

## CONSISTING WITH THE ATLAS COMMANDER

Consisting, by definition, is a group of digital locomotives that have been electronically linked together, and operate as a single unit.

To setup a Consist with the Atlas Commander, the Commander must first determine if your decoder supports Direct Mode programming. Atlas' new Dual-Mode Decoder (DMD) supports both Direct Mode and Register Mode Programming. The following procedure must be done for every decoder, even if you know the decoder supports Direct Mode programming, every time you wish to setup or separate a Consist.

1. Place the locomotive on the programming track.
2. Enter into the Menu system by pressing the Forward and Reverse buttons (up and down arrows) simultaneously. Use the + or - buttons to select to "Pro," and press Enter to enter Programming mode. The display will show "r .1," which stands for Register 1.
3. Press Enter and the display will show "u .-".
4. Press Enter again to read the current value of Register 1; the display will blink and then show your locomotive's address (which is the value of R1).
5. Press Exit to return to "r .1".
6. Press the + button until the display reads "r.8". If your decoder supports Direct Mode programming, the next time you press the + button the display will read "c09". This is Configuration Variable 9 (CV9). If your decoder does not support Direct Mode Programming, you will see "r.1" again.

If your decoder does support Direct Mode Programming, you may continue to add this locomotive to the Consist. Engines in a Consist will respond to commands given to the lead locomotive (which does not need to be programmed or modified). The address of the Consist is the address of the lead locomotive. The following steps will take you through programming CV19, the Consist address, of engines you want to add to the Consist.

7. Press the + button to scroll to "c19".
8. Press Enter. The display will read "u .-".
9. Use the + or - button to scroll to the select the address of the lead locomotive, and press Enter to set.
10. Press Exit to return to locomotive control. Controlling the lead locomotive will control the entire Consist.

Repeat steps 1-10 for additional engines to be added to the Consist.

Note: If you want any locomotive in the Consist to run in reverse, you must add 128 to the address you enter into CV19. For example, if your lead locomotive is address 77 and you want a locomotive to run in reverse, while part of the Consist, enter 205 into CV19.

Locomotives operating as part of a Consist will not respond to speed or direction changes sent to their base address. However their Functions may be controlled from their base address.

To remove a locomotive from a Consist, follow the above procedure and set CV19 back to 0.