



SECTION 12 - CAR COMMANDS AND PARAMETERS

From the Human Interface terminal, type **<CAR>** to establish communication with the car functions. The prompt in Car Human Interface mode is:

C# 1=>

CAR DIAGNOSTIC COMMANDS

<COMMAND>	DESCRIPTION OF CAR COMMAND
ASU	Automatic Set Up: (Hoistway Scan) Limit switch position and Floor Center of Target (COT) Position Reference Set-up. NOTE: Refer to Auto Setup (Hatch Scan) on page 6-9 for HPV 900 or page 7-9 for DSD 412:
BAS	BASE of output: Output base setting can be either 10 or 16. If set to 10, all values returned by the controller will be in decimal notation (easiest to read). If set to 16, all values returned by the controller will be in hexadecimal notation. It is advisable to leave it at 10.
BBT	Brake to Brake last travel Time: This command returns time period of last run performed by car.
BDC	Brake Duty Cycle. Typing "BDC=[number 1 to 255]<ENTER>" while the car is on inspection sends a turn on duty cycle to the brake device. Manually pushing in MC and BK contactors will lift the brake. Typing "BDC<ENTER>" or placing the car on AUTO will turn off the brake command.
CCS	Car Call pilot Status: Displays the pilot status of the car. An UP pilot is a call above current car position. A DOWN pilot is a call below current car position. The hexadecimal numbers below indicate the pilot status: 0H - no pilot 1H - up pilot 2H - down pilot 3H - up and down pilot 4H - at call floor 5H - at call floor and up pilot 6H - at call floor and down pilot 7H - at call floor and up and down pilot



<COMMAND>	DESCRIPTION OF CAR COMMAND																																																																																																																																																							
CCT	<p>Car Call Test. The car call test automatically activates car calls at selected floors to allow the car to run continuously in a test mode unattended. The command CCT toggles the car call test operation on and off. To select the desired floor, type “CCTF” for front or “CCTR” for rear car calls and follow the prompt to select the individual floor. More than one car call must be selected to activate the test. Loss of power or activation of fire service will cancel the car call test operation.</p> <p>Note: <i>Must be done in Black Terminal screen with the doors on Door Disconnect.</i></p> <p>Note: <i>If car is placed in Automatic Service, the call will continue to be answered. CCT must be disabled by re-entering the CCT command.</i></p>																																																																																																																																																							
CLS	<p>CLear terminal Screen. Clears the terminal screen on the wizard or human interface terminal device.</p>																																																																																																																																																							
CMC	<p>This command displays Car smart controllers CoMmunication status (Communication Status of the following Devices):</p> <p>OK > C# 1=> CMC</p> <p style="text-align: center;">COMMUNICATIONS STATUS</p> <table><tr><td>HI</td><td>ST</td><td>RCV</td><td>FAIL</td><td>%F</td><td colspan="4"></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>DRV</td><td>ST</td><td>RCV</td><td>FAIL</td><td>%F</td><td colspan="4"></td></tr><tr><td>2</td><td>--</td><td>0</td><td>0</td><td>0</td><td colspan="4"></td></tr><tr><td colspan="9"></td></tr><tr><td>VIC</td><td>ST</td><td>RCV</td><td>FAIL</td><td>%F</td><td>INBD:</td><td>01234567</td><td>OUTBD:</td><td>01234567</td></tr><tr><td>11</td><td>OK</td><td>69</td><td>0</td><td>0</td><td rowspan="2"></td><td>11111100</td><td rowspan="2"></td><td>11000000</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CAR</td><td>ST</td><td>RCV</td><td>FAIL</td><td>%F</td><td>INBD:</td><td>01234567</td><td>OUTBD:</td><td>01234567</td></tr><tr><td>8</td><td>OK</td><td>67</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td></tr><tr><td>19</td><td>OK</td><td>67</td><td>0</td><td>0</td><td></td><td>10000000</td><td></td><td>11000000</td></tr><tr><td>20</td><td>OK</td><td>25</td><td>0</td><td>0</td><td></td><td>10001100</td><td></td><td>10001100</td></tr><tr><td>31</td><td>OK</td><td>66</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>MIC</td><td>ST</td><td>RCV</td><td>FAIL</td><td>%F</td><td>INBD:</td><td>01234567</td><td>OUTBD:</td><td>01234567</td></tr><tr><td>12</td><td>OK</td><td>69</td><td>0</td><td>0</td><td></td><td>00000000</td><td></td><td>00000000</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>AUX ST RCV FAIL %F INBD: 01234567 OUTBD: 01234567</p> <p>NOTE: <i>Comm Status</i> <i>0 = No Comm</i> <i>1 = Poor Comm</i> <i>2 = Comm O.K.</i> <i>3 = Comm Perfect</i></p>	HI	ST	RCV	FAIL	%F														DRV	ST	RCV	FAIL	%F					2	--	0	0	0														VIC	ST	RCV	FAIL	%F	INBD:	01234567	OUTBD:	01234567	11	OK	69	0	0		11111100		11000000								CAR	ST	RCV	FAIL	%F	INBD:	01234567	OUTBD:	01234567	8	OK	67	0	0					19	OK	67	0	0		10000000		11000000	20	OK	25	0	0		10001100		10001100	31	OK	66	0	0														MIC	ST	RCV	FAIL	%F	INBD:	01234567	OUTBD:	01234567	12	OK	69	0	0		00000000		00000000									
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31	OK	66	0	0																																																																																																																																																				
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<COMMAND>	DESCRIPTION OF CAR COMMAND		
	<p><u>NOTE the following definitions:</u> HI = human interface port (CCU) DRV = drive port (CCU) VIC = local I2C port controlled by the VIC microcontroller (on CCU) CAR = car RS-485 port controlled by the MIC microcontroller (on CCU) MIC = local I2C port controlled by MIC microcontroller (on CCU) AUX = local RS-485 port controlled by VIC microcontroller (on CCU) ST (status) line indicates “OK” when the device is communicating RCV = the # of packets received FAIL = the # of failed packets %Fail = percentage failure of 100 packets INBD = input board comm status on device I2C port (0=no comm,1=comm) OUTBD = output board comm status on device I2C port (0=no comm,1=comm)</p> <p>If no data is displayed, then the port is not being used to access an intelligent device.</p> <p>The following indicates the corresponding address to each intelligent device:</p> <p>DEVICE COMMUNICATION</p>		
	DEVICE NAME	COMMUNICATION ADDRESS	DESCRIPTION
	DRV	2	DRiVe System
	CTC	8	Car Top Controller
	BK	9	BraKe Board
	MF	10	Motor Field
	VIC	11	Velocity Interface Controller (on CCU board)
	MIC	12	Motor room Interface Controller (on CCU board)
	MPC1	13	Motor room Port Controller 1
	MPC2	14	Motor room Port Controller 2
	MPC3	15	Motor room Port Controller 3
	MPC4	16	Motor room Port Controller 4



<COMMAND>	DESCRIPTION OF CAR COMMAND													
	DEVICE NAME					COMMUNICATION ADDRESS					DESCRIPTION			
	MPC5					17					Motor room Port Controller 5			
	MPC6					18					Motor room Port Controller 6			
	TOC					19					Top Of Car Device			
	COP					20					Car Operating Panel			
	RCOP					21					Rear Car Operating Panel			
	CPC1					22					Car Port Controller 1			
	CPC2					23					Car Port Controller 2			
	CPC3					24					Car Port Controller 3			
	CPC4					25					Car Port Controller 4			
	CPC5					26					Car Port Controller 5			
	CPC6					27					Car Port Controller 6			
	CPE					31					Car Position Encoder			
	CMG	Displays Group CoMmunication status status (Communication Status of the following Devices):												
	<u>COMMUNICATION STATUS (GROUP)</u>													
	HI ST RCV FAIL %FAIL CTG ST RCV FAIL %FAIL HC ST RCV FAIL%FAIL													
	3 OK65 0 0 201 OK 81 0 0 11 OK 43 0 0 0													
	202 OK 81 0 0 12 OK 43 0 0													
	203 OK 81 0 0 13 OK 43 0 0													
	204 OK 81 0 0 14 OK 43 0 0													
	15 OK 43 0 0													
	16 OK 43 0 0													
	17 OK 43 0 0													
	18 OK 43 0 0													
	19 OK 43 0 0													
	20 OK 43 0 0													
	211 OK 43 0 0													
	The following description indicates the corresponding address to each board:													
	<u>DEVICE COMMUNICATION</u>													
	<u>NAME ADDRESS DESCRIPTION</u>													
	HI 3 Human Interface													
	HPU_HC 11-42 HPU Hall Calls for floors 1 through 32													
	HPU_IGEMP 74 HPU Inter-group Emergency Power I/O													
	HPU_EMP-FIR 75 HPU Emergency Power Recall/Fire light I/O													
	HPU_GIO1 76 HPU General Purpose I/O 1													
	HPU_GIO2 77 HPU General Purpose I/O 2													
	HPU_GIO3 78 HPU General Purpose I/O 3													
	MPE_HC 79 HPU Hall Calls run from MPE Board for floors 1-32													
MPE_HC_RAX 80 HPU Rear AUX Hall Calls from MPE Board for floors 1-32														
MPE_HC_R 81 HPU Rear Hall Calls run from MPE Board for floors 1-32														
MPE_HC_AX 82 HPU AUX Hall Calls run from MPE Board for floors 1-32														
MPE_IR1 83 HPU IR1 Hall Calls run from MPE Board for floors 1-32														
MPE_IR2 84 HPU IR2 Hall Calls run from MPE Board for floors 1-32														



<COMMAND>		DESCRIPTION OF CAR COMMAND	
MPE_RIR1	85	HPU RIR1 Hall Calls run from MPE Board for floors 1-32	
MPE_RIR2	86	HPU RIR2 Hall Calls run from MPE Board for floors 1-32	
MPE_CB	87	HPU CB Hall Calls run from MPE Board for floors 1-32	
MPE_RCB	88	HPU RCB Hall Calls run from MPE Board for floors 1-32	
MPE_VIP	89	HPU VIP Hall Calls run from MPE Board for floors 1-32	
MPE_RVIP	90	HPU RVIP Hall Calls run from MPE Board for floors 1-32	
GIO1	91	I2C I/O 1 run from MPE Board	
GIO2	92	I2C I/O 2 run from MPE Board	
GSEC	93	I2C I/O Group Security	
HC	94	I2C Hall Call	
RHC	95	I2C Rear Hall Call	
IR	96	I2C Inconspicuous Riser Hall Call	
RIR	97	I2C Rear Inconspicuous Riser Hall Call	
CB	98	I2C Code Blue and Rear Code Blue Riser	
VIP	99	I2C VIP and Rear VIP Riser	
GRP	200	GRouP Communication Address	
CAR 1	201	Car #1 Communication Address	
CAR 2	202	Car #2 Communication Address	
CAR 3	203	Car #3 Communication Address	
CAR 4	204	Car #4 Communication Address	
CAR 5	205	Car #5 Communication Address	
CAR 6	206	Car #6 Communication Address	
CAR 7	207	Car #7 Communication Address	
CAR 8	208	Car #8 Communication Address	
CAR 9	209	Car #9 Communication Address	
CAR 10	210	Car #10 Communication Address	
RVU	211	RVU on Hall Call Bus	
RVU	212	RVU on Car To Group Bus	
NOTE the following definitions: HI = human interface port (CCU) CTG = Car to Group(CCU) HC = Hall Call (CCU) ST indicates "OK" when the devise is communicating RCV = # packets received FAIL = # of failed packets FAIL = the # of failed packets %Fail = percentage failure of 100 packets			



<COMMAND>	DESCRIPTION OF CAR COMMAND																																																																
COT	<p>Center of Target: Center Of Target: This value is the DPP position for where the center of the floor target is located. COT parameters are set during auto-setup. See FOF for adjusting to place the car level to the door sill.</p> <p>C# 1=> COT</p> <table><tr><th>FLOOR #</th><th>COT</th><th>FOF</th><th>FCP</th></tr><tr><td>1</td><td>1000</td><td>-6</td><td>994</td></tr><tr><td>2</td><td>1400</td><td>0</td><td>1400</td></tr><tr><td>3</td><td>1800</td><td>0</td><td>1800</td></tr><tr><td>4</td><td>2200</td><td>0</td><td>2200</td></tr><tr><td>5</td><td>2600</td><td>-2</td><td>2598</td></tr><tr><td>6</td><td>3000</td><td>0</td><td>3000</td></tr><tr><td>7</td><td>3400</td><td>0</td><td>3400</td></tr><tr><td>8</td><td>3800</td><td>+4</td><td>3804</td></tr><tr><td>9</td><td>4200</td><td>0</td><td>4200</td></tr><tr><td>10</td><td>4600</td><td>0</td><td>4600</td></tr><tr><td>11</td><td>5000</td><td>0</td><td>5000</td></tr><tr><td>12</td><td>5400</td><td>0</td><td>5400</td></tr><tr><td>13</td><td>5800</td><td>0</td><td>5800</td></tr><tr><td>14</td><td>6200</td><td>0</td><td>6200</td></tr><tr><td>15</td><td>6600</td><td>0</td><td>6600</td></tr></table> <p>Note: The COT values shown here are default values. Your values may differ.</p>	FLOOR #	COT	FOF	FCP	1	1000	-6	994	2	1400	0	1400	3	1800	0	1800	4	2200	0	2200	5	2600	-2	2598	6	3000	0	3000	7	3400	0	3400	8	3800	+4	3804	9	4200	0	4200	10	4600	0	4600	11	5000	0	5000	12	5400	0	5400	13	5800	0	5800	14	6200	0	6200	15	6600	0	6600
FLOOR #	COT	FOF	FCP																																																														
1	1000	-6	994																																																														
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3	1800	0	1800																																																														
4	2200	0	2200																																																														
5	2600	-2	2598																																																														
6	3000	0	3000																																																														
7	3400	0	3400																																																														
8	3800	+4	3804																																																														
9	4200	0	4200																																																														
10	4600	0	4600																																																														
11	5000	0	5000																																																														
12	5400	0	5400																																																														
13	5800	0	5800																																																														
14	6200	0	6200																																																														
15	6600	0	6600																																																														
CPY	<p>CoPY flash parameters to RAM or RAM parameters to flash.</p> <p>CPYR - Copies RAM parameters to flash.</p> <p>CPYF - Copies flash parameters to RAM.</p>																																																																
DATE	<p>Set the real time calendar clock DATE. The date is entered as month/day/year. To exit this command without changing the date, hit <ENTER ↵> before typing in new date values.</p> <p>Current date: 6/21/94</p> <p>Enter new date: 7/26/94</p>																																																																
DCS	<p>Down Call pilot Status:</p> <p>a) Up Pilot -- down hall call above current car position</p> <p>Down Pilot -- down hall call below current car position</p>																																																																
DLB	<p>Down Limit Break: Car velocity and position when the Down Limit switches first break open during a run. This command is entered after the elevator has tripped all the slowdown limit switches on a run to the first landing.</p>																																																																
DPC	<p>Digital Position Count: This command returns the DPP count of the current elevator position. This value is also displayed on the car diagnostic screen under "Pos Cn".</p>																																																																



<COMMAND>	DESCRIPTION OF CAR COMMAND
DPY	<p>Diagnostic Display Control: The <DPY> commands allow the user to capture up to 128 frames of the car diagnostic display for playback at a later time. The capturing of the diagnostic display can be triggered on the activation of any error code.</p> <p style="text-align: center;">DPYD or DPYTD Enter diagnostic display mode. This mode will display the captured frames of the diagnostic display</p> <p style="text-align: center;">Enter:</p> <p style="text-align: center;"> to play Backward one frame <F> to play Forward one frame <C> to get Current frame <CTRL> + <C> to quit diagnostic display mode </p> <p style="text-align: center;"> DPYT Displays all the DPY commands DPYTS Setup diagnostic triggering DPYTR Reset triggering display (returns display to normal mode) </p>
ELB	<p>ETS (Emergency Terminal Slowdown) Limit Break: Car velocity and position when the ETS Limits first break open during a run. This command is entered after the elevator has tripped all the slowdown limits on a run to the first landing.</p> <p style="text-align: center;"><i>VIC and CTC Emergency Limit Velocity</i></p> <p><i>*Down Limit Fault at limit #</i></p> <p><i>*Up Limit Fault at limit #</i></p> <p><i>Emergency Slowdown Velocity (ESV):</i></p> <p><i>1= 350; 2= 450;</i></p> <p><i>*Down Emergency Terminal Slowdown Fault</i></p> <p><i>*Up Emergency Terminal Slowdown Fault;</i></p> <p><i>**ETS Up Direction</i></p> <p><i>**ETS Up Direction</i></p> <p><i>ETS Velocity: 351</i></p> <p><i>ETS Up Limit Position: 12184</i></p> <p><i>ETS Down Limit Position: 0</i></p> <p> </p> <p><i>* Displayed only if the corresponding fault condition occurs.</i></p> <p><i>** Displayed according to direction entering or leaving the ETS limit.</i></p>
EXE	<p>EXclude Error code. This command creates a list of error codes that are not stored in the error buffer.</p> <p style="text-align: center;">EXES - Set bit to exclude error code from buffer. Eg. Type EXES54<ENTER> to exclude error code 54 from buffer.</p> <p style="text-align: center;">EXER - Reset bit that excludes error code from buffer. Eg. Type</p>



<COMMAND>	DESCRIPTION OF CAR COMMAND			
	EXER54<ENTER> to allow error code 54 to be placed in the buffer. EXEC - Clear error code exclusion list. Allow all error codes to be placed in buffer. EXEL - List error codes excluded from being placed in error buffer.			
FCP	Floor position C ount P reset: This is the reference DPP position for where dead level is for each floor. The FCP position is the sum of COT (Center Of Target from Hoistway Scan) and/or FOF (Floor Offset) parameters.			
	C# 1=> FCP			
	FLOOR #	COT	FOF	FCP
	1	1000	-6	994
	2	1400	0	1400
	3	1800	0	1800
	4	2200	0	2200
	5	2600	-2	2598
	6	3000	0	3000
	7	3400	0	3400
	8	3800	+4	3804
	9	4200	0	4200
	10	4600	0	4600
	11	5000	0	5000
	12	5400	0	5400
	13	5800	0	5800
	14	6200	0	6200
	15	6600	0	6600



<COMMAND>	DESCRIPTION OF CAR COMMAND																																																																																																																			
FLTn (See Error Code Definitions)	<p>FauLTs (Errors): The MERIDIA™ Operating System keeps a record of the previous 24 faults that have occurred along with the number of occurrences, time of day, the floor number, the velocity, digital position count and various status bytes. The faults are labeled 0-23. This command displays four of the 24 faults starting at fault n (n = 0-23). The n is optional. If not used, the <FLT> command displays all 24 faults. Zero indicates no fault occurrence. Note that CS and DS are in hexadecimal form, which must be converted into binary form.</p> <p>The fault is displayed on screen as follows:</p> <p>C# 1>FLT0</p> <table><tr><th></th><th>FLT</th><th>COUNT</th><th>FLR</th><th>TIME</th><th>DATE</th><th>DPP</th><th>DMD</th><th>VEL</th><th>DM</th><th>DZ</th><th>SV</th><th>CS</th><th>DS</th></tr><tr><td>FLT0=</td><td>80</td><td>1</td><td>11</td><td>4:39:22p</td><td>6/02/94</td><td>5279</td><td>350</td><td>350</td><td>3</td><td>00H</td><td>26</td><td>AFH</td><td>0FH</td></tr><tr><td>FLT1=</td><td>0</td><td>0</td><td>0</td><td>0:00:00a</td><td>0/00/94</td><td>0</td><td>0</td><td>0</td><td>0</td><td>00H</td><td>0</td><td>00H</td><td>00H</td></tr><tr><td>FLT2=</td><td>0</td><td>0</td><td>0</td><td>0:00:00a</td><td>0/00/94</td><td>0</td><td>0</td><td>0</td><td>0</td><td>00H</td><td>0</td><td>00H</td><td>00H</td></tr><tr><td>FLT3=</td><td>0</td><td>0</td><td>0</td><td>0:00:00a</td><td>0/00/94</td><td>0</td><td>0</td><td>0</td><td>0</td><td>00H</td><td>0</td><td>00H</td><td>00H</td></tr></table> <p>The headings in the above table are detailed below:</p> <table><tr><td>FLT</td><td>=</td><td>Fault number</td></tr><tr><td>COUNT</td><td>=</td><td>Number of occurrences</td></tr><tr><td>FLR</td><td>=</td><td>Floor where the error occurred</td></tr><tr><td>TIME</td><td>=</td><td>The time the fault occurred (from the system real time calendar clock)</td></tr><tr><td>DATE</td><td>=</td><td>Date of occurrence</td></tr><tr><td>DPP</td><td>=</td><td>Digital Position Pulse count</td></tr><tr><td>DMD</td><td>=</td><td>Demand velocity</td></tr><tr><td>VEL</td><td>=</td><td>Car's Velocity calculated from the Digital Position Pulse</td></tr><tr><td>DM</td><td>=</td><td>Digitizer Mode Value.</td></tr></table> <p>The value that appears is the last value that successfully registered in fault registry. If the value “3” appears then the car was in the Flat Top mode when the fault was registered.</p> <p>Definitions</p> <table><tr><td>0</td><td>Stop</td></tr><tr><td>1</td><td>Acceleration</td></tr><tr><td>2</td><td>Roll</td></tr><tr><td>3</td><td>Top Speed</td></tr><tr><td>4</td><td>Flat Top</td></tr><tr><td>5</td><td>Deceleration</td></tr><tr><td>6</td><td>Leveling</td></tr><tr><td>7</td><td>Emergency</td></tr><tr><td>8</td><td>Inspection</td></tr></table>		FLT	COUNT	FLR	TIME	DATE	DPP	DMD	VEL	DM	DZ	SV	CS	DS	FLT0=	80	1	11	4:39:22p	6/02/94	5279	350	350	3	00H	26	AFH	0FH	FLT1=	0	0	0	0:00:00a	0/00/94	0	0	0	0	00H	0	00H	00H	FLT2=	0	0	0	0:00:00a	0/00/94	0	0	0	0	00H	0	00H	00H	FLT3=	0	0	0	0:00:00a	0/00/94	0	0	0	0	00H	0	00H	00H	FLT	=	Fault number	COUNT	=	Number of occurrences	FLR	=	Floor where the error occurred	TIME	=	The time the fault occurred (from the system real time calendar clock)	DATE	=	Date of occurrence	DPP	=	Digital Position Pulse count	DMD	=	Demand velocity	VEL	=	Car's Velocity calculated from the Digital Position Pulse	DM	=	Digitizer Mode Value.	0	Stop	1	Acceleration	2	Roll	3	Top Speed	4	Flat Top	5	Deceleration	6	Leveling	7	Emergency	8	Inspection
	FLT	COUNT	FLR	TIME	DATE	DPP	DMD	VEL	DM	DZ	SV	CS	DS																																																																																																							
FLT0=	80	1	11	4:39:22p	6/02/94	5279	350	350	3	00H	26	AFH	0FH																																																																																																							
FLT1=	0	0	0	0:00:00a	0/00/94	0	0	0	0	00H	0	00H	00H																																																																																																							
FLT2=	0	0	0	0:00:00a	0/00/94	0	0	0	0	00H	0	00H	00H																																																																																																							
FLT3=	0	0	0	0:00:00a	0/00/94	0	0	0	0	00H	0	00H	00H																																																																																																							
FLT	=	Fault number																																																																																																																		
COUNT	=	Number of occurrences																																																																																																																		
FLR	=	Floor where the error occurred																																																																																																																		
TIME	=	The time the fault occurred (from the system real time calendar clock)																																																																																																																		
DATE	=	Date of occurrence																																																																																																																		
DPP	=	Digital Position Pulse count																																																																																																																		
DMD	=	Demand velocity																																																																																																																		
VEL	=	Car's Velocity calculated from the Digital Position Pulse																																																																																																																		
DM	=	Digitizer Mode Value.																																																																																																																		
0	Stop																																																																																																																			
1	Acceleration																																																																																																																			
2	Roll																																																																																																																			
3	Top Speed																																																																																																																			
4	Flat Top																																																																																																																			
5	Deceleration																																																																																																																			
6	Leveling																																																																																																																			
7	Emergency																																																																																																																			
8	Inspection																																																																																																																			



<COMMAND>	DESCRIPTION OF CAR COMMAND
	<div>DZ = Door Zone status</div> <div>To interpolate the information below, convert the hexadecimal number under the DZ heading into a binary number. The 8-bit binary number will correspond to the bits shown below. Bit 0 will be the least significant, or the “right-most” bit. Wherever there is one (1) on the specified bit, this signifies that the item described next to the bit was active when the fault occurred.</div> <div><div>BITS</div><div><div>0 up level zone</div><div>1 up final level zone</div><div>2 down final level zone</div><div>3 down level zone</div><div>4 dz</div><div>5 Not Used</div><div>6 Not Used</div><div>7 Not Used</div></div></div> <div><div>SV = Car service type</div><div>Numbers shown correspond directly to status (no conversion needed)</div><div><div><div>0=INVALID</div><div>3=PWR LOSS</div><div>6=DRIVE FLT</div><div>9=EARTH Q.</div><div>12=CODE BLUE</div><div>15=INDEPEND</div><div>18=REAR DISC</div><div>21=DISP LOSS</div><div>24=LOAD BP</div><div>27=IR SERV</div><div>30=BLDG SVC</div><div>33=PRE ALARM</div><div>36=SEC RCALL</div></div><div><div>1=SAFETIES</div><div>4=INSPECT</div><div>7=CWT DRL</div><div>10=FIRE PH 2</div><div>13=EM RECALL</div><div>16=ATT</div><div>19=VIP</div><div>22=STOP SW</div><div>25=SECURITY</div><div>28=EMT</div><div>31=NIGHT SVC</div><div>34=PRIORITY</div><div>37=LOAD CAL</div></div><div><div>2=DRIVE OFF</div><div>5=### INIT</div><div>8=CTLSHUTDN</div><div>11=FIRE PH 1</div><div>14=HOMING</div><div>17=DOOR DISC</div><div>20=LBV IND</div><div>23=SERV PROT</div><div>26=AUTOMATIC</div><div>29=SPECIAL</div><div>32=SHUTTLE</div><div>35=EM RECALL</div></div></div></div> <div><div>CS = Car Status</div><div>Convert hexadecimal numbers to binary as in DZ above.</div><div><div>BITS</div><div><div>0 start sequence</div><div>1 run sequence</div><div>2 EMST (Emergency Stop Output)</div><div>3 EMSD (Emergency Stop Input)</div><div>4 SRU (Speed Reference Up)</div><div>5 SRD (Speed Reference Down)</div><div>6 up motion</div><div>7 down motion</div></div></div></div>



<COMMAND>	DESCRIPTION OF CAR COMMAND
	<p>DS = Door Status</p> <p>Convert hexadecimal numbers to binary as in DZ and CS above.</p> <p>BITS</p> <ul style="list-style-type: none"> 0 door open limit (DOL) 1 door close limit (DCL) 2 rear door close limit (RDCL) 3 rear door open limit (RDOL) 4 door open pilot 5 door close pilot 6 rear door open pilot 7 rear door close pilot
<p>FLTXn</p> <p>(See Error Code Definitions)</p>	<p>FauLTs (errors - see FLTn): This command shows the eXtended fault buffer corresponding to the faults shown with the above <FLT> command. The “n” value is set to the fault index number label from 0 to 23. From the <FLT> command example shown below, the “n” number is selected to retrieve additional fault information for fault code 80 stored at index number 0. Convert the hexadecimal numbers to binary for bit settings. (An explanation of the conversion process can be found on page 12-15.)</p> <p>C# 1=> FLTX3</p> <p>FLT,COUNT,FLR, TIME , DATE , DPP, DMD, VEL, DM, DZ, SV, CS, DS</p> <p>FLT 3=143, 1, 3, 7:34:45p, 1/01/00, 1762, 405, 441, 5, 00H, 26, 5EH, 03H</p> <p>CS1,CS2,CS3,CS4,VS1,VS2,VICV,VICDPP,CTS,CTCV,CPS,CPEDPP,MFS, BKS, GR</p> <p>00H, 32H,90H,7DH,20H,00H, 424, 1217, 03H, 0, 0DH, 1651, 00H, 90H, 201</p> <p>DS1,DS2,DS3,DRVCM,EX1,EX2,EX3,EX4,EX5</p> <p>00H,00H,00H, 0000H,00H,00H,00H,00H,00H</p> <p>The following details the headings in the above table, which are <u>NOT</u> to be confused with Control Status Word Bits (see page 11-1).</p> <p>CS1 = Car Status 1</p> <p>BITS</p> <ul style="list-style-type: none"> 0 Rope Gripper Trip 1 Rope Gripper Fault 2 Fault Trip 3 Relay Fault 4 Controller Fault 5 Motion Fault 6 Gate & Lock (GLR) Fault 7 Run Time-Out Fault <p>CS2 = Car Status 2</p> <p>BITS</p> <ul style="list-style-type: none"> 0 mg fault 1 Motion Master (elevator motion allowed) 2 Gate or Lock On Fault 3 Drive Fault 4 Communication Initialized Ok 5 Tach Direction (CCU DPP quadrature: 1=up, 0=dn)



<COMMAND>	DESCRIPTION OF CAR COMMAND
	<div data-bbox="857 275 1386 331"> <p>6 Tach Direction Error (Drive, CCU, VIC, or CPE) 7 CCU Tach Direction Error</p> </div> <div data-bbox="501 331 1261 604"> <p>CS3 = Car Status 3</p> <p>BITS</p> <ul style="list-style-type: none"> 0 Up Call Pilot 1 Down Call Pilot 2 At Floor Call Pilot 3 Drop Leveling Velocity Output (LVE) 4 Moving 5 Leveling 6 Lev DZ 7 CCU Thermal Sensor </div> <div data-bbox="501 632 1243 905"> <p>CS4 = Car Status 4</p> <p>BITS</p> <ul style="list-style-type: none"> 0 SYSTEM MASTER (SRD/SRU ok) 1 Proximity 2 CGS & DLS 3 Gate & Lock (GL) 4 SM Input From Contactor 5 MA Input From Contactor 6 BKR (Brake Relay) 7 Door Operation </div> <div data-bbox="501 932 1162 1205"> <p>VS1 = VIC Board Status 1</p> <p>BITS</p> <ul style="list-style-type: none"> 0 Slowdown Limit Fault (SLF) 1 Inspection Speed Fault (ISF) 2 GL Speed Fault (GLF) 3 Not Used 4 Not Used 5 Moving Up 6 Moving Down 7 Emergency Stop Fault (ESF) </div> <div data-bbox="501 1232 1222 1505"> <p>VS2 = VIC Board Status 2</p> <p>BITS</p> <ul style="list-style-type: none"> 0 Slowdown Fault At Limit 1 1 Slowdown Fault At Limit 2 2 Not Used 3 Not Used 4 Not Used 5 Not Used 6 0=Up Limit Fault, 1=Dn Limit Fault 7 Not Used </div> <div data-bbox="501 1533 1258 1589"> <p>VICV = Car's velocity from VIC (motor encoder) Digital Position Pulse</p> </div> <div data-bbox="501 1617 1036 1646"> <p>VICDPP = VIC Position Count (Unit: pulses/foot)</p> </div> <div data-bbox="501 1673 1148 1892"> <p>CTCS = CTC ETS Status</p> <p>BITS</p> <ul style="list-style-type: none"> 0 Up ETS limit hit 1 Down ETS limit hit 2 Up ETS limit error 3 Down ETS limit error 4 Up direction at ETS limit 5 Down direction at ETS limit </div>



<COMMAND>	DESCRIPTION OF CAR COMMAND
	<div data-bbox="857 279 1006 331"> <p>6 Not Used 7 Not Used</p> </div> <div data-bbox="667 359 1133 386"> <p>CTCV = CTC Velocity (Unit: ft/min)</p> </div> <div data-bbox="667 413 1214 466"> <p>CPES = CPE Car Position Encoder Status BITS</p> </div> <div data-bbox="857 470 1224 688"> <p>0 Position Count Memory Lost 1 Low Battery 2 No Battery Connected 3 Up direction from car encoder 4 Down direction from car encoder 5 Not Used 6 Not Used 7 Position count initialized</p> </div> <div data-bbox="667 716 1232 743"> <p>CPEDPP = CPE Position Count (Unit: dpp/foot)</p> </div> <div data-bbox="550 770 979 823"> <p>MFS = Motor Field Board Status BITS</p> </div> <div data-bbox="857 827 1133 1045"> <p>0 +24v fail 1 +15v fail 2 -15v fail 3 No AC Input to Board 4 Motor Field Fault 5 Not Used 6 Not Used 7 Not Used</p> </div> <div data-bbox="550 1073 922 1125"> <p>BKS = Brake Board Status BITS</p> </div> <div data-bbox="857 1129 1338 1373"> <p>0 +24v fail (N/A if IGBT Brake Board) 1 +15v fail (N/A if IGBT Brake Board) 2 -15v fail (N/A if IGBT Brake Board) 3 No AC Input to Board (N/A if IGBT Brake Board) 4 Brake Board Fault 5 Not Used 6 Not Used 7 On if IGBT Brake board used</p> </div> <div data-bbox="550 1400 1102 1428"> <p>GR = Car number of car that is the master:</p> </div> <div data-bbox="857 1457 979 1675"> <p>201 = car 1 202 = car 2 203 = car 3 204 = car 4 205 = car 5 206 = car 6 207 = car 7 208 = car 8</p> </div> <div data-bbox="454 1703 1433 1759"> <p>IF DSD-412 DRIVE: (If applicable, reference DSD Drive Manual - Book 3, especially fault codes f97 through f905)</p> </div> <div data-bbox="550 1759 862 1812"> <p>DS1 = Drive Status 1 BITS</p> </div> <div data-bbox="812 1816 1297 1896"> <p>0 Set to 1 for Synchronization (Comm. Status between drive and controller). 1 Set to 1 for Synchronization</p> </div>



<COMMAND>	DESCRIPTION OF CAR COMMAND
	<div data-bbox="808 279 1149 443"> <ul style="list-style-type: none"> 2 Tach Direction Is Up 3 Tach Direction Is Down 4 Tach Overspeed Fault (f97) 5 Tach Loss Fault (f98) 6 Reverse Tach Fault (f99) 7 Serial Comm Fault </div> <div data-bbox="501 470 1180 743"> <p>DS2 = Drive Status 2</p> <p>BITS</p> <ul style="list-style-type: none"> 0 Motor Fault (f400) 1 Excessive Field Current (f401) 2 Contactor Failure (f402) 3 Drive is at CEMF Limit 4 DH Input Fault (f405) 5 E-Stop Fault (f406) 6 A Drive Fault exists 7 Drive is Ready </div> <div data-bbox="501 770 1229 1043"> <p>DS3 = Drive Status 3</p> <p>BITS</p> <ul style="list-style-type: none"> 0 A "No Loop Fault" Exists (f900) 1 PCU 1st Fault (f901) 2 Line Synchronization Failure (f903) 3 Low Line Fault (f904) 4 Field Loss Fault (f905) 5 Not Used 6 Not Used 7 Not Used </div> <div data-bbox="501 1071 1169 1564"> <p>DRVCM = Drive Command</p> <p>BITS</p> <ul style="list-style-type: none"> 0 Set To 1 For Synchronization 1 Set To 1 For Synchronization 2 Run Command (SMC) 3 Fault Reset (AFR) 4 Run Down (SRD) 5 Run UP (SRU) 6 Full Field Command (FEI) 7 Not Used 8 Not Used 9 Not Used 10 Not Used 11 Not Used 12 Not Used 13 Not Used 14 Not Used 15 Not Used </div> <div data-bbox="406 1591 1250 1759"> <p>END DSD-412</p> <ul style="list-style-type: none"> EX1 = Extended Error Data 1 (programmer defined, call CEC) EX2 = Extended Error Data 2 (programmer defined, call CEC) EX3 = Extended Error Data 3 (programmer defined, call CEC) EX4 = Extended Error Data 4 (programmer defined, call CEC) EX5 = Extended Error Data 5 (programmer defined, call CEC) </div>



<COMMAND>	DESCRIPTION OF CAR COMMAND																																		
	<p>In the event of a support call to CEC, you may be asked to provide the appropriate bit description as listed below.</p> <p>Convert hexadecimal numbers to binary for bit settings:</p> <p>In the example shown on page 12-11, the value under CS4 is “7DH”. The “H” at the end of the value represents that it is a number in Hexidecimal.</p> <p>Break down the number 7D into its components of 7 and D.</p> <p>From the conversion chart below, we see that 7 is equivalent to binary 0111 and D is equivalent to 1101. We can then put it together to show that 7DH_{exidecimal} = 01111101_(binary).</p> <p>Some tips: In the binary system;</p> <ul style="list-style-type: none">▪ the right most digit is called the Least Significant Bit (LSB) or Bit 0.▪ the left most digit is called the Most Significant Bit (MSB) or Bit 7. <p style="text-align: center;">Conversion Chart</p> <table><thead><tr><th>Hex</th><th>Binary</th></tr></thead><tbody><tr><td>0</td><td>= 0000</td></tr><tr><td>1</td><td>= 0001</td></tr><tr><td>2</td><td>= 0010</td></tr><tr><td>3</td><td>= 0011</td></tr><tr><td>4</td><td>= 0100</td></tr><tr><td>5</td><td>= 0101</td></tr><tr><td>6</td><td>= 0110</td></tr><tr><td>7</td><td>= 0111</td></tr><tr><td>8</td><td>= 1000</td></tr><tr><td>9</td><td>= 1001</td></tr><tr><td>A</td><td>= 1010</td></tr><tr><td>B</td><td>= 1011</td></tr><tr><td>C</td><td>= 1100</td></tr><tr><td>D</td><td>= 1101</td></tr><tr><td>E</td><td>= 1110</td></tr><tr><td>F</td><td>= 1111</td></tr></tbody></table>	Hex	Binary	0	= 0000	1	= 0001	2	= 0010	3	= 0011	4	= 0100	5	= 0101	6	= 0110	7	= 0111	8	= 1000	9	= 1001	A	= 1010	B	= 1011	C	= 1100	D	= 1101	E	= 1110	F	= 1111
Hex	Binary																																		
0	= 0000																																		
1	= 0001																																		
2	= 0010																																		
3	= 0011																																		
4	= 0100																																		
5	= 0101																																		
6	= 0110																																		
7	= 0111																																		
8	= 1000																																		
9	= 1001																																		
A	= 1010																																		
B	= 1011																																		
C	= 1100																																		
D	= 1101																																		
E	= 1110																																		
F	= 1111																																		



<COMMAND>	DESCRIPTION OF CAR COMMAND																																																																
FPR	Floor Position Reference at present floor.																																																																
FPU	<p>Floor Position Update: Shows the position count of the car when reaches each door zone target, indicates the direction of hitting the target, if the position count was updated and shows the position count error at each target.</p> <p>C# 1=> FPU</p> <p>Floor Position Update Count for 2 in: 10</p> <table><tr><th>FLOOR</th><th>Position Count</th><th>Update Status</th><th>Error</th></tr><tr><td>1</td><td>0</td><td>00H</td><td>0</td></tr><tr><td>2</td><td>1828</td><td>01H</td><td>+ 2</td></tr><tr><td>3</td><td>2664</td><td>01H</td><td>+ 3</td></tr><tr><td>4</td><td>3499</td><td>01H</td><td>+ 3</td></tr><tr><td>5</td><td>4335</td><td>01H</td><td>+ 4</td></tr><tr><td>6</td><td>5170</td><td>01H</td><td>+ 3</td></tr><tr><td>7</td><td>6006</td><td>01H</td><td>+ 4</td></tr><tr><td>8</td><td>6842</td><td>01H</td><td>+ 5</td></tr><tr><td>9</td><td>7677</td><td>01H</td><td>+ 5</td></tr><tr><td>10</td><td>8513</td><td>01H</td><td>+ 6</td></tr><tr><td>11</td><td>9348</td><td>01H</td><td>+ 6</td></tr><tr><td>12</td><td>10184</td><td>01H</td><td>+ 7</td></tr><tr><td>13</td><td>11019</td><td>01H</td><td>+ 7</td></tr><tr><td>14</td><td>11854</td><td>01H</td><td>+ 6</td></tr><tr><td>15</td><td>12687</td><td>81H</td><td>+ 4</td></tr></table> <p>Update Status: 00H = no data 01H = Moving Up no update 02H = Moving Down no update 81H = Moving Up position count updated 82H = Moving Down position count updated</p>	FLOOR	Position Count	Update Status	Error	1	0	00H	0	2	1828	01H	+ 2	3	2664	01H	+ 3	4	3499	01H	+ 3	5	4335	01H	+ 4	6	5170	01H	+ 3	7	6006	01H	+ 4	8	6842	01H	+ 5	9	7677	01H	+ 5	10	8513	01H	+ 6	11	9348	01H	+ 6	12	10184	01H	+ 7	13	11019	01H	+ 7	14	11854	01H	+ 6	15	12687	81H	+ 4
FLOOR	Position Count	Update Status	Error																																																														
1	0	00H	0																																																														
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3	2664	01H	+ 3																																																														
4	3499	01H	+ 3																																																														
5	4335	01H	+ 4																																																														
6	5170	01H	+ 3																																																														
7	6006	01H	+ 4																																																														
8	6842	01H	+ 5																																																														
9	7677	01H	+ 5																																																														
10	8513	01H	+ 6																																																														
11	9348	01H	+ 6																																																														
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13	11019	01H	+ 7																																																														
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15	12687	81H	+ 4																																																														
FWL	Flash Write access Log. When data or program is written to flash memory or EEPROM the SPU the bios software will log the event in battery backed ram. This command prints the data log to the terminal screen. FWLC clears the write access log.																																																																
GET	GET/load the parameters from EEPROM: This command restores modified parameters. (Also verifies the checksum and displays any errors.) Note: COT, ULR, DLR, EUR, EDR, ESV & TSV parameters must all be valid for <GET> to return an 'OK'.																																																																
GRP	Enter the GRouP Human Interface (Prompt: Group =>)																																																																



<COMMAND>	DESCRIPTION OF CAR COMMAND																																																																																														
IOCn	<p>I/O Controller that controls I2C input/output boards. An IOC logical device that operates an I2C serial port to read input or output data from an I/O board. This device can be a microcontroller on the CCU board such as the MIC or VIC, a board in the TOC box such as the CTC that controls three I2C ports addressed as the TOC, COP and RCOP or an MPE used to expand car or group I/Os such as the MPC1 or CPC3. Displays the I/O status for each I/O board controlled by an intelligent device. “n” represents the device comm port number as listed table at the bottom of this entry.</p> <p>C# 1=> IOC1</p> <p>MIC IOC</p> <table><tr><td></td><td>1 2 3 4 5 6 7 8</td><td></td><td>1 2 3 4 5 6 7 8</td></tr><tr><td>Input:</td><td>=====</td><td>Output:</td><td>=====</td></tr><tr><td>1</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr><tr><td>2</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr><tr><td>3</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr><tr><td>4</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr><tr><td>5</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr><tr><td>6</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr><tr><td>7</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr><tr><td>8</td><td>0 0 0 0 0 0 0 0</td><td></td><td>0 0 0 0 0 0 0 0</td></tr></table> <p>Note: MIC is the I2C device controller (IOC).</p> <table><tr><td>Port #</td><td colspan="2">IIC device controller</td></tr><tr><td>0</td><td>VIC</td><td>Velocity Interface Controller</td></tr><tr><td>1</td><td>MIC</td><td>Motor room Interface Controller</td></tr><tr><td>2</td><td>MPC1</td><td>Motor Room Port Controller 1</td></tr><tr><td>3</td><td>MPC2</td><td>Motor Room Port Controller 2</td></tr><tr><td>4</td><td>MPC3</td><td>Motor Room Port Controller 3</td></tr><tr><td>5</td><td>MPC4</td><td>Motor Room Port Controller 4</td></tr><tr><td>6</td><td>MPC5</td><td>Motor Room Port Controller 5</td></tr><tr><td>7</td><td>MPC6</td><td>Motor Room Port Controller 6</td></tr><tr><td>8</td><td>TOC</td><td>Top of Car</td></tr><tr><td>9</td><td>COP</td><td>Car Operating Panel</td></tr><tr><td>10</td><td>RCOP</td><td>Rear Car Operating Panel</td></tr><tr><td>11</td><td>CPC1</td><td>Car Port Controller 1</td></tr><tr><td>12</td><td>CPC2</td><td>Car Port Controller 2</td></tr><tr><td>13</td><td>CPC3</td><td>Car Port Controller 3</td></tr><tr><td>14</td><td>CPC4</td><td>Car Port Controller 4</td></tr><tr><td>15</td><td>CPC5</td><td>Car Port Controller 5</td></tr><tr><td>16</td><td>CPC6</td><td>Car Port Controller 6</td></tr></table>		1 2 3 4 5 6 7 8		1 2 3 4 5 6 7 8	Input:	=====	Output:	=====	1	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	2	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	3	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	4	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	5	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	6	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	7	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	8	0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0	Port #	IIC device controller		0	VIC	Velocity Interface Controller	1	MIC	Motor room Interface Controller	2	MPC1	Motor Room Port Controller 1	3	MPC2	Motor Room Port Controller 2	4	MPC3	Motor Room Port Controller 3	5	MPC4	Motor Room Port Controller 4	6	MPC5	Motor Room Port Controller 5	7	MPC6	Motor Room Port Controller 6	8	TOC	Top of Car	9	COP	Car Operating Panel	10	RCOP	Rear Car Operating Panel	11	CPC1	Car Port Controller 1	12	CPC2	Car Port Controller 2	13	CPC3	Car Port Controller 3	14	CPC4	Car Port Controller 4	15	CPC5	Car Port Controller 5	16	CPC6	Car Port Controller 6
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4	MPC3	Motor Room Port Controller 3																																																																																													
5	MPC4	Motor Room Port Controller 4																																																																																													
6	MPC5	Motor Room Port Controller 5																																																																																													
7	MPC6	Motor Room Port Controller 6																																																																																													
8	TOC	Top of Car																																																																																													
9	COP	Car Operating Panel																																																																																													
10	RCOP	Rear Car Operating Panel																																																																																													
11	CPC1	Car Port Controller 1																																																																																													
12	CPC2	Car Port Controller 2																																																																																													
13	CPC3	Car Port Controller 3																																																																																													
14	CPC4	Car Port Controller 4																																																																																													
15	CPC5	Car Port Controller 5																																																																																													
16	CPC6	Car Port Controller 6																																																																																													



<COMMAND>	DESCRIPTION OF CAR COMMAND
LWR	Load Weigher Reading. Displays the load weigher voltage and percent load.
LWU[n]	<p>Load Weigher User interface setup. This command guides the user through the load weigher setup. If the LWU command is entered without a number immediately following, a list of four options are given for the user to select from show below:</p> <ol style="list-style-type: none"> 1. Proximity sensor setup. 2. Strain gauge sensor setup. 3. Observe sensor setup parameters. 4. Activate offset calibration procedure. <p>If proximity or strain gauge sensor setup is selected, the user is prompted for additional information to start the setup procedure. Once setup is activated, the following "LWU" commands are entered to validate the load condition of the car.</p> <p style="padding-left: 40px;">LWU1 - Command is entered when the sensor voltage is setup between 1.0 and 1.4 volts and the car is empty at the bottom landing.</p> <p style="padding-left: 40px;">LWU2 - Command is entered when the car has full load at the bottom floor.</p> <p style="padding-left: 40px;">LWU3 - Command is entered when the car has full load at the top floor.</p> <p style="padding-left: 40px;">LWU4 - Command is entered when the car is empty at the top floor.</p> <p>Note: <i>Can only be accessed via the Black terminal.</i></p>
MEN	CCU BIOS MEN u: Use to upload the software into FLASH memory without Wizard Program.
PAR	PAR ameters: This command offers a speedy way to Enter or Review all of the above adjustment parameters. Typing < PAR > <ENTER ↵> displays all parameters with a slight delay.
PARA	The ' A ' (Alter) suffix permits changing or reviewing all the PAR ameters. Each command will be displayed with the current value followed by a question mark. You can now change its value or hit <ENTER ↵> to skip to the next one.
POS	True Car POS ition, e.g. 1 through 15 (including 13)
RCC	Reset all Car Calls
RCM	Reset CoMM unication status log. Resets failure counts for all COMM devices (See < CMC > command)



<COMMAND>	DESCRIPTION OF CAR COMMAND
RDE	Reset Device Errors: Resets communication errors for the following boards: RDED Drive RDEV VIC device RDEB Brake Board or MIC device RDEM Motor Field Board RDEC CPE Board RDEE CTC (ETS) Board
RFL	Reset the FauLt Hold memory
RMA	Request MAster. When entered at the terminal of a car that is not the group, this car will request to become the master car, i.e. the group. The existing master car will relinquish group control to this car.
RSL	Request SLave. When entered at the terminal of the car that is currently the group controller, the car will relinquish group control to the next available car with the lowest car number. If no car is available, this car will time out and become the group again.
SCCn	Set Car Call at floor (n)
SDCn	Set Down Call at floor (n)
STD	STart Down: The <STU> and <STD> commands can be used while in automatic operation to provide a one (1) floor run up or down respectively.
STM	SeT Up Mode: This command allows car to run on inspection mode without the Digital Position Pulse while setting up the car,. This operating mode bypasses the normal safety check and prevents car from shutting down. This operating mode can also be initiated from front panel push buttons in the circuit breaker panel. If car loses power or if inspection switch is moved to automatic mode, elevator will automatically be removed from Setup mode.
STU	STart Up (similar to the Attendant Buttons): The <STU> and <STD> commands can be used while in automatic operation to provide a one (1) floor run up or down respectively.
SUCn	Set Up Call at floor (n)
TIM	Computer up TIME since the last power-up (day-hour:min:sec)
TIME	Set real TIME calendar clock. Time is entered as hour:min:sec followed by 'a' for am or 'p' for pm. To exit this command without changing the time, hit <ENTER ↵> before typing new time value. <p style="text-align: center;">Eg: Current time: 11:12:32p Enter new time: 10:22:30 a</p>
UCS	Up Call pilot Status (See CCS for explanations.)
ULBn	Car Velocity when the Up Limit (n) first Break open: This command is useful when adjusting TSV. It permits "freezing" the car velocity at the instant each terminal limit switches open.



<COMMAND>	DESCRIPTION OF CAR COMMAND																																								
VEL	Actual Car VE Locity in FPM																																								
VER	Displays software VER sions for all communications boards. See < CMC > command for description of devices: <u>DEVICE VERSION</u> (SYS= system; LOC= local; DRV= drive; HC= hall call) <table><tr><td>SYS</td><td>Ver</td><td>LOC</td><td>Ver</td><td>CAR</td><td>Ver</td><td>DRV</td><td>Ver</td><td>HC</td><td>Ver</td></tr><tr><td>201</td><td>010</td><td>9</td><td>008</td><td>8</td><td>006</td><td>2</td><td></td><td>44</td><td>006</td></tr><tr><td>202</td><td>010</td><td>11</td><td>008</td><td>18</td><td>005</td><td></td><td>211</td><td>006</td><td></td></tr><tr><td>212</td><td>003</td><td>12</td><td>007</td><td>19</td><td>006</td><td></td><td></td><td></td><td></td></tr></table>	SYS	Ver	LOC	Ver	CAR	Ver	DRV	Ver	HC	Ver	201	010	9	008	8	006	2		44	006	202	010	11	008	18	005		211	006		212	003	12	007	19	006				
SYS	Ver	LOC	Ver	CAR	Ver	DRV	Ver	HC	Ver																																
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202	010	11	008	18	005		211	006																																	
212	003	12	007	19	006																																				
VIC	Velocity Interface Controller Status: <u>Velocity Interface Controller Status</u> <i>*Slowdown Limit Fault</i> <i>*Inspection Speed Fault</i> <i>*INS Velocity: 110 fpm</i> <i>*Gate and Lock Speed Fault</i> <i>*GL Velocity: 150 fpm (0.76 m/s)</i> <i>Moving Dn</i> <i>Moving Up</i> <i>*Emergency Stop Fault</i> <i>VIC Velocity: 500 fpm (2.54 m/s)</i> <i>VIC position count: 1453</i> Note: Car must be traveling at velocity greater than 52 fpm (0.26 m/s) for VFC board to display velocity greater than 0. * Displayed only if corresponding fault condition occurs.																																								
VLT	Velocity Limit Test. Sets a test variable to disable the SPU from limiting the velocity when a slowdown limit is hit. This flag is set for a single run.																																								
WRT	WriTe parameters to EEPROM: This command stores changes in non-volatile memory. Note: It is not necessary to write <WRT> altered parameters immediately to EEPROM. You can test operation, continue to operate elevator, and store to EEPROM when satisfied. In case of removal of power to CPU, or if terminal is disconnected, parameters are restored to former value (no change occurs).																																								
ZON	ZONE floor: Displays floor to which car is zoning.																																								
ZPS	Zone Pilot Status (Refer to < CCS > command for explanation)																																								