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Coding Information

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Title: CV Series Keys

Applies To: All CV vehicles

CHANGE LOG

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

03/13/2020 - Initial Article Release

DESCRIPTION

This document will guide the user through understand and getting familiar with the key for the CV series truck and how to prepare a new key blank. The CV key style is different from all other International truck keys.

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
N/A	

Customer Observations or Concerns:

Customer requires a new ignition/door key to be cut and programmed for their CV series truck.

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Electronic Key Cutting Machine	N/A	See Special Note in Cutting Internal Grooves section below	Insert key blank in vise and follow prompts on screen.

SERVICE PARTS INFORMATION

Part Description	Part Number	Quantity Required	Notes
KEY, BLANK, UNCODED, IGNITION,	6040873C1	1	

DIAGNOSTIC STEP(s)

Ignition Key system background Information

The CV key is different than all other International Series truck Keys in three ways.

1. The ignition key has internal cut grooves verses external cut edges. (See Figure 1)
2. The ignition key is equipped with an electronic security chip that interfaces with the ignition electrical system inside the truck.
3. The ignition key and key rings, and RKE transmitter, if equipped, are designed to work together as a system to reduce the risk of unintentionally moving the key out of the ON position. The ignition key has a small hole to allow attachment of the provided key ring. It is important that any replacement ignition keys have a small hole. Only use approved service part keys when a replacement key is required. (See Figure 1) The combination and size of the two rings that come with the CV keys were specifically selected for this vehicle. The rings are connected to the key like two links of a chain to reduce the risk of unintentionally moving the key out of the ON position while in the truck is in operation.

Both features 1 & 2 above must be properly duplicated for a new/replacement key to start the truck. If the key grooves are cut correctly but the key is not electronically programmed to the truck; the key will work correctly in the door locks and it can be turned in the ignition, but it will not allow the truck to start.

Additional information about the ignition key can be found in both the CV Service Manual under section 10 – Miscellaneous and in the CV Owner's manual under Section 4 - Keys, Doors, and Windows. An electronic version of both Manuals is available on the Publications tab of our Dealer Service Portal.

Figure 1 below identifies the basic elements of the CV key.

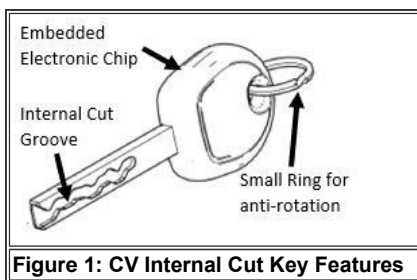


Figure 1: CV Internal Cut Key Features

Preparing a new key blank for a CV Series Truck



Figure 2: Example of a Cut CV Series Truck Key

There are two steps to making a new/replacement key for the International CV Series Truck

1. Cutting the correct grooves on both sides of the key shaft
2. Programming the key to the truck so the chip embedded in the plastic key head is recognized electronically by the truck's ignition system.

Cutting the Internal Grooves.

The internal grooves must be cut on a compatible electronic key cutting machine that is equipped to cut internal groove keys. If your dealership does not have a compatible electronic key cutting machine, using a local locksmith that has one is the best option. If your dealership is interested in purchasing a key cutting machine that will cut all types of International truck keys including CV, the Navistar's special tools team is currently recommending the "Futura" or the "Futura Pro" manufactured by Kaba Ilco Corp.

Special Note Concerning the Key Cutting Machine

Step 1: Obtain the unique "Ignition Key Number" from the parts catalog or from the dealer portal located on the serial number tab for the VIN you are working on. The CV trucks are also delivered with a bar-coded key tag that the customer may supply when requesting new/replacement keys. The code you need will start with a V followed by four numbers. (i.e. V1234) each VIN will have its' own code. This code will be used by the electronic key cutting machine so the correct shape of the groove can be cut. The ignition code assigns a 10-digit key cut number that the machine uses to cut the correct path of each groove.

Step 2: Obtain the correct key blank from service parts (**P/N: 6040873C1**) to be cut for the specific VIN you are working on. This key blank has an electronic chip embedded in the plastic head that needs to be programed to the truck after the grooves are cut. It is recommended to only use authorized key blanks from the OEM.

Step 3: With both the key blank and the ignition code the key can now be cut with the correct grooves.

Programming a Key to the Truck's Electronic Ignition System

NOTE: Please refer to the latest revision of the CV Service manual located on the dealer portal. All key programing procedures are located in the service manual.

WARRANTY INFORMATION

Warranty Claim Coding:


Refer to the [Warranty Coding Manual](#) for Group and Noun Codes.

Standard Repair Time(s):

Refer to the [SRT Manual](#) for Repair Times

OTHER RESOURCES

[Master Service Information Site](#)

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