



CSS-2

Nevco Scoreboard Company CSS-2 Cable System Switch Installation and Service Manual

Document: 135-0204

Revised: 2026-03-17

Nevco Sports · 301 East Harris Avenue, Greenville, Illinois 62246 · 800.851.4040 · support.nevco.com

Nevco Scoreboard Company Installation and Service Manual

Model CSS-2

Table of Contents

- Cable System Switch Operating Instructions — 2
 - How it works — 2
 - Installation — 3
 - Trouble Shooting — 3
 - Replaceable Parts List — 3
 - System Illustration of Multiple Scoreboards w/ Alternate Control Points Using an CSS-2 — C7651
 - CSS-2 Parts Illustration — C7750
 - Nevco Statement — 6
 - Request For Service or Parts — 7
-

Introduction To Nevco Scoreboards

The CSS-2 is a Cable System Switch which allows any size facility to route cables effectively for installation. The CSS-2 simplifies the multiple connections needed to complete or change a scoreboard system; thus, allowing scoreboards to operate together as a system or independently. This unit plugs into 120V, 50/60HZ outlet.

In the following pages you will learn about the equipment you have received. There is an illustration to assist you. Also, a complete list of replaceable parts and a trouble shooting guide.

Please read this manual completely and carefully before attempting any of the installation procedures. Keep this manual in a safe place for future reference.

Cable System Switch Operating Instructions

The Cable System Switch (CSS-2) manages the operation of a system of multiple scoreboards and multiple operator control points. It is the hub that connects operator controls to the scoreboards in a large system. By sensing control signals from alternate control points the CSS-2 automatically switches selected scoreboards to operate independently from alternate control points when needed.

This package includes a CSS-2 Cable System Switch, one sheet of cable labels, these instructions, and a system drawing created for your particular system requirements. Please review the drawing to be sure that it fits the way you want the system to work. Do not attempt to alter the system. If you have any questions contact the Nevco Service Department for assistance and have your system drawing at hand when you call. If the system drawing does not fit your requirements another drawing will be sent free of charge.

How it works

Every scoreboard system has at least one primary control point from which all scoreboards in the system are operated. Connected as shown in figure 1, the control signal from the primary control point is routed to all output channels. The CSS-2 will operate up to 12 scoreboards, shot clocks, and other system components requiring a control signal. If you have only one operator control point this is how your system is connected.

Large scoreboard systems can operate as a single unit but are often divided into groups of scoreboards operated independently for smaller concurrent events. The Cable System Switch automatically routes an input channel to a corresponding output when a control signal is present on that input channel.

Figure 2 allows for another control to operate the scoreboard connected to output channel "C". When the Cable System Switch detects a control signal from input channel "C" it will switch it to output channel "C"; thus, overriding the primary control signal. When the alternate control is turned off the Cable System Switch will switch output channel "O" back to the primary control point input.

NOTE

NOTE: It is the signal from an operating control that is detected by the CSS-2; there is no need to change the connections to the CSS-2.

Illustrated by figure 3, an alternate control point can be made to operate more than one output channel by connecting it to the corresponding input channels with "T" connectors.

A terminated "T" connector is required at the end of each alternate control cable group.

Drawing number C7651 is an example of a system using the CSS-2. This is not intended to be your system.

Installation

The CSS-2 can be placed in any convenient room temperature location where the system control cables can be consolidated and a 120-volt power outlet is available.

It is very important to use the label set supplied to mark both ends of the cables. If changes are required or the labels are damaged or lost, order part number 935-0033 from the Nevco Service Department. These drawings are kept as a permanent record at Nevco Scoreboard Company. If there are any additions, corrections, or questions about the system a Nevco technician will be able to access your drawing by its number.

Trouble Shooting

An LED overload indicator is associated with each output channel. If this indicator is illuminated there is an overload condition on that output channel. Typically a short-circuited control cable causes this. If the cable end connectors are installed correctly then there is damage somewhere along the length of the cable.

Replaceable Parts List

PART NO.	DESCRIPTION
009-0084	COAXIAL CABLE - NO CONNECTORS (SPECIFY LENGTH)
031-0004	FUSE, 3AMP

PART NO.	DESCRIPTION
031-0013	FUSEHOLDER
210-0008	FIELD INSTALLABLE BNC W/BOOT
603-1818	COAX CABLE 15 INCH W/CONNECTORS
935-0025	LABEL SET FOR CSS-2

System Illustration of Multiple Scoreboards w/ Alternate Control Points Using a CSS-2

Drawing No. C7651

NOTES:

-
- 01 WALL BOXES MUST BE EARTH GROUNDED TO THE SAME GROUND OR GUARANTEE IS VOID.
-
- 02 CONTROL CABLE RG-5B/U, 1/4" DIAMETER. IF ANY CABLE LENGTH EXCEEDS 1000' CONTACT THE NEVCO FACTORY. CABLE VOLTAGE IS 5 VOLTS. FOR CONDUIT INSTALLATION: 1/2" CONDUIT REQUIRED.
-
- 03 FOR ELECTRICAL POWER REQUIREMENTS OF EACH ITEM REFER TO OTHER DRAWINGS OR SPECIFICATIONS.
-
- 04 WALL BOX 4" x 2 1/8" x 2 1/8" W/ COVER
-
- 05 CONTROL CABLE 25' W/ CONNECTORS
-
- 06 WALL BOX 4" x 2 1/8" x 2 1/8" W/ COVER
-
- 07 WALL BOX 4" x 2 1/8" x 2 1/8" W/ COVER
-
- 08 WALL BOX 4" x 2 1/8" x 2 1/8" W/ COVER
-
- 09 WALL BOX 6" x 6" x 4" W/ 6" x 6" COVER

EXTRA ITEMS TO ORDER FROM NEVCO:

- 009-0084 (13 EA) LENGTHS REQUIRED
- 6A: 210-0007 (3 EA) TERMINATED T CONNECTOR
- 7: 239-0081 (2 EA)

- 210-0008 (10 EA) 2-WIRE (BNC) CONNECTOR

CERTAIN CONNECTORS, BOXES AND CABLES ARE FURNISHED WITH THE EQUIPMENT SHOWN. ONLY THE 'EXTRA ITEMS' ARE NEEDED TO COMPLETE THIS SYSTEM.

- * PRIMARY CONTROL POINT
- \ | ALTERNATE CONTROL POINT

Title Block: BASKETBALL 4-FACE SCOREBOARD, DUAL SCOREBOARDS & SHOT CLOCK SET — ALL W/ ALTERNATE CONTROL POINTS & CSS-2 SYSTEM

Drawn: HW **Date:** 10/13/99 **Sheet:** 1 OF 1

CSS-2 Parts Illustration

Drawing No. C7750

Rear View:

- Primary Control Point Input
- Alternate Control Point Input Channels: A B C D E F G H J K L M
- 3 Amp Fuse
- 120V, 0.3A, 50/60HZ GROUNDED PLUG

CAUTION

Warning: For continued protection against the possibility of fire, replace the fuse only with the same type and rating (3 Amp).

Front View:

- Output Channels: M L K J H G F E D C B A
- Overload Indicators
- Power switch

Drawn: HW **Date:** 2/4/00 **Sheet:** 1 OF 1

NOTE

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouleur du Canada.

Service Request

Scoreboard Serial #: _____

Service: Module(s) Serial #: _____

Service: Control(s) Serial #: _____

Comments: _____

Parts Request

QUANTITY	PART NO.	DESCRIPTION
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____
5. _____	_____	_____

Page 8 of 9

Make a copy of this form to order parts needed and/or to return with item to be serviced.