

SERVOREELER SYSTEMS

XEDIT Corporation

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Queens Village, New York 11429

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Tel: (718) 464-9400 Fax:(718) 464-9435

SRC-12 Controllers

INSTALLATION ADDENDUM ADDITIONAL INSTRUCTIONS FOR CONNECTOR PIN-OUTS

DB-50

<u>PIN</u>	<u>Function</u>	<u>PIN</u>	<u>Function</u>
1-	# 1 up/control	26-	down/control
2-	# 2 up/control	27-	down/control
3-	# 3 up/control	28-	down/control
4-	# 4 up/control	29-	down/control
5-	# 5 up/control	30-	down/control
6-	# 6 up/control	31-	down/control
7-	# 7 up/control	32-	down/control
8-	# 8 up/control	33-	down/control
9-	# 9 up/control	34-	down/control
10-	#10 up/control	35-	down/control
11-	#11 up/control	36-	down/control
12-	#12 up/control	37-	down/control
13-		38-	
14-		39-	
15-		40-	
16-		41-	
17-		42-	
18-		43-	
19-		44-	
20-		45-	
21-	M-Up Sense	46-	M-Down Sense
22-	Master Up	47-	Master Down
23-	Auto enable	48-	F/P lockout
24-	Jumper to 23	49-	Jumper to 48
25-	+24V	50-	Common

Pins 21 & 46 open

RJ-45 Pinout/signal distribution

1-	Down Sense Output
2-	Down Control Input
3-	Common
4-	+24Vdc
5-	+24Vdc
6-	Common
7-	Up Control Input
8-	Up Sense Output

NOTES:

- 1- To enable the front panel Master station, remove jumper (a) between pins 48 & 49.
- 2- To disable Automatic, single pulse, mode activation, remove jumper (b) bet. Pins 23 & 24.
- 3- These jumpers are installed on the cable-plug that is provided.
- 4- To test the system utilizing the front panel Master, simply unplug the DB-50 from the DB-50 chassis connector. After testing, replace the connector and the front panel Master will revert to being disabled (normal configuration)-Should you wish to have the front panel Master always enabled, remove jumper (a).
- 5- Automatic operation is selected by retaining or removing jumper (b)
- 6- Up and Down multi-turn speed trimmers are located on the rear panel of the controller.
- 7- SPEED TRIM CAUTION: When switched ceiling bezels are used, take care not to set the retraction speed too high. An excessively high retraction speed will impair the ability of the bezel reed switch to trip in time to stop microphone motion within the confines of the bezel.
- 8- To install a remotely located Master station; feed 24Vdc to momentary UP/DOWN push-buttons with their outputs feeding Pin 22 for (UP) and Pin 47 for (DOWN) Master control.
- 9- Led driver outputs, pins 11-20 & 36-45 are provided with pushbutton operated controllers.

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SRC-12 two section Controller

INSTALLATION ADDENDUM
ADDITIONAL INSTRUCTIONS
FOR CONNECTOR PIN-OUTS

DB-50

<u>PIN</u>	<u>Function</u>	<u>PIN</u>	<u>Function</u>
1-	# 1 up/control	26-	down/control
2-	# 2 up/control	27-	down/control
3-	# 3 up/control	28-	down/control
4-	# 4 up/control	29-	down/control
5-	# 5 up/control	30-	down/control
6-	# 6 up/control	31-	down/control
7-	# 7 up/control	32-	down/control
8-	# 8 up/control	33-	down/control
9-	# 9 up/control	34-	down/control
10-	#10 up/control	35-	down/control
11-	#11 up/control	36-	down/control
12-	#12 up/control	37-	down/control
13-		38-	
14-		39-	
15-		40-	
16-		41-	
17-		42-	
18-		43-	
19-	Master B Up sense	44-	Master B Down sense
20-	Master B Up (7-12)	45-	Master B Down (7-12)
21-	Master A Up sense	46-	Master A Down sense
22-	Master A Up (1-6)	47-	Master A Down (1-6)
23-	Auto enable	48-	F/P lockout
24-	Jumper to 23	49-	Jumper to 48
25-	+24V	50-	Common

Pins 21 & 46 open

RJ-45 Pinout/signal distribution

- 1- Down Sense Output
- 2- Down Control Input
- 3- Common
- 4- +24Vdc
- 5- +24Vdc
- 6- Common
- 7- Up Control Input
- 8- Up Sense Output

} see note (1)

NOTES:

- 1- The actual split for the two master buses may vary according to project requirement.
- 2- The Master sense lines are high when the Servoreeler in motion and low when stopped.
- 3- To enable the front panel Master station, remove jumper (a) between pins 48 & 49.
- 4- To disable Automatic, single pulse, mode activation, remove jumper (b) bet. Pins 23 & 24.
- 5- These jumpers are installed on the DB-50 male cable-connector that is provided.
- 6- To test the system utilizing the front panel Master, simply unplug the DB-50 from the DB-50 chassis connector. After testing, replace the connector and the front panel Master will revert to being disabled (normal configuration)-Should you wish to have the front panel Master always enabled, remove jumper (a).
- 5- Automatic operation is selected by retaining or removing jumper (b)
- 6- Up and Down-multi-turn speed trimmers are located on the rear panel of the controller.
- 7- **SPEED TRIM CAUTION:** When switched ceiling bezels are used, take care not to set the retraction speed too high. An excessively high retraction speed will impair the ability of the bezel reed switch to trip in time to stop microphone motion within the confines of the bezel.
- 8- To install a remotely located Master station; feed 24Vdc to momentary UP/DOWN push-buttons with their outputs feeding Pin 22 for (UP) and Pin 47 for (DOWN) Master control.
- 9- Led driver outputs, pins 13-22 & 38-47 are provided with pushbutton operated controllers.

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SRC-12 Three sub-section Controller

INSTALLATION ADDENDUM
ADDITIONAL INSTRUCTIONS
FOR CONNECTOR PIN-OUTS

DB-50

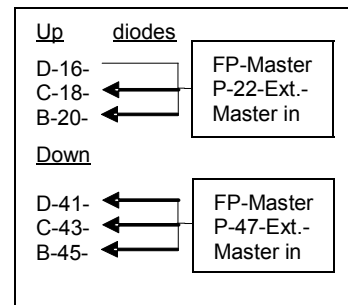
PIN	Function	PIN	Function
1-	# 1 up/control	26-	down/control
2-	# 2 up/control	27-	down/control
3-	# 3 up/control	28-	down/control
4-	# 4 up/control	29-	down/control
5-	# 5 up/control	30-	down/control
6-	# 6 up/control	31-	down/control
7-	# 7 up/control	32-	down/control
8-	# 8 up/control	33-	down/control
9-	# 9 up/control	34-	down/control
10-	#10 up/control	35-	down/control
11-	#11 up/control	36-	down/control
12-	#12 up/control	37-	down/control
13-		38-	
14-		39-	
15-	Section D Up Sense	40-	Section D Down Sense
16-	Section D Up (9-12)	41-	Section D Down (9-12)
17-	Section C Up Sense	42-	Section C Down Sense
18-	Section C Up (5-8)	43-	Section C Down (5-8)
19-	Section B Up sense	44-	Section B Down sense
20-	Section B Up (1-4)	45-	Section B Down (1-4)
21-	Master A Up sense	46-	Master A Down sense
22-	Master A Up (all)	47-	Master A Down (all)
23-	Auto enable	48-	F/P lockout
24-	Jumper to 23	49-	Jumper to 48
25-	+24V	50-	Common

Pins 21 & 46 open

RJ-45 Pinout/signal distribution

- 1- Down Sense Output
- 2- Down Control Input
- 3- Common
- 4- +24Vdc
- 5- +24Vdc
- 6- Common
- 7- Up Control Input
- 8- Up Sense Output

see note (1 & 2)



NOTES:

- 1- Add a diode summing junction to allow local (FP) and remote master control of all sections.
- 2- The actual split for the two master buses may vary according to project requirement.
- 3- The Master sense lines are high when the Servoreeler in motion and low when stopped.
- 4- To enable the front panel Master station, remove jumper (a) between pins 48 & 49.
- 5- To disable Automatic, single pulse, mode activation, remove jumper (b) bet. Pins 23 & 24.
- 6- These jumpers are installed on the DB-50 male cable-connector that is provided.
- 7- To test the system utilizing the front panel Master, simply unplug the DB-50 from the DB-50 chassis connector. After testing, replace the connector and the front panel Master will revert to being disabled (normal configuration)-Should you wish to have the front panel Master always enabled, remove jumper (a).
- 5- Automatic operation is selected by retaining or removing jumper (b)
- 6- Up and Down-multi-turn speed trimmers are located on the rear panel of the controller.
- 7- **SPEED TRIM CAUTION:** When switched ceiling bezels are used, take care not to set the retraction speed too high. An excessively high retraction speed will impair the ability of the bezel reed switch to trip in time to stop microphone motion within the confines of the bezel.
- 8- To install a remotely located Master station; feed 24Vdc to momentary UP/DOWN push-buttons with their outputs feeding Pin 22 for (UP) and Pin 47 for (DOWN) Master control.
- 9- Led driver outputs, pins 13-22 & 38-47 are provided with pushbutton operated controllers.

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SRC-12B Controllers

INSTALLATION ADDENDUM
ADDITIONAL INSTRUCTIONS
FOR CONNECTOR PIN-OUTS

DB-50

<u>PIN</u>	<u>Function</u>	<u>PIN</u>	<u>Function</u>
1-	# 1 up/control	26-	down/control
2-	# 2 up/control	27-	down/control
3-	# 3 up/control	28-	down/control
4-	# 4 up/control	29-	down/control
5-	# 5 up/control	30-	down/control
6-	# 6 up/control	31-	down/control
7-	# 7 up/control	32-	down/control
8-	# 8 up/control	33-	down/control
9-	# 9 up/control	34-	down/control
10-	#10 up/control	35-	down/control
11-	#11 up/control	36-	down/control
12-	#12 up/control	37-	down/control
13-	# 1 up led	38-	# 1 down led
14-	# 2 up led	39-	# 2 down led
15-	# 3 up led	40-	# 3 down led
16-	# 4 up led	41-	# 4 down led
17-	# 5 up led	42-	# 5 down led
18-	# 6 up led	43-	# 6 down led
19-	# 7 up led	44-	# 7 down led
20-	# 8 up led	45-	# 8 down led
21-	# 9 up led	46-	# 9 down led
22-	#10 up led	47-	#10 down led
23-	#11 up led	48-	#11 down led
24-	#12 up led	49-	#12 down led
25-	+24V	50-	Common

RJ-45 Pinout/signal distribution

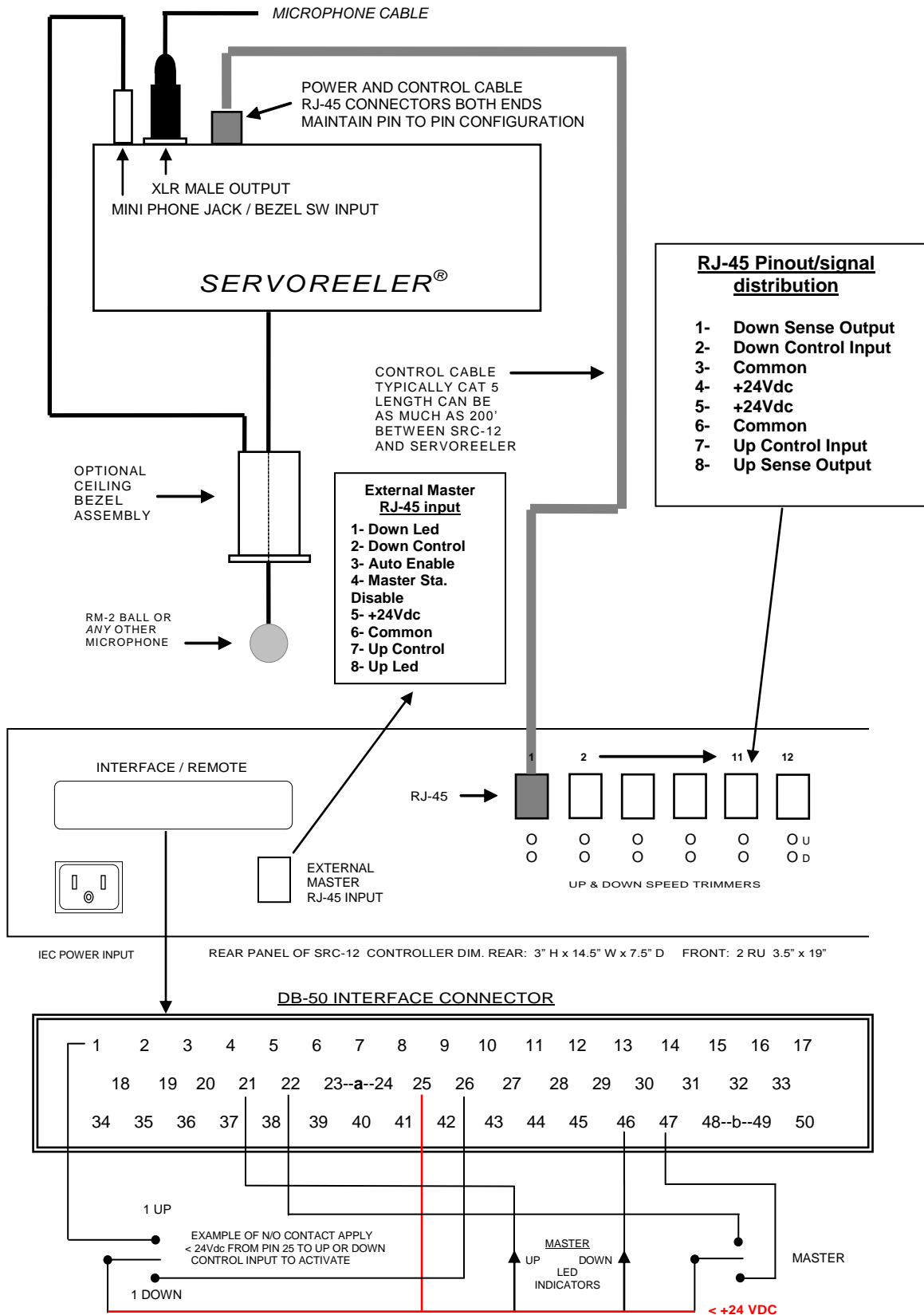
- 1- Down Sense Output
- 2- Down Control Input
- 3- Common
- 4- +24Vdc
- 5- +24Vdc
- 6- Common
- 7- Up Control Input
- 8- Up Sense Output

NOTES:

- 1- Automatic operation is selected using the front panel incremental/auto toggle switch.
- 2- Up and Down multi-turn speed trimmers are located on the rear panel of the controller.
- 3- Led driver outputs, pins 13-24 & 38-49 are provided to operate remote indicators.

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System Block Diagram



NORMALLY OPEN CONTACT INTERFACE: INDIVIDUAL INPUT CONTROL PINS: GROUP 1 – 12 UP & 26 – 37 DOWN
MASTER BUS: DEPLOY (47) & RETRACT (22) APPLY MOMENTARY +24Vdc (25) TO ANY CONTROL INPUT TO ACTIVATE
JUMPERS: (a) Auto mode enables. (b) Front panel master pushbutton station lockout: remove to enable with connector engaged.



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SRC-6 Two Section Controller

INSTALLATION ADDENDUM ADDITIONAL INSTRUCTIONS FOR CONNECTOR PIN-OUTS

RJ-45

- 1- Down Sense output
- 2- Down Control input
- 3- Common
- 4- + 24Vdc
- 5- + 24Vdc
- 6- Common
- 7- Up Control input
- 8- Up Sense output

External Master RJ-45 input

- 1- Down Led
- 2- Down Control
- 3- Auto Enable
- 4- Master Sta. Disable
- 5- +24Vdc
- 6- Common
- 7- Up Control
- 8- Up Led

DB-37

The Up Pin number is also the Reeler number

<u>PIN</u>	<u>Function</u>	<u>PIN</u>	<u>Function</u>
1-	# 1 up/control	20-	down/control
2-	# 2 up/control	21-	down/control
3-	# 3 up/control	22-	down/control
4-	# 4 up/control	23-	down/control
5-	# 5 up/control	24-	down/control
6-	# 6 up/control	25-	down/control
7-		26-	
8-		27-	
9-		28-	
10-		29-	
11-		30-	
12-	Master Up (3-6)	31-	Master Down (3-6)
13-	M-Up Sense (3-6)	32-	M-Dn Sense (3-6)
14-	Master Up (1-2)	33-	Master Down (1-2)
15-	M-Up Sense (1-2)	34-	M-Dn Sense (1-2)
16-	Jumper (a) to 35 >	35-	Front panel Master station lockout (jumper a)
17-	Jumper (b) to 36 >	36-	Auto function enable (jumper b)
18-	+24VDC	37-	
19-	Power Supply Common		

Control card bus assignments

- 1- Encoder or +24Vdc
- 2- Down sense bus
- 3- Master down input
- 4- Down control input
- 5- Down LED
- 6- +24Vdc
- 7- Common
- 8- Up LED
- 9- Up control input
- 10- Master up input
- 11- Up sense bus
- 12- Auto – Incremental select bus

NOTES:

- 1- If interfacing to an external computer system such as AMX or Crestron, by employing A relay interface card, you can control individual Servoreeler (microphone) or all Servoreelers at once by using a master bus. Use the [+24vdc on pin 18](#) as a source voltage and apply to the desired control point. For Example, if you intend to operate all the Reelers together, applying a positive voltage to the Master Up (pin 14) or Master Down (pin 33) inputs will initiate the selected mode in all of the Servoreelers in the system. Similarly, a positive voltage applied to any individual Servoreeler Input, will initiate that mode but only for that single Servoreeler.
- 2- The Master Sense outputs are high during operation and go to low when operation is stopped.
- 3- To enable the front panel Master station, remove jumper (a) between pins 16 & 35.
- 4- To disable Automatic, single pulse, mode activation, remove jumper (b) bet. Pins 17 & 36.
- 5- These jumpers are installed on the cable-plug that is provided.
- 6- To test the system utilizing the front panel Master, simply unplug the DB-37 from the DB-37 chassis connector. After testing, replace the connector and the front panel Master will revert to being disabled (default configuration)-Should you wish to have the front panel Master always enabled, remove jumper (a). 5-Automatic operation is selected by retaining or removing jumper (b)
- 6- Individual Up and Down multi-turn speed trimmers are located on the rear panel of the controller.
- 7- To install a remotely located Master station; feed 24Vdc (pin-5 Master RJ-45) to momentary UP/DOWN push- buttons with their outputs feeding Pin (7) for (UP) and Pin (2) for (DOWN) control.

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DESCRIPTION

- > *Deploy, retract and position suspended microphones by remote control.*
- > *One touch deployment or retraction.*
- > *Control each microphone individually or all as a group.*
- > *Speed trimmers to adjust deployment and retraction rates.*
- > *Servoreelers are engineered to provide many controller options.*
- > *Servoreeler controllers are compatible with AMX and Crestron computer control systems.*
- > *Simple contact closure to initiate all functions.*
- > *Hand held remote control units are also available.*

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SRC-6-B Remote Controllers

INSTALLATION ADDENDUM: ADDITIONAL
INSTRUCTIONS FOR CONNECTOR PIN-OUTS

RJ-45

- 1- Down Sense output
- 2- Down Control input
- 3- Common
- 4- + 24Vdc
- 5- + 24Vdc
- 6- Common
- 7- Up Control input
- 8- Up Sense output

DB-37

The Up Pin number is also the Reeler number

<u>PIN</u>	<u>Function</u>	<u>PIN</u>	<u>Function</u>
1-	# 1 up/control	20-	down/control
2-	# 2 up/control	21-	down/control
3-	# 3 up/control	22-	down/control
4-	# 4 up/control	23-	down/control
5-	# 5 up/control	24-	down/control
6-	# 6 up/control	25-	down/control
7-	# 1 up LED	26-	down LED
8-	# 2 up LED	27-	down LED
9-	# 3 up LED	28-	down LED
10-	# 4 up LED	29-	down LED
11-	# 5 up LED	30-	down LED
12-	# 6 up LED	31-	down LED
13-		32-	
14-	Master Up	33-	Master Down
15-	M-Up LED	34-	M-Down LED
16-	Jumper (a) to 35	35-	Front panel Master lockout (when provided)
17-	Jumper (b) to 36	36-	Auto Mode Enable
18-	+24Vdc	37-	n-c
19-	Power supply common		

NOTES:

- 1- If interfacing to an external computer system such as AMX or Crestron, by employing A relay interface card, you can control individual Servoreeler (microphone) or all Servoreelers at once by using the master bus. Use the +24vdc on pin 18 as a source voltage and apply to the desired control point. For Example, if you intend to operate all the Reelers together, applying a positive voltage to the Master Up (pin 14) or Master Down (pin 33) inputs will initiate the selected mode in all of the Servoreelers in the system. Similarly, a positive voltage applied to any individual Servoreeler Input, will initiate that mode but only for that single Servoreeler.
- 2- Individual Up and Down-multi-turn speed trimmers are located on the rear panel of the controller.
- 3- Led driver outputs, pins 7-12 (Up) & 26-31 (Down) are provided to operate remote indicators.
- 4- Automatic operation is selected using the front panel incremental / auto toggle switch.
- 5- To install a remotely located Master station; feed 24Vdc to momentary UP/DOWN push-buttons with their outputs feeding Pin 14 for (UP) and Pin 33 for (DOWN) control.

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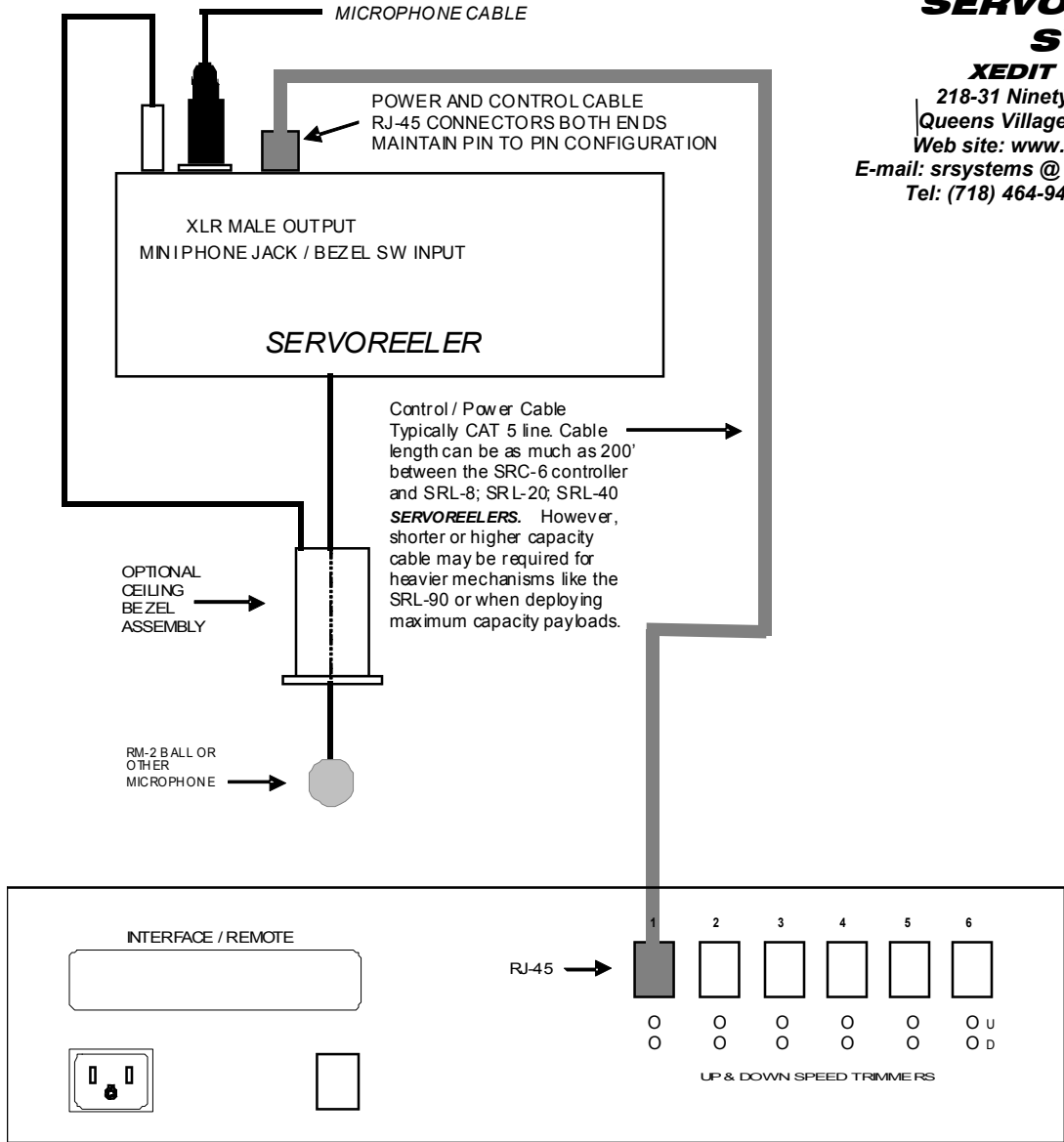
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Control card bus assignments

- 1- encoder or +24Vdc
- 2- Down sense bus
- 3- Master down input
- 4- Down control input
- 5- Down LED
- 6- +24Vdc
- 7- Common
- 8- Up LED
- 9- Up control input
- 10- Master up input
- 11- Up sense bus
- 12- Auto – Incremental select bus

SYSTEM BLOCK DIAGRAM



SERVOREELER SYSTEMS

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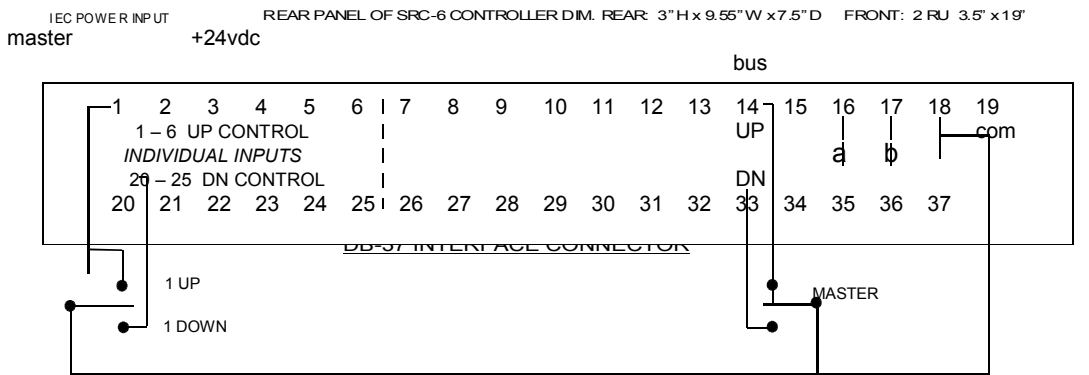
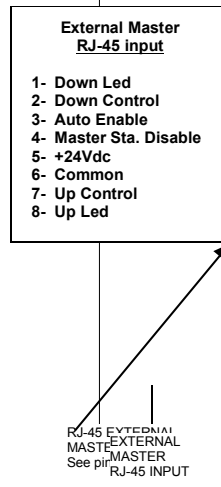
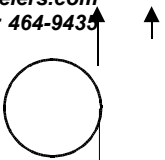
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NORMALLY OPEN CONTACT INTERFACE: INDIVIDUAL INPUT CONTROL PINS: GROUP 1 - 6 UP & 20 - 25 DOWN

MASTER BUS: DEPLOY (33) & RETRACT (14) APPLY MOMENTARY +24Vdc (18) TO ANY CONTROL INPUT TO ACTIVATE

EXTERNAL MASTER RJ-45 INPUT: (1) Direct connection to our Master Remote plate. (2) Can be employed for rapid connection of master bus to an external computer system. For this application, use 24Vdc from RJ-45 pin (5) and apply through normally open contact to pin (2) to "Deploy" and pin (7) to "Retract" entire system. To disable the front panel control station, connect pin (4) to common. To enable Auto lock-in operation connect pin (3) to +24Vdc. **When using the RJ-45 Master input, remove the DB-37.**

JUMPERS: (a) Front panel master lockout: remove to enable with connector engaged. (b) (Auto) lock-in mode-enable.

SRCC-1
SERVOREELER
CONTROL BOARD

SERVOREELER
SYSTEMS

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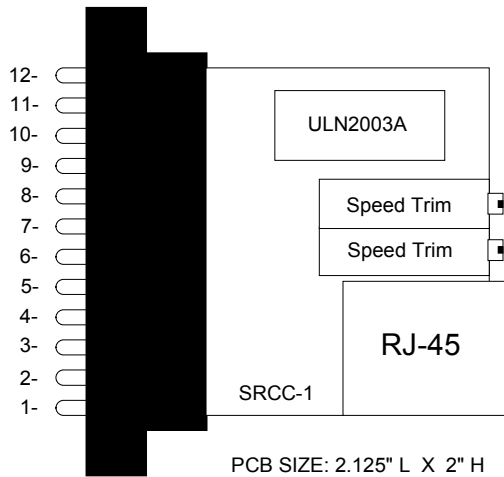
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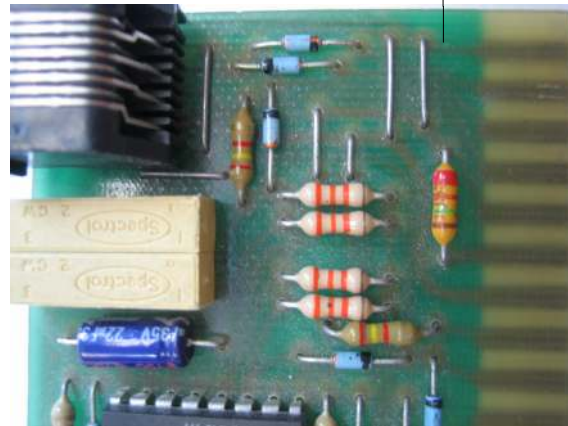


The **SRCC-1** Control board is employed by all **SRC controllers**. It can also be used to assemble controllers for systems employing virtually any number of microphone Servoreelers. The following is a description of all of the functions provided by this board.

MSW-1 & 2: The front plate of the MSW-1 and the MSW-2 has an Incremental-Auto selector switch and an Up and Down pushbutton station. The LED's indicate actual Servoreeler mode and operation. NOTE: An external 24 Vdc. power supply is required with the MSW controllers. Allow 600 to 700 mA. for Servoreeler models SRL-8, SRL-20, SRL-40 and 1 amp for an SRL-90 Servoreeler.

- PIN-OUT:**
- 1- +24Vdc or encoder: See note 2 below.
 - 2- Down sense bus
 - 3- Down control input (master bus)
 - 4- Down control input
 - 5- Down LED indicator driver output
 - 6- +24Vdc
 - 7- Common
 - 8- Up LED indicator driver output
 - 9- Up control input
 - 10- Up control input (master bus)
 - 11- Up sense bus
 - 12- Hold enable: Provides automatic, one-touch deploy and retract.

Add this jumper



APPLICATION NOTES:

- 1- When assembled in multiples, power as well as other functions may be bussed across the PCB edge connector to provide the required system configuration. For example, all of the Up control (master pin 10), may be bussed to create a Master Up control bus so that one signal will activate all of the Servoreelers in the system. Similarly, this would also be done on the Down control (master pin 3) to achieve a Master Down control bus.
- 2- Removing a jumper to 24Vdc, can free up the conductor to pin 1 so that it may be employed as a conductor for an encoder signal.
- 3- Up and Down control inputs (pins 9 & 4) are intended for individual activation.
- 4- Up and Down control master bus (pins 10 & 3) are isolated and may be bussed.
- 5- Sense bus outputs are isolated and may be bussed to provide system status indication functions. The sense outputs are low with Servoreelers at rest and rise to a positive level during any Servoreeler motion.
- 6- The LED indicator driver outputs provide a switched collector to common.
- 7- The speed trimmers on the PCB allow remote adjustment for Up and Down speed.
- 8- 24Vdc system power is required at pins 6 (+24V) and 7 (com.)
- 9- It is recommended that a linear regulated power supply be employed allowing 700ma to 1A per reeler.

For any assistance, please call us at: 800: 431-8900

SRCC-1-2 SERVOREELER CONTROL BOARD

SERVOREELER SYSTEMS

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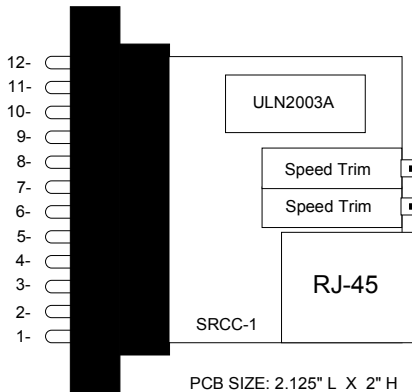
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The SRCC-1 Control board is employed by all SRC controllers. It can also be used to assemble controllers for systems employing virtually any number of microphone Servoreelers. The following is a description of all of the functions provided by this board.

MSW-1 & 2: The front plate of the MSW-1 and the MSW-2 has an Incremental-Auto selector switch and an Up and Down pushbutton station. The LED's indicate actual Servoreeler mode and operation. NOTE: An external 24 Vdc power supply is required with the MSW controllers. Allow 600 to 700 ma for Servoreeler models SRL-8, SRL-20, SRL-40 and 1 amp for an SRL-90 Servoreeler.

- PIN-OUT:**
- 1- +24Vdc or encoder: See note 2 below.
 - 2- Down sense bus
 - 3- Down control input (master bus)
 - 4- Down control input
 - 5- Down LED indicator driver output
 - 6- +24Vdc
 - 7- Common
 - 8- Up LED indicator driver output
 - 9- Up control input
 - 10- Up control input (master bus)
 - 11- Up sense bus
 - 12- Hold enable: Provides automatic, one-touch deploy and retract.

APPLICATION NOTES:

- 1- When assembled in multiples, power as well as other functions may be bussed across the PCB edge connector to provide the required system configuration. For example, all of the Up control (master pin 10), may be bussed to create a Master Up control bus so that one signal will activate all of the Servoreelers in the system. Similarly, this would also be done on the Down control (master pin 3) to achieve a Master Down control bus.
- 2- Removing a jumper to 24Vdc, can free up the conductor to pin 1 so that it may be employed as a conductor for an encoder signal.
- 3- Up and Down control inputs (pins 9 & 4) are intended for individual activation.
- 4- Up and Down control master bus (pins 10 & 3) are isolated and may be bussed.
- 5- Sense bus outputs are isolated and may be bussed to provide system status indication functions. The sense outputs are low with Servoreelers at rest and rise to a positive level during any Servoreeler motion.
- 6- The LED indicator driver outputs provide a switched collector to common.
- 7- The speed trimmers on the PCB allow remote adjustment for Up and Down speed.
- 8- 24Vdc system power is required at pins 6 (+24V) and 7 (com.)
- 9- It is recommended that a linear regulated power supply be employed allowing 700ma to 1A per reeler.

For any assistance, please call us at: 800: 431-8900