

Engine Control Module (ECM) I/O Signal

CRUISE CONTROL SYSTEM (DIAGNOSTICS)

4. Engine Control Module (ECM) I/O Signal

A: ELECTRICAL SPECIFICATION

TO A: B134	TO B: B135	TO C: B136	TO D: B137																																																																																																																																																									
<table border="1"><tr><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td></tr><tr><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td></tr><tr><td>34</td><td>33</td><td>32</td><td>31</td><td>30</td><td>29</td><td>28</td><td></td><td></td><td></td></tr></table>	7	6	5	4	3	2	1	17	16	15	14	13	12	11	10	9	8	27	26	25	24	23	22	21	20	19	18	34	33	32	31	30	29	28				<table border="1"><tr><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>19</td><td>18</td><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td></tr><tr><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td></td><td></td><td></td></tr><tr><td>35</td><td>34</td><td>33</td><td>32</td><td>31</td><td>30</td><td>29</td><td>28</td><td></td><td></td><td></td></tr></table>	7	6	5	4	3	2	1	19	18	17	16	15	14	13	12	11	10	9	8	27	26	25	24	23	22	21	20				35	34	33	32	31	30	29	28				<table border="1"><tr><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td><td>7</td></tr><tr><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td><td>17</td></tr><tr><td>35</td><td>34</td><td>33</td><td>32</td><td>31</td><td>30</td><td>29</td><td>28</td><td></td><td></td><td></td></tr></table>	6	5	4	3	2	1	16	15	14	13	12	11	10	9	8	7	27	26	25	24	23	22	21	20	19	18	17	35	34	33	32	31	30	29	28				<table border="1"><tr><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td></tr><tr><td>17</td><td>16</td><td>15</td><td>14</td><td>13</td><td>12</td><td>11</td><td>10</td><td>9</td><td>8</td></tr><tr><td>25</td><td>24</td><td>23</td><td>22</td><td>21</td><td>20</td><td>19</td><td>18</td><td>17</td><td>16</td></tr><tr><td>31</td><td>30</td><td>29</td><td>28</td><td>27</td><td>26</td><td>25</td><td>24</td><td>23</td><td>22</td></tr></table>	7	6	5	4	3	2	1	17	16	15	14	13	12	11	10	9	8	25	24	23	22	21	20	19	18	17	16	31	30	29	28	27	26	25	24	23	22
7	6	5	4	3	2	1																																																																																																																																																						
17	16	15	14	13	12	11	10	9	8																																																																																																																																																			
27	26	25	24	23	22	21	20	19	18																																																																																																																																																			
34	33	32	31	30	29	28																																																																																																																																																						
7	6	5	4	3	2	1																																																																																																																																																						
19	18	17	16	15	14	13	12	11	10	9	8																																																																																																																																																	
27	26	25	24	23	22	21	20																																																																																																																																																					
35	34	33	32	31	30	29	28																																																																																																																																																					
6	5	4	3	2	1																																																																																																																																																							
16	15	14	13	12	11	10	9	8	7																																																																																																																																																			
27	26	25	24	23	22	21	20	19	18	17																																																																																																																																																		
35	34	33	32	31	30	29	28																																																																																																																																																					
7	6	5	4	3	2	1																																																																																																																																																						
17	16	15	14	13	12	11	10	9	8																																																																																																																																																			
25	24	23	22	21	20	19	18	17	16																																																																																																																																																			
31	30	29	28	27	26	25	24	23	22																																																																																																																																																			

CC-00197

Content		Terminal No.	Measurement condition and I/O signal (Idling with ignition ON: except for cruise set light)
Main power supply	VB (CONTROL 1) VB (CONTROL 2)	C1 D7	<ul style="list-style-type: none">Battery voltage is detected when the main power is turned ON.“0 V” is detected when the main power is turned OFF.
Command switch		C12	<ul style="list-style-type: none">“0 V” is detected when the command switch is in CANCEL position.“Approx. 1 V” is detected when the command switch is in SET/COAST position.“Approx. 3 V” is detected when the command switch is in RESUME/ACCEL position.“Approx. 4 V” is detected when the command switch is released.
Brake switch 1 (Brake switch)		C15	<ul style="list-style-type: none">Battery voltage is detected when the brake pedal is released.“0 V” is detected when brake pedal is depressed.
Brake switch 2 (Stop light switch)		C3	<ul style="list-style-type: none">Battery voltage is detected when brake pedal is depressed.“0 V” is detected when the brake pedal is released.
Main switch		C13	<ul style="list-style-type: none">“0 V” is detected while the main switch is pressed or turned ON.“5 V” is present when the main switch is OFF.
Ground	GND (CONTROL)	A6	—
Ignition switch		C30	<ul style="list-style-type: none">Battery voltage is detected when the ignition switch is turned ON.“0 V” is detected when the ignition switch is turned OFF.
Neutral signal		C35	<ul style="list-style-type: none">Battery voltage is detected when the shift lever is in any position except for “P” or “N”.“0 V” is detected when the shift lever is in “P” or “N” position.

B: WIRING DIAGRAM

<Ref. to WI-75, WIRING DIAGRAM, Cruise Control System.>