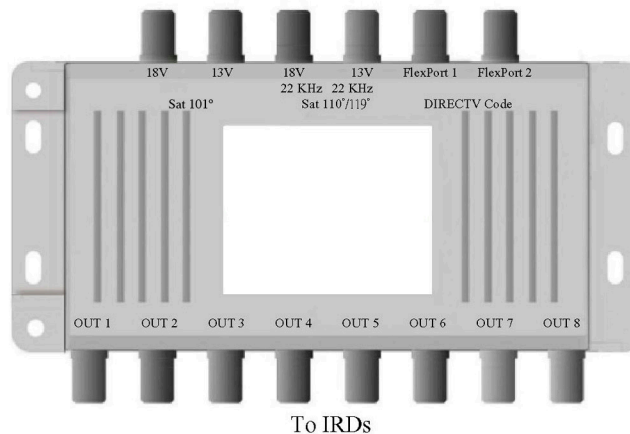


Installation Guide, DIRECTV-Approved Indoor/Outdoor 6x8 Multi-Switch

(Rev 2, 9/9/04)



The 6x8 Multi-Switch is designed to interface with the traditional 101°/110°/119° West Longitude satellite dish antennas plus two additional expansion inputs called FlexPort 1 and FlexPort 2. The FlexPorts are used to interface with the dish antennas of two additional DIRECTV® Satellites, such as 95°W, 72.5°W. Observing the following recommendations will speed up installation and reduce potential error:

- ▶ FlexPorts can only be accessed with the latest Advanced Program Guide® (APG) satellite receivers. Earlier, non-APG satellite receivers can select the first 4 ports only (101°/110°/119°W satellites).
- ▶ If you have both 72.5° W and 95° W, use FlexPort 1 for 72.5° W and FlexPort 2 for 95° W. If you have either 72.5° W or 95° W but not both, always use FlexPort 1. In a multi APG IRD environment, you should run one “Auto Configure” at a time; before an “Auto Configure” is running make sure the other APG IRDs are on 101° W (Channel 100 is suggested). This will reduce system acquisition time and minimize errors.
- ▶ APG satellite receivers have “Auto Configure” for detecting dish setups. This is mainly intended for FlexPort connections. If you do not have any FlexPort connected, always use the manual dish setup option instead of “Auto Configure” to speed up the installation process. Consult your receiver manual.
- ▶ The 6x8 Multi-Switch is passive, powered only by the connected satellite receiver(s). It works best with low current systems such as the Phase III Multi-Satellite (one with integrated triple-head LNB) dish antenna and/or any other DIRECTV Single-Satellite Dish Antenna. Therefore, for the earlier Phase I or Phase II DIRECTV Multi-Satellite Dish Antenna not involving FlexPorts, always use an AC-powered 4x8 Multi-Switch. Phase I and Phase II Multi-Satellite systems use more current and have other DC drops, limiting the cable run length unless the AC-powered 4x8 Multi-Switch is used. For application diagrams, please see the next page.
- ▶ There is no off-the-shelf equivalent multi-switch to the 6x8 Multi-Switch; the expansion locations require selection codes unique to DIRECTV. This installation guide includes a DIRECTV-recommended method to add a terrestrial off-air/HDTV signal to the DIRECTV satellite signal. With this recommended method, most of the terrestrial off-air/HDTV signals are passed to your TV/satellite receiver to optimize performance. A typical off-the-shelf, passive 8-output multi-switch attenuates the terrestrial off-air/HDTV signal and passes less than 1% of the terrestrial or HDTV input signal to any 1 of the 8 outputs.
- ▶ Using RG-6 with solid-copper center conductor is always recommended to reduce cable DC drop. Using RG-6 cables with proper exterior water-proof connectors, preferably mounting/orienting the 6x8 where it is shielded from rain.
- ▶ The total RG-6 cable length from each satellite receiver to the DIRECTV Dish Antenna should be kept to 100 feet max.

(See other side for installation drawings)

**With Phase III, 18"x20"
DIRECTV® Multi-Satellite Dish Antenna System,
FlexPorts Connected
(dishes not shown)**

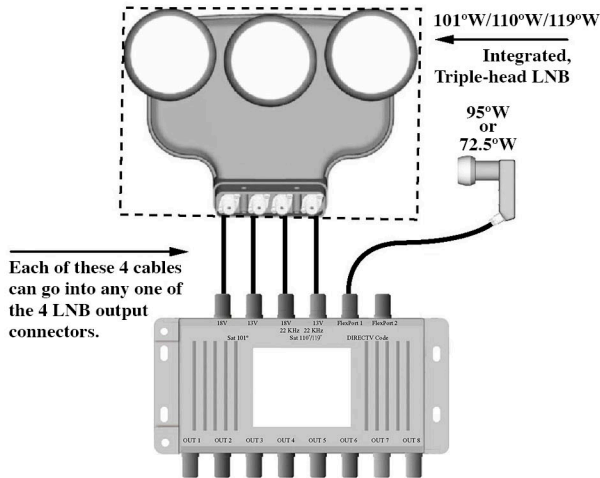


Fig.1

**With Phase II, 18"x24"
DIRECTV Multi-Satellite Dish Antenna System,
FlexPorts Connected
(dishes not shown)**

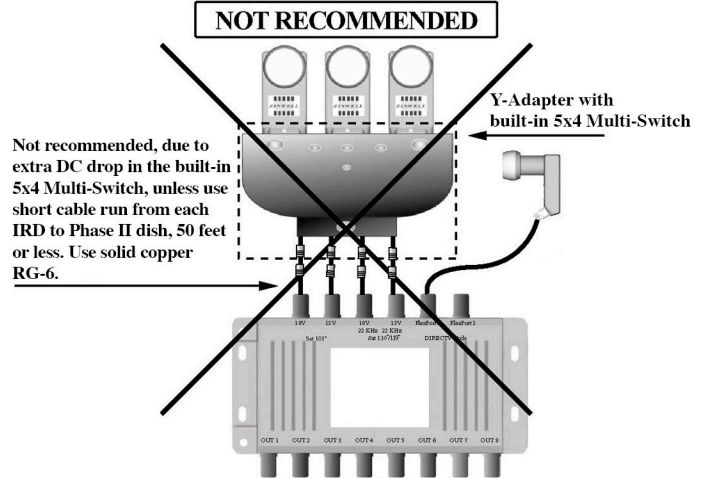


Fig.2

**With Phase I, 18"x24" Oval DIRECTV® Multi-Satellite Dish Antenna System,
FlexPorts Connected, 4x4 Must be Removed
(dishes not shown)**

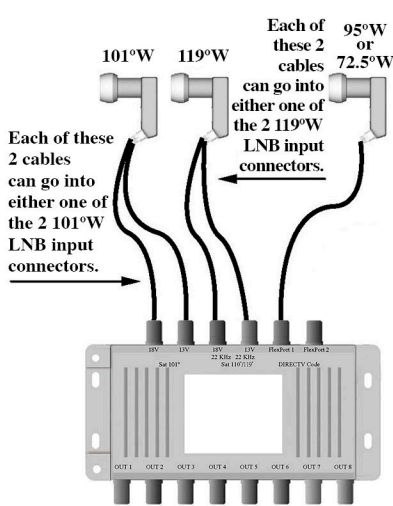


Fig.3A

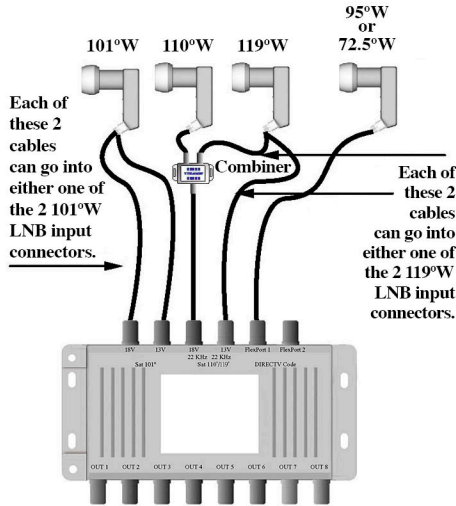


Fig.3B

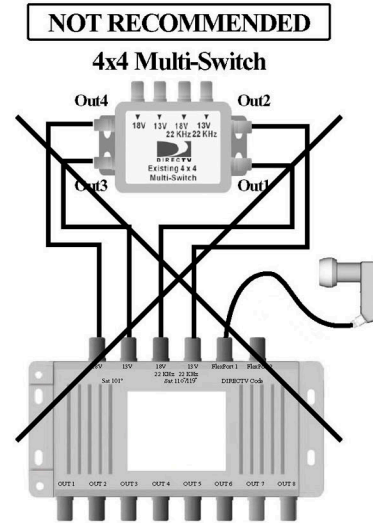


Fig.3C

**With 18" Round DIRECTV Dish
Antenna System
(dishes not shown)**

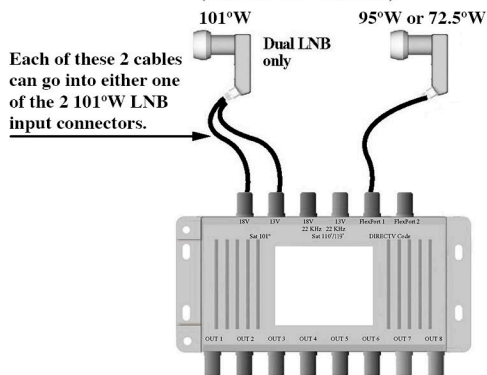


Fig.4

**Low-loss Addition of Terrestrial HDTV Signal
or Off-air Signal to Satellite Signal
(applicable to all DIRECTV System units, see Figures 1-4)**

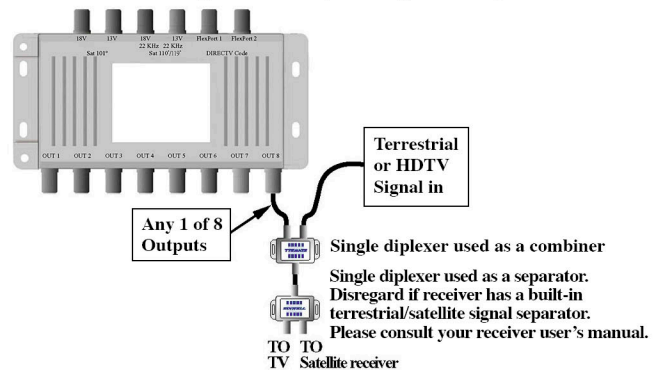


Fig.5

Please also check with DIRECTV on approved dual or quad combiners, as shown below:

