

Dealer Service Bulletin #150

Avenger Controller Settings



S-Drive Default Program

Control Type: D51446.06

Controller Serial Number: BS18104474

Speed Settings

Fast

Slow

Forward Acceleration (0.1 Seconds)	30	20
Forward Deceleration (0.1 Seconds)	12	12
Reverse Acceleration (0.1 Seconds)	40	35
Reverse Deceleration (0.1 Seconds)	12	12
Max Forward Speed (%)	70	50
Min Forward Speed (%)	50	30
Max Reverse Speed (%)	40	35
Min Reverse Speed (%)	27	18
Speed Limit Pot Enabled	On	

Operation Settings

Sleep Timer (Minutes)	20
Throttle Invert	No

General Settings

Soft Stop	On	
Brake Time (Milli-Seconds)	1000	
Output Voltage (Volts)	24	
Status Output Type	1	(0=Trucharge, 1=LED, 2=Analogue)
Diagnostic Flash Sequence	4	
Reverse Alarm	On	
Reverse Alarm Tone	0	(S Drive 120,140,180A) (S Drive II)
Pulsed Reverse Alarm	On	
Diagnostic Alarm	On	
Diagnostic Alarm Tone	0	(S Drive 120, 140, 180A) (S Drive II)
Brake Disconnected Alarm	Off	
Brake Fault Detect	On	
Brake Light	Off	
Push Too Fast Threshold	100	
Push Too Fast Timeout	2	
Freewheel Enable	Enable	
Inhibit 2 Horn Input Enable	Off	(S Drive 120, 140, 180A) (S Drive II)
Thermal Shutdown Trip	Yes	

Factory Settings

Max

Min

Acceleration (0.1 Seconds)	100	1
Deceleration (0.1 Seconds)	100	1
Forward Speed (%)	100	0
Reverse Speed (%)	100	0
Deceleration Taper	0	(S Drive II Only)

Dealer Service Bulletin #150

Avenger Controller Settings



Battery Settings

Low Battery Flash Level (Bars)	0	
Cable Resistance (Mili-Ohms)	40	
Calibration Factor	100	
Low Battery Alarm	On	
Low Battery Alarm Tone	0	(S Drive 120,140,180A) (S Drive II)
Trucharge Reset Voltage (Deci-Volts)	200	(S Drive 180A) (S Drive II)
Battery Curve Scaler	0	
Low Voltage Cut-Out (Deci-Volts)	160	
Low Voltage Cut-Out (Secs)	255	

Motor Settings

Current Limit Max (Amps)	130	
Boost Drive Current (Amps)	155	
Boost Drive Time (Seconds)	5	
Current Foldback Threshold (Amps)	126	
Current Foldback Time (Seconds)	15	
Current Foldback Level (%)	100	
Motor Cooling Time (Seconds)	1905	
Current Foldback Temperature (°C)	80	
Current Limit Min (Amps)	45	
Motor Stall Timeout (Seconds)	15	(S Drive II Only)
Motor Compensation (Milli-Ohms)	20	
Anti Rollback Level	12	(S Drive Only)
Pull Away Delay (Centi-Seconds)	30	(S Drive Only)
Slope Factor	500	(S Drive Only)
Anti Rollback Velocity	0	(S Drive Only)
Braking Current Limit (Amps)	120	(S Drive 180A) (S Drive II)
Timed Foldback Braking Current (Amps)	120	(S Drive 180A) (S Drive II)
Timed Foldback Speed (%)	0	(S Drive 180A) (S Drive II)
Enhanced Motor Compensation (Up) (%)	190	(S Drive II Only)
Enhanced Motor Compensation (Down) (%)	110	(S Drive II Only)
Enhanced Motor Compensation (Up) Gain	88	(S Drive II Only)

Throttle Settings

Throttle Type	1	(0=Single-Ended, 1=Wig-Wag, 2=Unipolar)
Throttle Deadband (%)	20	
Throttle Gain (%)	165	
Throttle Operated at Power-up	2	(0=Drive, 1=Inhibit, 2=Trip)
Throttle Reference Test	On	
ISO Test Resistor	Off	
Timed Throttle Invert	0	(0=Off, 1=Inhibit, 2=Inhibit 3) (S Drive Only)

Dealer Service Bulletin #150

Avenger Controller Settings



Inhibit Settings

Inhibit 1: Mode	1
Inhibit 1: Operation	Latching
Inhibit 1: Speed (%)	0
Inhibit 2: Mode	1
Inhibit 2: Operation	Non-Latching
Inhibit 2: Speed (%)	65
Inhibit 3: Mode	1
Inhibit 3: Operation	Latching
Inhibit 3: Speed (%)	0
Aux Output: Mode	0
Inhibit 2 Aux Output	0 (S Drive II Only)