

Electro Motive Division, General Motors  
 Built December 1952, Builder's Nos. 17539-17554

19026, 19028 - Dec. 1953  
 19027, 29, 30 - Jan. 1954

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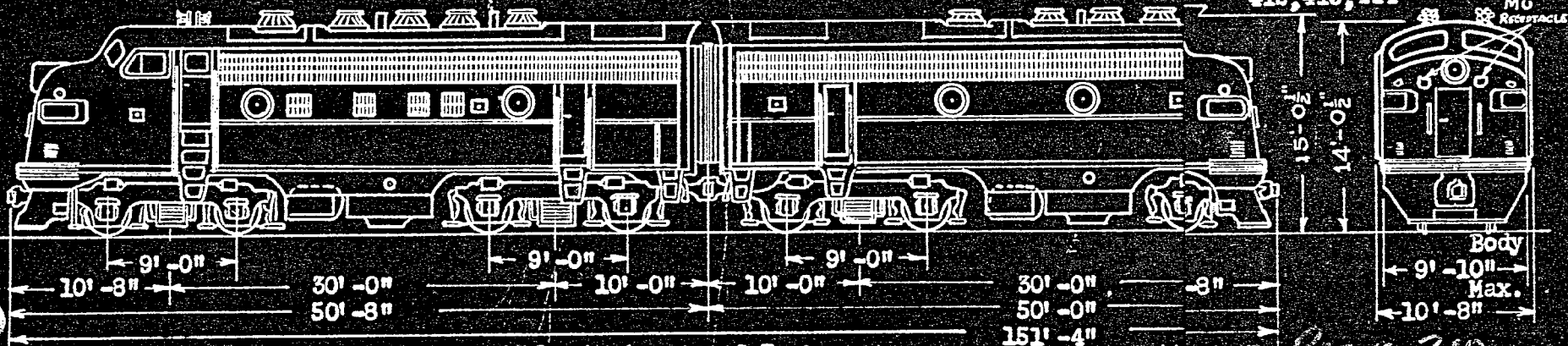
Class 22

Units 231-242

Units 406, 407, 408, 409, 410, 411,  
 412, 413, 414

Model F-7 Lead Unit

Model F-7 Booster



GENERAL DATA \* 410, 411, 412, 413, 414 - 567-C Engine

\*\* 414 *RATING 210*

1. Weight - Working Order - Per Unit	246,000 lbs.	TRACTIVE POWER - One Unit	
2. Horse Power - Per Unit	1500	29. Starting	61,500 lbs Maximum E.M.D.
3. Ratio of Gears	62-15	30. 10 M.P.H.	45,000 lbs. 12,500 lbs. @ 19 MPH 3 Units
4. Maximum Speed	55 M.P.H.	31. 15 M.P.H.	30,000 lbs. Westinghouse 24 RL
ENGINE *		32. 20 M.P.H.	25,000 lbs. @ 50 lbs. Cyl. Pressure
5. Type	Two Cycle Vee Type - No. 567B General Motors	33. 25 M.P.H.	19,000 lbs. Gardner-Denver WKO
6. Cylinders-Bore and Stroke-Per Unit	16 - 8 1/2" x 10"	34. 30 M.P.H.	16,000 lbs. 225 C.F.M. @ 800 R.P.M.
7. Speed - Idling 275 R.P.M. At Rated H.P. - 800 R.P.M.		35. 35 M.P.H.	14,000 lbs. 2000 cu.in. "B" 25,000 cu.in.
8. Blower (Scavenger) - Per Unit	2 E.M.D. Low Pressure	36. 40 M.P.H.	12,000 lbs. Westinghouse HA 24-E
9. Governor	Woodward PG Electro Hydraulic	37. Continuous Rating - Per Unit	Westinghouse D-24B
ELECTRICAL - Per Unit		CAPACITY - Per Unit	Westinghouse K2-A
10. 1 - EMD Main Generator-Model D12, 600V, 2200 Amp. Cont. DC		38. Fuel Oil	-Breakintwo Protection Wabco
11. 1 - EMD Aux. Generator-Model A-7159-74 Volts, 10 KW DC		39. Lubricating Oil	Peacock No. 1080-NS
12. 1 - EMD Alternator-Model D14, 100 KW, 149 Volts, 3 Phase		40. Cooling Water - "A" Units	
13. 4 - EMD Traction Motors Model D-27E, 825 Amps. Cont. DC		41. Sand	
14. 4 - EMD Traction Motor Blowers 3P, 149V, 5HP, AC, 5100 RPM		MISCELLANEOUS	type Cast Steel, Heat Treated
15. 1 - Dyn.brk Blower A-8103-48" 125 V DC, 18 HP, 1300 RPM		42. Sanders - Prime "One Line"	als for Hyatt Roller Brgs.
16. 1 - Fuel Pump Motor 1/4 HP, 74 Volts, DC, 1100 RPM		43. Whistles	40" Dia. Rolled Steel
17. 4 - Water Temp. Cool. Fan Motors 3P, 149V, 9 HP, 1550 RPM		44. Bell Ringer	8 - 9" x 8"
18. Control Equip.-Multiple Control 64V, Electro - Pneumatic		45. Window Wiper	Plain Steel - Hardened
19. Multiple Control Cable	Length 48", 27 Wires	46. End Ladders - Back of "A"	
20. Batteries **	32 Cells, 64 Volt, Exide MV25D	47. Air Filters - Engines 4 -	
21. Lighting Circuit	74 Volts	48. Speed Recorder	Unit 151'-4"
22. Headlights-F"A"Units Pyle-Nat. Twin-Sealed Beam 200W, 30V		49. Fire Extinguishers	101'-4"
23. Back of "A"Units, F&B "B"Units, Pyle-Nat. Sing. Beam 200W, 30V		"A" Unit - 1 Qt. CTC in C	unit 100'-3"
24. Headlight Switch	E.M.D.	"B" Unit - 2-50# Ansul in	10'-8"
25. Front 3-point Dimming	400W, 200W, 100-Watts	50. Uncoupling Rigging	15'-0 1/2"
26. Backup Light Switch	E.M.D.	51. Draft Gear	21 Degrees
27. Wheel Slip Relay, Ground Relay	E.M.D.	52. Couplers - Front of "A" U	k "B" Units; Back of "A" Units
28. Electric Fixtures	Fyle-National	Back of "A"Units, Both End	