

GENERAL DATA

Model Designation SW1500
Locomotive Type 0440
Locomotive Horsepower 1500

Diesel Engine

Model 645E
Number Of Cylinders 12
Cylinder Arrangement 45° "V"
Cylinder Bore And Stroke 9-1/16" x 10"
Operating Principle Blower Scavenged

2-Stroke Cycle
Unit Fuel Injection
Water Cooled

Engine Speed

Full 900 RPM
Idle 344 RPM
Idle - Switching 2 Mode 584 RPM

Main Generator D32
Nominal Voltage DC 600

Auxiliary Generator
Basic Rating 10 KW
Voltage DC 74

Traction Motors

Model D77
Type DC, Series Wound,
Axle Hung

Driving Wheels 4 Pairs
Diameter 40"

Air Compressor

Type Two Stage
Number Of Cylinders 3
Displacement at 900 RPM 254 Cu. Ft./Min.
Lube Oil Capacity 10-1/2 Gal.

Storage Battery

Number of Cells 32
Voltage 64
Rating - 8 Hour 284 Ampere Hour

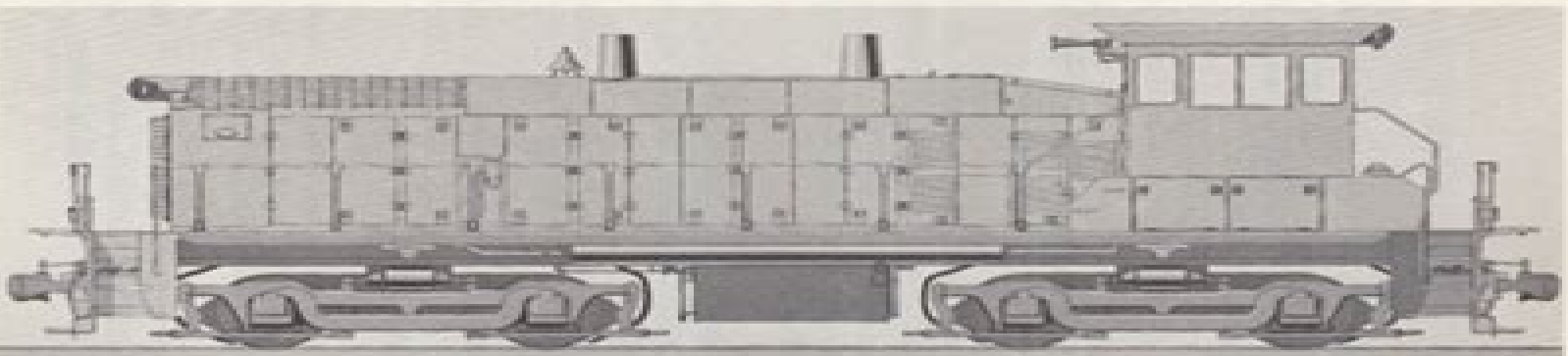


Fig. 0-1 - SW1500 Switcher Locomotive

Emd Sw1500 Locomotive Maintenance Manual

Michael Rajnik



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