



ELECTRO-MOTIVE

R E P O W E R L O C O M O T I V E

710ECO

710ECO™ Repower Technical Details

Engine Model	8-710G3A-T2	12-710G3A-T2
Engine Type	Two-Cycle – 45° Vee	Two-cycle – 45° Vee
Brake Power	2150 hp	3150 hp
Number of Cylinders	8	12
Displacement per Cylinder	3.07 gallons	3.07 gallons
Compression Ratio	18:1	18:1
Bore & Stroke	9.06 x 11 inches	9.06 x 11 inches
Fuel Injectors	Electronic Unit Injection	Electronic Unit Injection
Charge Air	Single Turbocharger	Single Turbocharger
Low Idle Speed	200 rpm	200 rpm
Full Speed	904 rpm	904 rpm
Emissions Certification	US EPA Tier 2	US EPA Tier 2 / EU Stage III A
Alternator	AR10	AR10
Companion Alternator	CA6	CA6

710ECO™ Repower Benefits

- Low emissions
- Fuel savings up to 25%
- Lube oil savings over 50%
- Increased all-weather adhesion
- 90% parts commonality with existing fleet
- Predictable 184-day maintenance intervals
- 20 years of demonstrated 710 engine reliability
- Available as a kit or repowered locomotive

EM2000™ Microprocessor Control System

- Excitation and load control
- Adhesion control
- Engine control
- Diagnostic system

710ECO™ Repower Kit Contents

- 8 or 12-cylinder 710 engine
- AR10/CA6 alternator
- Separate loop aftercooling system
- EM2000™ Microprocessor Control System
- Automatic Engine Start Stop (AESS™)

