WorkZone PreView® SAS

QUICK INSTALLATION GUIDE

PreView® RADAR SYSTEMS

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1 — Before You Start

Contents:
Sensor (1)
    Sensor Mounting Hardware: 4 each Flat Washers
    1 1/4" x 10-24 Bolts, and Locking Hex Nuts
Display (1)
    Display Mounting Hardware: Mounting Bracket (1)
    2 each— 4-40 1/4" Hex Nut and #4 Lock Washer
Alarm (1)
    87-112dB Alarm (SAS Alarm)
Cables (2) 1 each
    HRPV410T Interconnect Cable 25' / 7.6M
    SAS INT Interconnect Cable 43"/1.09M

User Manuals and Drill Template

SENSOR HARDWARE   **DISPLAY HARDWARE**

See additional configurations and accessories on the back page

2 — Mount Sensor

Select a location for the sensor approximately 3ft/1M above the ground. (If the sensor must be installed higher than 3ft/1M, the sensor may need to be tilted down slightly to achieve the desired detection zone.) Ideally the sensor should be centered on the rear of the vehicle. Reference the Drill Template to mark and drill the holes for mounting the sensors. Mount the sensors using the supplied hardware with a 22 in/lbs maximum torque.

Important!
Before the PreView System is permanently installed to the vehicle, verify the selected location provides a clear detection zone. Temporarily attach the sensor in the proposed location, apply power to the system, and verify nothing is detected.

3 — Install Cables

Routing the cable should start at the sensor. Allow a small service loop in the cable at the sensor and secure the cable every few feet (~1M) with tie wraps. To enter the cab, drill a 1" (24mm) hole and feed the display connector through. Route the remaining length of cable to the display.

Critical Note!

The connectors are fully waterproof if mated properly. The connectors with a collar (coupling ring) must be turned to the right until they lock with the mating connector. The connectors with a latch(es) must click (locking mating connectors together). Do not route cable next to heat sources or area that may see abrasion or rock and debris damage. Bundle and store any excess cable.

4 — Mount Alarm

SAS—Safety Alert System. Remove the existing back-up alarm and mount the SAS Alarm in the same location or in close proximity. Connect the alarm to the SAS INT cable. Wiring details shown on the back of this document.

2 Wire pigtail connection detailed on back page

3 Wire pigtail connections Detailed on back

5 — Mount Display

Mount the display in a location that is easily viewed by the driver during vehicle operation. Possible locations for the display is on the dash or by either windshield pillar. Use the drill template and supplied hardware (including the bracket) to mount the display in the cab of the vehicle as desired.

Vehicle shown for reference

Note orientation: THIS SIDE UP

DISPLAY

HRPV410T

SENSOR

SAS INT

SAS97DT

or

SAS—Safety Alert System

SAS ALARM

Wire Connections Wiring Diagram ›››› **Back Page**

Contact Technical Support with Questions:

Telephone: 844.787.2327
Web: www.PreViewRadar.com
Email: support@preco.com

The quick install guide is only a supplement to the product manuals. Please read all of the manuals for complete information and instructions before installing the product.

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PreView®
R A D A R   S Y S T E M S

10335 W Emerald St
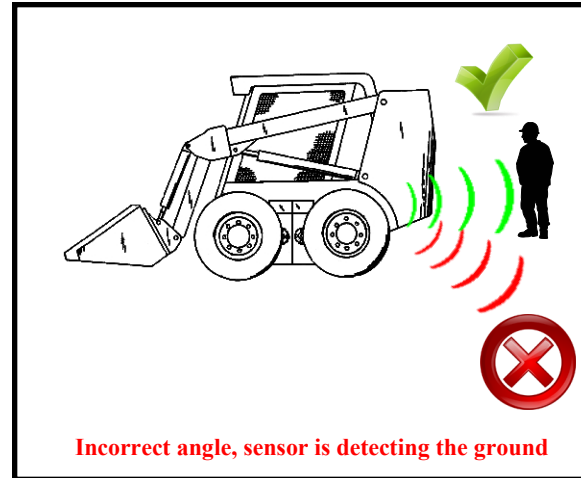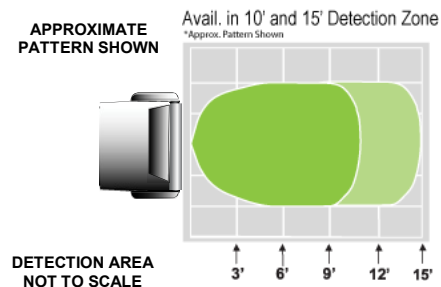Boise, ID 83704
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Initial System Power Up and Test

Once the sensors, alarm, and display are installed, wired and connected, power should be applied to test system operation. The vehicle must be placed in reverse to power up the system and the green status LED will be the only light illuminated (the 3rd yellow LED may flash once). The SAS alarm should also begin sounding and should either change tone (SAS97DT) or increase in volume (SAS) with the detection of an object. If any of the detection (yellow) LED's are lit or the SAS alarm is indicating a detection, check for any objects which may be detected by the sensors. If possible, move the sensors so they do not detect the object(s). If it is not possible to relocate the sensors contact Preco Electronics, Inc™.

If for some reason the system is malfunctioning, the status LED will turn from green to red, one of the yellow LEDs will be illuminated, and the buzzer will emit a short stutter sound (except for CD6102OC). Refer to the Troubleshooting section in the display manual to determine the error and potential causes.

Once the system has been installed and verified, the detection zone should be tested. The test should be performed with two people, one who remains in the cab (the operator), and one who walks through the sensor field to the rear of the vehicle (the assistant). The operator engages the parking brake, presses the vehicle brake, and places the vehicle in reverse. The assistant then walks through the detection zone while the operator notes where the display buzzer activates or SAS alarm indicates a detection. An accurate detection zone can be mapped by moving about the rear of the vehicle and noting when the display or alarm indicates a detection. The assistant could also map the detection area instead of the operator by noting where the alarm either changes tone (SAS97DT) or increases in volume (SAS). **NOTE: Assistant should wear hearing protection to prevent hearing damage as the SAS alarm is very loud.**

Incorrect angle, sensor is detecting the ground

The Sensor should be centered on the rear of the vehicle for best coverage. **Caution:** The tilt angle of the sensor will determine the path of the radar. (See image above)

APPROXIMATE PATTERN SHOWN

Avail. in 10' and 15' Detection Zone
*Approx. Pattern Shown

DETECTION AREA NOT TO SCALE

3'   6'   9'   12'   15'

The PreView® system is a blind spot collision warning system designed to supplement other safety practices and/or devices. The machine operator is always the first line of defense when safely operating a vehicle.

Configurations:
Sensor range available: WZPV5210 10'/3M AND WZPV5215 15'/4.5M

Display Options: CD6102 = Display with buzzer for use in inside applications. Audible alert in addition to yellow LEDs indicate a detection.
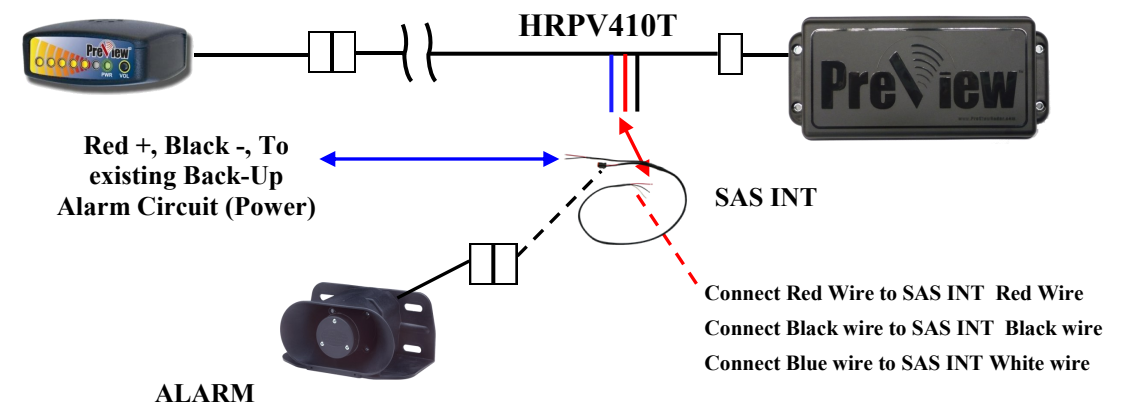CD6102OC = Sealed display without buzzer for open cab applications. Detections are noted with illumination of the yellow detection LEDs.
CD6102NVC = Same functionality as CD6102 with audible alert set to the max volume that cannot be changed.

Alarm Options: SAS Alarm that increases volume (112 dB) when an object is detected. SAS97DT Alarm that increases sound frequency when an object is detected.

Accessories:
Extension Cables Available: HRPV4110 = 10'/3M, HRPV4115 = 15'/4.5M, and HRPV4125 = 25'/7.6m

HRPV410T

PreView

Red +, Black -, To existing Back-Up Alarm Circuit (Power)

SAS INT

ALARM

Connect Red Wire to SAS INT Red Wire
Connect Black wire to SAS INT Black wire
Connect Blue wire to SAS INT White wire

TESTING / MAINTENANCE

Test the PreView® System every day for functionality and performance prior to vehicle operation, refer to the sensor manual.

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