## DSC100 (Dual Slide Controller) KIB/Newmar 11/08/2007

## **SET SOFT LIMITS (PROGRAM MODE):**

Soft limits must be set before entering the user operation mode. If soft limits are unset all LED's will be flashing on board. To enter the program mode press the program switch, the program led will be the only one on. Note that in this mode the user switch is inactive. Also note in this mode that motors will move independently.

Begin by pressing the program switch, the program led will turn on. Press either extend or retract switches to move the slide room to the desired soft limit position. Once in the desired soft limit position press and hold the program switch followed by the direction that is to be set, the retract or extend led will turn on to show that the direction has been programmed, release switches. Any of the four direction switches can be pressed while the program switch is held, be aware that individual motors are not being set, but both motors soft limits are being set at the same time. If the soft limit needs changed or was accidentally set the soft limit will need unset. To do this press and hold the program switch followed by the direction that is to be unset. Note that if at any point the slide room motors slip or jump, both directions will need to be reprogrammed.

## **USER OPERATION MODE:**

In this mode only the user switch is active. When the slide switch is pressed and held in the extend position the paddle-locks, if equipped, will unlock completely before the wall begins to move. As soon as the paddle locks have fully unlocked the wall will instantly begin to extend until the factory extend soft limits are reached, or until an obstruction is encountered. When the slide switch is pressed and held in the retract position the wall will begin to retract until the factory retract soft limits are reached, or until an obstruction is encountered. Once retract soft limits are reached the paddle-locks, if equipped, will begin to lock until individually they reach end of travel.

There are some unseen safety features that might be encountered. The first one is the slide room motors only move if the user switch is pressed, if for any reason the user releases the switch the system will stop. The second is that the wall must travel the factory set distances on retract before the paddle-locks, if equipped, will lock. If for some reason the paddle-locks do not lock on retract, extend the room to the soft limits and try again. The third is the control board is constantly monitoring the current of the motors, if an obstruction is reached the room will stop. The room will start where it stopped on the next switch press, but it is advised to walk around the slide room inside and out and look for obstruction, because the next switch press will allow more current to overcome the obstruction. The forth is that the motors are constantly being compensated to keep the rooms square, it is normal that one motor may stop while the other motor continues to move. The fifth is if the ignition is on, the slide room will only be allowed to move in.

## **ENCODER ERROR MODE:**

lincoder error mode occurs when one of the two encoders send bad or no information to the DSC\_100 board, this is represented by the COMP SIDE A and/or B LED flashing constantly. While in this mode current and encoder info are ignored, this gives the user the chance to manually reposition the wall. To get out of this mode press the program switch, this should only be done after the problem has been solved, otherwise the unit will return to the encoder error mode. After pressing the program button the soft limits must be reset, failure to do this will result in a misaligned room with unknown soft limits.

TROUBLESHOOTING:

Problem	Cause	Solution
Slide room will not move by user switch and the individual adjust LED is flashing while switch is held.	Battery is to low	Recharge batteries.
Slide room will not move and all LED's are flashing.	The soft limits have not been taught.	Set soft limits.
While the wall is moving the COMPA and/or B LED lickers.	Motors are compensating speed to keep the room square.	There is no problem this is normal.
The retract LED and/or extend LED flashes.	The ignition is turned on.	Turn the ignition off.
Extend LED is lit while switch is pressed, but slide room is not moving.	Paddle locks have not unlocked fully.	Check all paddle lock wires and motors. If unit does not have paddle locks check for two red jumpers on control board.
Paddle locks never lock.	Paddle lock motors are not working.	Check paddle lock wires.
Only the front motor is moving while pressing user switch or LED COMP A is flashing constantly.	The front motors encoder is slipping or is broken.	Check set screws on front encoders' coupler. Check that 7V exist on blue and brown wires of the encoder.
Only the back motor is moving while pressing user switch or LED COMP B is lashing constantly.	The back motors encoder is slipping or is broken.	Check set screws on back encoders' coupler. Check that 7V exist on blue and brown wires of the encoder.

