

JUNCTION BOX TERMINAL	FLASHER BOX TERMINAL	COLOR	FUNCTION
31	RELAY 85	ORANGE/BLACK(TO RED)	FLASHER TRIGGER
SPLICE	FLASHER #5	(RED)	FLASHER TRIGGER
30	RELAY 30	BROWN(TO BLUE)	MARKER OUTPUT
29	RELAY 87a	BROWN/YELLOW(TO YELLOW)	MARKER INPUT
GROUND STUD	RELAY 86	WHITE(TO BLACK)	GROUND
SPLICE	FLASHER #3	(GREEN)	GROUND
-	FLASHER #4	(BLACK)	PATTERN
FUSE #2	FLASHER #1	RED	POWER
(FLASHER) RELAY 87	FLASHER #2	(GREEN TO YELLOW)	FLASHING OUTPUT SIGNAL

NOTES:

- COLORS ABOVE WITHOUT PARENTHESIS FOLLOW THE MILLER WIRING COLOR SCHEME
- COLORS ABOVE WITH PARENTHESIS ARE INTERNAL TO THE FLASHER BOX AND DO NOT FOLLOW THE MILLER COLOR SCHEME
- THIS DIAGRAM IS MADE FOR DIAGNOSTIC PURPOSES, THEREFORE SCALE AND ROUTING DETAIL ARE INCORRECT, AND CONNECTION PLUG IS NOT SHOWN

THEORY OF OPERATION:

- THE MARKER OUTPUT IS ALWAYS SUPPLIED TO TERMINAL #30 IN THE JUNCTION BOX.
- THE CHASSIS MARKER SIGNAL IS GENERATED FROM EITHER THE TRUCK CHASSIS BODY BUILDER BOX OR MVEC DEPENDING ON OPTIONS AND IS SUPPLIED TO TERMINAL #29 IN THE JUNCTION BOX.
- UNDER NORMAL OPERATION WHEN THE MARKERS ARE TURNED ON, POWER FLOWS FROM TERMINAL #29 IN THE JUNCTION BOX TO NORMALLY CLOSED TERMINAL #87a ON A STANDARD SPST 5-PIN RELAY TO #30 ON THE RELAY AND SUBSEQUENTLY TO TERMINAL #30 IN THE JUNCTION BOX AND FINALLY OUT TO ALL OF THE BODY MARKER LAMPS.
- WHEN THE "MARKER/FLASHER" FEATURE IS ACTIVATED, IT SENDS A SIGNAL TO TERMINAL #31 IN THE JUNCTION BOX. THIS SIGNAL GOES INTO THE FLASHER BOX AND DOES 2 THINGS:
  - 1) IT LATCHES THE RELAY CLOSING THE NORMALLY OPEN POSITION.
  - 2) IT TRIGGERS THE FLASHER UNIT TO BEGIN FLASHING.
- WHEN THIS HAPPENS, A FLASHING SIGNAL FLOWS FROM THE FLASHER UNIT TO TERMINAL #87 THEN TO #30 ON THE RELAY AND SUBSEQUENTLY TO TERMINAL #30 IN THE JUNCTION BOX AND FINALLY OUT TO ALL OF THE BODY MARKER LAMPS MAKING THEM FLASH. AT THIS POINT THE CHASSIS MARKER SIGNAL IS IGNORED UNTIL THE FLASHER FEATURE IS DEACTIVATED.