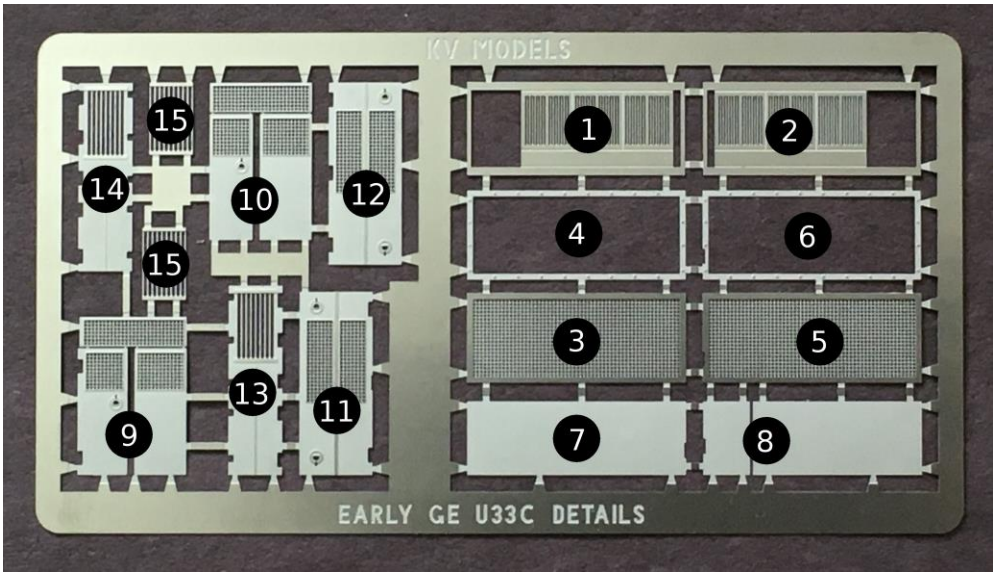
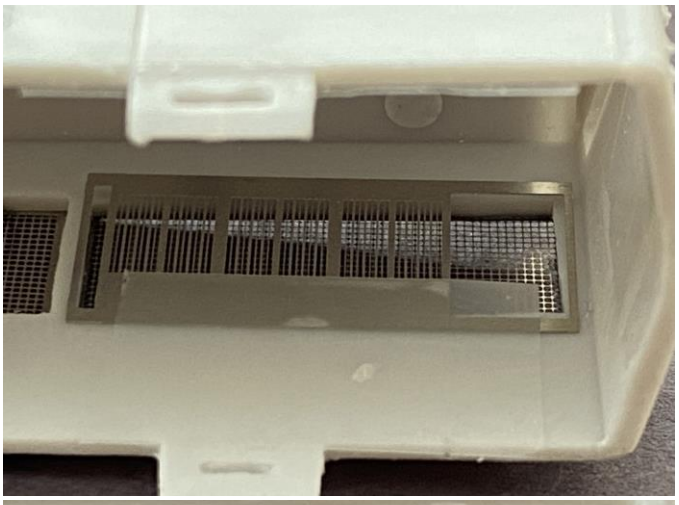
KV-504H U33C PH1 Detail Set Builders Guide

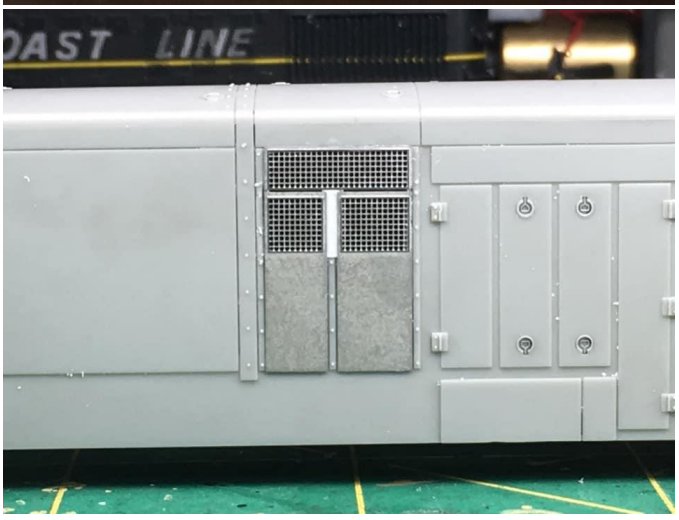


1. Engineer Side Dyn. Brake Grid
2. Fireman Side Dyn. Brake Grid
3. Engineer Side Intake Screen
4. Engnr. Side Intake Screen Trim
5. Fireman Side Intake Screen
6. Fireman Side Intake Screen Trim
7. Engineer Side Metal Panel
8. Fireman Side Metal Panel
9. Engineer Side Door Overlay
10. Fireman Side Door Overlay
11. Fireman Side Door Overlay
12. Engineer Side Door Overlay
13. Fireman Side Door Overlay
14. Engineer Side Door Overlay
15. Outer Intake Screen



The molded plastic intake screens are removed with care leaving the trim around the screens for mounting the etched screens. The Engineer Side Dynamic Brake Grid (1) is installed on the inside of the shell with the grid offset toward the front of the engine. The grid is shown taped in place in the photo as it will be removed when the shell is painted in order to retain its unpainted appearance. The Fireman Side Dynamic Brake Grid (2) is installed in the same manner. Be careful to note the proper orientation of the grids to the shell. The Engineer Side Intake Screen (3) and the Fireman Side Intake Screen (6) are roughly the same except for the small indentation on the Fireman Side Intake Screen (5) on its left side for hinge clearance. The Engineer Side Intake Screen Trim (4) and the Fireman Side Intake Screen Trim (6) are attached to the outer ring of the Intake Screens with CA. Again, the Fireman Side Intake Screen Trim (6) has an indentation on the left side for hinge clearance. This should line up with the indentation on the Fireman Side Intake Screen (5). The bottom photo shows the indentation and its proper location in relation to the molded hinge on the shell.

Attach Engineer Side Metal Panel (7) to the plastic panel below the intake screen. There is a recessed rectangle on the right side of the panel that fits around the molded hinge on the shell. The Fireman Side Metal Panel (8) is a two piece panel that attaches below the radiator intake screen in the same manner as Engineer side panel. This panel consists of two parts with the smaller having the recess for the hinge. CA is recommended for attaching the panels. These panels attach directly to the shell. No plastic has to be removed from the shell for attachment.



The Engineer Side Door Overlay (9) has rectangular cutouts for the molded hinges. The Fireman Side Door Overlay (10) does not. Again, CA is used to attach the overlays to the shell. When cutting out the molded screens you may find that you removed too much material or just had an accident with the X-acto knife. Pieces of styrene (like in the bottom photo) can be used on the inside of the shell to repair the damaged area.

The Fireman Side Door Overlay (11) is located to the left of the large intake screen and it attached in the same manner as the previous step. The Engineer Side Door Overlay (12) will be located to the right of the large intake screen. The cutouts in the doors will be useful in locating the panels properly.

The Fireman Side Door Overlay (13) and the Engineer Side Door Overlay (14) are only used on locomotives that had the high intake on the door panels. If your prototype had the low intake that the shell has then skip this step. To add the door overlay panels you will have to remove the lower intake and cut a hole in the shell above the lower intake. The overlay panels will cover up the removed lower intake. When the panels are installed I recommend using a piece of styrene .020”x.020” at the top and bottom of the intake as a mounting strip for Outer Intake Screen (15). There are two raised metal mounting pads at the top and bottom of the intakes for mounting the styrene. The screen, when installed properly, has an alternating pattern of vertical bars which cover the gaps created by the bars on the door overlay panel.