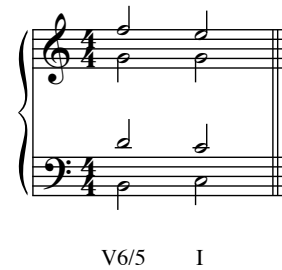


## Inversions of $V_7$

### $V_5^6$

Because the leading tone is in the bass,  $V_5^6$  always resolves to root-position I.



Though many soprano voices are possible, the most idiomatic possibility is to put the seventh in the soprano, so that the soprano moves from  $\hat{4}$  to  $\hat{3}$ . This is effective because the most active scale degrees are in the outer voices.

### $V_3^4$

$V_3^4$  is very similar to both  $\text{vii}_6^\circ$  and  $V_4^6$ ; in fact, if you combine the scale degrees from those chords, the result is  $V_3^4$ . Like  $\text{vii}_6^\circ$ ,



$V_3^4$  resolves to either I or  $I_6$ . It is most typically used to harmonize parallel tenths between the outer voices moving between I and  $I_6$ , and like  $\text{vii}_6^\circ$  the parallel tenths sanction a special exception to the rules:  $\hat{4}$  is the seventh of the chord, and as such must in all other circumstances resolve down by step; when  $V_3^4$  moves to  $I_6$ , however, the seventh may move up by step to  $\hat{5}$ . The scale degrees exactly parallel those used in  $\text{vii}_6^\circ$ , with  $\hat{2}$  to  $\hat{3}$  in the bass sanctioning the unusual move from  $\hat{4}$  to  $\hat{5}$  in the soprano.

### $V_2^4$

Because the seventh is in the bass,  $V_2^4$  must resolve to  $I_6$ . While a number of soprano



voices are possible (including a resolving leading tone, switching the typical outer voices in  $V_5^6$ ), the most idiomatic option is to leap up a fourth in the soprano, either from  $\hat{2}$  to  $\hat{5}$  or from  $\hat{5}$  to  $\hat{1}$ . This creates nice counterpoint (contrary motion, leap against step), and it is a good opportunity to expand a melody's register.

## Doubling and Voice Leading

Inversions of  $V_7$  are always complete, so there are no doublings. The leading tone always resolves in an outer voice, and the seventh always resolve in any voice, with the exception of moving up by step in parallel tenths with the bass out of  $V_3^4$ .

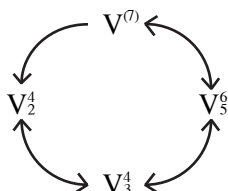
### Using Inversions of $V_7$

Despite the similarity of  $V_3^4$  to  $vii^\circ_6$  and  $V_4^6$ ,  $V_3^4$  cannot be used to fill in a voice exchange using passing tones in the outer voices, for the simple reason that this would result in a doubled fifth, leaving the chord quite audibly incomplete (or else turning it into a  $vii^\circ_6$ ). Inversions of  $V_7$  can be used to expand voice exchanges, they just involve one passing tone and one incomplete neighbor in the outer voices. For example, if the bass ascends from I to  $I_6$  and the passing tone is in the soprano, which inversion of  $V_7$  would be most effective?  $V_2^4$  works well here, because it leads naturally to  $I_6$ . All of the permutations of ascending v. descending bass and PT in soprano or bass can be set except one; when the soprano moves from  $\hat{2}$  to  $\hat{3}$ , setting this as part of a voice exchange using an inversion of  $V_7$  is not possible. (Why not?)



Inversions of  $V_7$  often act like incomplete neighbors in the bass; while they must resolve to I or  $I_6$ , they may be approached from any chord that leads to V.

Just like V and  $V_6$ , multiple inversions of  $V_7$  can be used to expand dominant harmony. When doing this, use the following circle as a guide.



The most basic guideline is not to move across the circle, but only by a single step along the circle. A move across the circle would juxtapose root position  $V_7$  with  $V_3^4$ , a voice-leading chord, or else create conflicting drives to resolution in the bass

with  $V_5^6$  and  $V_2^4$ . Note that the arrow between  $V_{(7)}$  and  $V_2^4$  points toward  $V_2^4$ ; while  $V_2^4$  can follow V or  $V_7$  effectively, it doesn't work to move the bass from the seventh to the root; we still want to hear  $I_6$  to resolve  $V_2^4$ , but the stable root-position V wants to move to root-position I (and will create a doubled third if it instead moves to  $I_6$ ).

A final note: following root-position dominant harmony,  $V_5^6$  and  $V_2^4$  are often most effective when they introduce the seventh – i.e. when they come from V, not  $V_7$ .