



**GM Locomotive Group**

# **MODERNIZATION RECOMMENDATION M.I. 9677**

## **REPLACEMENT RADIATOR CORES FOR G8 AND G18 TYPE LOCOMOTIVES**

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Electro-Motive Division  
General Motors Corporation  
La Grange, Illinois 60525 USA  
Telex: 270041 McCook, IL USA  
Cable: ELMO DIV La Grange, IL USA  
Telephone: 708-387-6000

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**PURPOSE:**

To provide instructions for installation of replacement radiator core 9526642 in place of discontinued radiator cores 8206685, 3129131, and 8490482 on G8 and G18 type locomotives.

**APPLICATION:**

G8 and G18 type locomotives delivered prior to January, 1986.

**REFERENCES:**

The following application drawings are required:

WS-44431	Radiator Assembly
8263390	Radiator Assembly
9571396	Plate-Closure
9574710	Plate-Closure

**DISCUSSION:**

Radiator core 9526642, which is a heavy duty design replacement core, has built-in side flanges and does not require the air sealing closure plates 8206994 (item 10 of drawing 8263390) typically used on radiator assemblies which were equipped with the discontinued radiator cores. However, installation of radiator core 9526642 will require the use of new closure plates 9571396 and 9574710 applied per drawing WS-44431, as described below.

**PROCEDURE:**

The following procedure applies to installation of radiator core 9526642 on G8 and G18 type locomotives delivered prior to January, 1986 and equipped with radiator assembly 8263390. These locomotives have radiator assemblies containing four single length cores.

1. When radiator core 9526642 is installed in place of an existing discontinued radiator core, closure plate 8206994 (item 10 of drawing 8263390) is not required. Radiator core 9526642 has built-in flanges which serve to seal the radiator to the hood mounting structure.
2. Closure plate 8263391 and clip 8177400 (items 11 and 20 on drawing 8263390) will need to be replaced with new closure plate 9574710 applied as shown in WS-44431. Closure plate 8294034 (item 21) will need to be replaced with new closure plate 9571396 as shown in WS-44431.
3. WS-44431 Radiator Assembly is intended to describe the application of the new closure plates used with core 9526642. The customer is not required to order all of the parts shown on WS-44431, since most of the parts are reused.
4. WS-44431 contains the newer style water inlet header 9093977 used on the G18 models delivered after 1976. If the existing 8263390 radiator

assembly has the older style water inlet header 8189032, as shown on drawing 8263390, it should be reused.

5. Since these locomotives may be in remote locations, or procurement of parts difficult, the closure plates described may have to be fabricated locally. Reference drawings 9574710 and 9571396 can be used for this purpose.

**NOTE**

G18U or G18W locomotives built after January 1986 are equipped with radiator assembly 9571422 which has two 8462344 double length radiator cores. These locomotives are designed to use radiator core 8462344 and can not be used as the service replacement for radiator assembly 8263390.

**SPECIAL** FERED BY SERVICE DEPARTMENT TRAIN

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Electro-Motive Division  
General Motors Corporation  
La Grange, Illinois 60525 USA  
Telex: 270041 McCook, IL USA  
Cable: ELMO DIV La Grange, IL USA  
Telephone: 312-387-6000



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## **NEW TRAINING AID OFFERED BY SERVICE DEPARTMENT TRAINING CENTER**

The Service Department Training Center is now offering an "Advanced Engine Air Box Inspection" educational slide/ tape presentation for purchase.

This slide set is, in effect, a continuation of the "Basic Engine Air Box Inspection" presentation previously released. To gain maximum benefit, it is recommended that the "Basic" presentation be a required prerequisite to viewing the "Advanced" presentation.

The "Advanced" presentation concentrates on liners, pistons and piston ring qualifications to assist in differentiating between power assemblies that can continue in service, and power assemblies that require replacement.

Both presentations may be made with an automatic slide/ tape player or a standard 35mm slide projector and an audio cassette player.

### **ORDERING INFORMATION:**

The price of each slide/ tape package is \$200.00. When issuing your purchase order, please specify, by exact name the presentation(s) you want -

- Basic Locomotive Engine Air Box Inspection
- Advanced Engine Air Box Inspection Analysis

Purchase orders should be directed to:

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Electro-Motive Division  
General Motors Corporation  
La Grange, Il. 60525

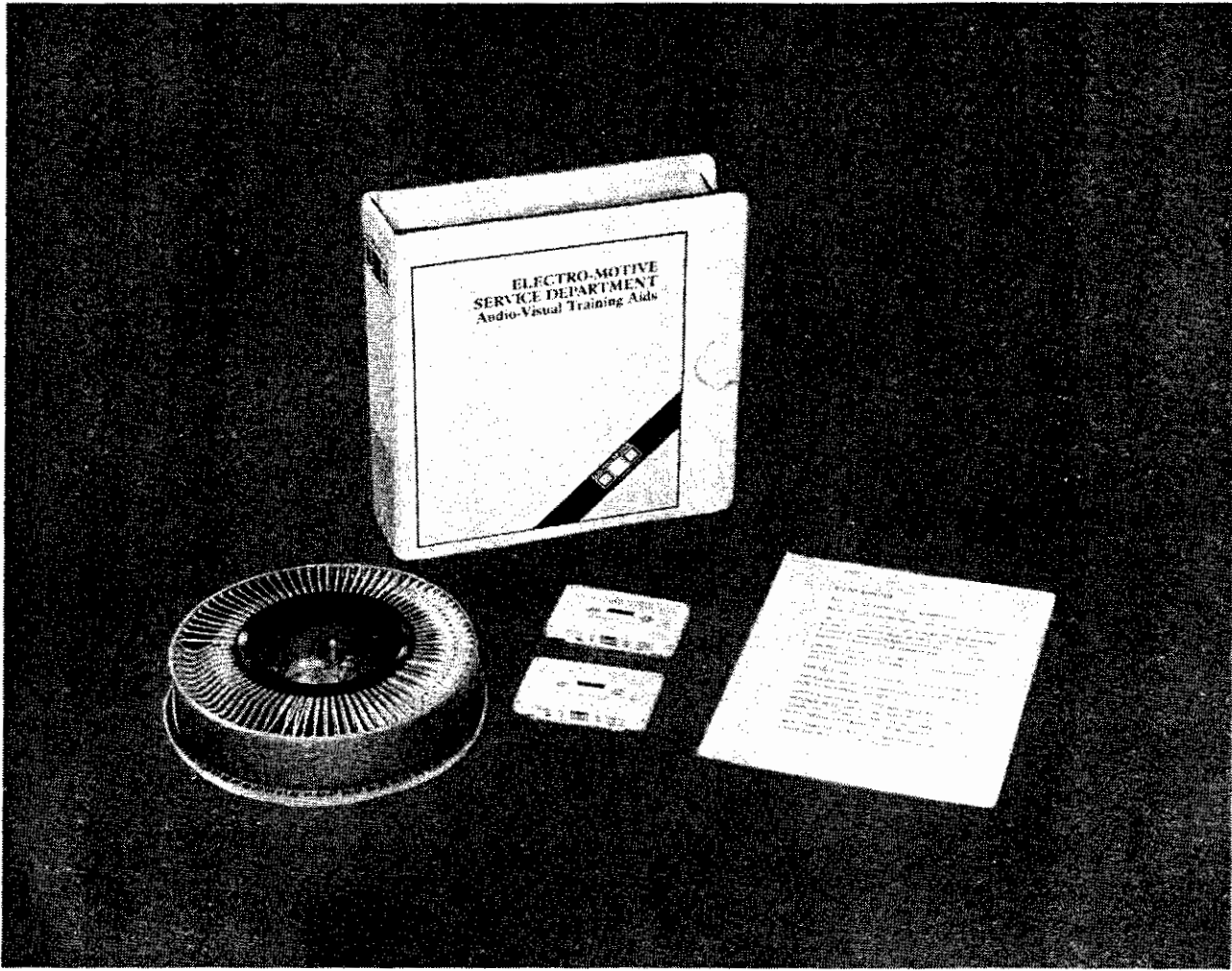


Figure 1. Audio-Visual Training Aid