

Intercomp

SWII

Users Manual

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Introduction

This manual contains specifications and operating instructions for Intercomp's SWII Scale System.

Specifications

Controls

General:	On, Off, %/WGT, TEST/ZERO, Left Front, Right Front, Left Rear, Right Rear
Channel selection:	Any combination
Display:	4 digit, LCD (0.5")
Indicators:	Left Front, Right Front, Left Rear, Right Rear, Low Battery, Selected %

Electrical

Voltage:	12 VAC/VDC, 120/240 VAC
Batteries:	6 x AA-size disposable alkaline cells or rechargeable Nickel-Cadmium cells.
Battery Life:	6 - 8 hours on fully recharged Ni-Cad cells. 20-25 hours on fresh alkaline cells.
Auto Off:	The system will automatically shut off after 1 hour without use or motion.
Filtering:	Analog: Trans-besel filter Digital: Average of several internal weights gives steady readings for unstable loads Auto-zero: Satisfies all HB-44 requirements
Input:	Input: 4 analog channels

Performance

Speed:	≈1 sec to typical reading (static)
Accuracy:	±0.1% of applied load or ± display graduation, whichever is greater
Divisions:	6000 lb/ 2800 kg capacity: graduation = 1 lb/0.5 kg 8800 lb/ 4000 kg capacity: graduation = 1 lb/0.5 kg

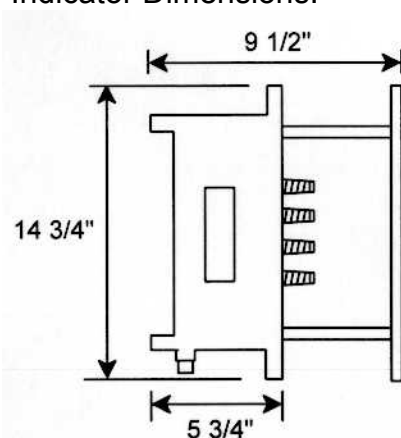
Environmental

Humidity:	10 to 95% non-condensing
Temperature:	Storage: -40° C to +75° C. / -40° F to +170° F Operating -10° C to +40° C. / +14° F to +104° F

Physical

4" heavy duty Weigh Pad	Dimensions: Weight: Leveling:	15" x 15" x 4" per pad 35 lb / 15.9 kg adjustable feet for leveling on uneven surfaces
4" Weigh Pad	Dimensions: Weight: Leveling:	15" x 15" x 4" per pad 35 lb / 15.9 kg adjustable feet for leveling on uneven surfaces
2" Weigh Pad	Dimensions: Weight:	15" x 15" x 2" per pad 23 lb / 10.5 kg
Indicator	Weight:	35 lb / 16 kg

Indicator Dimensions:



Optional Equipment

15" x 15" x 4" Ramp, cast aluminum, set of 4 (100330)

15" x 15" x 2.5" Ramp, cast aluminum, set of 4 (100342)

This option allows you to drive the car onto the pads in the case that you are not using a setup rack or jacking the car up.

220 VAC/ 50 Hz Power Pack (100546)

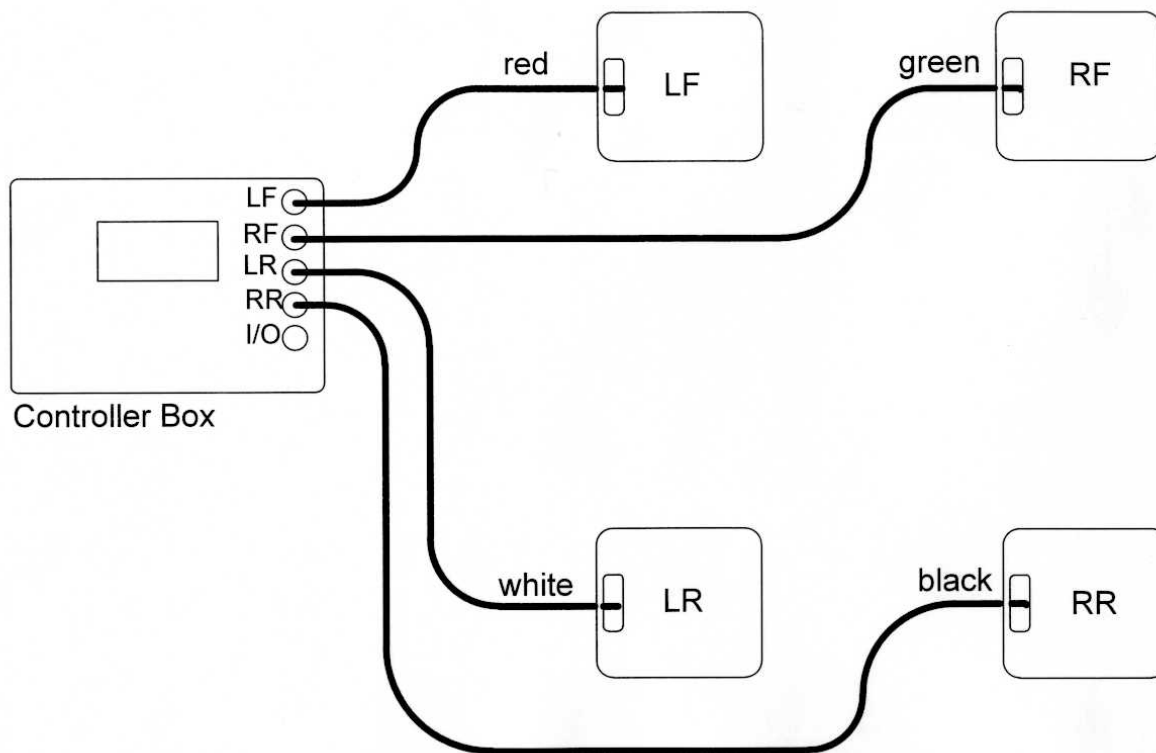
220 VAC plug-in transformer provides direct power to the SWII indicator.

System Carrying Case (100056)

Holds the 4 platform scales, indicator, cables, and manual.

Setup

System

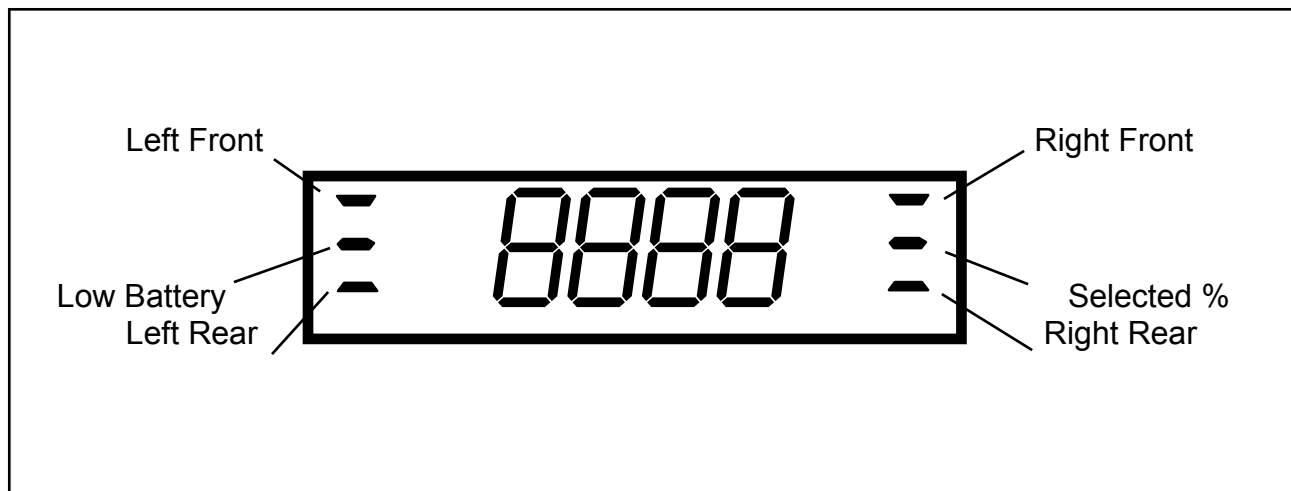


System setup configuration

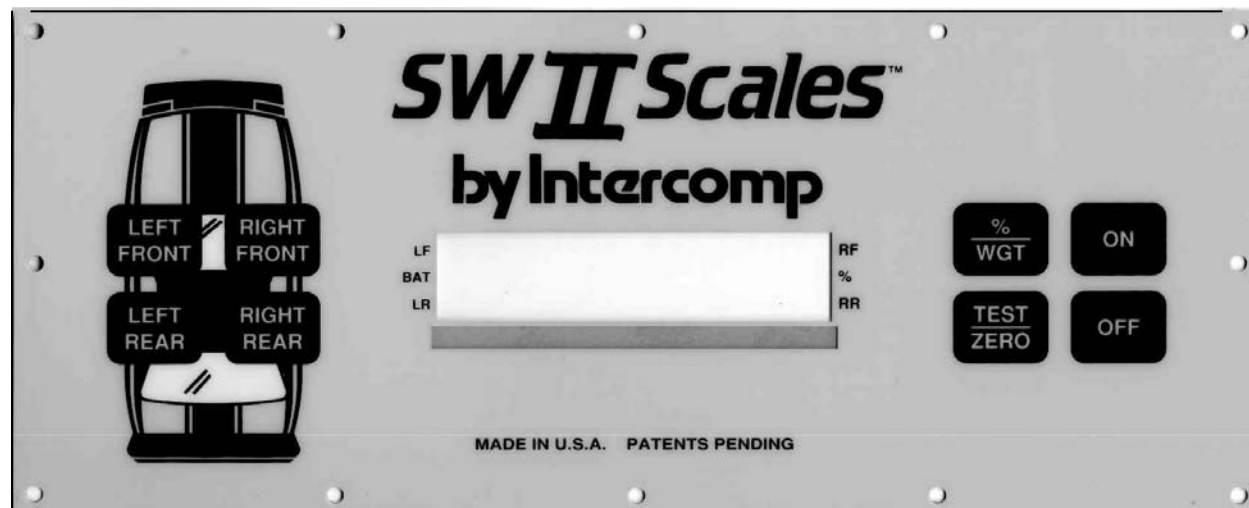
1. Place the four pads near their appropriate car tire: LF by left front, RF by right front and so on.
2. Connect one end of each cable to a pad: LF-Red cable, RF-Green cable, LR-White cable, RR-Black cable.
3. Connect the free end of each cable to the control box: LF-Red cable, RF-Green cable, LR-White cable, RR-Black cable.
4. Turn the indicator on.
5. Jack the car onto each pad.

Operations

Display



Controls



ON

Turns system on.

OFF

Turns system off.

% / WGT

When pressed the display will show the selected weight percentage and the % indicator will be “on”. This value is the weight percentage of the selected pads vs. the total weight of the car. If a specific pad indicator is “on” it means that weight is selected and will be added into the total and percentage shown.

A percentage will be displayed if no wheel weights are negative and the total weight is not zero. If all four wheels are selected, the selected percentage will read 100.0.

$$\text{selected \%} = \frac{\text{weight of the selected pads}}{\text{total weight of the car}} \times 100$$

TEST / ZERO

If pressed during normal weighing mode, the system will zero all four pads. To zero a specified pad, press and hold the corresponding key (LF, RF, LR, RR) and press zero. This key is also used to set calibration data (see SWII Service Manual).

Normally, when the scale is turned on it will automatically zero the scale. However, if the scale is turned off and turned back on within a couple of seconds, the current weights will be remembered. That means that if a car is on the weigh pads and the unit is turned 'off', when the scale is turned back 'on' the current weights could be displayed, not zero.

LEFT FRONT

Toggles the selection of the left front pad. If the left front is selected, it will be added to the total weight of the selected pads and the corresponding indicator will be “on”. This will also add to the weight percentage of selected pads.

RIGHT FRONT

Toggles the selection of the right front pad. If the right front is selected, it will be added to the total weight of the selected pads and the corresponding indicator will be “on”. This will also add to the weight percentage of selected pads.

LEFT REAR

Toggles the selection of the left rear pad. If the left rear is selected, it will be added to the total weight of the selected pads and the corresponding indicator will be “on”. This will also add to the weight percentage of selected pads.

RIGHT REAR

Toggles the selection of the left rear pad. If the left rear is selected, it will be added to the total weight of the selected pads and the corresponding indicator will be “on”. This will also add to the weight percentage of selected pads.

FRONT TOTAL

By pressing LEFT FRONT and RIGHT FRONT simultaneously, the weight of the front end is displayed.

REAR TOTAL

By pressing LEFT REAR and RIGHT REAR simultaneously, the weight of the rear end is displayed.

CROSS

By pressing LEFT REAR and RIGHT FRONT or LEFT FRONT and RIGHT REAR simultaneously, the cross weight is displayed.

TOTAL

By pressing all pad select keys together, the total weight of the car is displayed.

Power / Batteries

You may use 6 rechargeable Nickel-Cadmium ‘AA’-cells or 6 standard alkaline ‘AA’ cells in the SWII system.



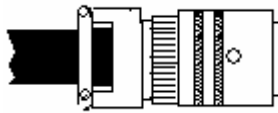
WARNING: Do not plug the charger in while there are standard alkaline cells inside. This could result in damage to the batteries and your scale.

The charging LED (next to the connector on the indicator) will light when the charger is plugged in. With fully charged Ni-Cad batteries the scale will operate from six to eight hours off of battery power. With fresh alkaline batteries, the scale will operate 20 - 25 hours.

To replace the batteries unscrew the battery cap. Change cells, being careful to insert with correct polarity. Screw on the battery cap.

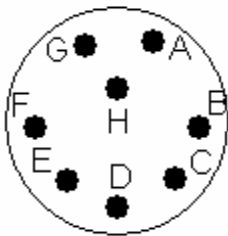
Serial Output

Connector Pin Designations:



PT Connector

- A: NC
- B: NC
- C: Ground (- Charging Voltage)
- D: NC
- E: +Charging Voltage
- F: NC
- G: TXD
- H: Ground (signal)



Protocol

The serial output is RS-232 and in the following format:

- 1200 Baud
- 8 data bits
- 1 start bit
- 2 stop bits
- no parity

Print Ticket

The print ticket is in the following format:

```
<cr><lf>
SW,I,,SCALES<cr><lf>
BY,INTERCOMP<cr><lf>
<cr><lf>
LF[, ,xxxxx<cr><lf>
RF[, ,xxxxx<cr><lf>
LR[, ,xxxxx<cr><lf>
RR[, ,xxxxx<cr><lf>
<cr><lf>
TOTAL, , xxxxx<cr><lf>
, , ,%, ,xxx.x<cr><lf>
<cr><lf>
END,PRINT<cr><lf>
<cr><lf>
```

Item	Meaning	Note
LF,RF,LR,RR	Pad weights	
TOTAL	Total selected weight	
%	Percentage of selected weight	0 to 9, may have a decimal point added

Error messages

<i>DISE</i>	The weight is too large to fit on the display.
<i>OE</i>	This message will blink if weight present on the pad exceeds the pads capacity, or the pad is not plugged in, or the pad may have failed.
<i>EEPE</i>	EEPROM error. The scale has lost saved information or its calibration information was corrupted. Scale will require calibration.

How to reach Intercomp Service

Things to know:

1. The service is for a SWII scale system.
2. When did you purchase your scale?
3. What is your serial number?
4. Whom did you purchase the scale through?

For Intercomp Service call or fax:

FAX # (763)-476-2613
(763)-476-2531
1-800-328-3336

or fill out Service Support form at:

www.intercompco.com