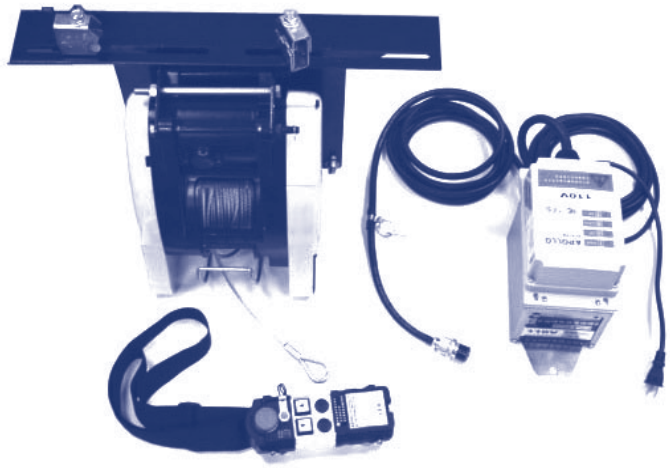
DBI SALA®

User Instruction Manual
Power Tagline for SRL

Model No. 8102100

This manual is intended to meet the Manufacturer's Instructions as required by OSHA.

Figure 1 - Power Tagline Configurations



Wireless Remote Control System

Corded Remote Control System

IMPORTANT: *If you have questions on the use, care, or suitability of this equipment for your application, contact DBI-SALA.*

IMPORTANT: *Record the product identification information from the ID label in the inspection and maintenance log in section 7.0 of this manual.*

IMPORTANT: *All electrical wiring required for the installation of this equipment must be completed by a licensed electrician.*

1.0 APPLICATION

1.1 The Power Tagline is designed to lower the connecting hook of one or more self retracting lifelines (SRL) from an overhead beam to the user. Use this system when conventional tagline systems cannot be used because of travelling overhead crane systems or related equipment. The Power Tagline may be installed on beam flanges or plates 1 1/2 in. to 18 in. (3.8 cm to 45.7 cm) wide and from 1/8 in. to 3/4 in. (.3 cm to 1.9cm) thick.

2.0 SYSTEM REQUIREMENTS

2.1 **ANCHORAGE STRENGTH:** When the Power Tagline is attached to the same beam as the SRL, the beam must be capable of supporting the loads required by the SRL. When the Power Tagline is attached to a beam or plate other than that of the SRL, the beam or plate must support a minimum of 500 lbs (227 kg).

2.2 **PERSONAL FALL ARREST SYSTEM:** The Power Tagline must be used with a complete personal fall arrest system that includes a full body harness. See personal fall arrest system manufacturer's instructions for more information.

2.3 Refer to national Standards including ANSI Z359 (.0, .1, .2, .3, and .4) family of standards on fall protection, ANSI A10.32, and applicable local, state and federal (OSHA) requirements governing occupational safety for more information about work positioning systems.

WARNING: *Do not alter or intentionally misuse this equipment. Consult DBI-SALA when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when using this equipment around moving machinery and electrical hazards. Do not loop the lanyard around small structural members.*

2.4 ANCHORAGE STRENGTH: The anchorage strength required is dependent on the application type. The following are the requirements of ANSI 359.1 for these application types:

A. FALL ARREST: Anchorages selected for fall arrest systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
1. 5,000 lbs. (22.2 kN) for non-certified anchorages, or
2. Two times the maximum arresting force for certified anchorages. When more than one fall arrest system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

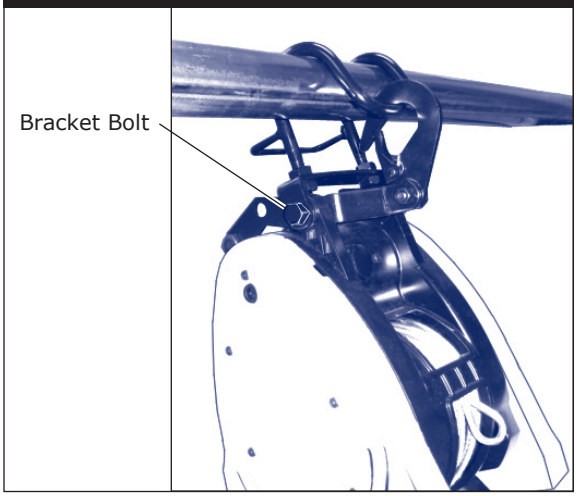
3.0 INSTALLATION AND USE

3.1 BEFORE EACH USE of this equipment, carefully inspect it according to section 4.0 of this manual.

3.2 PLAN your system before beginning installation. Consider all factors affecting your safety when installing and using this equipment. Locate the Power Tagline system over a safe access area (for connecting/disconnecting) your fall arrest system.

3.3 INSTALLATION: The Power Tagline may be installed on a bar or pipe (see Figure 2), or on beam flanges or plates 1 1/2 in. to 18 in. (3.8 cm to 45.7 cm) wide and from 1/8 in. to 3/4 in. (.3 cm to 1.9cm) thick. The beam must meet the fall clearance and strength requirements specified for your personal fall arrest system. Electrical wiring performed at the job site must meet all applicable local, state, and federal codes.

Figure 2 - Pipe Mount



A. INSTALLING POWER TAGLINE ONTO A BEAM: See Figure 3.

Step 1. Remove the Pipe Mount Bracket by removing the Bracket Bolt and replacing the bolt after the bracket is removed.

Step 2. Loosen the nut on the top of each clamp to allow the clamp jaw to open to the maximum width.

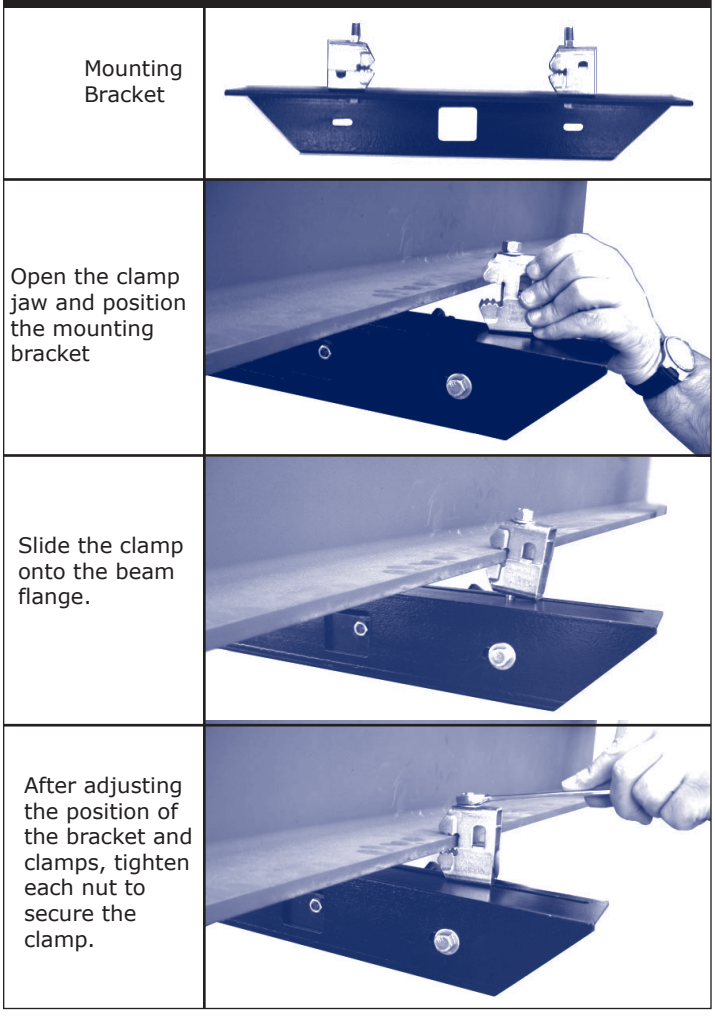
Step 3. Position the mounting bracket beneath the beam at the appropriate location with the clamp jaw open.

Step 4. Slide the clamp onto the beam flange and tighten lightly. Secure the other clamp to the other side of the beam flange.

Step 5. Adjust the position of the bracket so it is centered beneath the beam, then tighten the clamp jaws. Torque the nuts to 8 ft-lbs.

Step 6. Position the motor and mounting plate against the mounting bracket and insert the supplied bolts through the plate holes and bracket slots. Make sure the motor is mounted to the inside of the bracket, with the bent bracket leg over the motor.

Figure 3 - Installing the Mounting Bracket



Step 7. To install the weight to the tagline, insert a cotter pin into one end of the bar. See Figure 4. Feed the cable loop through the slot in the top plate of the weight and put the bar through the mounting holes and cable loop. Then place the other cotter pin through the other end of the bar. Secure each cotter pin by bending back the long leg of the pin.

Figure 4 - Installing the Tagline Weight

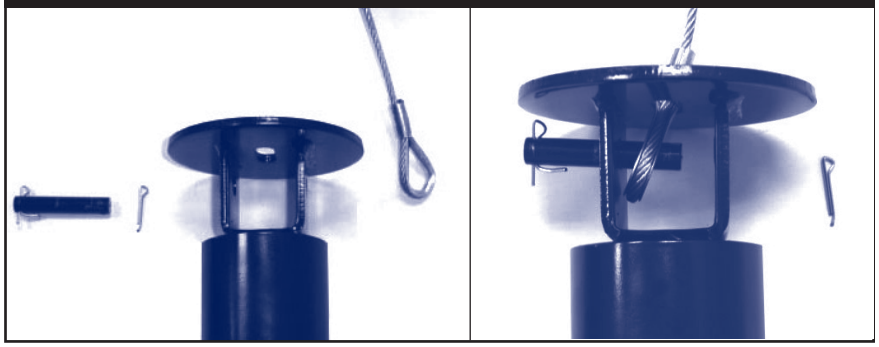
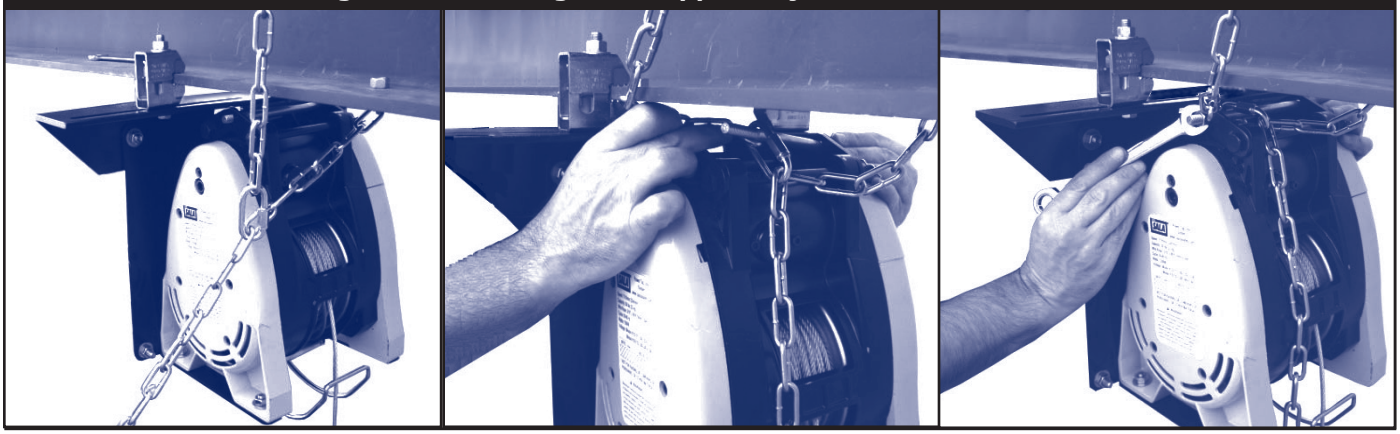


Figure 5 - Securing the Dropped Objects Protection Chain



B. ATTACH THE DROPPED OBJECTS PROTECTION CHAIN: Regardless of the type of installation (pipe, beam, or plate) a dropped objects protection chain must be installed.

Step 1. Wrap the chain over the pipe or beam and fasten it using the screw shut carabiner. See Figure 5.

Step 2. Loosen the bolt at the top of the motor and back it out enough to slip the carabiner onto it.

Step 3. Replace the bolt and nut and tighten with a wrench. Remove any excess chain or secure it out of the working area.

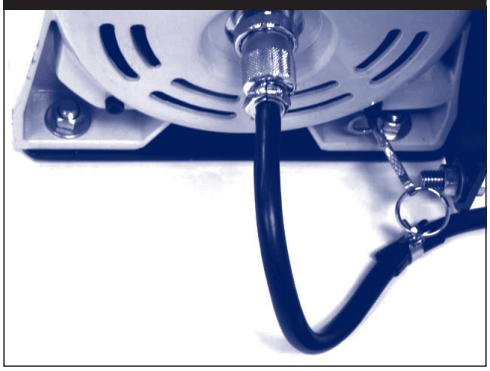
C. INSTALLING A WIRELESS REMOTE CONTROL:

Step 1. Push the electrical cord plug into the connector on the side of the motor and tighten the threaded retainer.

Step 2. Connect the strain relief clip on the cord into the ring on the side of the motor. See Figure 6.

Step 3. Position the wireless control box in a location away from the trolley travel path or other equipment. Secure the wireless control box to the structure with user supplied hardware.

Figure 6 - Connector and Clip



Step 4. Route the power cord to an outlet. Secure the cord as required for safe operation.

D. INSTALLING A CORDED REMOTE CONTROL:

Step 1. Push the electrical cord plug into the connector on the side of the motor and tighten the threaded retainer.

Step 2. Connect the strain relief clip on the cord into the ring on the side of the motor. See Figure 6.

Step 3. Route the power cord to an outlet and secure the cord as required for safe operation. Position the remote control in a location away from trolley travel and other equipment.

IMPORTANT: *If modifying this installation, all wiring must be completed by a licensed electrician and must meet local codes and regulations.*

3.4 USING THE POWER TAGLINE:

- For the wireless remote control (see Figure 7), twist the red button in a clockwise rotation to verify that power is on.
- Lower the line until the SRL hook is accessible. Disconnect the SRL hook from the tagline weight and attach the SRL to the connection point on your full body harness.
- Raise tagline weight all the way up. An automatic stop on the motor will prevent the tagline from raising too far.
- When use of the fall arrest system is completed, lower the tagline to access the tagline weight. Disconnect the hook from your full body harness and connect it to the weight. Raise tagline all the way up.
- For the wireless remote control, push in the red button to turn the power off when not in use.
- Use the SRL and trolley according to manufacturer's instructions.

IMPORTANT: *Maximum lowering distance for the Power Tagline is 100 ft. (30 m) Lowering the tagline more than 100 ft (30 m) will cause the cable to start to reverse direction, then turn off because of a safety switch on the motor.*

Figure 7 -Wireless Remote

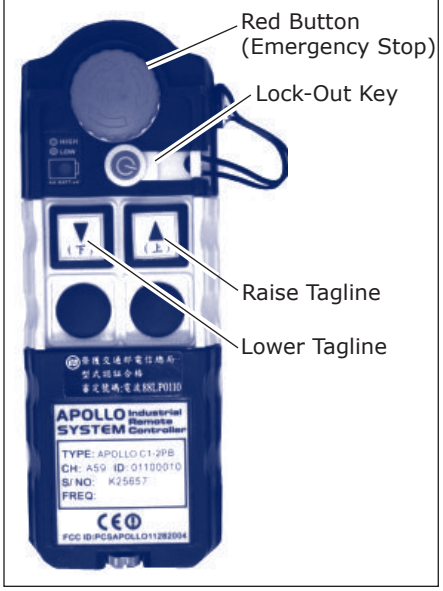
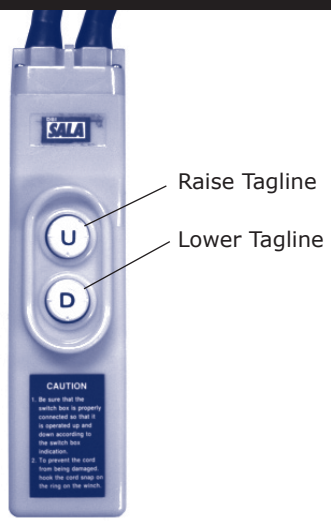


Figure 8 -Wired Remote



4.0 INSPECTION

4.1 INSPECTION STEPS:

Step 1. Inspect each SRL according to the manufacturer's instructions.

Step 2. Inspect each trolley according to the manufacturer's instructions.

Step 3. Inspect operation of the Power Tagline system. The weight should pull the SRL hook down to the user.

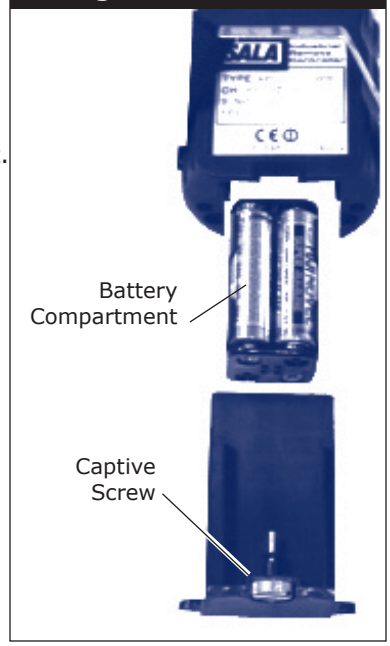
Step 4. Inspect the wire rope tagline for damage.

Step 5. Inspect the mounting bracket, making sure all fasteners are present and secure.

Step 6. Inspect all electrical connections. Make sure they are in good condition with no loose connections or exposed wire.

Step 7. Make sure the Lock-out Key is securely in place See Figure 7. The Wireless Remote will not power-up without it.

Figure 8 -Batteries



5.0 MAINTENANCE

5.1 The Power Tagline system may be wiped clean with water and mild detergent. Clean the outside of the system only. Do not allow water to contact the electrical system. Wipe dry with a clean cloth.

5.2 For electrical motor maintenance lock-out the power switch to prevent unintentional activation. Proceed according to the motor manufacturer's instructions provided with this equipment.

5.3 The batteries in the wireless remote control may be changed by loosening the captive screw at the bottom-front of the unit and slide out the battery compartment. Remove the old batteries, and replace them with batteries of the same size (four AA cells). Refer to the polarity marking inside the compartment for correct orientation. Replace the compartment and secure it with the captive screw.

6.0 SPECIFICATIONS

6.1 SPECIFICATIONS:
Maximum Cable Pay-out: 100 feet (30 m)
Electrical System Requirements:
Model 8102101: 110-120 V, Single Phase, 50-60 Hz, 1200 watts, 12 amps.
Model 8102102: 200-240 V, Single Phase, 50-60 Hz, 1200 watts, 9 amps.
Winch Speed: 75 ft/min (23 m/min.)

6.2 WEIGHT:
Tagline Weight: 22 lbs. (10 kg)
Control Enclosure with Motor: 52 lbs. (24 kg)
System Weight (winch, tagline weight, brackets)**:** 73 lbs. (33 kg)

6.3 SIZE:
Winch: 13 in. tall x 9 1/4 in. wide x 8 1/2 in. deep (33 cm x 23.5 cm x 21.6 cm).

6.4 REMOTE FREQUENCIES:

Channel	Frequency (MHZ)	VOLTAGE
A01	410.010	110V
A05	411.029	110V
A21	415.105	110V
A29	417.143	110V
A37	419.181	110V
A43	420.709	110V
A47	421.729	110V
A51	422.748	110V
A67	426.824	220V
A71	427.843	220V

The range of the wireless remote is based on the battery condition and the obstructions in the area of operation.

7.0 LABELING

7.1 This label must be present and fully legible:

9.0 INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER:		
MODEL NUMBER:		
DATE PURCHASED:	**DATE OF FIRST USE:**	

INSPECTION DATE	**INSPECTION ITEMS NOTED**	**CORRECTIVE ACTION**	**MAINTENANCE PERFORMED**
Approved By:			
Approved By:			
Approved By:			
Approved By:			
Approved By:			
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