Countries:	RUSSIA, AUSTRALIA, BAHAMAS, BOLIVIA, BRAZIL, BELIZE, CANADA, CHILE, TAIWAN, COLOMBIA, COSTA RICA, DOMINICAN REPUBLIC, ECUADOR, EL SALVADOR, TRINIDAD AND TOBAGO, UNITED STATES, URUGUAY, VENEZUELA, MEXICO, ARUBA, NICARAGUA, PERU, PUERTO RICO, Curaçao, GUAM, GUATEMALA, GUYANA, HAITI, HONDURAS, JAMAICA, KOREA, SOUTH KOREA, NEW ZEALAND, PANAMA, SOUTH AFRICA	**Document ID:**	IK2600298
Availability:	ISIS, Body Builder, NotSIR	**Revision:**	1
Major System:	PROGRAMMING SUPPORT	**Created:**	10/28/2025
Current Language:	English	**Last Modified:**	4/14/2026
Other Languages:	NONE	**Author:**	Matthew Carrigan
Viewed:	141		

Title: Programming Information Associated with International® A26A Engines

Applies To: A26A Engines

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

04/8/2026 - Initial Article Release

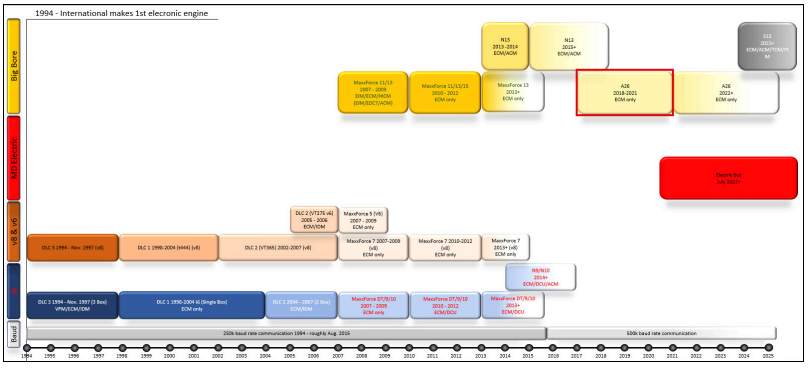
Description

This document enables technicians to:

1. Accurately identify International® A26A engine control systems.
2. Understand the programming intricacies related to these systems.
3. Perform programming tasks independently without needing technical support.

Table Of Contents

Timeline



Return to Top

Software / Hardware Integrations

- International® Service Diagnostic Systems (SDS): Supported. Used for diagnostics and parameter changes.
- Navistar Engine Diagnostics (NED): Not supported.
- NavKal: Not supported.
- DLB: Supported.
- 360 Write Up: Supported.
- The programming station supports this engine type. Use harness 12-801-01-12.

Return to Top

How International A26A Engine Modules Work

Baud Rate: 500k
-IK2700104 500K Connector Compatibility

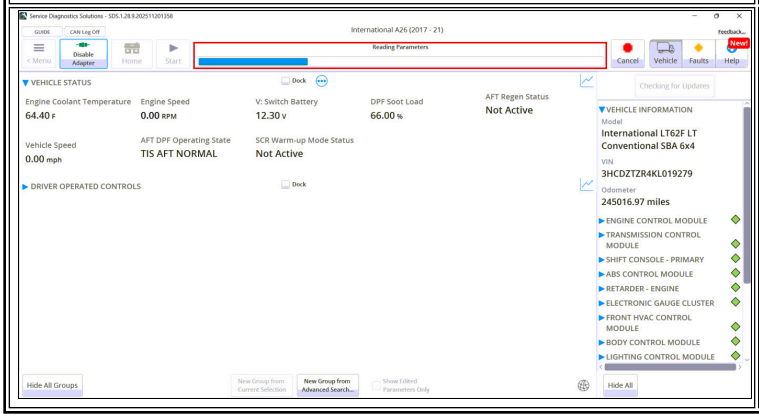
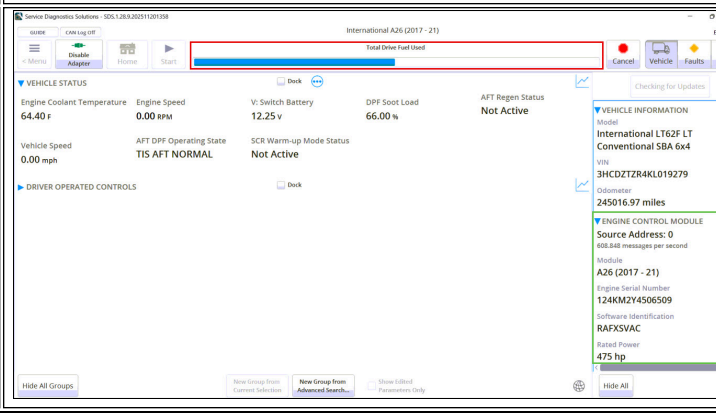
ECM: Engine Control Module. The ECM holds both the calibration and the parameters. A26A ECMs are dealer programmable. Both the calibration and parameters can be changed / programmed.

Functional info: The ECM communicates on the J1939 data link. The J1939 data link is used when communicating with SDS.
-IK0800080 J1939 Data Link Troubleshooting

Return to Top

Connecting to an International A26A Engine

When SDS connects to an A26A engine, the display should resemble the example shown below. The sections outlined in red are displayed because SDS was in the process of taking a health report. Once SDS finishes collecting data for the health report, the section outlined in red (below) will disappear.

A26A Connected to SDS Default Information	A26A Connected to SDS (engine info shown in green outline)
	

Return to Top

Source Addresses

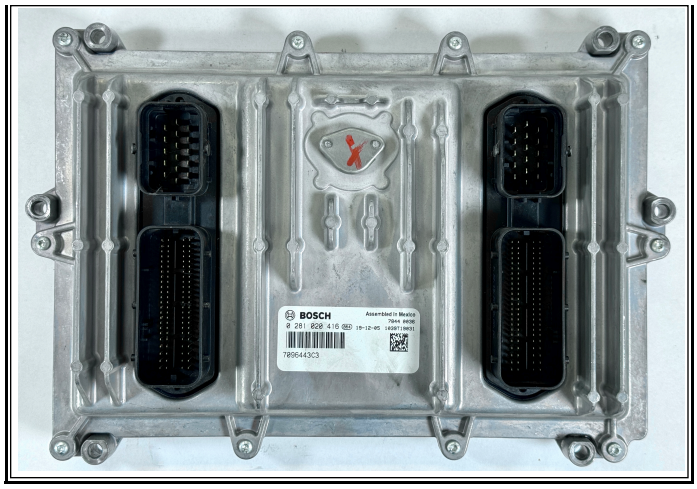
- The ECM broadcasts source address 0 (zero) on the J1939 data link.
  - IK0800351 provides more information on source addresses.
- The source address can be seen in the sniffer in either NED or NavKal.
- If using a Nexiq Communication cable, you could check the Nexiq Device Tester to see if source address 0 shows on the J1939 data link.
  - IK2600293 provides more information about the Nexiq Device Tester.

Return to Top

International A26A Engine Module Parts Information

- If you need engine identification information, please see IK2600242.
- For more pictures of these modules, see IK2600273.

A26a ECM



Return to Top

International A26A Horsepower (hp) Quotes

- Horsepower increases are supported for A26A engines. Follow the process outlined in IK2600069 to submit a case file for a horsepower quote.
- Horsepower quotes are only supported for International® dealerships. Horsepower quote information will not be provided outside of a case file.
- Below is some general ratings information.
  - A26A engines in line haul trucks are capable of handling horsepower ratings from 370-475 hp.
  - A26A engines in severe service trucks are capable of handling horsepower ratings from 365-500 hp.
  - 500 hp is not available for 2017-2018 engines.
- Although the engine may support a range of horsepower ratings, this does not mean the vehicle qualifies for the highest available rating. International only supports horsepower ratings that were available for any given vehicle / engine combination at the time the vehicle was built.
- If the engine you're considering already has the highest possible rating, then no increases are available. There is no need to submit a casefile requesting a horsepower quote if the engine is aready at the highest supported rating, as such a request will be denied. The screenshot below shows the highest ratings available for A26A engines in both severe service and line haul trucks.

Application	Rating Code	Horsepower	Torque
Line Haul	12BEE	475	1,700
Severe Service	12BGP	500	1,750

Return to Top

International A26A Engine Swaps and IQA Data

There are four A26A engine types technicians should be aware of.

Engine Type	ESN Structure	IQA Data
Production Engine	124KM2Yxxxxxxx	Production engines were originally built to be installed in a specific VIN at an assembly plant. As-built IQA data is stored by International. However, International does not have IQA data for injectors that were changed after the truck was built.
Service Engine	124KM2Yxxxxxxx	Service engines were not built for a specific VIN. They were built to remain available until they are needed to replace another engine. As-built IQA data is stored by International. However, International does not have IQA data for injectors that were changed after the truck was built.
New Exchange Unit engine	124KM2Rxxxxxxx 124KM2Xxxxxxxx	These are remanufactured engines that were created under a special International program. A paper printout was included with the engine that provided IQA data. International does not have any record of the IQA values.
Remanufactured Engine	ESN typically begins with "S".	Remanufactured engines were remanufactured by another business besides International and therefore were not given an ESN that follows the structure of International ESNs. International does not have any record of the IQA values.

IK2600253 documents the programming processes associated with A26A engine swaps.

See IK2600047 for information about engine swaps in general. Programming changes may be needed in order to accommodate an engine swap. There are some instances where International CANNOT support an engine swap. If you have any doubts about whether your engine swap will be supported by International, please start a case file with the Vehicle Programming group BEFORE swapping engines and we will let you know if International will support the swap. The potential negative outcome would be that you install an engine that International cannot support – then we would not be able to provide you with any programming changes to support the new engine.

Return to Top

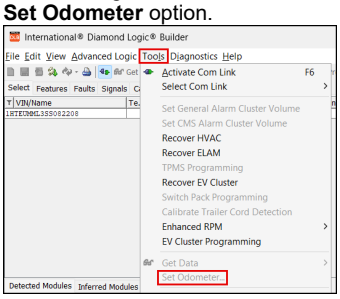
SDS Programming Special Instructions

1. SDS is the recommended software for programming A26A ECMs. Although NavKal might work for programming A26A ECMs and NED might work for diagnostics and parameter changes, International DOES NOT support using NavKal or NED with A26A engines.
2. You DO NOT need to remove fuses to program an A26A ECM with SDS. Before SDS begins programming, it sends out a data link message instructing all other modules to stop communicating. A26A powered vehicles were the first vehicles produced by International that had all modules compliant with this data link message. For all previous vehicles, International recommends removing the ABS fuse and transmission fuse before programming.

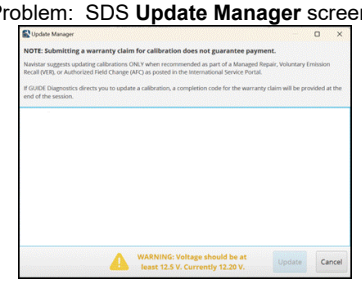
Return to Top

Common Programming Issues with A26A Systems

1. Service Interval Reset:
   Issue: The button procedure to reset the service interval does not work.
   Workaround: Use SDS parameter 95101 (Service Interval Reset Request) to reset the service interval.
2. Total Miles in odometer (in instrument cluster) changes during programming.
   Issues:
   a. Odometer miles is reduced by EXACTLY fifty percent (cut in half)
      -Fix: Remote support will be needed. Start a case file with the Vehicle Programming group as the body controller kernel will need to be rolled back. See IK3000111 for instructions on how to start a case file.
   b. Odometer miles increase
      -Fixes:
      1. Use DLB **Set Odometer** function to set the odometer to the current ECM value for total vehicle distance. This option can be found in DLB > Tools > Set Odometer. The DLB **Set Odometer** function forces the cluster to acquire the total vehicle distance from the engine ECM. If the ECM total vehicle distance is set to an incorrect value, that will need to be fixed before using the DLB **Set Odometer** option.



      2. If setting the odometer through DLB does not fix the issue, then remote support will be needed. You will need to start a case file with the Vehicle Programming group. See IK3000111 for instructions on how to start a case file.
3. Problem: SDS **Update Manager** screen appears blank. This can be caused by having insufficient user permissions for the SDS software.



   Fixes:
   1. Contact your dealer administrator to see if you have the standard dealer level permissions
   2. Submit a case file to the EZ-Tech Support Team. See IK3000111 for instructions.

Return to Top

OTHER RESOURCES

Master Service Information Site

RC2600001 - Vehicle Programming Resource Center

Hide Details

Feedback Information

Viewed: 140
Helpful: 2
Not Helpful: 0

No Feedback Found