



**Table of Contents**

**SECTION 1 - SITE PLANNING & INSTALLATION**

Machine Room Layout.....	1-1
Machine Room Duct, Conduit and Wiring .....	1-3
Hoistway Switches, Tape and Tapeless Installation, Conduit and Wiring .....	1-7
Hall Position Indicator, Push Button and Hall Lantern Wiring .....	1-11
Car Top Box and Encoder Installation.....	1-14
Car Top Controller (CTC) and Encoder Wiring .....	1-14
COP and CC1 Board Installation.....	1-16
C.E.C. Door Board Installation .....	1-16
Car Safety Circuit Wiring .....	1-17
Car Gate Switch and Hoistway Door Locks .....	1-17
Load Weigher Mounting .....	1-18
Load Weigher Wiring .....	1-19

**SECTION 2 - MERIDIA STARTUP PROCEDURES With HPV 900**

Machine Room Preparations.....	2-1
Field Wiring Check.....	2-1
Verify Circuit Resistance.....	2-2
Isolation Transformer(s) Configuration .....	2-3
Controller Transformer Configuration .....	2-3
Jumper Configuration.....	2-4
AC Voltage and Switch Test .....	2-4
Circuit Breaker & Power Verification .....	2-4
CCU Power-up, Initialization .....	2-4
Setup Mode and WRT Command.....	2-5
Parameter Adjustment.....	2-6
Setting Up the Drive .....	2-7
Establishing Correct Direction and Speed.....	2-7
HPV Parameters.....	2-8
Moving the Car Inspection for Serial Drives .....	2-9
Inspection Operation .....	2-10

**SECTION 3 - MERIDIA STARTUP PROCEDURES With DSD 412**

Machine Room Preparations.....	3-1
Field Wiring Check.....	3-1
Verify Circuit Resistance.....	3-3
Isolation Transformer(s) Configuration .....	3-4
Controller Transformer Configuration .....	3-4
Choke Configuration .....	3-4
Jumper Configuration.....	3-4
AC Voltage and Switch Test .....	3-5
Circuit Breaker & Power Verification .....	3-5
CCU Power-up, Initialization .....	3-5
Setup Mode and WRT Command.....	3-6
Parameter Adjustment.....	3-7
Setting Up the Drive .....	3-8
Magnetek DSD 412 - Parameter Setup and Check.....	3-8
Saving Drive Parameters .....	3-8
Self Test.....	3-8
Self Tune.....	3-9



Moving the Car on Inspection for Serial Drives ..... 3-12  
 Inspection Operation ..... 3-13

**SECTION 6 - MERIDIA ADJUSTMENT PROCEDURES WITH HPV 900**

Hoistway Verification ..... 6-1  
   Inspection Operation..... 6-1  
   Door and Gate Check ..... 6-1  
   Safety Switch Check..... 6-1  
   Normal Limits Check..... 6-1  
   Vane and Switch Placement..... 6-1  
   DPP Setup ..... 6-3  
   Magnet Placement..... 6-5  
   Door Operator Check..... 6-5  
   Door Limit..... 6-5  
 Machine Room Verification ..... 6-5  
   Counter-weighting..... 6-6  
   Brake Setup ..... 6-6  
   CCU Communications ..... 6-8  
   Slowdown Switch Check..... 6-8  
   Selector and ETS Check..... 6-8  
   Car Position Encoder Test..... 6-8  
   Drive Parameters ..... 6-9  
   Auto-Setup (Hatch Scan)..... 6-9  
   Preparation for Running High Speed..... 6-10  
   Relevel Test ..... 6-10  
   One Floor Run ..... 6-10  
   Preset "S" Curves ..... 6-10  
   Obtaining High Speed..... 6-10  
   HPV-900 Adaptive Tune ..... 6-11  
   Final Approach Adjustmentst..... 6-11  
   Observing the "S" Curve on the Drive (HPV-900) (Optional) ..... 6-11  
   Floor Accuracy Adjustments ..... 6-14  
 Terminal Backup Setup and Tests ..... 6-14  
   Terminal Backup using the CCU ..... 6-14  
   Load Weigher Setup ..... 6-16  
   Setting Pre-torque..... 6-16  
   Additional Parameter Adjustments ..... 6-17  
 Miscellaneous Adjustments ..... 6-17  
   Setting the Hoistway Access ..... 6-17  
   Setting Earthquake Collision (If required) ..... 6-17  
   Various Door Parameter and Control Status Word Settings ..... 6-18  
   Buffer Test ..... 6-20  
   Over Speed Test..... 6-20

**SECTION 7 - MERIDIA ADJUSTMENT PROCEDURES WITH DSD 412**

Hoistway Verification ..... 7-1  
   Inspection Operation..... 7-1  
   Door and Gate Check ..... 7-1  
   Safety Switch Check..... 7-1  
   Normal Limits Check..... 7-1  
   Vane and Switch Placement..... 7-1  
   DPP Setup ..... 7-3  
   Magnet Placement..... 7-5  
   Door Operator Check..... 7-5  
   Door Limit..... 7-5



Machine Room Verification .....	7-5
Counter-weighting .....	7-6
Brake Setup .....	7-6
CCU Communications .....	7-8
Slowdown Switch Check.....	7-8
Selector and ETS Check.....	7-8
Car Position Encoder Test.....	7-8
Drive Parameters .....	7-9
Auto-Setup (Hatch Scan).....	7-9
Preparation for Running High Speed.....	7-10
Relevel Test .....	7-10
One Floor Run .....	7-10
Preset "S" Curves .....	7-10
Obtaining High Speed.....	7-10
DSD 412 Final Adjustments.....	7-11
Observing the "S" Curve on the Drive (DSD412) .....	7-12
Floor Accuracy Adjustments .....	7-14
Terminal Backup Setupe and Tests .....	7-14
Terminal Backup using the CCU .....	7-14
Load Weigher Setup .....	7-16
Setting Pre-torque.....	7-16
Additional Parameters Adjustment .....	7-17
Miscellaneous Adjustments.....	7-17
Setting the Hoistway Access .....	7-17
Setting Earthquake Collision (If required) .....	7-17
Various Door Parameter and Control Status Word Settings .....	7-18
Buffer Test .....	7-20
Over Speed Test.....	7-21
 <b>SECTION 10 - MERIDIA GROUP SETUP</b>	
HPU Hall Call Activation .....	10-1
I <sup>2</sup> C Hall Call Activation.....	10-1
Setting Additional Group Parameters .....	10-2
Group Dispatching .....	10-2
Parking One or More Cars at the Lobby.....	10-2
Zoning Setup.....	10-2
Up Peak and Down Peak.....	10-3
Setting Elevator ETA Parameters in the Group.....	10-3
 <b>SECTION 11 –DIAGNOSTICS</b>	
Terminal Mode Operation .....	11-1
Wizard Mode Operation .....	11-2
Controller Commands & Parameters .....	11-2
Line Editing And Control Characters .....	11-2
Power-Up Or Reset Message Sequence .....	11-3
Log-On .....	11-4
Changing Passwords .....	11-4
 <b>SECTION 12 - CAR COMMANDS AND PARAMETERS</b>	
Car Diagnostic Commands .....	12-1
 <b>SECTION 13 - CAR ADJUSTMENT PARAMETERS</b>	
 <b>SECTION 14 - CONTROL STATUS WORD BIT COMMANDS (CAR)</b>	



**SECTION 15 - CONTROLLER ERROR CODE DEFINITIONS**

**SECTION 16 – GROUP COMMANDS**

Group Diagnostic Commands..... 16-1

**SECTION 17 - GROUP ADJUSTMENT PARAMETERS**

Group Related Car ETA Parameters..... 17-5

**SECTION 18 - CONTROL STATUS WORD BIT COMMANDS (GROUP)**

CSW Group (Control Status Word 0) ..... 18-1  
CS1 Group (Control Status Word 1)..... 18-2  
CS2 Group (Control Status Word 2)..... 18-2  
CS3 Group (Control Status Word 3)..... 18-3  
CS4 Group (Control Status Word 4)..... 18-3  
CS5 Group (Control Status Word 5)..... 18-4  
CS6 Group (Control Status Word 6)..... 18-4  
CS7 Group (Control Status Word 7)..... 18-4  
CS8 Group (Control Status Word 8)..... 18-5  
CS9 Group (Control Status Word 9)..... 18-5

**SECTION 19 - TROUBLESHOOTING**

Troubleshooting Flowcharts ..... 19-2  
CCU Display Sub-menu Reference Charts ..... 19-7  
SCR Drive Information..... 19-14

**SECTION 20 - GLOSSARY**