

**Technical Note 3202A** 

XC0X - XB0X - XA0X

# New generation instrument panel

For parts not dealt with in this Technical Note, refer to MR 312, 325 and 337.

77 11 202 649 NOVEMBER 2010 EDITION ANGLAISE

"The repair procedures given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The procedures may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which its vehicles are constructed".

All copyrights reserved by Renault.

Copying or translating, in part or in full, of this document or use of the service part reference numbering system is prohibited without the prior written authority of RENAULT.

# Contents

		Page
83A	INSTRUMENT PANEL ALL TYPES (KANGOO is dealt with in this section)	
	New generation instrument panel Fault finding – Introduction	83A - 3
	Instrument panel with or without trip computer Fault finding – Customer complaints Fault finding – Fault finding charts	83A - 5 83A - 8
	CLIO II – MEGANE	
	Instrument panel with trip computer Fault finding – Customer complaints Fault finding – Fault finding charts	83A - 28 83A - 29

# New generation instrument panel



### **FAULT FINDING - INTRODUCTION**

To launch the instrument panel **FAULT FINDING PROCEDURE**, press and hold the odometer reset button for at least 5 seconds when the ignition is switched on or press the trip computer scroll button at the end of the wiper stalk and switch on the ignition.

THIS FAULT FINDING PROCEDURE DOES NOT CONCERN INSTRUMENT PANELS WITHOUT A REV COUNTER.

### **WARNING**

When carrying out checks using a multimeter, avoid using a contact tip on the connectors the size of which could damage the clips and result in poor contact.

# Instrument panel without rev counter

KANGOO - CLIO II

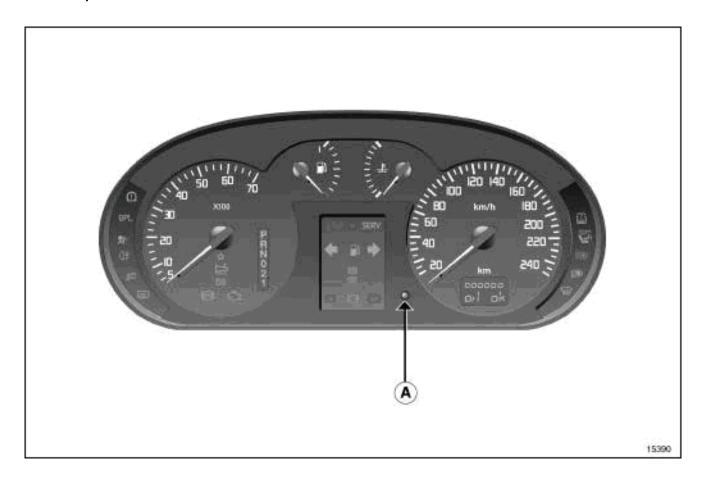


New generation instrument panel

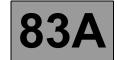


Instrument panel with test mode

**KANGOO - CLIO II - MEGANE** 

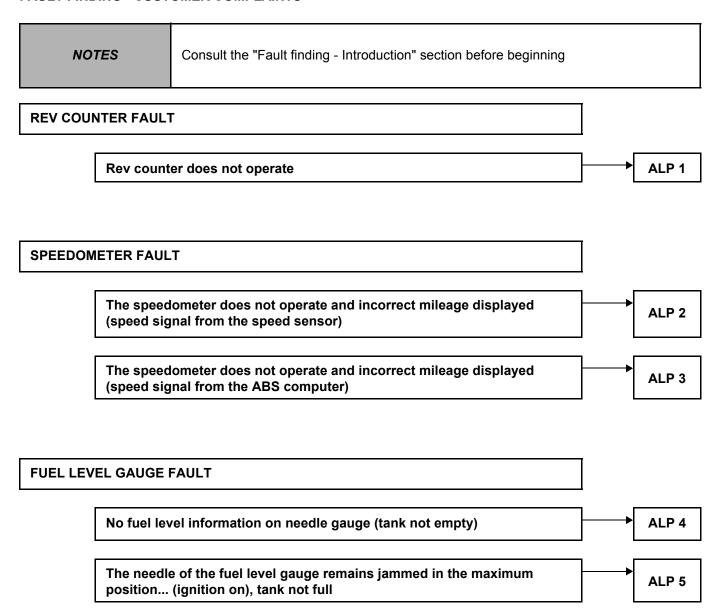


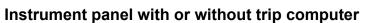
A odometer reset button



# Instrument panel with or without trip computer

### **FAULT FINDING - CUSTOMER COMPLAINTS**

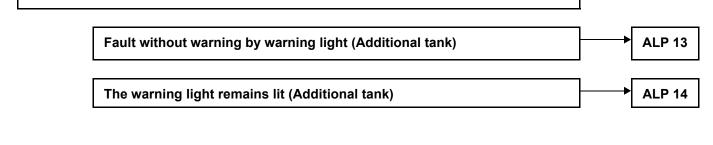


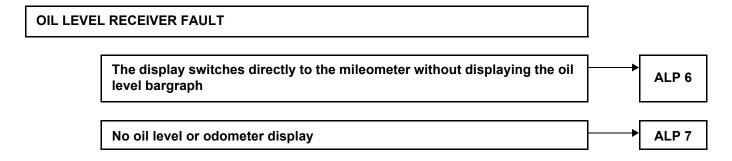


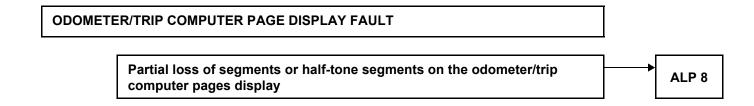


### **FAULT FINDING - CUSTOMER COMPLAINTS**

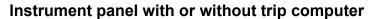
NOTES	Consult the "Fault finding - Introduction" section before beginning
FUEL LEVEL GAUGE	FAULT







83A - 6





### **FAULT FINDING - CUSTOMER COMPLAINTS**

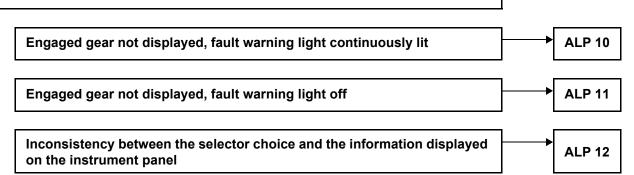
NOTES	Consult the "Fault finding - Introduction" section before beginning
-------	---

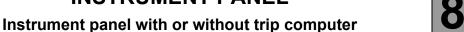
### **COOLANT TEMPERATURE RECEIVER FAULT**

Coolant temperature needle jammed at minimum or maximum ALP 9

For vehicles equipped with an automatic transmission with or without a trip computer

# **AUTOMATIC TRANSMISSION OPTION DISPLAY FAULT**





# 83A

### **FAULT FINDING - FAULT FINDING CHARTS**

# **REV COUNTER DOES NOT OPERATE** ALP1 Move on to the fault finding procedure: press and hold the odometer reset button for at **NOTES** least 5 seconds when the ignition is switched on, or press the trip computer scroll button and switch on the ignition. Check the movement of the needle from 1000 in 1000 rpm increments. OK not OK Replace the instrument panel. Check the continuity and the insulation of the rev counter signal wire between the injection computer and the instrument panel. Repair. not OK OK Check the condition of the instrument panel 15-track connector and its pins. no Is the connector in good condition? yes Carry out fault finding on the injection computer in order to check the rev counter Replace the computer. signal. no Is the signal correct? yes Replace the instrument panel.

AFTER REPAIR

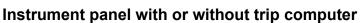


# Instrument panel with or without trip computer

### **FAULT FINDING - FAULT FINDING CHARTS**

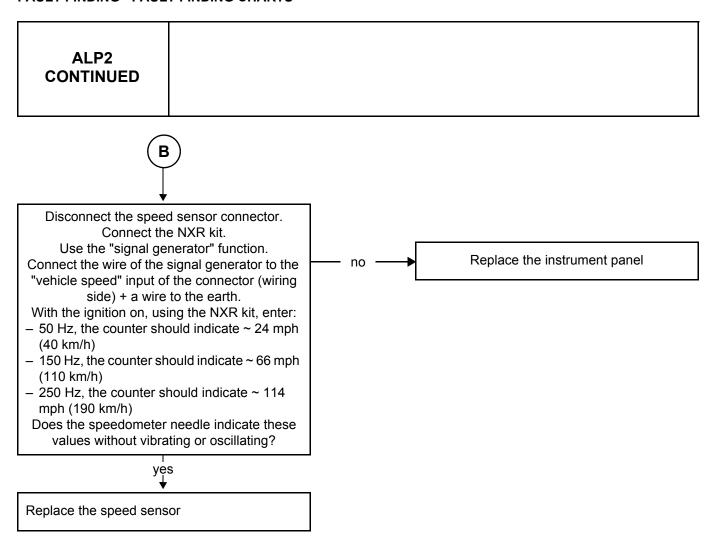
# SPEEDOMETER DOES NOT OPERATE AND INCORRECT ALP2 MILEAGE DISPLAYED (Speed signal from the speed sensor) If the instrument panel does not have a rev counter, go directly to \frac{1}{2} , otherwise move on to the fault finding procedure (see the Fault finding - Introduction section for **NOTES** information on how to perform the procedure) Check the movement of the counter not OK -Replace the instrument panel. needle from 40 in 40 km/h increments. OK Check: - the connection of the sensor cable on the gearbox, Repair. not OK - the correct connection of the connector on the sensor, - the + after ignition feed on track A and earth on track B on the connector of the sensor. OK Check the continuity and the insulation of not OK the wiring between the speed sensor and Repair. the instrument panel. OK Check the condition of the instrument not OK -Repair. panel connectors and its pins.

AFTER REPAIR



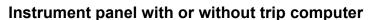


### **FAULT FINDING - FAULT FINDING CHARTS**



**NOTE**: clear any faults in the injection computer generated by the previous operations.

AFTER REPAIR





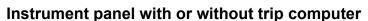
### **FAULT FINDING - FAULT FINDING CHARTS**

# SPEEDOMETER DOES NOT OPERATE AND INCORRECT ALP 3 MILEAGE DISPLAYED (Speed signal from the ABS computer) If the instrument panel does not have a rev counter, go directly to , otherwise move on to the fault finding procedure (see the Fault finding - Introduction section for **NOTES** information on how to perform the procedure) Check the movement of the counter needle from 40 in 40 km/h increments. ΟK not OK Replace the instrument panel Check the connection of all of the ABS not OK computer connectors. Repair. Are the connections correct? OK Check the continuity and the insulation of no the speed signal wire between the Repair. computer and the instrument panel. Is the wiring harness sound? yes Check the condition of the instrument not OK -Repair. panel connectors and its pins. OK Carry out fault finding on the ABS

**NOTE**: clear any faults in the injection computer generated by the previous operations.

AFTER REPAIR

computer. Replace it if it is faulty.





### **FAULT FINDING - FAULT FINDING CHARTS**

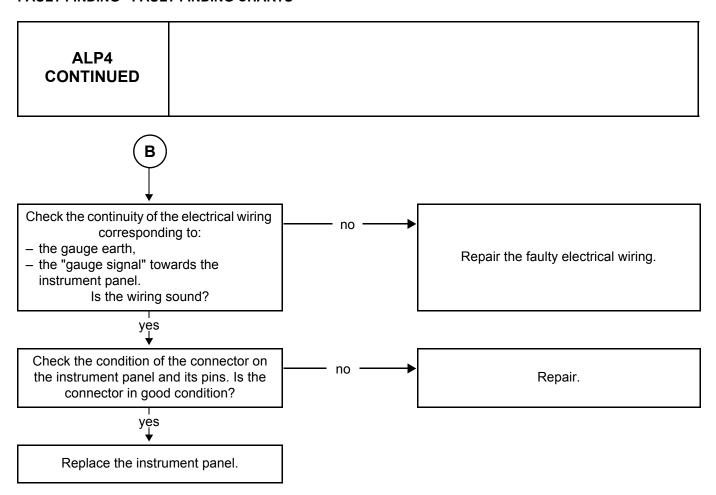
# NO FUEL LEVEL SIGNAL ON NEEDLE GAUGE ALP4 (tank not empty) If the instrument panel does not have a rev counter, go directly to otherwise move on to the fault finding procedure (see the Fault finding - Introduction section for **NOTES** information on how to perform the procedure) Check the movement of the needle by 1/4 of the fuel gauge scale. OK not OK Replace the instrument panel Check the connection of the gauge no connector. Connect the connector correctly. Is the connector connected correctly? yes With the gauge connector disconnected yes and ignition on, shunt the tracks of this connector corresponding to the gauge earth (track A2) and to the "gauge signal" Check the condition of the fuel gauge and towards the instrument panel (wiring side replace it if necessary. of the gauge connector - 2 tracks). Switch the + after ignition off and then on again. Does the gauge needle reach the maximum level?

AFTER REPAIR

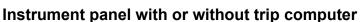




# **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR





### **FAULT FINDING - FAULT FINDING CHARTS**

ALP 5

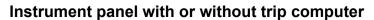
THE NEEDLE OF THE FUEL LEVEL GAUGE REMAINS JAMMED IN THE MAXIMUM POSITION... (IGNITION ON), TANK NOT FULL

**NOTES** 

If the instrument panel does not have a rev counter, go directly to (A), otherwise move on to the fault finding procedure (see the Fault finding - Introduction section for information on how to perform the procedure)

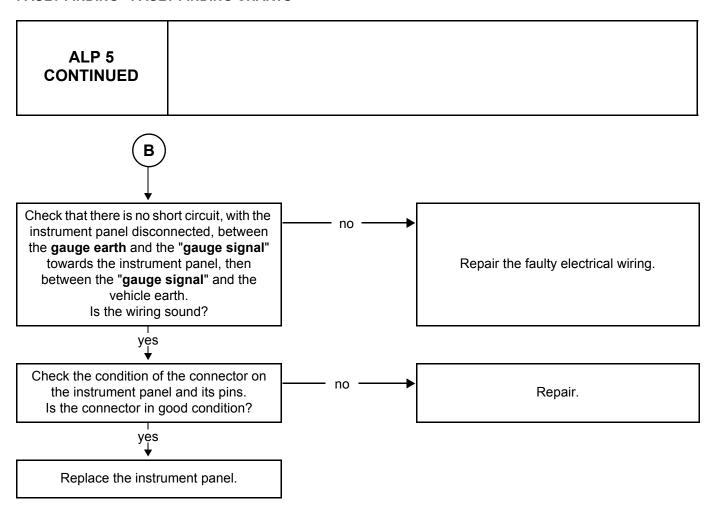
Check the movement of the needle by 1/4 of the fuel gauge scale. OK not OK Replace the instrument panel Check the connection of the gauge no connector and the condition of its pins. Connect the connector correctly. Is the connector connected correctly? yes With the ignition on, disconnect the fuel yes gauge connector. Does the needle shift to Check the condition of the fuel gauge and the minimum position after the + after replace it if necessary. ignition feed is switched off and back on again?

AFTER REPAIR

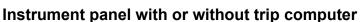




### **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR





### **FAULT FINDING - FAULT FINDING CHARTS**

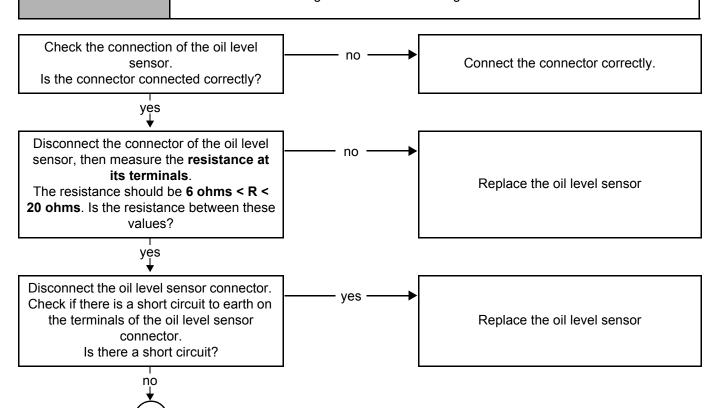
# ALP6

# THE DISPLAY SWITCHES DIRECTLY TO THE MILEOMETER WITHOUT DISPLAYING THE OIL LEVEL BARGRAPH

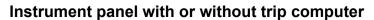
### **NOTES**

Before any operation, check the battery voltage when the vehicle is started. If it is less than or equal to 7 V, restore the battery voltage.

Take care not to damage the connectors during the checks.

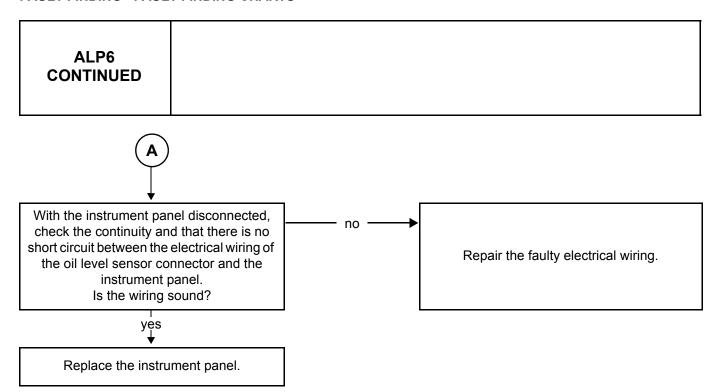


AFTER REPAIR

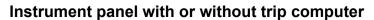




# **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR





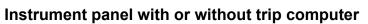
### **FAULT FINDING - FAULT FINDING CHARTS**

# NO OIL LEVEL OR ODOMETER DISPLAY ALP7 If the instrument panel does not have a rev counter, go directly to \frac{1}{2} , otherwise move on to the fault finding procedure (see the Fault finding - Introduction section for **NOTES** information on how to perform the procedure) Check for the presence of all the no · bargraphs on the odometer / oil level / Replace the instrument panel. trip computer pages screen. Are all the bargraphs displayed? yes Check that the warning lights illuminate no when the ignition is switched on, otherwise check all of the supplies (+ after ignition Repair. feed, + battery feed). Are the supplies present? yes Replace the instrument panel.

AFTER REPAIR

**ALL TYPES** 

# **INSTRUMENT PANEL**



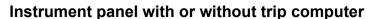


# **FAULT FINDING - FAULT FINDING CHARTS**

ALP8	PARTIAL LOSS OF SEGMENTS OR HALF-TONE SEGMENTS ON THE ODOMETER/TRIP COMPUTER PAGES DISPLAY
NOTES	None

Replace the instrument panel.

AFTER REPAIR





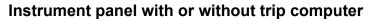
### **FAULT FINDING - FAULT FINDING CHARTS**

# COOLANT TEMPERATURE NEEDLE JAMMED AT THE MINIMUM ALP 9 **OR MAXIMUM** If the instrument panel does not have a rev counter, go directly to , otherwise move on to the fault finding procedure (see the Fault finding - Introduction section for **NOTES** information on how to perform the procedure) Check the movement of the needle by 1/4 of the coolant temperature scale. OK not OK Replace the instrument panel Check the connection of the coolant no temperature sensor connector. Connect the connector correctly. Is the connector connected? yes With the ignition on, connect the no "temperature signal" output of the sensor to the earth and check that the needle indicates the maximum position. Leave the ignition on and disconnect the coolant temperature sensor and check that the needle indicates the minimum position. Does the needle indicate the maximum position and the minimum position during these tests?

AFTER REPAIR

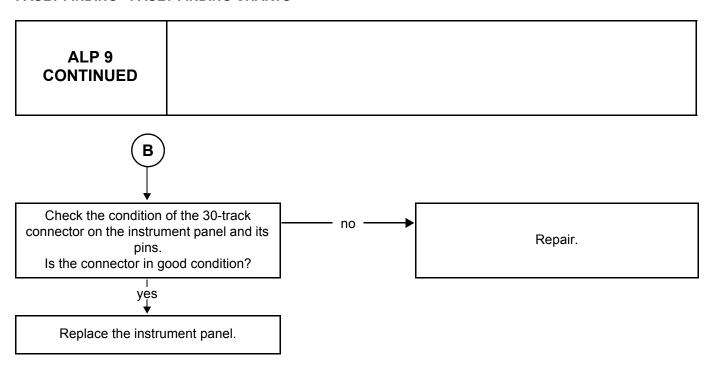
yes

Replace the coolant temperature sensor.



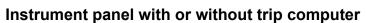


# **FAULT FINDING - FAULT FINDING CHARTS**



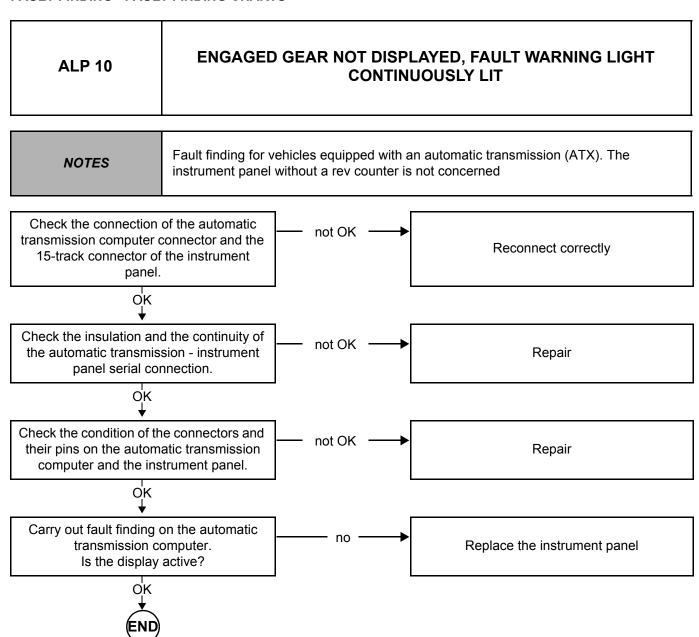
**NOTE**: clear any faults in the injection computer generated by the previous operations.

AFTER REPAIR



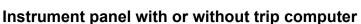


### **FAULT FINDING - FAULT FINDING CHARTS**



**NOTE**: clear any faults in the injection computer generated by the previous operations.

AFTER REPAIR



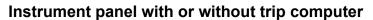


### **FAULT FINDING - FAULT FINDING CHARTS**

# **ALP 11** ENGAGED GEAR NOT DISPLAED, FAULT WARNING LIGHT OFF Fault finding for vehicles equipped with an automatic transmission (ATX). The **NOTES** instrument panel without a rev counter is not concerned Activate the selector, respecting a pause Check the selector / multifunction switch no at each position. Is the display active? assembly. yes Check the connection of the automatic not OK transmission computer connector and the Reconnect correctly 15-track connector of the instrument panel OK Check the insulation and the continuity of not OK the automatic transmission - instrument Repair panel serial connection. OK Check the condition of the connectors and not OK their pins on the automatic transmission Repair computer and the instrument panel. ΟK Carry out fault finding on the automatic not OK transmission computer. Replace the instrument panel Is the display active?

**NOTE**: clear any faults in the injection computer generated by the previous operations.

AFTER REPAIR





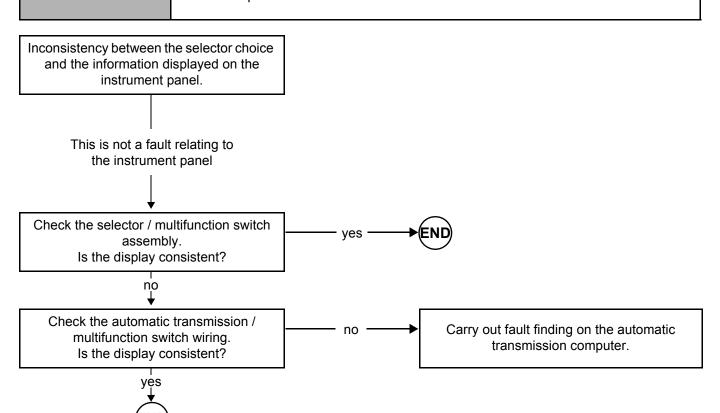
### **FAULT FINDING - FAULT FINDING CHARTS**

# **ALP 12**

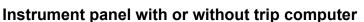
# INCONSISTENCY BETWEEN SELECTOR CHOICE AND SIGNAL DISPLAYED ON THE INSTRUMENT PANEL

### **NOTES**

Fault finding for vehicles equipped with an automatic transmission (ATX). The instrument panel without a rev counter is not concerned



AFTER REPAIR

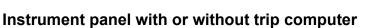




### **FAULT FINDING - FAULT FINDING CHARTS**

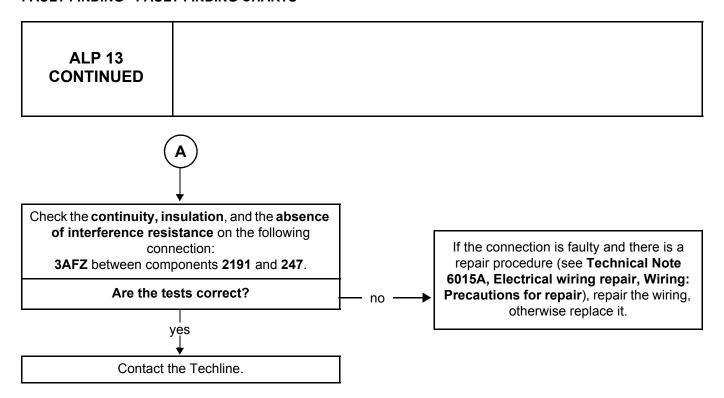
# FAULT WITHOUT WARNING BY WARNING LIGHT (ADDITIONAL **ALP 13** TANK) **NOTES** See Wiring Diagrams Technical Note for Kangoo, Clio II. Check condition and connection of the connectors of the low fuel level sensor. component code 2191 and of the instrument panel, component code 247. If the connectors are faulty and if there is a repair procedure (see Technical Note Are the tests correct? no 6015A, Repairing electrical wiring, Wiring: Precautions for repair), repair the yes connector, otherwise replace the wiring. Check the continuity, insulation, and the absence of interference resistance on the following connection: If the connection is faulty and there is a MH between components 2191 and the earth. repair procedure (see Technical Note 6015A, Electrical wiring repair, Wiring: Are the tests correct? no Precautions for repair), repair the wiring, otherwise replace it. yes With the ignition on, disconnect the connector of component 2191 and earth connection 3AFZ of component 2191. Replace the low fuel level sensor, Does the warning light come on? component code 2191. no yes

AFTER REPAIR

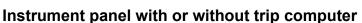




# **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR





### **FAULT FINDING - FAULT FINDING CHARTS**

# **ALP 14** THE WARNING LIGHT REMAINS LIT (ADDITIONAL TANK) **NOTES** See Wiring Diagrams Technical Note for Kangoo, Clio II. Check condition and connection of the connectors of the low fuel level sensor. component code 2191 and of the instrument panel, component code 247. If the connectors are faulty and if there is a repair procedure (see Technical Note Are the tests correct? no 6015A, Repairing electrical wiring, Wiring: Precautions for repair), repair the yes connector, otherwise replace the wiring. Check the insulation against earth of the following connection: •3AFZ between components 2191 and 247. If the connection is faulty and there is a repair procedure (see Technical Note Is the check correct? 6015A, Electrical wiring repair, Wiring: no Precautions for repair), repair the wiring, otherwise replace it. yes Contact the Techline.

AFTER REPAIR

# **INSTRUMENT PANEL**

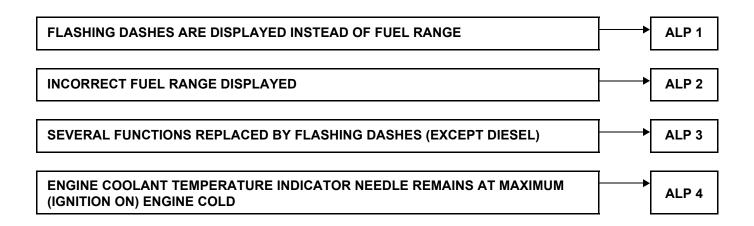




# **FAULT FINDING - CUSTOMER COMPLAINTS**

NOTES	Consult the "Fault finding - Introduction" section before beginning
-------	---

Also valid for the UK version (litres = gallons; km = miles, etc.)



83A - 28





### **FAULT FINDING - FAULT FINDING CHARTS**

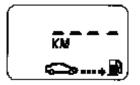
### ALP1

# FLASHING DASHES ARE DISPLAYED INSTEAD OF FUEL RANGE

### **NOTES**

Fault finding is performed on the instrument panel with the ignition on. Move on to the fault finding procedure: press and hold the trip computer button at the end of the wiper stalk and switch on the ignition

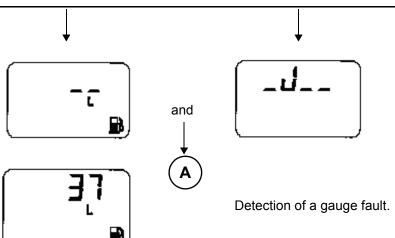
FLASHING DASHES ARE DISPLAYED INSTEAD OF FUEL RANGE



M (Miles) for UK

### **FUEL RANGE**

Briefly press the button at the end of the wiper stalk to select the desired display.



The value displayed (amount of petrol remaining) must be related to the gauge resistance R. If 280  $\Omega$  < R < 340  $\Omega$  (reserve), 5 is displayed and the warning light is lit.

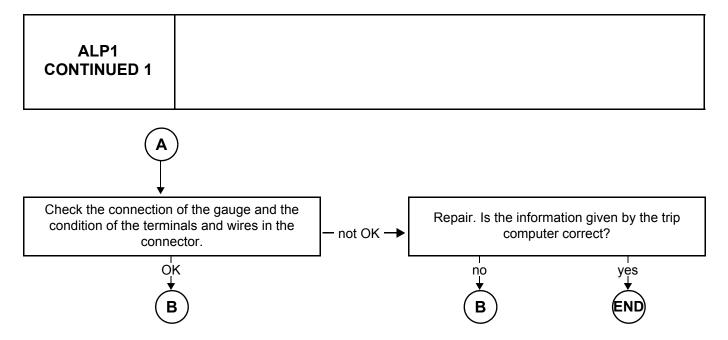
AFTER REPAIR

# **INSTRUMENT PANEL**

Instrument panel with trip computer



# **FAULT FINDING - FAULT FINDING CHARTS**



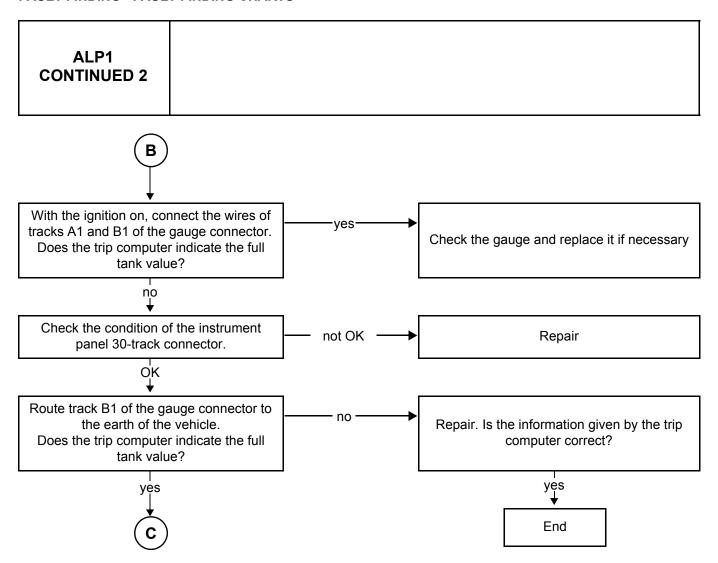
AFTER REPAIR

# **INSTRUMENT PANEL**





### **FAULT FINDING - FAULT FINDING CHARTS**

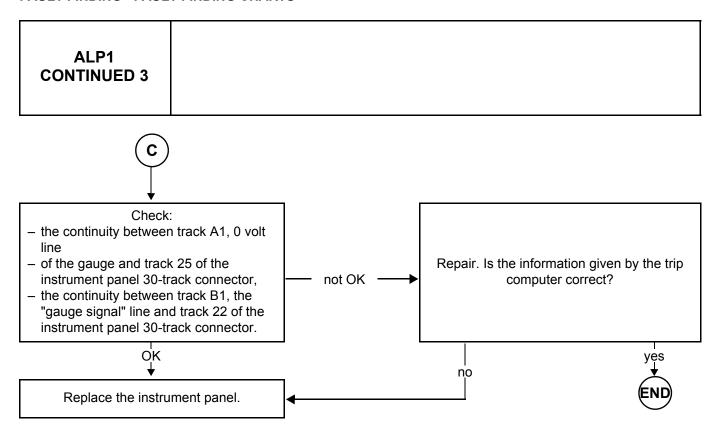


AFTER REPAIR





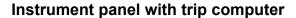
# **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR

CLIO II

# **INSTRUMENT PANEL**





### **FAULT FINDING - FAULT FINDING CHARTS**

# Fault finding is performed on the instrument panel with the ignition on. Move on to the fault finding procedure: press and hold the trip computer button at the end of the wiper stalk and switch on the ignition Briefly press the button at the end of the wiper stalk to select the desired display.

and

No gauge fault detected.

MEGANE E

or

Maximum petrol level displayed when the tank is not full.

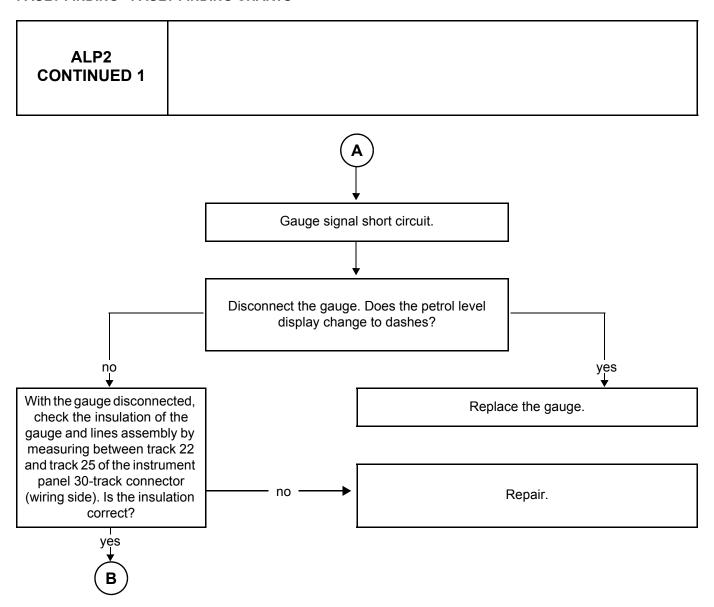
AFTER REPAIR

# **INSTRUMENT PANEL**

Instrument panel with trip computer



# **FAULT FINDING - FAULT FINDING CHARTS**



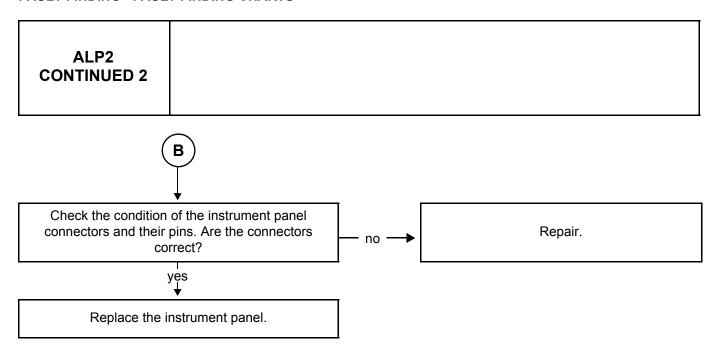
AFTER REPAIR

# **INSTRUMENT PANEL**

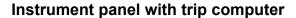




# **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR





### **FAULT FINDING - FAULT FINDING CHARTS**

# ALP 3

# SEVERAL FUNCTIONS REPLACED BY FLASHING DASHES (\*) (EXCEPT DIESEL)

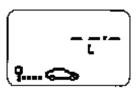
### **NOTES**

Fault finding is performed on the instrument panel with the ignition on. Move on to the fault finding procedure: press and hold the trip computer button at the end of the wiper stalk and switch on the ignition

Briefly press the button at the end of the wiper stalk to select the desired display.

<u>Trip computer pages (\*)</u> <u>likely to flash:</u>

FUEL CONSUMED (G)

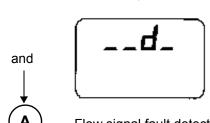


AVERAGE CONSUMPTION (MPG)



Engine running

and



Flow signal fault detected



Current flow in litres / hour

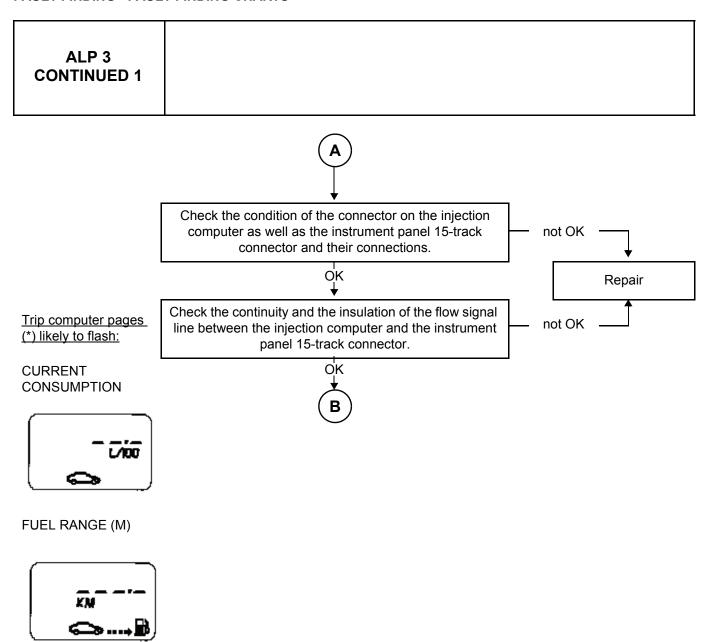


AFTER REPAIR





# **FAULT FINDING - FAULT FINDING CHARTS**



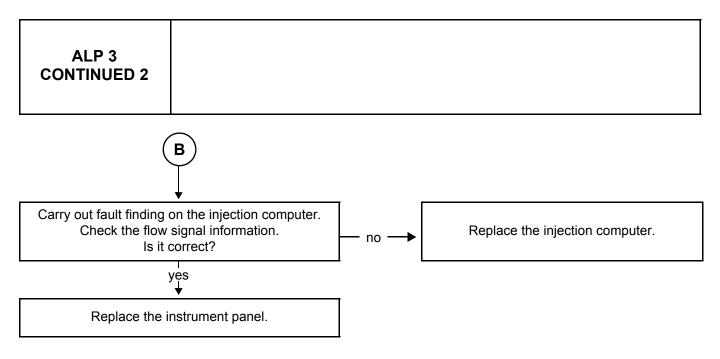
AFTER REPAIR

# **INSTRUMENT PANEL**





# **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR

# **INSTRUMENT PANEL**

Instrument panel with trip computer



### **FAULT FINDING - FAULT FINDING CHARTS**

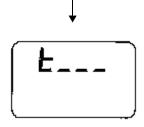
ALP4

# ENGINE COOLANT TEMPERATURE INDICATOR NEEDLE REMAINS AT MAXIMUM (IGNITION ON) ENGINE COLD

NOTES

Fault finding is performed on the instrument panel with the ignition on. Move on to the fault finding procedure: press and hold the trip computer button at the end of the wiper stalk and switch on the ignition

Press the trip computer scroll button to display the sensor fault page.



Coolant temperature sensor fault detected.

Short circuit on the coolant temperature input of the instrument panel by earthing.

Check the connection of the sensor and the condition of the terminals and wires in the connector.





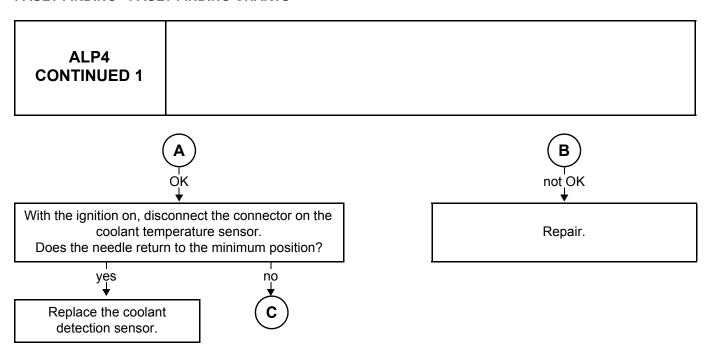
AFTER REPAIR

# **INSTRUMENT PANEL**





# **FAULT FINDING - FAULT FINDING CHARTS**



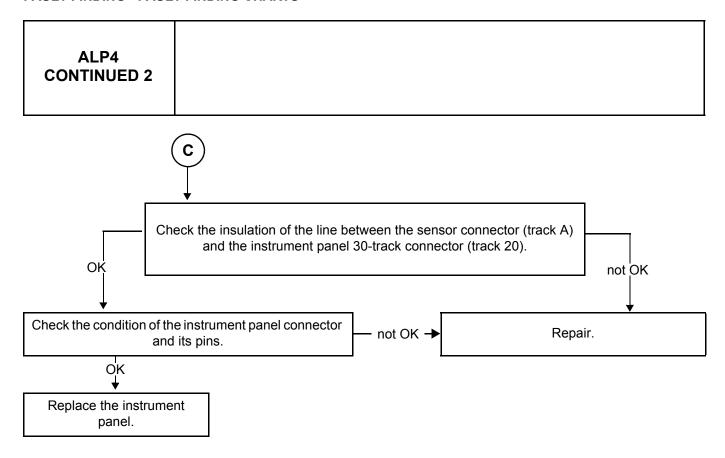
AFTER REPAIR

# **INSTRUMENT PANEL**





# **FAULT FINDING - FAULT FINDING CHARTS**



AFTER REPAIR