## Electrical Test Program - Cruise Control Test

| Test step <br> DTC | Scope of test | Test connection | Test condition | Nominal value | Possible cause/remedy |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\Rightarrow 1.0 \quad 4$ | Cruise control switch (S40) <br> V Decelerate/set <br> B Accelerate/set <br> SP Resume <br> A Off <br> Control switch contact |  | Ignition: ON <br> Switch not activated. <br> Position "DECEL." <br> Position "ACCEL." <br> Position "RESUME" <br> Switch not activated <br> Position "OFF" <br> Switch not activated. Control switch contact in position: <br> "DECEL.", <br> "ACCEL.", <br> "RESUME", <br> "OFF". | $\begin{aligned} & <1 \mathrm{~V} \\ & 11-14 \mathrm{~V} \\ & 11-14 \mathrm{~V} \\ & 11-14 \mathrm{~V} \\ & 11-14 \mathrm{~V} \\ & <1 \mathrm{~V} \\ & <1 \mathrm{~V} \\ & 11-14 \mathrm{~V} \end{aligned}$ | Wiring, Cruise control switch (S40). |

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| :---: | :---: | :---: | :---: | :---: | :---: |
| $\Rightarrow 4.1$ | Starter lock-out/backup lamp switch (S16/3) <br> (Transmission range recognition) <br> Resistance |  | Ignition: OFF EA/CC/ISC control module (N4/1) unplugged. Transmission range: $\begin{aligned} & \mathrm{P} \rightarrow \\ & \mathrm{R} \rightarrow \\ & \mathrm{~N} \rightarrow \\ & \mathrm{D} \rightarrow \\ & 3 \rightarrow \\ & 2 \rightarrow \end{aligned}$ | $\begin{array}{r} 1400 \Omega \\ 294 \Omega \\ 28000 \Omega \\ 11300 \Omega \\ 5900 \Omega \\ 3100 \Omega \\ ( \pm 10 \%) \end{array}$ | Wiring, Starter lock-out/backup lamp switch (S16/3). |
| $\Rightarrow 5.0 \quad \mathrm{~B}$ | Left front axle vehicle speed sensor (L6/1) Speed signal |  | Lift front of vehicle. <br> Ignition: ON <br> Turn left front wheel by hand | 4-8V | Wiring, <br> Left front axle vehicle speed sensor (L6/1), ABS/ASR control module (N30/1) DM, Chassis and Drivetrain, Vol. 1, section 5.2. <br> Note: <br> Upon completion of test, erase any DTC's from ABS/ASR control module (N30/1) memory. |
| $\Rightarrow 6.0$ | Serial data bus (CAN) |  | Ignition: OFF EA/CC/ISC control module (N4/1) unplugged. <br> Measure resistance at connector (see Figure 5). | 55-65 | Wiring, LH-SFI control module (N3/2 or N3/3), <br> DM, Engine, Vol. 2, section 3.2, Ignition control module (N1/4 or N1/5), <br> DM, Engine, Vol. 2, section 5.3. ABS/ASR control module (N30/1) DM, Chassis and Drivetrain, Vol. 1, section 5.2 |

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Figure 1

S40x1
Cruise control switch connector


Figure 2

X35/8 Cockpit/module box plug connection, electronic accelerator/cruise control/idle speed control (16-pole)


Figure 3

X62/7
Left front axle wheel speed sensor connector (component compartment)

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Figure 4
X62/8
Rear axle multiple circuit junction connector


Figure 5
N4/1x1 EA/CC/ISC control module connector Circle = CAN bus

