HEDWELD



RTV Stairs

The Safe-Away[®] Raise To Vertical (RTV) Stairs have been designed to improve safety for operator and maintenance staff when accessing large earthmoving equipment employed in the mining industry.

To reduce the possibility of physical damage to the stairs, the RTVs are retracted to a vertical position above the ground when the machine is operational. The 45° stair offers easier access for maintenance personnel when accessing the vehicle while carrying tools.



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Safety & Efficiency

The Safe-Away® RTV Stairs have been specifically designed to suit a wide range of equipment and provides:

- 45° stair for access and egress while carrying tools and other items.
- Steps of regulation size.
- Fixed handrail system for three points of contact.
- A simple robust hydraulic actuator to raise the Stair to the vertical position above the ground when the machine is operational.
- Park Brake Interlock Kit providing additional protection by ensuring the Stair is raised automatically when the park brake is released.

Innovation

The **Safe-Away® 2009 Series Access Control System** manages all Stair operations.

It provides:

- Simple downloading of day to day logged data to a USB.
- Sequential reports on all events with time and date stamps:
 - Raising and lowering,
 - Fault indications.
- Operational history data logs
- Diagnostics and error reporting accessed directly from the Incab control digital display.

Access Control System Features

- Incab control panel with a digital touch pad display showing:
 - Access system status; UP, DOWN and IN MOTION.
 - Detailed fault indication with audible alarm and system event log.
 - 3,000 point event data log with download using a USB key connection to the side of the in cab control panel.
- View downloaded log files as summary and/or full log data in Microsoft[®] Excel using the supplied SLA to XLS file converter.



The **Safe-Away® 2009 Series Power Pack** is driven by the Access Control System. Conveniently, the top step/platform is the Power Pack box designed to safely store the hydraulic Safe-Away® Series 2009 Power Pack in a horizontal position. Or the Power Pack may be mounted vertically at another location of your choosing.

It includes:

- Harnesses and Leads.
- Battery Circuit Breaker Kit.
- A Reservoir Heater ensuring the viscosity of the oil is maintained to raise and lower the ladder in cold climates.

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	SAFE-AWAY				2	Log Index	Eve
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<u> </u>	USR Procession	u			9	2	Syst
_	USB Processing Complete				5	3	Lade
T T T					6		Lade
DOWN		RIGHT			7	5	Lade
100	EntervExit to Confirm	and the		/	8		Lad
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	CONTROL	PORT **			12		Lad
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Log Index	Event Label	Event Code	Date	
1	Ladder Down	254	01/09/2000 11:31:47 PM	
2	System Voltage Below 18V	18	02/09/2000 12:15:21 AM	
3	Ladder Up	255	02/09/2000 12:20:20 AM	
4	Ladder Down	254	02/09/2000 01:38:05 AM	
5	Ladder Up	255	02/09/2000 01:40:34 AM	
6	Ladder Down	254	02/09/2000 04:38:29 AM	
7	Ladder Up	255	02/09/2000 05:21:04 AM	
8	Ladder Down	254	02/09/2000 06:37:10 AM	
9	System Voltage Below 18V	18	02/09/2000 06:42:51 AM	
10	Ladder Up	255	02/09/2000 07:19:39 AM	
11	System Voltage < 18V During Movement	17	02/09/2000 07:19:46 AM	
12	Ladder Down	254	02/09/2000 08:00:52 AM	
13	System Voltage Below 18V	18	02/09/2000 08:01:40 AM	
14	Ladder Up	255	02/09/2000 08:08:12 AM	
15	Ladder Down	254	02/09/2000 08:22:30 AM	
18	System Voltage Below 18V	18	02/09/2000 08:24:54 AM	
17	System Voltage Below 18V	18	02/09/2000 12-24-06 Pt	

Designed to suit your fleet

There are 2 models of Safe-Away® RTV Stairs designed to suit OEM vehicles.

Each of these RTV models may be varied to accommodate your requirements for specific mount points, platform handrails, infills, platforms, site and/or OEM colors, and Power Pack locations.

RTV-CF

Designed for use on:

- Shovels
- Loaders
- Excavators
- Equipment up to 193 inch deck height

Compatible OEM models include:

PC3000 PC4000 PC5500 PC8000 EX3500 H285 EX1900 EX2500 EX3600 EX5500 L1850 L2350 996 RH120 RH170 994 RH200 RH340 RH400 B295 The RTV-CF can be adapted for other equipment.





RTV-B

Designed for use on:

- Trucks
- Loaders
- Excavators

• Equipment up to 118 inch deck height

Compatible OEM models include:

994 WA1200

The RTV-B can be adapted for other equipment.





Optional extras

1. Additional Raise and Lower Control Panel Kit



A remotely mounted control panel designed to enable the raise and lower operation from outside of the vehicle's cab, or at a position

accessible from ground level. Encased in a protective aluminium case.



2. Hydraulic Emergency Down Kit

A lever operated three-way ball valve and mounting bracket provides a fail

safe emergency down function. Comes standard with RTV-CF Stairs.

Kits

3. Boarding Light and Audible Alarm



The boarding light (left) and audible alarm (below) are activated by pressing the up or down directional switch. The light will stay on for an adjustable/preset period.



4. Inhibit Kit

A relay with connecting harness for customer only installation of machine

inhibit functions independent of the standard Safe-Away[®] in-built ladder safety functions.



5. Momentary Operation

Safe-Away[®] Access Systems can be supplied with momentary operation.

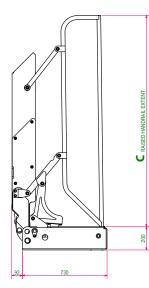
HEDWELD USA INCORPORATED

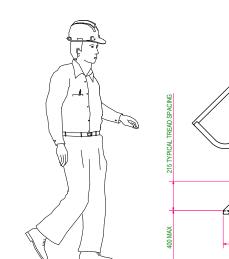
Manufacturers and Suppliers of:

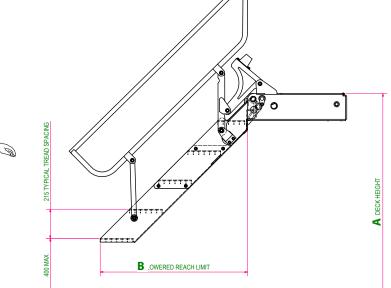
Specifications

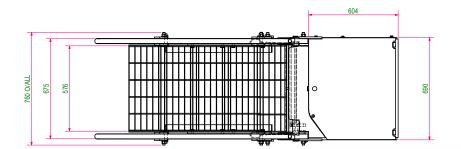
The Safe-Away® RTV-B has been designed and manufactured to comply with the relevant sections of the following standards:-SAE J185_200305ISO 2867:2011ANSI Z535.4-2007ANSI A14.2-2007AS 3868-1991

RTV-B Range Dimensions									
Steps	A-Deck Height Maximum		B-Lowered Reach Limit		C-Raised Handrail				
6	57.6in	1465mm	42.7in	1085mm	71.8in	1825mm			
7	66.1in	1680mm	51.1in	1300mm	83.6in	2125mm			
8	74.6in	1895mm	59.6in	1515mm	95.4in	2425mm			
9	83in	2110mm	68.1in	1730mm	107.2in	2725mm			
10	95.1in	2325mm	76.5in	1945mm	119.1in	3025mm			
11	100in	2540mm	85in	2160mm	130.9in	3325mm			
12	108.4in	2755mm	93.5in	2375mm	142.7in	3625mm			
13	116.9in	2970mm	101.9in	2590mm	154.5in	3925mm			
14	125.3in	3185mm	110.4in	2805mm	166.3in	4225mm			









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