



DS44

All Scales

Stationary Decoder for use with 4 slow motion turnout machines

Features

- Simple hook up and set up
- Control 4 individual slow motion turnout machines, such as Tortoise by Circuitron. *DS44 will not work with Solenoid type turnout machines.*
- Turnout addresses can be set individually or in groups of 4 (quick set up).
- DCC compatible

Parts List

- | | |
|---------------------------|--------------------|
| 1 DS44 Stationary Decoder | 1 Instruction Card |
|---------------------------|--------------------|

Installation Instructions

QUICK SETUP (Sequential addresses)

1. Turn off track power.
2. Connect the red and black wires from the non-harness end of the DS44 to the track.
3. Temporarily connect the white wire from the DS44 harness to the same rail as the black wire.
4. Turn on track power.
5. Choose a group of 4 switch addresses according to **TABLE I**. Using your throttle, send a SWITCH command to any switch address in the group. This sets the DS44 to control that particular group of 4 switch addresses and the turnout machines attached to them.

Example: Operate turnout #6. this will set up the DS44 to control switch addresses A=05, B=06, C=07, D=08.

6. Disconnect the white wire from the track and fold it away so that it can't make contact with the track.
7. Consult the wiring directions for the slow motion switch machine you are using and wire according to the diagram in **Figure 1**.

TABLE I: DS44 Switch Address Groups

DS44 Output	A	B	C	D
Factory Default	01	02	03	04
Additional	05	06	07	08
Switch	09	10	11	12
Address	13	14	15	16
Groups	17	18	19	20

Continues in groups of 4



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Figure 1: DS44 Hook Up

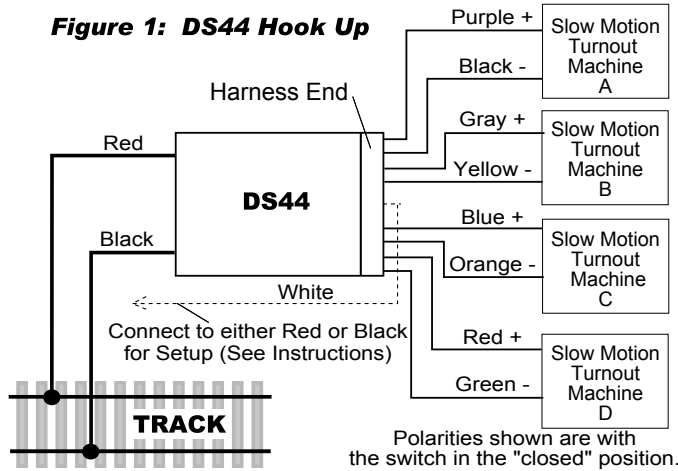
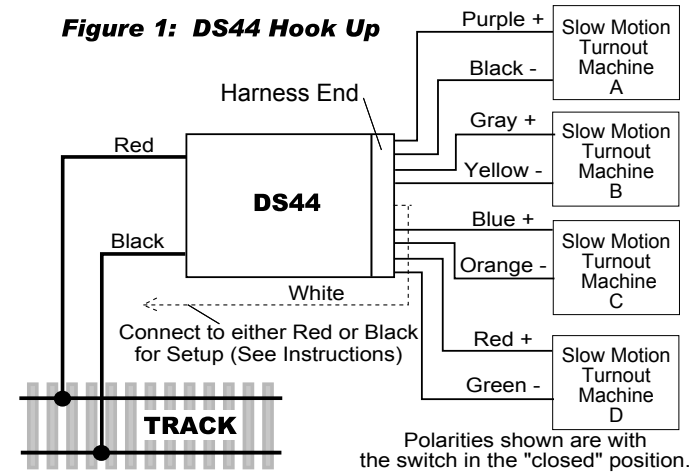


Figure 1: DS44 Hook Up



Individual Address Set Up (Non Sequential Addresses)

1. Turn off track power.
2. Connect the red and black wires from the non-harness end of the DS44 to the track.
3. Temporarily connect the white wire from the DS44 harness to the same rail as the red wire.
4. Turn on track power.
5. Using your throttle, operate the 4 switch addresses you want to set for the D44. The first switch address you operate sets the address of DS44 Output A, the second sets the address of Output B, the third Output C & the fourth sets Output D.

Example: Operate switch addresses 06, 13, 25 & 105. This will set the DS44 to control switch addresses A=06, B=13, C=25, & D=105.

6. Unhook the white wire and fold it away so it can't touch the track.
7. Consult the wiring directions for the slow motion turnout machine you are using and wire according to the diagram in **Figure 1**.

Individual Address Set Up (Non Sequential Addresses)

1. Turn off track power.
2. Connect the red and black wires from the non-harness end of the DS44 to the track.
3. Temporarily connect the white wire from the DS44 harness to the same rail as the red wire.
4. Turn on track power.
5. Using your throttle, operate the 4 switch addresses you want to set for the D44. The first switch address you operate sets the address of DS44 Output A, the second sets the address of Output B, the third Output C & the fourth sets Output D.

Example: Operate switch addresses 06, 13, 25 & 105. This will set the DS44 to control switch addresses A=06, B=13, C=25, & D=105.

6. Unhook the white wire and fold it away so it can't touch the track.
7. Consult the wiring directions for the slow motion turnout machine you are using and wire according to the diagram in **Figure 1**.

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