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SkidWeigh Plus *Classic*

Series SPC-AC and ED3C-AC

Two wires electrical connection to the vehicle
Vehicle operation not disabled

Installation, Set Up and Operator Usage Manual

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General Installation Guide

This **ED3C-AC and SPC-AC SkidWeigh Plus *Classic*** Series guide describes how to install, set up and use your onboard operator access control system. Following the instructions in the **ADMINISTRATION MENU** you will be able to get the system set up, calibrate quickly. In the event that you require additional assistance, please contact customer support via e-mail at support@skidweigh.com , visit www.skidweigh.com

Safety

Always disconnect the vehicle battery while installing SkidWeigh Plus ***Classic*** system or any other electronic product. Make sure that main electrical cable is securely mounted and do not impede any of the vehicle's controls. Route the cables where they will be protected. Use commonly accepted install practices for after market industrial vehicle electronic devices. The installation of the systems should only be performed by an acknowledged lift truck dealer technician or end user technical installer.

Here are two acceptable methods of making a wire connections:

* Soldering your connections (recommended)
* Crimp connectors (with the use of the proper crimping tool)

Regardless of the method you choose, ensure that the connection is mechanically sound and properly insulated. Use high quality electrical tape and shrink tubing where necessary. This product is connected directly to the vehicle's ignition switch, 12 to 55 VDC. No need for external fuse, system equipped with resettable fuse There is no on-off switch on the unit. (*For vehicle operating voltage of 80 VDC or higher, oder voltage convertor VC-160)*

Electro-Magnetic Compatibility

CE conformity to EC directive 89/336 (EMC) by application of harmonized standards: Interference stability EN 61000-6-2 and EN 61326-1 interference emit EN 61000-6-3, EN 61326-1 for the pressure transducer.

ED3C-AC SkidWeigh Plus *Classic*

Our policy is one of continuous improvement and the information in this document is subject to change without notice. The software version is displayed on the LCD display and yellow light will be activated once the power is turned on to the system.

Overview of components

The standard ED3C-K SkidWeigh Plus system consist of two main components:

- **Digital indicator** ** with wiring harness, miniature visual light alert and mounting bracket
- Installation & calibration manual and operator usage instruction

** The ED3C indicator equipped with miniature multiple alert lights (Yellow, Green and Red).

Selecting the mounting location for digital indicator

Use the mounting bracket with the anti vibration mount and fasten digital indicator on the vehicle dashboard, side railing on the right hand side or preferably on the overhead guard. There are many examples of mounting locations that will depend on the vehicle model. However, additional mounting items such as a flat brackets may be needed to help secure the unit to upper right corner of the guard or side railing.

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Choose the correct location and make sure that:
- Indicator is visible and within reach of the operator
- Location so that operator has a clear unobstructed view of the working environment

Compact size

All of the SkidWeigh Plus ***Classic*** systems are of compact size, housing dimension of only 120 x 80 x 55 mm and are ideal for the installations to material handling vehicles of all kinds. All SkidWeigh systems are internally short circuit protected with resettable fuse. There is no need to install external inline fuse in orange wire that is connected to the ignition switch.

Electrical connections

All SkidWeigh Plus ***Classic*** systems operate from 12 to 55 VDC.

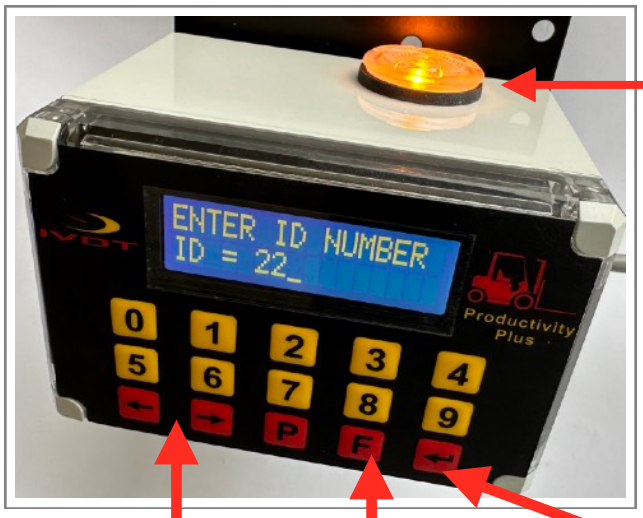
POWER CONNECTION *System require only two wires to be connected to the vehicle*

Orange Wire (+) Ignition switch On position

Brown Wire (-) Battery negative

KEYPAD OPERATOR ACCESS CONTROL

Note: The standard **ED3C-AC** are supplied with keypad operator access control having the capability for input of 250 valid operators ID's up to 3 digits maximum, valid numeric range from 1 to 999. Systems are supplied with default operator **ID# 111**.



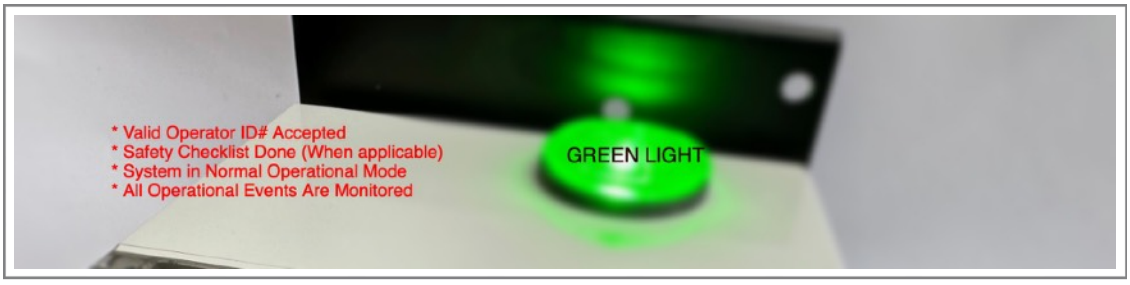
YELLOW LIGHT INDICATION

* Ignition switch turned ON
* System prompts operator to input ID# via keypad or RFID card
* System prompts operator to initiate OSHA / Pre-shift safety check
* With valid operator ID# in the system the yellow light will turn green
* System in normal operational mode

"Enter key" ↵

Scroll Keys

Function Key



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Administration Menu Login

(Set up for Time/Date, Vehicle ID#, OSHA / Pre-shift Safety, USB Data Upload)

To enter into the Administration Menu the LCD Display must show Data / Time. Press **F** key and then number **9** and input the password 521.

Use < > keys to scroll the menu. Follow the LCD instructions.

LCD Display
MENU
PASSWORD = _

LCD Display
<> KEY TO SCROLL
F KEY TO EXIT

Date / Time Set Up

LCD Display
SET CLOCK
ENTER TO SELECT

LCD Display
SET CLOCK
AUTO _

Use left ◀ and right ▶ arrow key to change from AUTO to MANUAL Date/Time set up.

Note: AUTO set up refers to system utilizing a wireless RF platform with automatic Date /Time update from IVDT Base Station communication and programming hub.

For the applications without Base Station, select MANUAL _ set clock and follow the LCD instructions.

LCD Display
SET CLOCK
MANUAL _

LCD Display
Aug 28, 2010
12:20:23

Press **“Enter key”** ↵ to confirm the setting. The cursor will automatically move to the next item to be changed (Month, Day, Year, Hours, Minutes, Seconds). On the last correction, seconds item press “**Enter key** “ ↵ to confirm new date / time set up.

Set vehicle ID#

- Maximum input number for vehicle ID# is 3 digits.

LCD Display
<> KEY TO SCROLL
F KEY TO EXIT

LCD Display
SET VEHICLE ID
ENTER TO SELECT

LCD Display
ENTER VEHICLE ID
1_

LCD Display
VEHICLE ID
CONFIGURATED

Saving data to USB memory stick

- Insert memory stick into USB port
- With LCD display showing date /time press **F** key and then number **9** and input password **521**. Follow instructions shown on the LCD display.

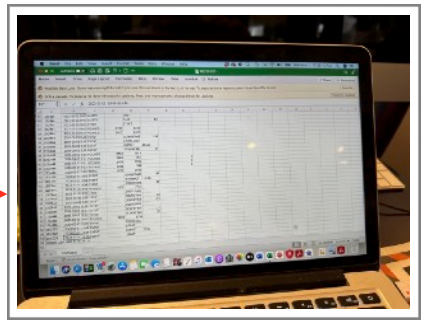
LCD Display
<> KEY TO SCROLL
F KEY TO EXIT

LCD Display
SAVE TO USB
ENTER TO SELECT

LCD Display
SAVING TO USB
- - - - - - -

LCD Display
ERASE SDRAM ? N

When the system has finished uploading the data to the USB memory stick the LCD display will prompt you to erase the SDRAM. Once you have made your selection **Y** or **N** the system will automatically bring you back to the main screen in the supervisor menu.



LCD Display
<> KEY to SCROLL
F KEY TO EXIT

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ED3C-AS SkidWeigh *Classic* *(Keypad Operator ID# input)*

How to program keypad operator vehicle access ID#'s

- With power turned on to the system the LCD display will indicate to **"ENTER ID NUMBER"**

LCD Display
ENTER ID NUMBER
ID =

- Input code **742F**. The LCD display will prompt you to input first valid operator ID#.
(Any number in range from 1 to 999) and press **"Enter key"** ↵.

LCD Display
ENTER VALID IDS
ID 1 = 111

- LCD display will advance and prompt you to input second valid operator ID# and press **"Enter key"** ↵.

LCD Display
ENTER VALID IDS
ID 2 = 222

- LCD display will advance and prompt you to input third valid operator ID# and so on.

LCD Display
ENTER VALID IDS
ID 3 = 333

* Above example showing operators ID# 111, 222 and 333.

On the last valid operator ID number that you have inputed into the system you must press **"Enter key"** ↵ and then press **F** key.

At any time if you want to look at the current operators ID numbers already in the system, change or delate them you must input password **742F** while LCD display is showing "Enter ID Number".

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ED3C-AS SkidWeigh *Classic* *(RFID Card Operator ID# Input)*

Every system is supplied with one Master Card and one valid Operator Scan Card

How to program operator's RFID access cards

The RFID operator access HID card reader is integrated into digital indicator housing with SkidWeigh Plus / Defender system having proprietary software that allows self programming, deleting and management of authorized vehicles operators on the any of the SkidWeigh products equipped with RFID card readers.

There is no need for any additional programming devices!

- **Turn ignition switch to on position**
  - The LCD display will indicate to "SCAN CARD"

1. Scan RFID MASTER CARD

LCD display will show

LCD Display
SCAN CARDS
< KEY TO EXIT

2. Scan first valid HID operator card.

The LCD display will show for the moment the value of the inputed card.
The LCD display will indicate that "CARD ADDED OK "and short beep once

LCD Display
SCAN MORE CARDS
< KEY TO EXIT

3. Scan second valid HID operator card.

Follow instructions shown on LCD display.
Keep adding the valid cards to vehicle. When all cards inputed into the system press **< KEY TO EXIT**
Lift Truck SkidWeigh RFID Authorized Operator Access *System has a capability to add up to 250 valid operator cards.*
Note: ***Proceed with programming valid operator cards for each vehicle in your fleet.***

How to delete operator(s) RFID cards already in the system

Turn ignition switch to on position
The LCD display will indicate to "SCAN CARD" (as shown on the picture)

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Scan RFID MASTER CARD

LCD display will show

LCD Display
SCAN CARDS
< KEY TO EXIT

Scan first valid operator CARD that you want to delete from the system

LCD display will show the card ID# . Use left ◀ and right ▶ arrow key to change to **Y.**

LCD Display
FC:222 ID: 44444
DELETE(Y/N)? N

The current card ID# 44444 will be deleted from the system. LCD display will automatically show

LCD Display
SCAN MORE CARDS
< KEY TO EXIT

Scan next valid operator CARD that you want to delete from the system

Follow instructions shown on LCD display.

Keep adding cards to be deleted. When all cards inputed into the system press **<** KEY TO EXIT

Note: In the case that you need replacement of RFID MASTER CARD, please call us at 905-469-0985

How to disable RFID reader

Vehicle access enable function in case of lost HID master card, valid card(s) or reader malefaction

- With digital indicator showing " IVDT SCAN CARD" press and hold **F** key for 5 seconds
- LCD display will show PASSWORD =_
- Input **521** and RFID reader will be disabled. Vehicle will be operational without RFID operator card.

How to enable RFID reader

With digital indicator showing date / time press **F** key and than input number **9**.

- LCD display will show PASSWORD =_
- Input **521**

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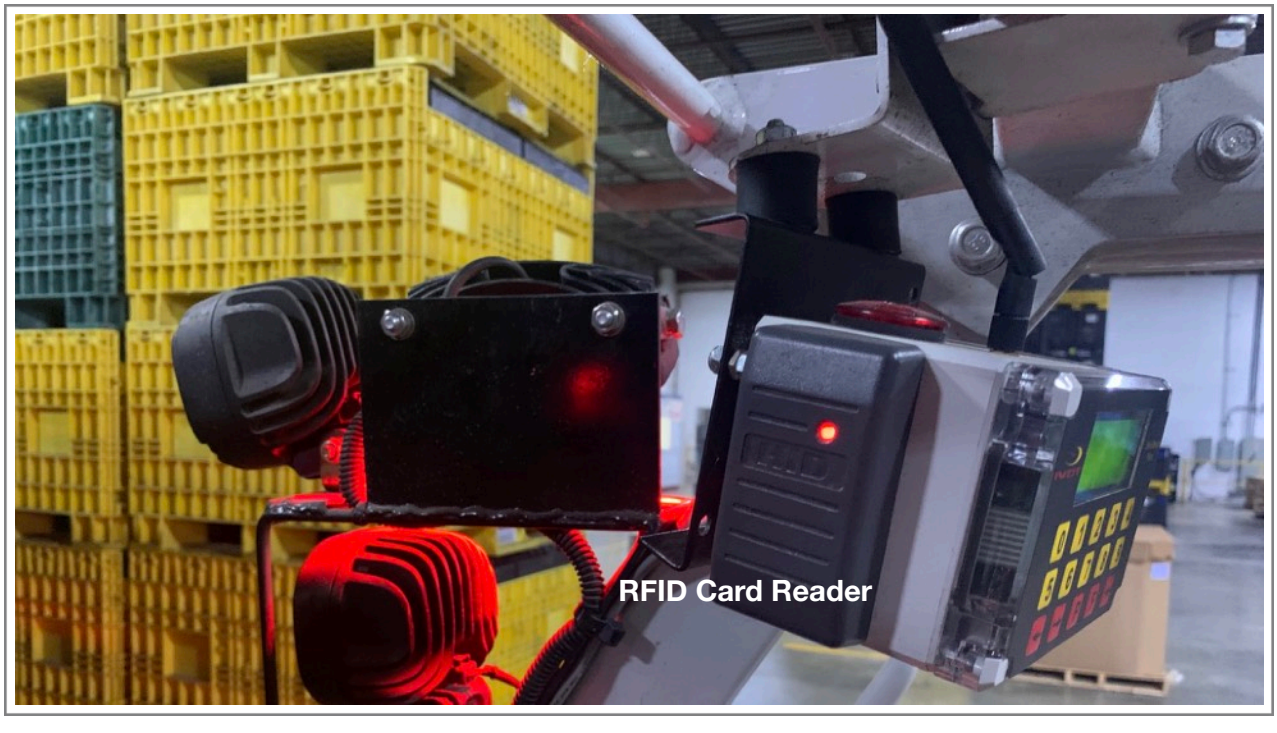
< KEY TO SCROLL and follow instructions

LCD Display
RE-ACTIVATE RFID
ENTER TO SELECT

LCD Display
RE-ACTIVATE RFID
TURN ON RFID ? N

ProxPoint Plus RFID Card Reader / SkidWeigh Technology

Read Range Typical 3”
Operating Voltage 12 to 55 VDC
Operating Temperature (-35 C to 65C)
Operating Humidity 5-95% non-condensing
Transmit Frequency 125 kHz
Card Compatibility All 125 kHz HID Proximity cards, long and short formats, as well as Corporate 1000 cards formats
LED Type Bicolored (green and red)
Transient Surge and Reverse Voltage Protection
Extra Security, Recognizes card formats up to 85 bits with over 137 billion unique codes
Application for all kinds of lift trucks regardless of the vehicle make, type ,model or operating voltage
Self programming, no additional devices required to add or delete cards from the system
Memory capacity to up to 250 operators ID#
FCC Compliance, part 15 of the FCC rule



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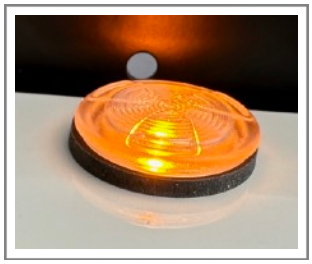
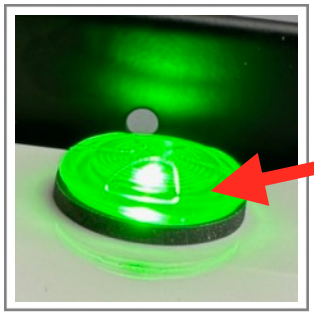
Operator Usage Guide



- Turn on ignition switch.

- Yellow Indicator light will be activated and stay on until a valid operator ID# is entered into the system and press **"Enter key" ↵.**
In the systems with RFID card reader, scan valid operator card.
When applicable complete OSHA safety check procedure for yellow light to be turned Off and green light will be activated.



Green light indicating normal operational mode
(Operator ID# and session start time is recorded to USB port)

OSHA Safety Check

AUTOMATIC RECORDINGS

* Date /Time
* Operator ID#
* Vehicle ID#
* Operator session start time
* OSHA / Pre-shift start time
* Total time taken to finish safety check
* Safety check procedure based on 8, 12 hours or daily
* Optional safety check questions available on request
* **Optional:** Impact detection

The OSHA safety check will be automatically initiated every 8, 12 hours or daily.
Default value shown on LCD display is (**F**) representing "fail".
Use **< >** key to change. Follow the LCD messages menu and press **"Enter key" ↵** after choosing **F** or **P**

F = Fail and (P)= Pass