

THE TOOL COMPANY

# NISSAN FAULT CODE READER

■ STOCK No.69058

■ PART No.FCR-NISSAN

## • INSTRUCTIONS •

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.



## GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the product with which it is enclosed and should be kept with it for future references.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the tool itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



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## GUARANTEE

Draper Tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone: (023) 8026 6355.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.



# SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock No. .... 69058  
Part No. .... FCR-NISSAN  
Vehicle ..... Nissan

**SUITABLE FOR:**

Petrol Vehicles with engine management/injection systems

NISSAN

- Micra 1.0/1.3, GA16DS/ GA16DE.
- Sunny 1.4i/1.6i/1.8, GA16i.
- Almera 1.4i/1.6i, CA14/16/ 18DE.
- 200SX, CG13DE/CG10DE.
- 200SX, SR20DE/SA18DET/ SR20DET.



## SAFETY WARNING

Please read the following instructions carefully, failure to do so could lead to personal injury or damage to the vehicle.

1. Avoid a dangerous environment. Do not expose the fault code reader to rain, ensure the work area is well lit. Always store the code reader in its case when it is not in use.
2. When using this code reader on a vehicle it may involve carrying out tests with the engine running and the following points should be followed to avoid injury.
  - a) Wear proper clothing - do not wear loose clothing, neckties (rings, wrist watches) which could catch in moving parts. Non slip footwear is recommended. Wear a protective hair covering to contain long hair. Roll long sleeves above the elbow.
  - b) Do not over-reach - keep proper footing and balance at all times.
3. Never leave the code reader unattended when switched ON in a testing mode or when the code reader is carrying out test procedures. Always switch the code reader and vehicle's ignition off.
4. Always switch the engine off before leaving the vehicle.
5. Ensure the code reader is secure before starting any testing.
6. Check that all cables are kept clear of hot/moving parts.
7. Only run the engine in a well-ventilated non confined area. Do not inhale exhaust gases, as they are dangerous and can be fatal.
8. If working on a vehicle that requires jacking up, ensure the vehicle is well supported with suitable axle stands on a level surface and that the wheels are chocked.
9. When starting the vehicle ensure it is in neutral with the handbrake applied. Automatics, ensure the gearbox is in neutral/park and the parking brake is applied.



## OPERATION AND USE

### INTRODUCTION:

The Engine Control Unit (ECU) fitted to the majority of Nissan vehicles are Nissan ECCS.

Each ECU system has a self test facility which continuously measures the signals from certain sensors and actuators around the engine. It compares the reading to a group of pre-set values, and determines if a fault is present. This fault will then remain logged in the memory, ready to be examined and corrected.

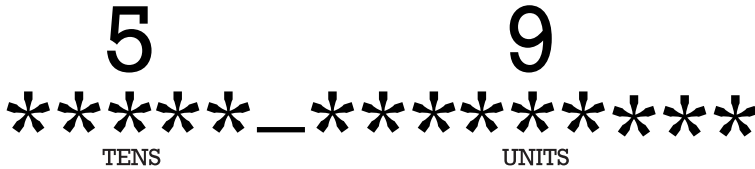
In Nissan systems, the control module emits a 2 digit fault code for retrieval with the fault code reader.

The 14 pin self diagnosis connector is located under the dashboard near the fuse box.

# OPERATION AND USE

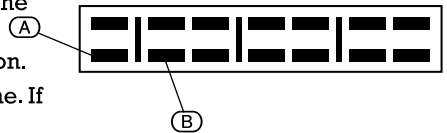
## UNDERSTANDING A FAULT CODE:

The two digit fault code will be represented by two series of one second flashes, separated by a short pause. The first series indicate the tens and the second indicates the units. For example;



## READING FAULT CODES:

1. Ensure the vehicle ignition is in the 'OFF' position. Switch the fault code reader to the 'O' position. Securely connect the fault code reader to the self diagnosis connector.
2. Insert one of the flat connectors into (A) and the other into (B).
3. Switch the fault code reader to the 'ON' position.
4. Switch ignition 'ON', but do not start the engine. If present a fault code will be transmitted on the vehicle's engine check light. Follow steps 1 to 3 to retrieve further codes until the first one is repeated. Switch off the Fault Code Reader.
5. To finish the test, switch off the vehicles ignition and disconnect the fault code reader.
6. If any fault codes are present refer to page 6 for the diagnosis table.



## ERASING THE FAULT CODES:

1. Once all the required repairs have been made, the fault codes will no longer be present.
2. Test to ensure all the codes are cleared.
3. Road test the vehicle and once again test to ensure no codes have been re-introduced.

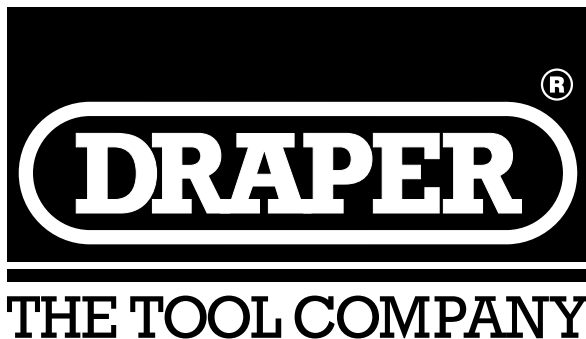
# FAULT CODE TABLE

| FAULT CODE READING | CODE DESCRIPTION  |
|--------------------|---|
| 11                 | Crank angle sensor or its circuit fault   |
| 12                 | Mass air flow or its circuit fault  |
| 13                 | Engine temperature sensor or its circuit fault  |
| 14                 | 1. Vehicle speed signal.<br>2. Road speed sensor or its circuit fault                                       |
| 15                 | Mixture lean  |
| 16                 | Anti-skid control signal bad  |
| 21                 | 1. Primary ignition signal.<br>2. IAC valve or its circuit fault. No ignition signal from ECM               |
| 22                 | Fuel pump signal  |
| 23                 | 1. Throttle switch.<br>2. TPS (CTP) or its circuit fault.   |
| 24                 | 1. Park/neutral switch.<br>2. Auto transmission start inhibit switch.<br>3. TPS (WOT) or its circuit fault. |
| 25                 | Idle speed control valve or its circuit fault   |
| 26                 | Exhaust booster pressure sensor fault   |
| 28                 | Cooling fan control circuit fault   |
| 31                 | 1. Air condition fault.<br>2. Fuel injection control module fault   |
| 32                 | 1. Starter control signal.<br>2. EGR solenoid valve or its circuit fault                                    |
| 33                 | Lambda sensor   |
| 34                 | Knock sensor  |
| 35                 | EGR temperature sensor or its circuit fault   |
| 36                 | EGR pressure regulating valve fault   |
| 37                 | O <sub>2</sub> sensor signal correct circuit fault  |
| 41                 | Air temperature sensor  |
| 42                 | Fuel temperature sensor or throttle switch  |
| 43                 | Throttle position sensor or its circuit fault, ACF solenoid valve fault, injector signal bad                |
| 44                 | No fault found  |
| 45                 | Injector leakage mixture ratio too rich   |
| 46                 | Sub-TPS or its circuit fault  |
| 51                 | Injector circuit or signal fault  |
| 52                 | EFI main relay fault  |
| 53                 | O <sub>2</sub> sensor fault   |
| 54                 | 1. Automatic transmission signal<br>2. A/T control circuit fault  |
| 63                 | Ignition circuit, Cyl.6   |
| 64                 | Ignition circuit, Cyl.5   |
| 65                 | Ignition circuit, Cyl.4   |
| 66                 | Ignition circuit, Cyl.3   |
| 67                 | Ignition circuit, Cyl.2   |
| 68                 | Ignition circuit, Cyl.1   |
| 71                 | Ignition circuit Multi-Cylinder   |
| 72                 | EGR purger fault  |



# FAULT CODE TABLE

| FAULT CODE READING | CODE DESCRIPTION                       |
|--------------------|--|
| 73                 | EGR purger fault                       |
| 76                 | EFI control circuit fault (Right Side) |
| 77                 | Rear O2 sensor fault                   |
| 82                 | CKP sensor or control circuit fault    |
| 84                 | A/T control circuit fault              |
| 86                 | EFI control circuit fault              |
| 87                 | ACF control solenoid valve fault       |
| 91                 | FR O2 sensor fault                     |
| 95                 | CKP sensor or control circuit fault    |
| 98                 | ECT sensor or circuit fault            |



**DRAPER TOOLS LIMITED,**

Hursley Road, Chandler's Ford, Eastleigh, Hants. SO53 1YF. U.K.

Helpline: (023) 8049 4344.

Sales Desk: (023) 8049 4333.

General Enquiries: (023) 8026 6355.

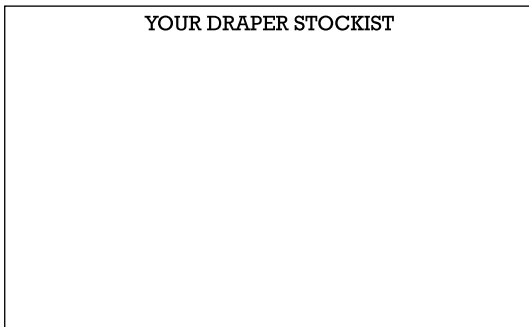
Fax: (023) 8026 0784.



<http://www.draper.co.uk>

e-mail: [sales@draper.co.uk](mailto:sales@draper.co.uk)

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