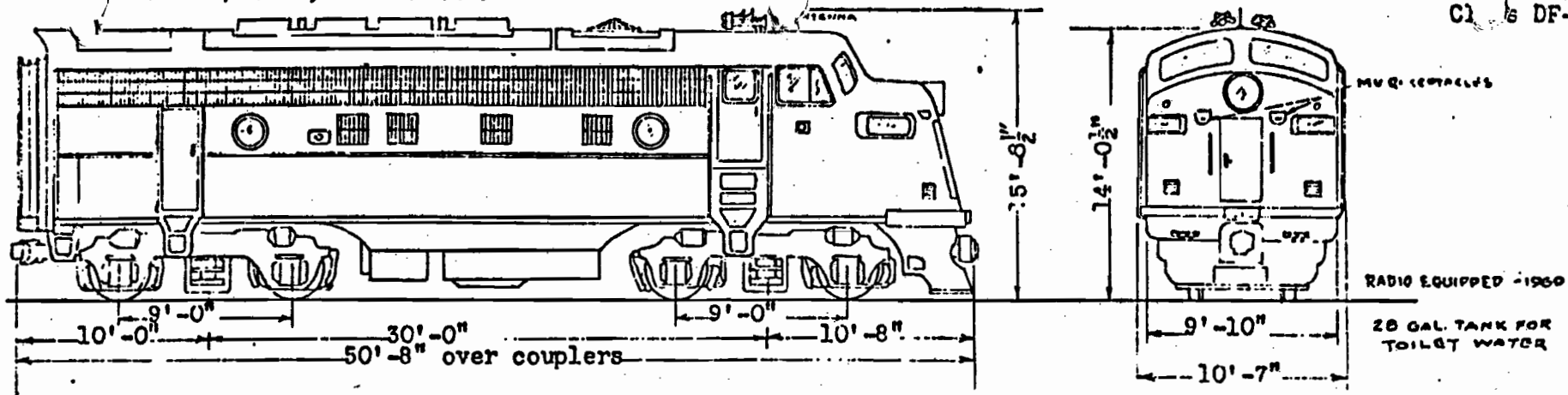


BUILT JUNE 1947 ELECTRO-MOTIVE DIVISION, GENERAL MOTORS
 SERIAL NOS. 145, 3146
 CONVERTED TO F7 NO. 81, MAY 1954, NO. 52, APRIL 1954

Diesel-Electric Road Locomotive No. 51, 52
 Class DF-12



WATER TEMP. COOLING FAN MOTORS - 3 PH, 16.5V, 12 HP, 1550 RPM AC
 M.U. CONNECTIONS - FRONT AND BACK OF LOCOMOTIVES

GENERAL DATA No. 51 DC ENGINE 7-25-57 V-144 COBRA BRAKE SHOE J-16 RED. VALVE

1. Weight - Working Order	248,000 lbs.	CAPACITY	
2. Horsepower	1500	28. Fuel Oil - 1200 gals.	Lubricating Oil 200 gals.
3. Ratio of Gears	62-15	29. Cooling Water - 230 gals.	Sand 16 cu.ft.
4. Maximum Speed (Over-Speed setting)	65 M.P.H.	MISCELLANEOUS	
ENGINE		30. Sanders - Prime "One Line" Duplex, 8 Trans Elect. Pneu.	
5. Type	Two Cycle Vee Type No. 567B General Motors	31. Horns -	Leslie Model S-5T Chime Horn Pneumatic
6. Cylinders - Bore and Stroke	16 - 8 1/4" x 10"	32. Bell Ringer	Transportation Devices Corp.
7. Speed - Idling 275 R.P.M. At Rated H.P. - 800 R.P.M.		33. Window Wiper	"Air Push" Jumbo
8. Governor	Woodward FG Electro-Hydraulic	34. Speed Recorder	Chicago Pneumatic C-60 M.P.H.
ELECTRICAL		35. Fire Extinguisher: 2 1/4" Ansul Cab, 2-30# Ansul Eng. Room	
9. 1 - EMD Main Generator-Model D12, 600V, 2200 Amp. Cont. DC		36. Draft Gear	National Malleable Type M-380
10. 1 - EMD Aux. Generator-Model A-7159, 10KW, 74V, 125 Ams.		37. Couplers - Front AAR Type E, Back A.A.R. Tightlock "H"	
11. 1 - EMD Alternator-Model D14, 100 KW, 165 volts, 3 ph. AC		BRAKE EQUIPMENT (Full Maintaining and Emergency Brake Valve)	
12. 4 - EMD Traction Motors-Model D27B, 825 Ams. Cont. DC		38. Dynamic Brake - 700 Amps, Max. Model A-8103, 48" dia. EMD	
13. 4 - EMD Traction Motor Blowers 3P, 149 V, 5HP, 3100 RPM, AC		39. Dynamic Braking Power	32,500 lbs. at 21 M.P.H.
14. 1 - EMD Dyn. Brake Blower, A-6103-48" 125 V, 18 H.P., 1300 RPM, DC		40. Air Brake Schedule	Westinghouse 24-Ri.
15. Multiple Unit Connections R. & L. Front End, Back End		41. Air Brake Power	87,000 lbs. @ 30 lbs. Cyl. Pressure
16. M.U. Control Cable - 27 wires, 27:27 Length Back 48'		42. Air Compressor	Gardner-Denver WFO
17. 1 - Fuel Pump Motor 1/4 HP, 74 Volts, 1100 RPM DC		43. Air Compressor Capacity	225 C.F.M. @ 800 R.P.M.
18. Batteries	32 Cells, 64 Volts MVANT-25 Exide	44. Air Reservoir Capacity	50,000 cu.in.
19. Lighting Circuit	74 Volts	45. Hand Brake	Peacock No. 1030-H.
20. Headlight	GE Sealed Beam 200 Watts, 30 Volts	TRUCKS	
TRACTIVE POWER		46. Type	E.M.D. Type Cast Steel
21. Starting at 25% adhesion	62,000 lbs.	47. Axles-Heat Trt. 6 1/2"x12" Journals for Hyatt Roller Brgs.	
22. 15 M.P.H.	30,000 lbs.	48. Wheels	40" dia. Rolled Steel
23. 25 M.P.H.	19,000 lbs.	49. Brake Cylinders - 8 - 9"x8", Side Bearings Plain Steel	
24. 35 M.P.H.	14,000 lbs.	LIMITING DIMENSIONS	
25. 45 M.P.H.	11,000 lbs.	50. Maximum Length Coupled	50'-8"
26. 55 M.P.H.	9,000 lbs.	51. Maximum Width - 10'-7"	Maximum Height 15'-0"
27. (Cont. 445,000 LBS @ 12 M.P.H.)	52,400 lbs. @ 9.0 M.P.H.	52. Maximum radius of curvature	21 degrees