

Tech Tips Quiz (ATR)

Case I: Dish500 with DishPro Twin

LNBs: Twin-1		
Dish Input:	1	2
Satellite	Conn	Conn
Transponder	X	X
Device	Twin	Twin

Receiver is correctly connected to DishPro Twin port 1. No satellite signal available (dish antenna may not be pointed, line-of-sight to satellite may be obstructed, etc).

Case II: Dish500 with DishPro Twin, Dish300 with DishPro Single, and DP34 switch

Switch: DP34-500 LNBs: Twin-1(1) Sngl (2) Twin-2(3)			
Dish Input:	1	2	3
Satellite	Conn	Conn	Conn
Transponder	X	X	X
Device	Twin	Sgl	Twin

Receiver is correctly connected to DishPro 34 switch. DishPro Twin port 1 is connected to switch port 1. DishPro Twin port 2 is connected to switch port 3. DishPro single is connected to switch port 2. No satellite signal available (dish antennae may not be pointed, line-of-sight to satellite may be obstructed, etc).

Case III: Dish500 with DishPro Twin, Dish300 with DishPro Single, and SW21 switch

LNBs: Twin-1		
Dish Input:	1	2
Satellite	119	110
Transponder	All	All
Device	Twin	Twin

- SW21 is NOT a DishPro switch and therefore you cannot use with DishPro switches/LNBs. In this case, the SW21 will pass both DiSEqC 22KHz commands both ways and will pass the band-stacked transponders. Therefore, the DishPro Twin, which is connected to the SW21 default port, can communicate and respond to the receiver commands causing a successful check switch for the DishPro Twin. However, since the receiver is unaware of the SW21 (because the SW21 cannot respond to DiSEqC commands), the receiver does not command the SW21 to switch to its second port to obtain signal from the DishPro single. Therefore, the DishPro single is omitted from the check switch.

Case IV: Dish500 with DishPro Twin

LNBS: Twin-1		
Dish Input:	1	2
Satellite	Conn	119
Transponder	X	All
Device	Twin	Twin

Receiver is correctly connected to DishPro Twin port 1. However, signal from 119W is showing up on the LNB intended for the 110 signal (Dish Input 2); therefore, the dish is incorrectly peaked. To correct, the dish must be re-peaked with 119 signal coming in on the 119 LNB (Dish Input 1) and check switch needs to be rerun.

Case V: Dish500 with Legacy Twin, DP34 switch

Switch: DP34			
Dish Input:	1	2	3
Satellite	X	X	X
Transponder	X	X	X
Device	NC	NC	NC

The 500Twin is NOT a DishPro LNB and therefore you cannot use with DishPro switches/LNBs. In this case, the receiver gets a DiSEqC response from the DP34 and therefore acknowledges the DP34 switch. Since the 500TWIN can't respond to DiSEqC commands, the receiver can not determine what kind of LNB is connected to the switch. Additionally, the DP34 switch puts out 19V (to drive DishPro LNBs) to the 500TWIN; which respond by putting out even transponders on the lower band (950-1450 MHz). The receiver is looking for the even transponders in the upper band (1650-2150MHz) and therefore can not see any signal from the 500TWIN.

Case VI: Dish500 with DishPro Twin, Dish300 with DishPro Single, and DP34 switch

Switch: DP34-500 LNBS: Twin-2(1) NC (2) Twin-1(3)			
Dish Input:	1	2	3
Satellite	Conn	X	Conn
Transponder	X	X	X
Device	Twin	N.C.	Twin

- Receiver is correctly connected to DishPro 34 switch. DishPro Twin port 1 is connected to switch port 3. DishPro Twin port 2 is connected to switch port 1. DishPro single is NOT connected to switch port 2. No satellite signal available on the DishPro Twin (dish antenna may not be pointed, line-of-sight to satellite may be obstructed, etc).

Case VII: Dish300 with DishPro Single

	LNBS: Single	
Dish Input:	1	
Satellite	Conn	
Transponder	X	
Device	Sgl	

Receiver is correctly connected to DishPro Single. No satellite signal available (dish antenna may not be pointed, line-of-sight to satellite may be obstructed, etc).

Case VIII: Dish500 with DishPro Twin, SW64 switch

	LNBS:	Feed
Dish Input:	1	
Satellite	119	
Transponder	All	
Device	Feed	

SW64 is NOT a DishPro switch and therefore you cannot use with DishPro switches/LNBs. In this case, the SW64 will marginally pass the band-stacked transponders as it was only designed to support up to 1450 MHz but will not pass the DiSEqC 22KHz commands. Therefore, after detecting bandstacked transponders from the DishPro Twin through the switch, receiver goes into the DishPro mode and reports signal from all transponders on 119. The DishPro Twin does not receive any DiSEqC commands and stays in the 119 port 1 default state. The SW64 also cannot respond to the DiSEqC commands, so the receiver is unable to determine what equipment is connected; thus, with valid signal but no equipment identification, the receiver reports the signal source as a "FEED".

Case IX: Dish500 with DishPro Twin, Dish300 with DishPro Single, and DP34 switch

	Switch: DP34-500 LNBS: Sngl (1) Twin-1 (2) Twin-1(3)		
Dish Input:	1	2	3
Satellite	61.5	Conn	119
Transponder	All	X	All
Device	Sgl	Twin	Twin

- There are 2 DP Twin port 1 connection to DP34 switch ports 2 and 3; therefore the system is connected to 2 different DishPro Twins. The DishPro Twin connected to DP34 switch port 3 has signal from 119. The DishPro Twin connected to DP34 switch port 2 has no signal. . The DishPro Single connected to DP34 switch port 1 has signal from 61.5. Need to connect the DP34 switch port 2 to port 2 of the DishPro Twin with the 119 signal present.

Case X: Dish500 with DishPro Twin, Dish300 with DishPro Single, and DP34 switch

Switch: DP34-500 LNBS: Twin-2(1) Sngl (2) Twin-1(3)			
Dish Input:	1	2	3
Satellite	110	61.5	119
Transponder	All	All	All
Device	Twin	Sgl	Twin

- Nothing is wrong. Receiver is correctly connected to DishPro 34 switch. DishPro Twin port 1 is connected to switch port 3 with signal from 119. DishPro Twin port 2 is connected to switch port 1 with signal from 110. DishPro single is connected to switch port 2 with signal from 61.5.