Keeping Track of Terms in Klauber (7-110) to (7-111)

Use the numbering shown above terms below to keep track of those terms in going from (7-110) to (7-111)

$$A_1 B_2 C_3 = N_c \{A_1 B_2 C_3\} = \overset{\boxed{1}}{A_1^d B_2^d C_3^d} \pm \overset{\boxed{2}}{B_2^c A_1^d C_3^d} + \overset{\boxed{3}}{A_1^c B_2^d C_3^d} + \overset{\boxed{4}}{A_1^c B_2^c C_3^d} + \overset{\boxed{5}}{\left[A_1^d, B_2^c\right]_{\mp}} C_3$$

$$\pm \underbrace{A_1^d C_3^c}_{\boxed{6}\ \pm C_3^c A_1^d} B_2^d + A_1^d \underset{\boxed{8}}{\left[B_2^d, C_3^c\right]_{\mp}} \pm \overset{\boxed{9}}{B_2^c C_3^c A_1^d} \pm B_2^c \overset{\boxed{10}}{\left[A_1^d, C_3^c\right]_{\mp}} \tag{7-110}$$

$$\underset{+\left[A_1^d, C_3^c\right]_{\mp}}{} \\ \boxed{7}$$

$$\pm \overset{\boxed{11}}{A_1^c C_3^c B_2^d} + A_1^c \overset{\boxed{12}}{\left[B_2^d, C_3^c\right]_{\mp}} + \overset{\boxed{13}}{A_1^c B_2^c C_3^c} .$$

Re-grouping once again, we have

$$A_1 B_2 C_3 = \overset{\boxed{1}}{A_1^d B_2^d C_3^d} \pm \overset{\boxed{2}}{B_2^c A_1^d C_3^d} + \overset{\boxed{3}}{A_1^c B_2^d C_3^d} + \overset{\boxed{4}}{A_1^c B_2^c C_3^d}$$

$$\pm \overset{\boxed{6}}{C_3^c A_1^d B_2^d} \pm \overset{\boxed{9}}{B_2^c C_3^c A_1^d} \pm \overset{\boxed{11}}{A_1^c C_3^c B_2^d} + \overset{\boxed{13}}{A_1^c B_2^c C_3^c} \tag{7-111}$$

$$+ \underbrace{\overset{\boxed{5}}{\left[A_1^d, B_2^c\right]_{\mp}} C_3}_{A_1 B_2 \text{ for } t_2 < t_1 \atop |\_\_/} + A_1 \underbrace{\overset{\boxed{8}+\boxed{12}}{\left[B_2^d, C_3^c\right]_{\mp}}}_{B_2 C_3 \text{ for } t_3 < t_2 \atop |\_\_/} \pm B_2^c \underbrace{\overset{\boxed{10}}{\left[A_1^d, C_3^c\right]_{\mp}}}_{A_1 C_3 \text{ for } t_3 < t_1 \atop |\_\_/} \pm \underbrace{\overset{\boxed{7}}{\left[A_1^d, C_3^c\right]_{\mp}} B_2^d}_{A_1 C_3 \text{ for } t_3 < t_1 \atop |\_\_/} .$$