

Special feature : Type 151・161・181 EMU (DC 1.5kV EMU) for express train

Cover :

JNR (Japanese National Railways) type 20 EMU for express 《Kodama》 between Tokyo & Osaka (or Kobe) taken at the Tamachi inspection yard (in Tokyo). 《At debut in 1958 this EMU was classified into type 20 EMU and in 1959 reclassified as type 151 EMU》

Back cover :

Front face of type kuha-181 (no.101)

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Remarks		
• Type 151 EMU (original type 20 EMU) : operation spec for level lines, and motor output 100kW/axis		
• Type 161 EMU : operation spec for steep grade lines, and motor output 100kW/axis		
• Type 181 EMU (unify type 151 EMU & type 161 EMU) : operation spec for both flatness & incline lines, and motor output 120kW/ axis		
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