SC-1 Quick Reference Guide (OS firmware version 3) by Draper

This Sheet uses # for the receiver's main channel number - new units will use a 1 where # is.
Note that # can also be ALL if you want to program several receivers S = Stop C = Close 0 = Open

	LED	on	blink	blink	off
Reset EVERYTHING to factory default	S+7+7	O ALL	hold 5 sec. until blink		S
Reset everything ***except*** main channel to factory default	S+7+7	O #	C ALL		S
Main Channel to "N"ew channel (N = 1 through 59),	S+7+7	O #	C 1	O "N"	S
1ST Group Channel to "N"ew channel (N = 1 through 60)	S+7+7	O #	C 2	O "N"	S
1ST Group Channel OFF	S+7+7	O #	C 2	O ALL	S
Set 2ND Group Channel (same as above)	S+7+7	O #	C 3	O "N"	S
Set 3RD Group Channel (same as above)	S+7+7	O #	C 4	O "N"	S
Set 4TH Group Channel (same as above)	S+7+7	O #	C 5	O "N"	S
Set 5TH Group Channel (same as above)	S+7+7	O #	C 13	O "N"	S
Set 6TH Group Channel (same as above)	S+7+7	O #	C 14	O "N"	S
Set "Sequential Action" Channel (same as above)	S+7+7	O #	C 20	O "N"	S
Set "Specific Stop" Channel (same as above)	S+7+7	O #	C 22	O "N"	S
Reset the following options to factory default	S+7+7	O #	C 6	O ALL	S
Momentary Motor Action	S+7+7	O #	C 6	O 1	S
Reverse Motor Direction	S+7+7	O #	C 6	O 2	S
Do NOT Act on ALL buttons from Transmitter	S+7+7	O #	C 6	O 3	S
Stop On Transmitter Button Release	S+7+7	O #	C 6	O 8	S
Disable the Deadbeat Counter	S+7+7	O #	C 6	O 11	S
Enable the Deadbeat Counter, and reset it to 120	S+7+7	O #	C 6	O 12	S
Reset the following options to factory default	S+7+7	O #	C 7	O ALL	S
SPST Manual switch	S+7+7	O #	C 7	O 1	S
Stop On SPDT Manual Switch Release	S+7+7	O #	C 7	O 3	S
Swap Open and Close on SPDT, Invert SPST	S+7+7	O #	C 7	O 5	S
Enable SPST Magnetic Switch as Override	S+7+7	O #	C 7	O 6	S
Turn off all "A" intermediate stops (factory default)	S+7+7	O #	C 10	O ALL	S
Enable "Intermediate Stop A" on the main channel	S+7+7	O #	C 10	O 1	S
Enable "Int. Stop A" on 1ST group channel	S+7+7	O #	C 10	O 2	S
Enable "Int. Stop A" on 2ND group channel	S+7+7	O #	C 10	O 3	S
Enable "Int. Stop A" on 3RD group channel	S+7+7	O #	C 10	O 4	S
Enable "Int. Stop A" on 4TH group channel	S+7+7	O #	C 10	O 5	S
Enable "Int. Stop A" on 5TH group channel	S+7+7	O #	C 10	O 6	S
Enable "Int. Stop A" on 6TH group channel	S+7+7	O #	C 10	O 14	S
Enable "Int. Stop A" on the ALL channel	S+7+7	O #	C 10	O 7	S
Enable "Int. Stop A" on Manual Switches	S+7+7	O #	C 10	O 8	S
Calibrate the travel times ***Required for using Int. Stop A or B***	S+7+7	O #	C 10	O 10	**
Reference the bottom (close limit) instead of top (open) *(if both A & B stops are set on a channel, A takes precedence)*	S+7+7	O #	C 10	O 11	S
"Intermediate Stop A Open Button," default is 20% closed Set to 10x+y percent of travel time away from reference end min = 0 0 (at ref.), max = 9 9 (opposite limit) use O10 for 0	S+7+7	O #	C 11	Ox Oy	S
"Intermediate Stop A Close Button," default is 80% closed	S+7+7	O #	C 12	Ox Oy	S
Turn off all "B" Intermediate stops (factory default)	S+7+7	O #	C 15	O All	S
Enable "intermediate Stop B" on the main channel	S+7+7	O #	C 15	O 1	S
Enable "Int. Stop B" on 1ST group channel	S+7+7	O #	C 15	O 2	S
Enable "Int. Stop B" on 2ND group channel	S+7+7	O #	C 15	O 3	S
Enable "Int. Stop B" on 3RD group channel	S+7+7	O #	C 15	O 4	S
Enable "Int. Stop B" on 4TH group channel	S+7+7	O #	C 15	O 5	S
Enable "Int. Stop B" on 5TH group channel	S+7+7	O #	C 15	O 6	S
Enable "Int. Stop B" on 6TH group channel	S+7+7	O #	C 15	O 14	S
Enable "Int. Stop B" on the ALL channel	S+7+7	O #	C 15	O 7	S
Enable "Int. Stop B" on Manual Switches *(if both A & B stops are set on a channel, A takes precedence)*	S+7+7	O #	C 15	O 8	S
"Intermediate Stop B Open Button," default is 40% closed	S+7+7	O #	C 16	Ox Oy	S
"Intermediate Stop B Close Button," default is 60% closed	S+7+7	O #	C 17	Ox Oy	S

** There is no Stop button press at the end of the calibration command. Calibration required for Int. Stops to work.**

411 S. Pearl St., Spiceland, IN 47385 USA ▮ 765-987-7999
www.draperinc.com ▮ fax 765-987-7142

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Defaults:

Main Channel = 1, Group Channels 1-6 = off, no sequencing action channel,
Maintained Motor Action, Standard Motor Direction, Act on ALL buttons from Transmitter, Standard action on the group buttons, Standard IR Release Time, Do not Stop On Transmitter Button Release, Deadbeat Counter Disabled, Demo mode Off.
SPDT Manual Switch, Standard Timing, Do not Stop On Switch Release, Standard action (not sticky), Switch inputs as labeled, Magnetic Switch Override Disabled.
Run Time = 180 sec.
Standard accuracy on Intermediate stops, Intermediate stop reference is at the top, "Auto Tilt" not enabled, Travel Time unknown (i.e., not calibrated).
Intermediate Stop A not enabled on any channel or on the manual switch, Open to Int. Stop A = 20%, Close to Int. Stop A = 80%, no nudge amount.
Intermediate Stop B not enabled on any channel or on the manual switch, Open to Int. Stop B = 40%, Close to Int. Stop B = 60%, no nudge amount.
Minimum load = 0.144A (17 Watts).
Stall load = 6.04 Amps (the maximum rating of the unit at 115V, 695 Watts).
Turn on Delay time = 0 sec (immediate).

Calibration & Intermediate stops:

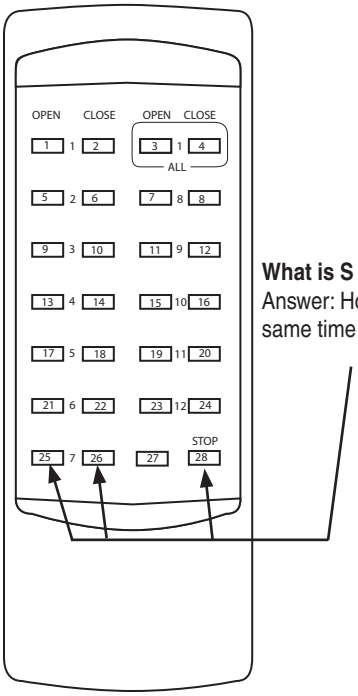
If you are changing the motor direction (C6 O2) or Using the bottom reference (C10 O11), these options must be selected before doing the calibration (C10 O10).
The motor limits must be set before doing the calibration. If the limits are changed, then you must recalibrate.
Calibration is required before intermediate stops will work. If the unit is not calibrated correctly, the intermediate stops will be different when going open than when going closed. The stops will also be off if the material is thick, or if the motor does not move at a constant speed in both directions.
The intermediate stops are calculated based on % of travel time plus nudge offset.
% and nudge can be set before calibration if so desired.
20% = rolling shade barely closed = 20% down from top (assuming top is reference)
If travel time is unknown (not yet calibrated), all intermediate stop commands are ignored.
If you are changing the intermediate stop percent, then you must calibrate the unit after entering the new percent before it becomes active.
If the unit is calibrated and power cycles, and an intermediate stop button is pressed before the unit goes to the reference, then the command will cause the motor to "auto reset," i.e., go to the reference limit, then back to the intermediate stop.

Standard action:

There is an auto reset every 6TH intermediate stop movement if the motor does not go to either limit. Any user action that stops the motor part way will cause the next intermediate stop command to auto reset.

There is an auto reset if an intermediate stop command is received that will cause the motor to go up, or if the motor has gone up anytime since being at the top.

This Quick Reference guide does not include all SC1 features. If you have a questions on a possible features, please contact Draper, Inc.
24 Channel IR Remote (C072.017) and IR eye required for prgramming. SC1's are factory set channel 1. SGC4's are factory set channel 1.
SPGC4 has 4 SC1's with factory set main channels 1 through 4. Main channel information applies to step 2 of programming (see below).



What is S + 7 + 7 ?
Answer: Hold all three buttons at the same time to get "into" program mode.

Special Program Note:

Wait no more than 8 seconds between steps or SC1 exits program mode.

Example:

I need to change the SC1 main channel from current channel to a new channel. **From Above:**

S+7+7,	O#	C1	O "N"	Stop.
Step 1	Step 2	Step 3	Step 4	Step 5

Step 1-Remote Into Program Mode
S+7+7, see left, remote LED in upper left will blink on release of buttons if step is done properly.

Step 2- SC1 Into Program Mode
O# is open button of current SC1 main channel. SC1 LED will light if step is done correctly.

Step 3- File On SC1 To Change
Hit close of channel listed, SC1 LED will blink.

Step 4- Change File
Hit open of channel listed or wanted, SC1 LED will blink.

Step 5- Stop
Hit red Stop button, except calibration, LED will go off.