to 1993	875 ± 50	0.75 max
214/414 non cat	1989 to 1992	850 ± 50	0.5 to 2.0
214/414 cat	1990 to 1992	850 ± 50	0.5 to 2.0
214 1.4 16V cat	1992 to 1996	850 ± 50	0.5 to 2.0
414 1.4 16V cat	1992 to 1996	850 ± 50	0.5 to 2.0
414 1.4 16V	1995 to 1996	850 ± 50	0.5 to 2.0

#### Year

#### Idle speed

#### CO%

1991 to 1994	850 ± 50	0.75 max
1992 to 1996	875 ± 50	0.5 max
1991 to 1994	850 ± 50	0.5 to 2.0
1992 to 1996	850 ± 50	0.5 to 2.0
1992 to 1996	850 ± 50	0.5 to 2.0
1992 to 1996	875 ± 50	0.5 max
1995 to 1996	875 ± 50	0.5 max
1995 to 1996	875 ± 50	0.5 max
1991 to 1994	850 ± 50	0.5 to 2.0
1992 to 1996	850 ± 50	0.5 to 2.0
1992 to 1996	850 ± 50	0.5 to 2.0
1994 to 1996	850 ± 50	0.3 max
1991 to 1996	850 ± 50	0.5 to 2.0
1992 to 1996	850 ± 50	0.5 to 2.0
1991 to 1994	850 ± 50	0.5 to 2.0
1995 to 1996	875 ± 50	0.3 max
1995 to 1996	875 ± 50	0.3 max
1989 to 1992	750 ± 50	2.0 to 2.5
1989 to 1992	750 ± 50	2.0 to 2.5
1990 to 1992	850 ± 50	0.5 to 2.0
1990 to 1992	850 ± 50	0.5 to 2.0
1993 to 1997	850 ± 50	0.5 to 2.0
1991 to 1992	850 ± 50	0.5 to 2.0
1991 to 1992	850 ± 50	0.5 to 2.0
1993 to 1997	850 ± 50	0.5 to 2.0
1995 to 1997	850 ± 50	0.4 max
1995 to 1997	850 ± 50	0.4 max
1995 to 1997	875 ± 50	0.4 max
1991 to 1994	875 ± 50	0.75 max
1991 to 1993	875 ± 50	0.75 max
1989 to 1992	850 ± 50	0.5 to 2.0
1990 to 1992	850 ± 50	0.5 to 2.0
1992 to 1996	850 ± 50	0.5 to 2.0
1992 to 1996	850 ± 50	0.5 to 2.0
1995 to 1996	850 ± 50	0.5 to 2.0

# Rover Mems Spi Manual

**Ying Liu**



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## **Table of Contents Rover Mems Spi Manual**

1. Understanding the eBook Rover Mems Spi Manual
  - The Rise of Digital Reading Rover Mems Spi Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Rover Mems Spi Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Rover Mems Spi Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Rover Mems Spi Manual
  - Personalized Recommendations

- Rover Mems Spi Manual User Reviews and Ratings
- Rover Mems Spi Manual and Bestseller Lists
- 5. Accessing Rover Mems Spi Manual Free and Paid eBooks
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  - Rover Mems Spi Manual eBook Subscription Services
  - Rover Mems Spi Manual Budget-Friendly Options
- 6. Navigating Rover Mems Spi Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Rover Mems Spi Manual Compatibility with Devices
  - Rover Mems Spi Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rover Mems Spi Manual
  - Highlighting and Note-Taking Rover Mems Spi Manual
  - Interactive Elements Rover Mems Spi Manual
- 8. Staying Engaged with Rover Mems Spi Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rover Mems Spi Manual
- 9. Balancing eBooks and Physical Books Rover Mems Spi Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rover Mems Spi Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Rover Mems Spi Manual
  - Setting Reading Goals Rover Mems Spi Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Rover Mems Spi Manual
  - Fact-Checking eBook Content of Rover Mems Spi Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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web identify the missing coefficient in the following nuclear reaction  $^{235}_{92}\text{U} + ^1_0\text{n} \rightarrow ^{139}_{56}\text{Ba} + ^{94}_{36}\text{Kr}$

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web there are two main rules to remember when balancing nuclear equations 1 the total of the superscripts mass numbers in the reactants and products must be the same 2 the total of the subscripts atomic numbers in the reactants and products must be the same p a r t a what is the value of in the following nuclear reaction

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web we can write a balanced nuclear equation for this reaction as let's do a practice example identify the product x by writing a balanced nuclear equation  $137^{55}\text{Cs} \rightarrow 137^{56}\text{Ba} + x$  because the mass number is the same on both sides of the equation x must have a mass number of 0

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web set up and balance a nuclear reaction equation to find the mass number and atomic number of the second nuclide remember that the two  $^1_0\text{n}$  contribute

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web in balancing a nuclear equation it is important to remember that the sum of all the mass numbers and atomic numbers given on the upper left and lower left side of the element symbol respectively must be equal for both sides of the equation

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web nuclear reactions are going on all around us using correctly balanced equations is important when trying to understand nuclear reactions all equations need to be balanced to conform to two conservation laws the mass number is conserved and the electrical charge of the nucleus is conserved