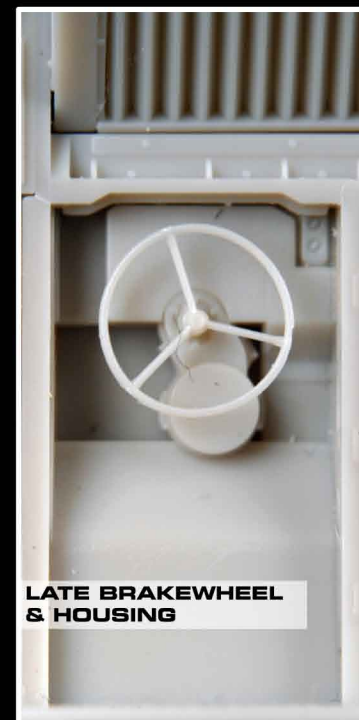
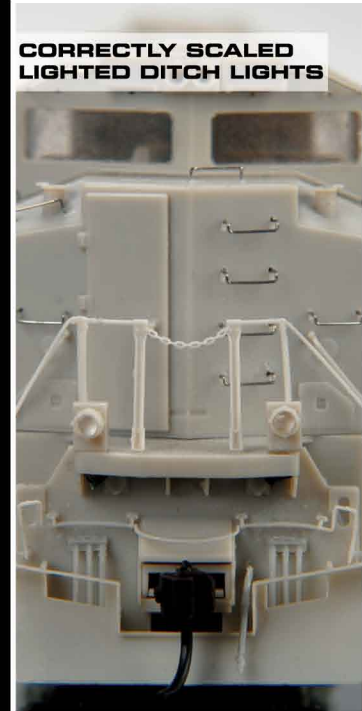
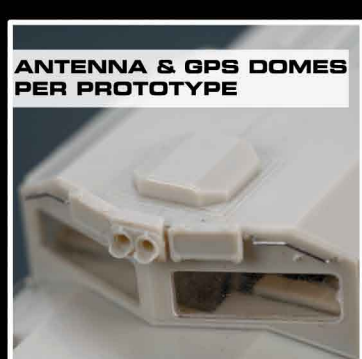
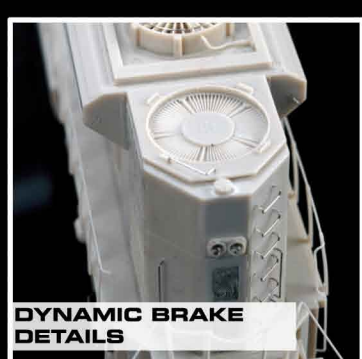
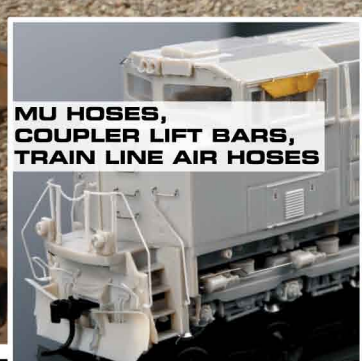
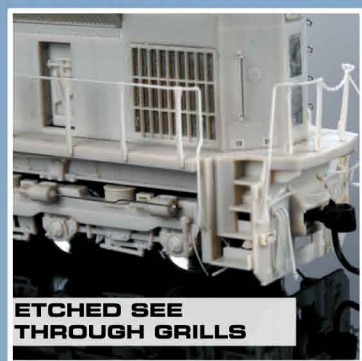
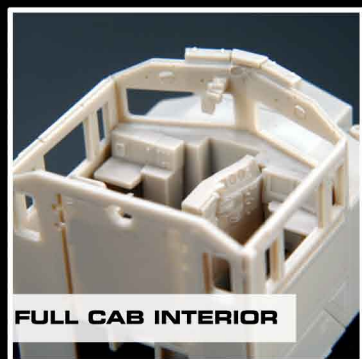
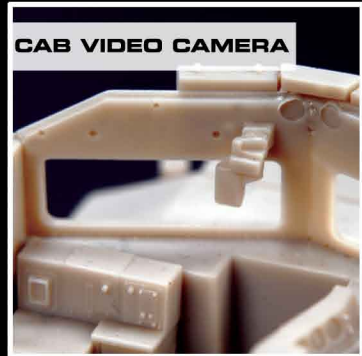




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SD70ACe

In order to meet the stricter diesel locomotive emissions standards imposed by the EPA Tier II regulations, EMD modified the SD70MAC and created the SD70ACe. The SD70ACe is powered by a 16 cylinder, 710G3C-T2 diesel engine, producing 4,300 horsepower. The engine drives an alternator producing AC current that is rectified to DC current and then "chopped" back into AC to power the traction motors. The engine and electrical system are similar to the SD70MAC, but updated with newer technology. Much of the external design is based on the SD90 series locomotives. Some of these features include the full height nose door and rectangular windshields, the large flared radiators with two fans, and the positioning of the dynamic brake equipment at the rear of the long hood. In addition, the inverters were moved from inside the long hood to a box on the walkway behind the cab. Four demonstrator locomotives were built in 2003, followed by 20 pre-production units for CSX in 2004. Full production started in 2005 and through 2009, 820 SD70ACe's have been built for the US and Mexico. Nine more were exported to Venezuela and 46 built for BHP Billiton's iron ore operation in Pilbara, Australia. In addition 10 units from BNSF's 2008 order were diverted to BHP. Union Pacific painted six units in paint schemes commemorating the six railroads that were merged into UP in the 1980's and 1990's and renumbered them for the year of the mergers.

Road	Numbers	Qty	Order Number	Build Dates
EMD	GM70 - GM73	4	20026404	4/03 - 5/03
CSXT	4831 - 4850	20	20036520	4/04 - 9/04
UP	8309 - 8423	115	20046610	1/05 - 7/05
KCS	4000 - 4029	30	20046620	11/05 - 1/06
MRL	4300 - 4315	16	20046621	5/05 - 7/05
FXE	4000 - 4014	15	20048602	5/06 - 6/06
UP	8424 - 8523	100	20056723	5/06 - 8/06
BNSF	9370 - 9399	30	20056729	2/06 - 4/06
UP	8521 - 8620	100	20056753	2/07 - 7/07
BNSF	9330 - 9369	40	20056766	8/06 - 10/06
KCS	4030 - 4059	30	20066856	8/07 - 9/07
KCSM	4060 - 4099	40	20066886	
BNSF	9130 - 9329	200	20066862	11/07 - 9/08
KCS	4100 - 4129	30	20066887	1/08 - 4/08
UP	8621 - 8670	50	20066888	5/08 - 8/08

*GM70, GM72, and GM73 were sold to KCS as 3997 - 3999.