

SWIFT[®]
MERIDIA

Speed. Precision. Control.

The logo for Meridia features a stylized globe of the Earth with green continents and blue oceans. Two elliptical orbital rings, one yellow and one red, encircle the globe. A small registered trademark symbol (®) is located to the right of the globe.

Service Manual

Draft 11

June 10, 2002



COMPUTERIZED ELEVATOR CONTROL CORP.
Moving People. Moving Business.



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	<p>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:</p>
BAS	<p>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.</p>
BBT	<p>Brake to Brake last travel Time: This command returns time period of last run performed by car.</p>
BDC	<p>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.</p>
CCS	<p>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:</p> <ul style="list-style-type: none"> 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: Must be done in Black Terminal screen with the doors on Door Disconnect. Note: If car is placed in Automatic Service, the call will continue to be answered. CCT must be disabled by re-entering the CCT command.</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>																																																																																																																																																				
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	<p>NOTE the following definitions: 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 CTC BK MF VIC MIC MPC1 MPC2 MPC3 MPC4	2 8 9 10 11 12 13 14 15 16	DRiVe System Car Top Controller BraKe Board Motor Field Velocity Interface Controller (on CCU board) Motor room Interface Controller (on CCU board) Motor room Port Controller 1 Motor room Port Controller 2 Motor room Port Controller 3 Motor room Port Controller 4



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	MPC6	18				Motor room Port Controller 6																																																																																																																																																																																												
	TOC	19				Top Of Car Device																																																																																																																																																																																												
	COP	20				Car Operating Panel																																																																																																																																																																																												
	RCOP	21				Rear Car Operating Panel																																																																																																																																																																																												
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	CPC5	26				Car Port Controller 5																																																																																																																																																																																												
	CPC6	27				Car Port Controller 6																																																																																																																																																																																												
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<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
<p>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</p>			



<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 border="1" data-bbox="407 474 1101 1010"> <thead> <tr> <th>FLOOR #</th> <th>COT</th> <th>FOF</th> <th>FCP</th> </tr> </thead> <tbody> <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> </tbody> </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
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CPY	<p>CoPY flash parameters to RAM or RAM parameters to flash. CPYR - Copies RAM parameters to flash. 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. Current date: 6/21/94 Enter new date: 7/26/94</p>																																																																
DCS	<p>Down Call pilot Status: a) Up Pilot -- down hall call above current car position 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="padding-left: 40px;">DPYD or DPYTD Enter diagnostic display mode. This mode will display the captured frames of the diagnostic display</p> <p style="padding-left: 40px;">Enter:</p> <p style="padding-left: 80px;"> to play Backward one frame</p> <p style="padding-left: 80px;"><F> to play Forward one frame</p> <p style="padding-left: 80px;"><C> to get Current frame</p> <p style="padding-left: 80px;"><CTRL> + <C> to quit diagnostic display mode</p> <p style="padding-left: 40px;">DPYT Displays all the DPY commands</p> <p style="padding-left: 40px;">DPYTS Setup diagnostic triggering</p> <p style="padding-left: 40px;">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="padding-left: 40px;"><i>VIC and CTC Emergency Limit Velocity</i></p> <p style="padding-left: 40px;">*Down Limit Fault at limit #</p> <p style="padding-left: 40px;">*Up Limit Fault at limit #</p> <p style="padding-left: 40px;"><i>Emergency Slowdown Velocity (ESV):</i></p> <p style="padding-left: 40px;">1= 350; 2= 450;</p> <p style="padding-left: 40px;">*Down Emergency Terminal Slowdown Fault</p> <p style="padding-left: 40px;">*Up Emergency Terminal Slowdown Fault;</p> <p style="padding-left: 40px;">**ETS Up Direction</p> <p style="padding-left: 40px;">**ETS Up Direction</p> <p style="padding-left: 40px;">ETS Velocity: 351</p> <p style="padding-left: 40px;">ETS Up Limit Position: 12184</p> <p style="padding-left: 40px;">ETS Down Limit Position: 0</p> <p style="padding-left: 40px;">* Displayed only if the corresponding fault condition occurs.</p> <p style="padding-left: 40px;">** Displayed according to direction entering or leaving the ETS limit.</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="padding-left: 40px;">EXES - Set bit to exclude error code from buffer. Eg. Type EXES54<ENTER> to exclude error code 54 from buffer.</p> <p style="padding-left: 40px;">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	<p>Floor position Count Preset: 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.</p> <p>C# 1=> FCP</p> <table border="1" data-bbox="391 646 1474 1262"> <thead> <tr> <th data-bbox="391 646 662 688">FLOOR #</th> <th data-bbox="662 646 933 688">COT</th> <th data-bbox="933 646 1205 688">FOF</th> <th data-bbox="1205 646 1474 688">FCP</th> </tr> </thead> <tbody> <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> </tbody> </table>				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
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<COMMAND>	DESCRIPTION OF CAR COMMAND
FLTn (See Error Code Definitions)	<p>FauLTs (Errors): The <i>MERIDIA</i>™ 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> <pre> C# 1>FLT0 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 </pre> <p>The headings in the above table are detailed below:</p> <ul style="list-style-type: none"> 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. <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 style="text-align: center;">Definitions</p> <ul style="list-style-type: none"> 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																																							
	<p>DZ = Door Zone status 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.</p> <p style="text-align: center;">BITS</p> <p style="padding-left: 40px;">0 up level zone 1 up final level zone 2 down final level zone 3 down level zone 4 dz 5 Not Used 6 Not Used 7 Not Used</p> <p>SV = Car service type Numbers shown correspond directly to status (no conversion needed)</p> <table style="margin-left: 40px; border: none;"> <tr> <td>0=INVALID</td> <td>1=SAFETIES</td> <td>2=DRIVE OFF</td> </tr> <tr> <td>3=PWR LOSS</td> <td>4=INSPECT</td> <td>5=### INIT</td> </tr> <tr> <td>6=DRIVE FLT</td> <td>7=CWT DRL</td> <td>8=CTLSSHUTDN</td> </tr> <tr> <td>9=EARTH Q.</td> <td>10=FIRE PH 2</td> <td>11=FIRE PH 1</td> </tr> <tr> <td>12=CODE BLUE</td> <td>13=EM RECALL</td> <td>14=HOMING</td> </tr> <tr> <td>15=INDEPEND</td> <td>16=ATT</td> <td>17=DOOR DISC</td> </tr> <tr> <td>18=REAR DISC</td> <td>19=VIP</td> <td>20=LBY IND</td> </tr> <tr> <td>21=DISP LOSS</td> <td>22=STOP SW</td> <td>23=SERV PROT</td> </tr> <tr> <td>24=LOAD BP</td> <td>25=SECURITY</td> <td>26=AUTOMATIC</td> </tr> <tr> <td>27=IR SERV</td> <td>28=EMT</td> <td>29=SPECIAL</td> </tr> <tr> <td>30=BLDG SVC</td> <td>31=NIGHT SVC</td> <td>32=SHUTTLE</td> </tr> <tr> <td>33=PRE ALARM</td> <td>34=PRIORITY</td> <td>35=EM RECALL</td> </tr> <tr> <td>36=SEC RCALL</td> <td>37=LOAD CAL</td> <td></td> </tr> </table> <p>CS = Car Status Convert hexadecimal numbers to binary as in DZ above.</p> <p style="text-align: center;">BITS</p> <p style="padding-left: 40px;">0 start sequence 1 run sequence 2 EMST (Emergency Stop Output) 3 EMSD (Emergency Stop Input) 4 SRU (Speed Reference Up) 5 SRD (Speed Reference Down) 6 up motion 7 down motion</p>	0=INVALID	1=SAFETIES	2=DRIVE OFF	3=PWR LOSS	4=INSPECT	5=### INIT	6=DRIVE FLT	7=CWT DRL	8=CTLSSHUTDN	9=EARTH Q.	10=FIRE PH 2	11=FIRE PH 1	12=CODE BLUE	13=EM RECALL	14=HOMING	15=INDEPEND	16=ATT	17=DOOR DISC	18=REAR DISC	19=VIP	20=LBY IND	21=DISP LOSS	22=STOP SW	23=SERV PROT	24=LOAD BP	25=SECURITY	26=AUTOMATIC	27=IR SERV	28=EMT	29=SPECIAL	30=BLDG SVC	31=NIGHT SVC	32=SHUTTLE	33=PRE ALARM	34=PRIORITY	35=EM RECALL	36=SEC RCALL	37=LOAD CAL	
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<COMMAND>	DESCRIPTION OF CAR COMMAND
	<p>DS = Door Status 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 (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 FLT,COUNT,FLR, TIME , DATE , DPP, DMD, VEL, DM, DZ, SV, CS, DS 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 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 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
	<p>6 Tach Direction Error (Drive, CCU, VIC, or CPE) 7 CCU Tach Direction Error</p> <p>CS3 = Car Status 3 BITS 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</p> <p>CS4 = Car Status 4 BITS 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</p> <p>VS1 = VIC Board Status 1 BITS 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)</p> <p>VS2 = VIC Board Status 2 BITS 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</p> <p>VICV = Car's velocity from VIC (motor encoder) Digital Position Pulse</p> <p>VICDPP = VIC Position Count (Unit: pulses/foot)</p> <p>CTCS = CTC ETS Status BITS 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</p>



<COMMAND>	DESCRIPTION OF CAR COMMAND
	<p>6 Not Used 7 Not Used</p> <p>CTCV = CTC Velocity (Unit: ft/min)</p> <p>CPES = CPE Car Position Encoder Status BITS 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> <p>CPEDPP = CPE Position Count (Unit: dpp/foot)</p> <p>MFS = Motor Field Board Status BITS 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> <p>BKS = Brake Board Status BITS 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> <p>GR = Car number of car that is the master: 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> <p>IF DSD-412 DRIVE: (If applicable, reference DSD Drive Manual - Book 3, especially fault codes f97 through f905)</p> <p>DS1 = Drive Status 1 BITS 0 Set to 1 for Synchronization (Comm. Status between drive and controller). 1 Set to 1 for Synchronization</p>



<COMMAND>	DESCRIPTION OF CAR COMMAND
	<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
	<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
	<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
	<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
	<p>END DSD-412</p> <p>EX1 = Extended Error Data 1 (programmer defined, call CEC)</p> <p>EX2 = Extended Error Data 2 (programmer defined, call CEC)</p> <p>EX3 = Extended Error Data 3 (programmer defined, call CEC)</p> <p>EX4 = Extended Error Data 4 (programmer defined, call CEC)</p> <p>EX5 = Extended Error Data 5 (programmer defined, call CEC)</p>



<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 border="1" style="margin-left: auto; margin-right: auto;"> <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
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F	= 1111																																		



<COMMAND>	DESCRIPTION OF CAR COMMAND																																																																
FPR	Floor P osition R eference at present floor.																																																																
FPU	<p>Floor Position Uppdate: 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 border="1" data-bbox="500 684 1179 1266"> <thead> <tr> <th>FLOOR</th> <th>Position Count</th> <th>Update Status</th> <th>Error</th> </tr> </thead> <tbody> <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> </tbody> </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
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FWL	Flash W rite access L og. 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 GR oup P 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 border="0"> <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 border="0"> <tr> <td>Port #</td> <td>IIC device controller</td> <td></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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<COMMAND>	DESCRIPTION OF CAR COMMAND
LWR	Load W eigher R eading. 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	R eset all C ar C alls
RCM	R eset C o M munication 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. Eg: Current time: 11:12:32p Enter new time: 10:22:30 a
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 border="0" style="margin-left: 40px;"> <thead> <tr> <th>SYS</th> <th>Ver</th> <th>LOC</th> <th>Ver</th> <th>CAR</th> <th>Ver</th> <th>DRV</th> <th>Ver</th> <th>HC</th> <th>Ver</th> </tr> </thead> <tbody> <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> </tbody> </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				
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VIC	Velocity Interface Controller Status: <p style="text-align: center;"><u>Velocity Interface Controller Status</u></p> <p><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></p> <p>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.</p>																																								
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)																																								