

## AEI Module

1. Remove locomotives from AEI data  
-These have Car Numbers with four digits or less ( $0 \leq x \leq 9999$ )
2. Reset the first axle of the first railcar in the consist to timestamp-value 0.000  
-Subtract the initial timestamp from the rest of the timestamps in the file
3. Multiply all timestamp values by 2.12
4. Match RRRRs to the appropriate railcar ID and number and ordinal

For example,

7	DTTX 620151	10.176
7	DTTX 620151	10.303
7	DTTX 620151	11.592
7	DTTX 620151	11.721
8	RRRR 8	11.904
8	RRRR 8	12.027
8	RRRR 8	13.316
8	RRRR 8	13.443
9	DTTX 620151	13.623
9	DTTX 620151	13.752
9	DTTX 620151	15.035
9	DTTX 620151	15.166
10	DTTX 726664	15.351
10	DTTX 726664	15.479
10	DTTX 726664	16.764
10	DTTX 726664	16.898
10	DTTX 726664	18.188
10	DTTX 726664	18.322
10	DTTX 726664	19.604
10	DTTX 726664	19.729

Notice that RRRR should be 8 DTTX 620151 and the "9 DTTX 620151" lines should be changed to "7 DTTX 620151"

5. Update the ordinal numbers after eliminating the RRRRs.

Using the previous example, the "10 DTTX 726663" axles need its ordinal number changed so that it reads "8 DTTX 726664"