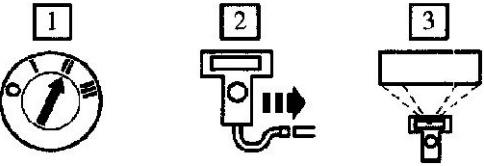
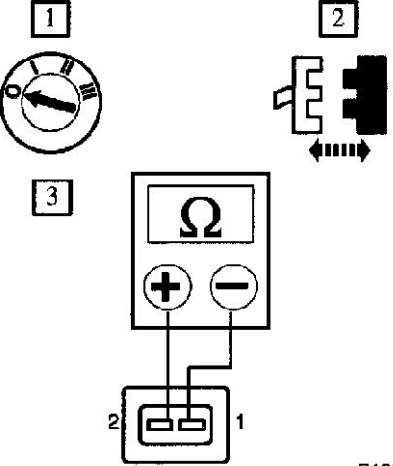
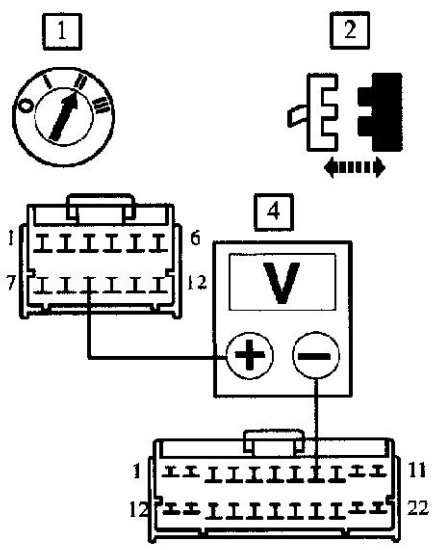
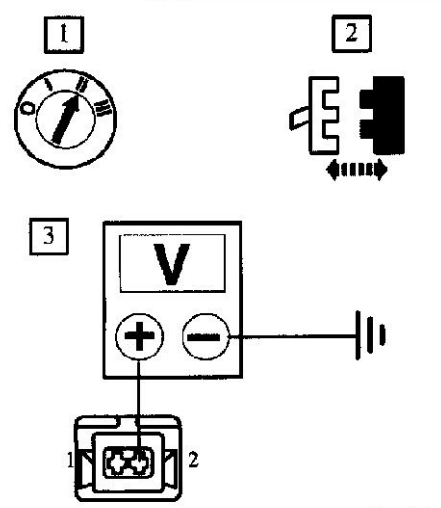
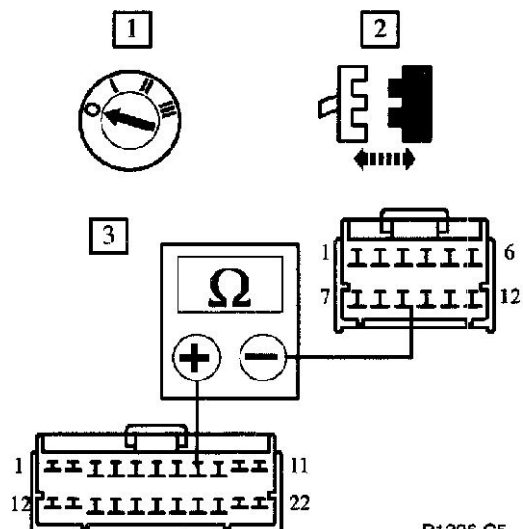
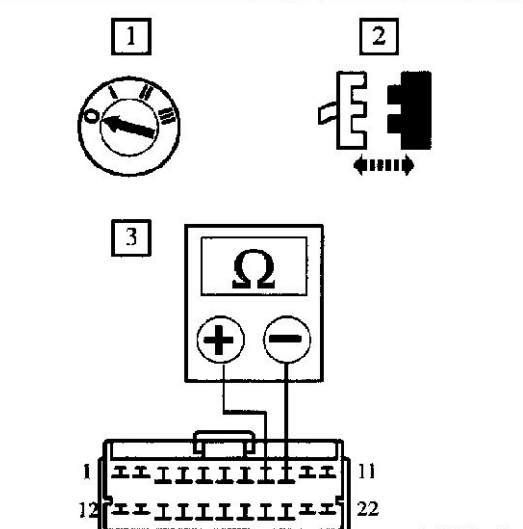
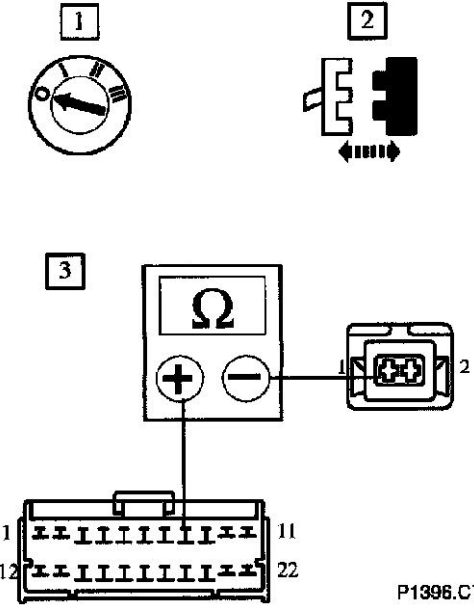
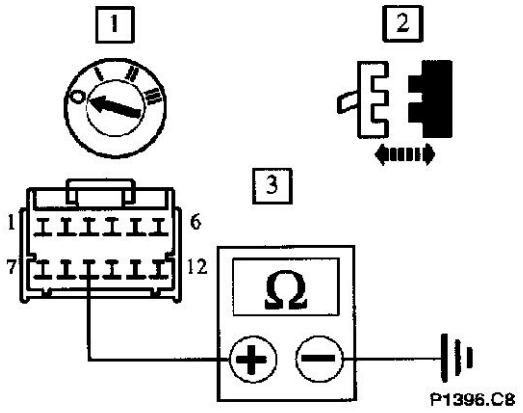


TEST CONDITION	TEST DETAILS / RESULTS / ACTIONS
<p>C1 RETRIEVE DTCS</p> 	<p>2 Connect scan tool</p> <p>3 Record DTC(s), freeze frame data and GO to C2</p> <p>NOTE: Battery and or ECM disconnection prior to scanning will erase all data, ensure that the correct DTC is present</p>
<p>C2 CHECK VVT COIL CONTINUITY</p>  <p style="text-align: right;">P1396.C2</p>	<p>3 With VVT connector PI032 disconnected, measure the resistance between the pins 1 & 2 at the VVT actuator</p> <ul style="list-style-type: none"> ○ Is the resistance >20 Ω? ◆ Yes Renew the VVT solenoid & test the system for normal operation ◆ No GO to C3

TEST CONDITION	TEST DETAILS / RESULTS / ACTIONS
<p>C3 CHECK SHORT TO B+</p>  <p>P1396.C3</p>	<p>3 Remove fuse F12</p> <p>4 With EM015, EM014, PI031 & PI032 disconnected, measure the voltage between EM015/008 & EM014/009</p> <ul style="list-style-type: none"> ○ 0 V? ◆ Yes Reconnect EM015 & EM014 & replace fuse F12 GO to C4 ◆ No Inspect EM015, PI001 or PI032 for bent / pushed back pins or locate & repair the harness / connector & test the system for normal operation
<p>C4 CHECK B+ AT VVT SOLENOID</p>  <p>P1396.C4</p>	<p>3 Measure the voltage between PI032/002 & ground EM1AR (EM2AR)</p> <ul style="list-style-type: none"> ○ B+ ? ◆ Yes GO to C5 ◆ No Inspect EM020/010 PI031 (PI032) for bent / pushed back pins or locate & repair harness / splice EMS16 or PIS06 Check fuse F12 is good & EMS control RELAY 1 energized. Test the system for normal operation

TEST CONDITION	TEST DETAILS / RESULTS / ACTIONS
<p>C5 CHECK HARNESS SHORT TO GROUND</p>  <p style="text-align: right;">P1396.C5</p>	<p>3 With EM015 & EM014 disconnected, measure the insulation resistance between EM015/008 & ground EM014/009</p> <ul style="list-style-type: none"> ○ Is the resistance > 10 MΩ? ◆ Yes Do not reconnect GO to C6 ◆ No Inspect EM015, & EM014 for corrosion, bent / pushed back pins or locate & repair the harness / connector. Test the system for normal operation
<p>C6 CHECK HARNESS SHORT CORE TO CORE</p>  <p style="text-align: right;">P1396.C6</p>	<p>3 With EM015, EM014, PI031 & PI032 disconnected, measure the insulation resistance between EM015/009 & EM015/008</p> <ul style="list-style-type: none"> ○ Is the resistance > 10 MΩ? ◆ Yes Reconnect all connectors GO to C7 ◆ No Inspect EM015, & PI031 PI032 for corrosion, bent / pushed back pins or locate & repair the harness / connector PI001/016 PI001/027. Test the system for normal operation

TEST CONDITION	TEST DETAILS / RESULTS / ACTIONS
<p>C7 CHECK HARNESS CONTINUITY</p>  <p>P1396.C7</p>	<p>3 With EM015 & PI032 disconnected, measure the resistance between EM015/008 & PI032/001</p> <ul style="list-style-type: none"> ○ Is the resistance < 0.5 Ω? ➤ Yes GO to C8 ➤ No Inspect harness / connectors EM015, PI032 & PI001/027 for corrosion, damage, bent or pushed back pins & repair as required. Test the system for normal operation
<p>C8 CHECK HARNESS (GROUND) CONTINUITY</p>  <p>P1396.C8</p>	<p>3 With EM014 disconnected, measure the resistance between EM014/009 & ground EM1AR (EM2AR)</p> <ul style="list-style-type: none"> ○ Is the resistance < 0.5 Ω? ➤ Yes Reconnect EM014, EM015, PI031 or (PI032) GO to C10 ➤ No Inspect harness / connector EM014, ground stud & splice EMS36 for corrosion, damage, bent or pushed back pins & repair as required. Test the system for normal operation

TEST CONDITION	TEST DETAILS / RESULTS / ACTIONS
C9 CHECK MECHANICAL CONDITION	<p>1 Remove the VVT(s) & ensure that there is no foreign matter blocking the oil passageway</p> <ul style="list-style-type: none">○ OK?◆ Yes GO to C10◆ No Rectify as required
C10 END	<p>1 Perform appropriate service drive cycle and check for the presence of DTC</p> <ul style="list-style-type: none">○ Has the fault code cleared?◆ Yes STOP◆ No Contact Jaguar Service