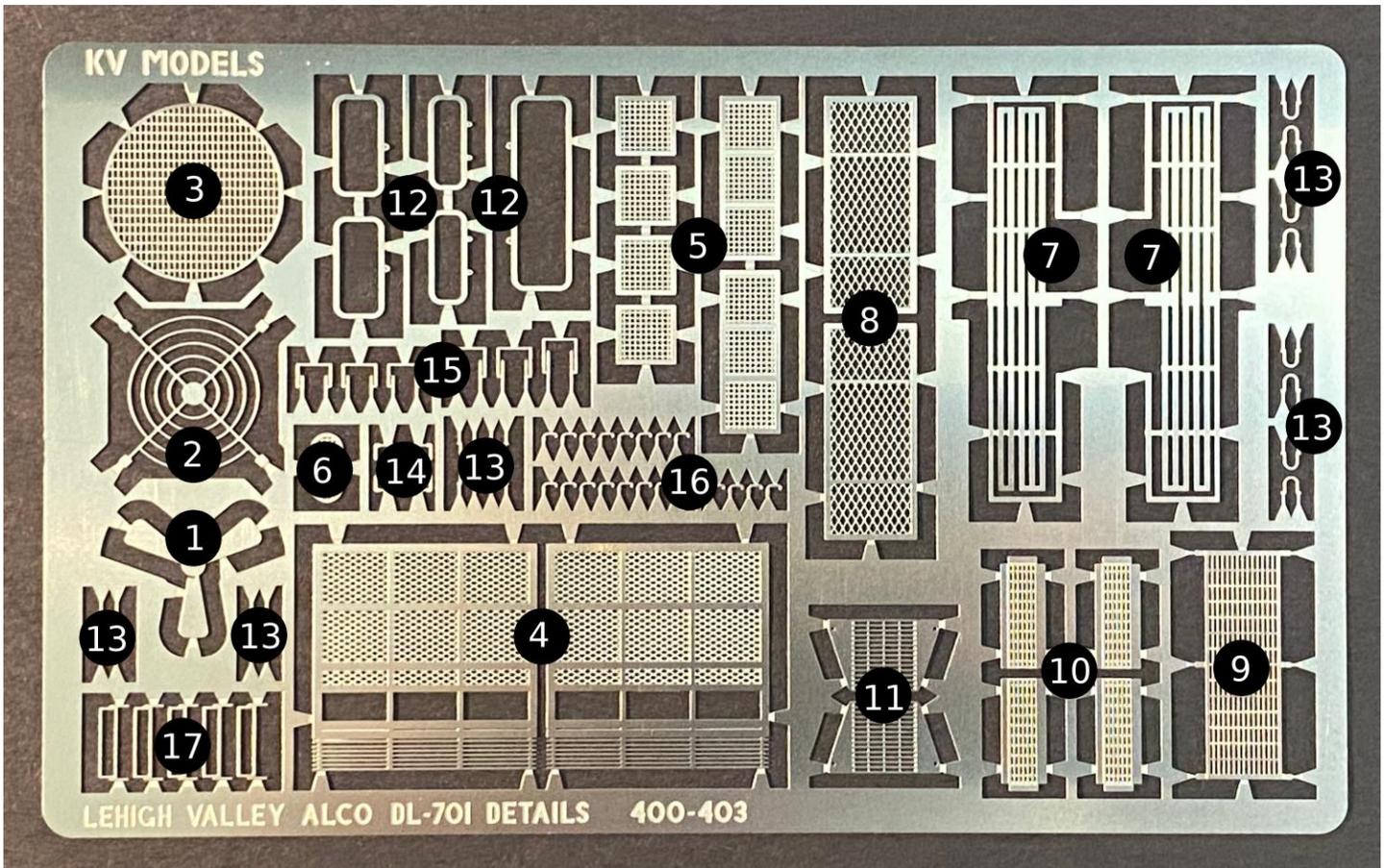


KV-318H Lehigh Valley DL-701 Building Sheet



1. Radiator Fan
2. Radiator Fan Support
3. Radiator Fan Screen
4. Radiator Intake Screens
5. Intake Screens
6. Exhaust Stack Screen
7. Intercooler Piping
8. Intercooler Housing Screen
9. Short Hood Walkway

10. Footboards
11. Drop Steps
12. Metal Windshield Frames
13. Lift Rings
14. Cab Door Handles
15. Windshield Wipers
16. Long Hood Access Door Handles
17. Cab Wind Deflectors



The radiator fan (1) is attached to the radiator fan support (2) by a small piece of styrene round bar. I use CA to attach the parts. Bend the radiator fan blades downward to add some pitch to the fan blades.



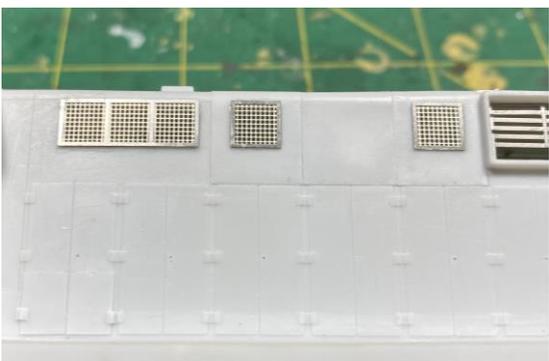
After attaching the radiator fan to the radiator fan support with CA, attach the radiator fan support to the underside of the shell so the fan sit on top of the radiator fan support.



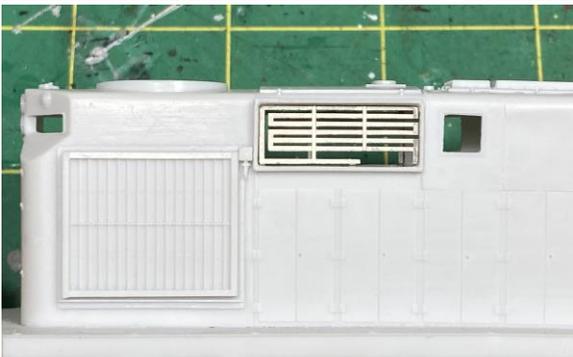
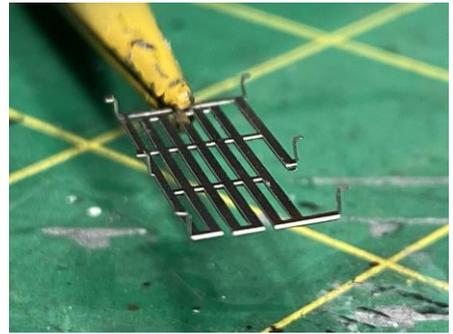
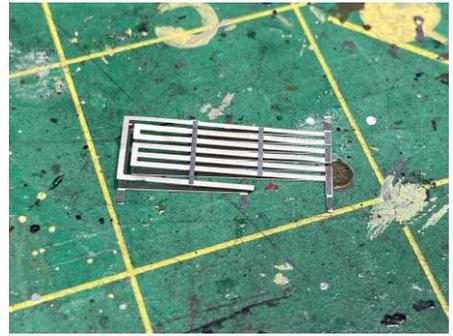
Once the radiator fan/support assembly is installed and the CA is dry the radiator fan screen can be installed on top of the opening on the roof of the engine. I do recommend waiting until the engine is painted to install the screen. This gives you a chance to paint and detail the fan blades after the shell is painted. The pre-painted screen can then be installed on the painted shell. Or, you can leave the assembly off until after the shell is painted so the assembly stays unpainted and in the stainless finish.



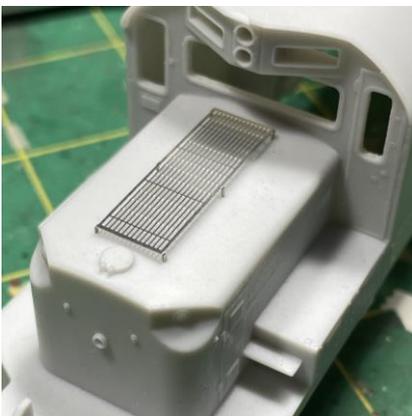
The side radiator intake screens (4) have a bottom section that folds upward. The horizontal section of the screen folds upward and over the open section of screen. I fold this prior to installing the screen on the model. The photos are for diagramming the process only. Also, it is recommended to paint the model prior to installing the screens so that you have good coverage of paint on the radiator shutters beneath the screens.



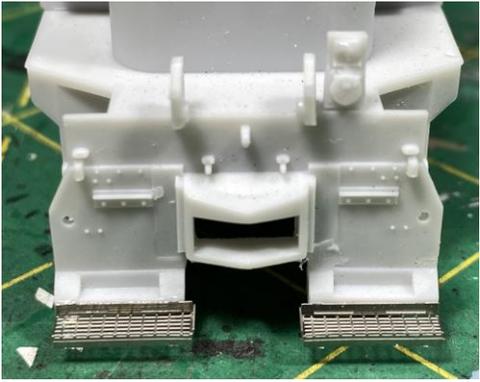
The side intake screens (5) and the exhaust stack screen (6) can be attached prior to painting the model. They are attached with CA to the model.



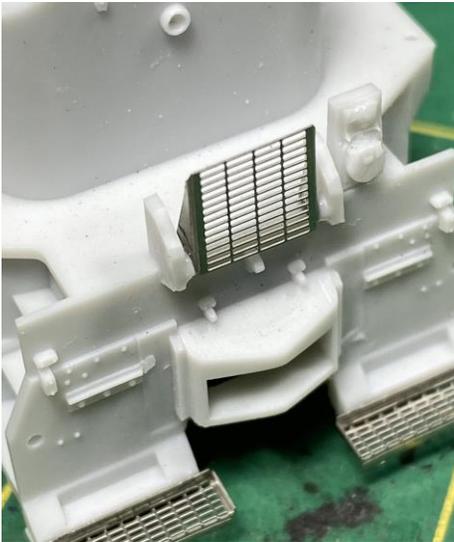
The intercooler piping (7) requires a fold down the middle to “double” the thickness of the part and add rigidity. Grab the part on the half etched side next to the fold line and bend it back onto itself. Secure the parts with CA. Fold the mounting bars backward and fold the mounting tabs horizontal to the piping. Attach to the inside of the shell using CA. Note the orientation because once the parts are installed it is difficult to “un-install” them. If you plan on leaving the aftercooler piping in bare stainless steel finish add the piping after the model is painted. If you want them to be painted the body color just add them prior to painting the model. Add the intercooler housing screen (8) after installing the intercooler piping. If you are adding these details to an atlas RS32/36 shell the intercooler housing needs to be modified to be a little taller. Styrene can be used to make this modification. Use the screen as a template for adding material.



Add the short hood walkway (9) to the top of the nose using the 6 mounting tabs with pins. The tabs are folded downward and inserted into holes drilled into the top of the nose. This is best done after painting the model so you don't have to shoot paint through the walkway to get the desired coverage on the nose. The walkway will pick up a heavy amount of paint and look very thick and heavy.



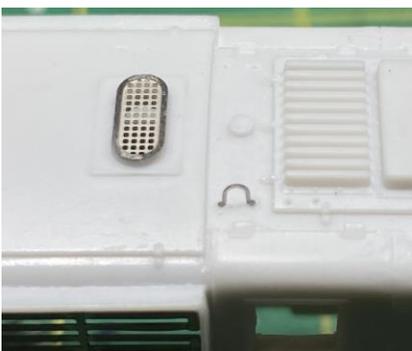
The footboards (10) are attached to the bottom of each pilot. The back lip is folded upward, side lip folded upward and front lip folded downward. Note that the side lips that are folded upward are always on the inside of the footboard nearest the coupler. I use CA to attach the back lip to the pilot.



The drop step (11) has sides that are folded upward. The drop step can be attached with CA for static mounting or with a wire hinge for movable mounting. Holes will have to be drilled through the mounting posts and a wire inserted through the holes in the mounting posts and the sides of the drop step. This will allow the drop step to raise and lower.



The metal windshield frames (12) are installed around each window. If the trim is to be left unpainted install it after painting the model. As delivered, these engines had unpainted window trim.



The lift rings (13) are installed on the roof. Drill two #80 holes and insert the pins at the base of the lift ring. I used CA to attach the lift rings pins to the holes. Windshield wiper (15) installation is the same type of process. Drill the mounting hole with a #80 drill bit in a pin vise and attach the base of the wiper in the hole. The smaller wipers are for the cab doors which have 2 per door. The larger wipers are mounted everywhere else.



The long hood access door handles (16) are installed in the same manner as the windshield wipers and lift rings. Drill a hole for the mounting pin and install the handle. The mounting pin it at the top of the handle (top of the C shape). The cab door handles (14) are also installed in this manner. Rather than being installed vertically like the long hood door handles, these will be installed horizontally. The cab wind deflectors (17) are installed on both sides of the cab windows. Drill holes for the mounting pins and insert them into the holes. I bend the deflectors against the cab wall since that is the way they seemed to be positioned most of the time. The Engineers side front deflector would be left in the outward position.