Vision Box[™] User's Manual

Model Number: KZV-1000





Important Information

Read this manual first before attempting to operate the Vision Box.

Important information for future reference

Product Model Number: KZV-1000

Product Serial Number: _____

Date of Initial Use:

Customer Service Information:

For Customer and/or Technical Support please contact us at:

Phone: 1-800-896-7890 8am – 6pm EST Monday – Friday

Fax: 330-467-7442

E-Mail: cservice@hy-ko.com

Mailing Address: Hy-Ko Products Company 60 Meadow Lane Northfield, OH 44067-1415

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Basic Machine Components

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Machine Component Locations



Main Screen







Downloading and Installing the Software

• You will need access to the internet and <u>administrative rights</u> on the computer you are using to be able to download and run the installer to load the Vision Box software.

• DO NOT connect the Vision Box to the computer prior to downloading and installing the software.

• Open an internet window and follow the instructions below to run the installer.





• Read and accept all of the installer default settings.

• Trust/Continue Anyway if presented with any Windows security warnings.

• Hit Finish to complete the installer.

• Plug the Vision Box into a 110V outlet and turn on the power switch on the back of the machine.

• Connect the Vision Box to the computer using the supplied USB cable.

• Wait for the new camera hardware to be found and automatically installed.

• Launch the new software.

Opening the Software

Make sure the Vision Box is connected to the computer prior to starting the initial setup.



• When opening the software for the first time you may be prompted that there are updates available. Click 'Yes' to download these updates (see fig. 1).





NOTE:

Be patient as the downloading process can take a few minutes. These updates are to make sure you have the latest files for the software.



• When the updates are complete a **'First Run Wizard'** will open. Click **'NEXT'** (see fig. 3).



• Choose your language then click '**NEXT'** (see fig. 4).

🖶 Hy-Ko Keys Desktop v20160129			X
First Run Wizard	Store Registration		
	Please enter your store number used to access http://www.hykd	okeys.com	
HY-KO			
	Enter Your Store Information		
	Store Number 12345		
	If you are unsure of what you should sel	ect call Tech Su	nnort at
	866-674-8226.	BACK	NEXT
fig. 5			

• Enter your store number as it was registered with Hy-Ko Products Company then click 'NEXT' (see fig. 5).



NOTE:

If you are not sure as to the proper store number format, call the Tech Support number shown at the bottom of the screen (see fig. 5).



• Choose whether or not your store makes VATS keys then click 'NEXT' (see fig. 6).



• Choose whether or not you your store on-board programs chipkeys other than the P-GM504 then click 'NEXT' (see fig. 7).





• Choose whether or not your store cuts sidewinder keys then click 'NEXT' (see fig. 8).



• Once the questions have been answered the software will check the computer's network connections (see fig. 9).

fig. 9



• Once the network connections have been verified click **'NEXT'** (see fig. 10).



• More updates will begin to download. Be patient as the downloading process can take a few minutes. These updates are to make sure you have the latest vehicle applications for the database (see fig. 11).

fig. 11



• Once all the files have been downloaded click **'FINISH'** (see fig. 12).

After running through the **'First Run Wizard'** you will be taken directly to the calibration screen (see fig. 13).





fig. 14



fig. 16



• Once the tool is in the Vision Box and can be seen on the screen click **'AUTO CALIBRATE'** (see fig. 17).

fig. 17



• The Vision Box will begin by scanning the Camera Calibration Tool (see fig. 18).

fig. 18



Once the scanning has been completed click
'OK' (see fig. 19).







• Insert an UNCUT KW1 key blank into the Vision Box (see fig. 22) so that the edge that would get cut is facing to the right then click **'SCAN KEY'** (see fig. 24).



NOTE:

You want to insert the key as far into the Vision Box as you can and also as straight and centered as possible.





• The Vision Box will scan the uncut KW1 and then provide results based on a 5-star rating (see fig. 24).

• Once the key has been rated remove the KW1 from the Vision Box.



NOTE:

For the next step you will need an uncut SC1 key blank (see fig. 25).





fig. 22

\Lambda номе	TECH SUPPORT : 866-674-8226 STORE : 12345	🔯 SETTINGS 🜔 HEL
TEST CALIBRATION		SCAN KEY
GENERAL		
I-TOOL		
VISIONBOX	VEDIEV VALUE CALIDEATION	
SIDEWINDER+	VERIFY VALID CALIBRATION	
LED PANELS	Insert an UNCUT SC1 key blank into the machine FACING RIGHT and as straight as possible, then	press SCAN KEY to continue.
		SCI CROQUE
		TATATA
	DECEMPT.	
	The second se	



• Insert an UNCUT SC1 key blank into the Vision Box (see fig. 26) so that the edge that would get cut is facing to the right then click 'SCAN KEY' (see fig. 28).



NOTE:

You want to insert the key as far into the Vision Box as you can and also as straight and centered as possible.



fig. 27

would be cut







• The Vision Box will scan the
uncut SC1 and then provide
results based on a 5-star rating
(see fig. 28).

- Once the key has been rated remove the SC1 from the Vision Box.
- With the machine fully calibrated, click the 'DONE' button to go to the home screen (see fig. 28).
- You can select 'BACK TO **CALIBRATION'** or 'RESTART **VERIFICATION'** if poor ratings were received.



fig. 28



Scanning Single-Sided House & Padlock Keys



• To scan a key you want to start on the Home Screen. If the software is not on the Home Screen click **'HOME'** in the upper left corner of the screen (see fig. 29).

fig. 29



• Insert the key into the Vision Box (see fig. 31). You will see the image of the key blade in the scanning window on the right side of the screen (see fig. 30).





NOTE:



You want to insert the key into the Vision Box as straight as possible so the image of the blade doesn't touch the sides of the scanning window. When inserted correctly, the frame of the scanning window will be green. It does not matter which way you insert the key. The cuts can be to the right or the left.



• If the key is inserted into the Vision Box and it is too crooked to be seen within the scanning window, the frame of the scanning window will turn red. Move the head of the key to straighten it until the frame turns green (see fig. 32).

• Once the key is in the correct orientation click the **'START NOW'** button at the bottom of the scanning window.

fig. 32



• The Vision Box will begin the scanning process of the key. (see fig. 33). Do not touch the key at this time.

fig. 33

НОМЕ	TECH SUPPORT : 866-674-8226 STORE : 12345	SETTINGS	O HELE
Search 🛞			
Sort By: 🧿 RANK 🕥 ALPHABETICAL			
CLOSEST MATCHES			
FA2 90%			
- FA3 85 %			
74 %			
	Click on a match to view more details.		
LESS LIKELY MATCHES			
- KW5 61 %			
- AR4 54 %			
• DE8 <u>50 %</u> ≡			
- L4 41 %			
- Y78 30 %			
- RU101 25 %			
Y4 24 %			
Y2 15%			
• S45 7 %			
- <u>546</u>			
104			



• When the Vision Box is finished scanning the key, you will be taken to the results screen (see fig. 34).

• The closest matches will be at the top ranked by percentage. Lower ranking keys will be at the bottom.

NOTE:

To narrow down your results even further, click the **'SEARCH'** window in the top, left corner of the software, just below the **'HOME'** button. You can type in any identifying numbers or letters that are on the key.

• Click on any key number to see the information on that particular key. An image of the blank and the cross section will be shown as well as other manufacturer part numbers and applications (see fig. 35).

NOTE:

The keys listed at the top with the higher ranking doesn't mean that your key is definitely one of those. You still need to compare the actual key with the information in the software or by visually comparing it with a blank.

Once you have determined the correct key blank to choose, you can remove the customer's key. If you have the key blank you need in stock you are now able to cut it using the appropriate key cutting machine.



😑 Hy-Ko Keys Desktop v20160129				- • • × •
👚 номе	TECH SUPPORT STORE	: 866-674-8226 : 12345	ø	SETTINGS OF HELP
Sort By: O RANK O ALPHABETICAL				
CLOSEST MATCHES		FA2		
- FA3 85 %	Standard-Cut Mechanical Key	JAW SETTING STANDARD	CUTTING ADAPTOR	ON-BOARD PROGRAMMING
- WR4 74 %	FILTERI	ED APPLICATIONS		
	Extension Pro-	USE	MAKE MO	DEL YEAR
LESS LIKELY MATCHES		ATE MARKINGS		
	Dominio	m	FA54WA	NUMBER
9 L4 41 %	lico Silca		FN3	
— Y78 30 %	n			VIEW MECHANICAL KEY
RU101 25 %				
9 Y4 24 %				
Y 2 15%				
54 5 7%	VALIDATE PROGRAM	VIEW OBP	10	
- S(9 1 0/	CU15 KEY	INSTRUCTION	3	

• Once you have completed cutting the key you can return to the Vision Box to validate the cuts on the new blank in relation to the customer's key (see fig. 36).

• From the results screen click the **'VALIDATE CUTS'** button.

fig. 36

Hy-Ko Keys Desktop v20160129			010	
HOME	< 1	васк	TECH SUPPORT : 866-674-8226 STORE : 12345	TINGS O HELP
Insert the COPIED FA2 into the VisionBox, then press 'START NOW' to continue.			D FA2 into the VisionBox. ART NOW to continue.	INSERT KEY
				SCAN COPY
	HOME	Eo Keys Derektop u2016621	Ro Key Devidep 20180129	TECH SUPPORT: 066-674-8226 TOME MACK Insert the COPIED FA2 into the VisionBox, then press 'START NOW' to continue.

• After clicking on the • VALIDATE CUTS' button you will be instructed to insert the newly cut key into the Vision Box (see fig. 37).

fig. 37



• Insert the newly cut key into the Vision Box (see fig. 39). You will see the image of the key blade in the scanning window on the right side of the screen (see fig. 38).





NOTE:

fig. 39

You want to insert the key into the Vision Box as straight as possible so the image of the blade doesn't touch the sides of the scanning window. When inserted correctly, the frame of the scanning window will be green. It does not matter which way you insert the key. The cuts can be to the right or the left.

a bell on only campage	top s20380129		A. 214.10 Mar. 10
A HOME	< BACK	TECH SUPPORT : 846-674-8226 STORE : 12345	@ SETTINGS () BELP
	ins t	rt the COPIED FA2 into the VisionBox, en press "START NOW" to continue.	
			OK TO SCAN
			CAN COPY

• Click **'SCAN COPY'**. The Vision Box will begin the scanning process of the key (see fig. 40). Do not touch the key at this time.





• When the Vision Box is finished scanning the key, you will be taken to the validation results screen (see fig. 41).

• The screen shows an image of the newly cut key on top of the customer's key. The green marks show the spacing locations of the customer's key and the red marks are for the newly cut key.

• If the key was correctly cut there will be a green bar at the top of the screen that says



• You can return the software to the Home Screen by clicking the 'HOME' button.



• To see more detailed information on the validation click on the 'SHOW DETAILS' button at the top right of the screen. The button will switch to saying 'HIDE DETAILS' which you can click on to hide the detailed information (see fig. 42).

• This information will show you the differences in the key cuts in thousandths of an inch.

fig. 42



• If the newly cut key fails the inspection, you will get a red bar at the top of the screen that says 'FAILED'. You will also see the image of the newly cut key, in red, on top of the customer's key, in green (see fig. 43). From this data, you will have to decide if the key has burrs that need to be brushed off, the key was miscut, the wrong blank was used, or some noncritical variation caused the failure. Non-critical variations include tip shape variations, non-functional blade thickness variations and nonfunctional notches.

• You can return the software to the Home Screen by clicking the **'HOME'** button.

Scanning Double-Sided House & Padlock Keys



• To scan a key you want to start on the Home Screen. If the software is not on the Home Screen click **'HOME'** in the upper left corner of the screen (see fig. 44).

fig. 44



• Insert the key into the Vision Box (see fig. 46). You will see the image of the key blade in the scanning window on the right side of the screen (see fig. 45).



fig. 45

NOTE:

fig. 46

You want to insert the key into the Vision Box as straight as possible so the image of the blade doesn't touch the sides of the scanning window. When inserted correctly, the frame of the scanning window will be green.



• Click **'START NOW'**. The Vision Box will begin the scanning process of the key (see fig. 47). Do not touch the key at this time.

fig. 47



• Being a double-sided key the Vision Box will assume that the key is an automotive key and take you to the I-Tool screen (see fig. 48).

• Knowing that this key is not for a vehicle click the **'NOT A VEHICLE KEY'** button.





• By skipping the I-Tool check, you will be taken to the Results Screen (see fig. 49).

• The closest matches will be at the top ranked by percentage. Lower ranking keys will be at the bottom.

fig. 49



• Click on any key number to see the information on that particular key. An image of the blank and the cross section will be shown as well as other manufacturer part numbers and applications (see fig. 50).



NOTE:

The keys listed at the top with the higher ranking doesn't mean that your key is definitely one of those. You still need to compare the actual key with the information in the software or by visually comparing it with a blank.

Once you have determined the correct key blank to choose, you can remove the customer's key. If you have the key blank you need in stock you are now able to cut it using the appropriate key cutting machine.





• Once you have completed cutting the key you can return to the Vision Box to validate the cuts on the new blank in relation to the customer's key (see fig. 51).

• From the results screen click the **'VALIDATE CUTS'** button.

fig. 51

To follow the steps for validating the cuts of the newly cut key, refer to pages 28-30.

Scanning Vehicle Keys

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Scanning Vehicle Keys

Scanning Vehicle Keys



• To scan a key you want to start on the Home Screen. If the software is not on the Home Screen click **'HOME'** in the upper left corner of the screen (see fig. 52).

fig. 52



• Insert the key into the Vision Box (see fig. 54). You will see the image of the key blade in the scanning window on the right side of the screen (see fig. 53).





NOTE:

fig. 54

You want to insert the key into the Vision Box as straight as possible so the image of the blade doesn't touch the sides of the scanning window. When inserted correctly, the frame of the scanning window will be green.


• Click **'START NOW'**. The Vision Box will begin the scanning process of the key (see fig. 55). Do not touch the key at this time.

fig. 55



• Being a double-sided key the Vision Box will assume that the key is an automotive key and take you to the I-Tool screen (see fig. 56).

• Take the key out of the Vision Box and insert it in the cup of the I-Tool. Click **'NEXT'** on the image of the I-Tool on the software.

fig. 56

To follow the steps for mechanical vehicle keys, refer to pages 38-42. To follow the steps for I-Key vehicle keys, refer to pages 43-49. To follow the steps for A-Key vehicle keys, refer to pages 50-59. To follow the steps for the P-GM504 vehicle keys, refer to pages 50-55.

Scanning Vehicle Keys: Mechanical Keys

continued from page 37.



• No Chipkey will be detected as noted on the screen (see fig. 57).

• The software will automatically take you to the next screen to begin entering the vehicle information.

fig. 57



• Choose **'Auto, Small Truck, Van'** for the category (see fig. 58).



• Choose the Make by clicking on the appropriate manufacturer logo or by typing it in the **'MAKE'** box on the left (see fig. 59).



You can add and remove vehicle make **'SHORTCUTS'** by right-clicking on an icon. You can have a maximum of eight shortcuts at the top of the screen.

Hy-Ko Keys Desktop v20160129 TECH SUPPORT : 866-674-8226 STORE : 12345 SETTINGS O HELP \Lambda номе Auto, Small Truck Dodge Van CATEGORY MODEL Avenger B150 MAKE B1500 B250 MODEL B2500 B350 BACK TO: MAKE SKIP B3500 Caliber Caravan Challenger Charger Colt Conquest D250 D350 D50 Dakota Dart Davtona Durango Dynasty Grand Caravan GOTO RESULTS > Intrepid Journey Magnum **RESULTS: 9**

• Choose the Model by clicking on it from the list or by typing it in the **'MODEL'** box on the left (see fig. 60).

Hy-Ko Keys Desktop v20160129		TECH SUPPORT : 86 STORE : 12	56-674-8226 345	SETTINGS	- • ×
	Auto, Small Truck, Van	Dodge	Ram 1500		
CATEGORY Auto, Small Truck, Van	YEAR				
MART	2009 2008				
Dodge MODEL	2007 2006 2005				
Ram 1500 YEAR	2003 2004 2003				
BACK TO: MODEL SKIP	2002 2001				
	2000 1999 1998				
	1997 1996				
	1995 1994				
GOTO RESULTS >>					
RESULTS: 2					

• Choose the Year by clicking on it from the list or by typing it in the **'YEAR'** box on the left (see fig. 61).



NOTE:

If you are unsure about any of the information, click on 'GO TO RESULTS' in the lower, left corner of the screen. However, the results will be more specific if you enter in all the information.

fig. 61

礕 Hy-Ko Keys Desktop v20160129					
🖍 номе < васк		TECH SUPPORT : 86 STORE : 12	56-674-8226 345	🔯 SETT	INGS O HELP
Search Sort By: O RANK O ALPHABETICAL	Auto, Small Truck, Van	Dodge	Ram 1500	2000	
CLOSEST MATCHES					
80%	Click on a	match to view mo	re details.		

• Your list of possible keys for the vehicle chosen will be shown at the left (see fig. 62).

• The closest matches will be at the top ranked by percentage.

😤 Hy-Ko Keys Desktop v20160129					
🕋 номе 🤇 васк		TECH SUPPORT : STORE :	866-674-8226 12345	Į.	SETTINGS O HELP
Sort By: ORANK ALPHABETICAL	Auto, Small Truck, Van	Dodge	Ram 1500	2000	
CLOSEST MATCHES			¥157		
	Standard-Cut Me	chanical Key	JAW SETTING X	CUTTING ADAPTOR	ON-BOARD PROGRAMMING
		FILTEREI	APPLICATIONS		
		US	E Poles	MAKE	MODEL YEAR
			TE MARKINGS		
	\mathbb{V}	Axxess	I D PIARAINGS	17	ORDER NUMBER
		Ilco		P1794	
		Star		CHR94	VIEW MECHANICAL KEY
	VALIDATE CUTS	PROGRAM KEY	VIEW OBP INSTRUCTION	s	

• Click on any key number to see the information on that particular key. An image of the blank and the cross section will be shown as well as other manufacturer part numbers and applications (see fig. 63).

fig. 63

Once you have determined the correct key blank to choose, you can remove the customer's key. If you have the key blank you need in stock you are now able to cut it using the appropriate key cutting machine.



номе < васк		TECH SUPPORT STORE :	866-674-8226 12345	ø	SETTINGS O HEL
Search Sort By: O RANK ALPHABETICAL	Auto, Small Truck, Van	Dodge	Ram 1500	2000	
CLOSEST MATCHES			¥157		
	Standard-Cut Me	echanical Key	JAW SETTING	CUTTING ADAPTOR	ON-BOARD PROGRAMMIN
		FILTERE	DAPPLICATIONS		
		, in the second	ISE M	AKE M	ODEL YEAR
		ALTERN	ATE MARKINGS		OBDER
		ALTERNA	ATE MARKINGS	17	ORDER NUMBER
		ALTERNA Axxess Ilco	ATE MARKINGS	17 P1794 V157.NP	ORDER NUMBER
		ALTERNA Axxess Ilco Jet Star	ATE MARKINGS	17 P1794 Y157-NP CHR94	ORDER NUMBER VIEW
		ALTERNA Axxess Ilco Jet Star	ATE MARKINGS	17 P1794 Y157-NP CHR94	ORDER NUMBER VIEW MECHANICAL KEY
		ALTERN. Axxess Ilco Jet Star	ATE MARKINGS	17 P1794 Y157-NP CHR94	ORDER NUMBER VIEW MECHANICAL KEY.
		ALTERN. Axxess Ilco Jet Star PROGRAM	ATE MARKINGS	17 P1794 Y157.NP CHR94	ORDER NUMBER VIEW MECHANICAL KEY.
	VALIDATE CUTS	ALTERN. Axxess Ilco Jet Star PROGRAM KEY	ATE MARKINGS	17 P1794 Y157.NP CHR94	ORDER NUMBER VIEW MECHANICAL KEY.

• Once you have completed cutting the key you can return to the Vision Box to validate the cuts on the new blank in relation to the customer's key (see fig. 64).

• From the results screen click the **'VALIDATE CUTS'** button.

To follow the steps for validating the cuts of the newly cut key, refer to pages 28-30.

Scanning Vehicle Keys: I-Keys

continued from page 37.



• The I-Tool will read the customer's key (see fig. 65). You can see the progress on the picture of the I-Tool on the software.

fig. 65



• When I-Tool has completed reading the customer's key, the type of chipkey is displayed on the picture of the I-Tool on the software (see fig. 66).

ñ	номе		TECH SUPPORT : 866-674-8226 STORE : 12345	SETTINGS	O HEL
	CHIPKEY DETECTED	1	Select the vehicle information,		
	CATEGORY	CATEGORY			
	SKIP 🔻				
		Auto, Small Truck, Van			
	GOTO RESULTS >>				
	RESULTS: 23				

• Choose **'Auto, Small Truck, Van'** for the category (see fig. 67).

fig. 67

🖶 Hy-I	Ko Keys Deskt	op v20160129									×
â	HOME			TECH	H SUPPORT STORE	: 866-674-8 12345	3226		SETTING	s 🔿 H	ELP
			Auto, Small T Van	ruck,							
	CA Auto, Si	TEGORY mail Truck, Van	MAKE								
			- SHORTCU	тѕ							-
•	BACK	MAKE FO: SKIP V	CHEVROLET Chevrolet	Chrysler	Ford Ford	Honda	Hyundai	KIA Kia	Nissan	TOYOTA Toyota	
	USE		- COMMON								1
			ACURA		٢	вшск	Castellar:	CHEVROLET	CHRVSLER	00000	
			Acura	Audi	BMW	Buick	Cadillac	Chevrolet	Chrysler	Dodge	
			EDAT	Ford	GMC		HUMMER	Ю	\mathbf{S}	Jeep	
			Fiat	Ford	GMC	Honda	Hummer	Hyundai	Infiniti	Jeep	
			KIA		LINCOLN		Mercedes-Benz	MERCURY		HITSUBSH	
			Kia	Lexus	Lincoln	Mazda	Mercedes- Benz	Mercury	Mini	Mitsubishi	
			NISSAN		PONTIAC	RA	EVALE	SATURN	\bigcirc	SUBARU.	
	GOTO	RESULTS >>	Nissan	Oldsmobile	Pontiac	Ram	Saab	Saturn	Scion	Subaru	
	RESI	JLTS: 103	SUZUKI	TOYOTA		đ					

• Choose the Make by clicking on the appropriate manufacturer logo or by typing it in the **'MAKE'** box on the left (see fig. 68).

NOTE:

You can add and remove vehicle make **'SHORTCUTS'** by right-clicking on an icon. You can have a maximum of eight shortcuts at the top of the screen.



• Choose the Model by clicking on it from the list or by typing it in the **'MODEL'** box on the left (see fig. 69).

fig. 69



fig. 70

• Choose the Year by clicking on it from the list or by typing it in the **'YEAR'** box on the left (see fig. 70).



NOTE:

If you are unsure about any of the information, click on **'GO TO RESULTS'** in the lower, left corner of the screen. However, the results will be more specific if you enter in all the information.

🖶 H	y-Ko Keys De	ktop v201	60129							
â	номе	<	BACK			TECH SUPPORT : 86 STORE : 12	56-674-8226 345	SET	TINGS	O HELP
7	Search Sort By: O	RANK O	ALPHABETIC	⊗ ∧L	Auto, Small Truck, Van	Mitsubishi	Galant	2000		
	CLO I-MIT P-MIT	5555 M	ATCHES S S	<u>55 %</u>	Click on a	match to view mo	re details.			

• Your list of possible keys for the vehicle chosen will be shown at the left (see fig. 71).

• The closest matches will be at the top ranked by percentage.

fig. 71



• Click on any key number to see the information on that particular key. An image of the blank and the cross section will be shown as well as other manufacturer part numbers and applications (see fig. 72).

• When you have chosen the correct key you need, click on the **'PROGRAM KEY'** button at the bottom of the screen.





• The software will switch to the I-Tool screen (see fig. 73).

• Insert the new I-Key into the I-Tool and click the **'NEXT'** button on the image of the I-Tool on the software.

fig. 73



• The I-Tool will begin the process of looking up the key code (see fig. 74). Do not touch the key at this time.





• When the programming is complete, there will be a green screen on the picture of the I-Tool on the software (see fig. 75). At this point, you can remove the new I-Key from the I-Tool.

• To return to the Results screen, click the **'NEXT'** button.

fig. 75

Once you have programmed the ChipKey, you are now able to cut it using the appropriate key cutting machine.





• Once you have completed cutting the key you can return to the Vision Box to validate the cuts on the new blank in relation to the customer's key (see fig. 76).

• From the results screen click the **'VALIDATE CUTS'** button.

fig. 76

To follow the steps for validating the cuts of the newly cut key, refer to pages 28-30.

Scanning Vehicle Keys: A-Keys

continued from page 37.



• The I-Tool will read the customer's key (see fig. 77). You can see the progress on the picture of the I-Tool on the software.

fig. 77



• When I-Tool has completed reading the customer's key, the type of chipkey is displayed on the picture of the I-Tool on the software (see fig. 78).



- пу-т	Ko Keys Desktop V20160129				
<u>ہ</u>	HOME		TECH SUPPORT : 866-674-8226 STORE : 12345	SETTINGS	O HELP
	CHIPKEY DETECTED		Select the vehicle information,		
	CATEGORY	CATEGORY			
	SKIP 🔻	-			
		Auto, Small Truck, Van			
	GOTO RESULTS >>				
	RESULTS: 23				

• Choose **'Auto, Small Truck, Van'** for the category (see fig. 79).

fig. 79

- Hy-	NO NEYS DESKO	op v20160129									
Â	HOME			TECI	STORE :	: 866-674-8 12345	3226		SETTING	is 🜔 H	ELI
			Auto, Small Tr Van	ruck,							
	CA Auto, Si	TEGORY mail Truck, Van	MAKE								
			- SHORTCU	TS							-
4	BACK 1	MAKE FO: SKIP	Chevrolet Chevrolet	Chrysler	Ford Ford	Honda	Hyundai	KIA Kia	Nissan	Toyota Toyota	_
			ACUPA Acura	Audi	BMW	Buick	Cadillac	CHEVROLET Chevrolet	Chrysler	Dodge	
			BOAD	Tord	GMC	HONDA	HUMMER	нушпоя	\mathbf{S}	Jeep	
			KIA	Ford		Honda	Hummer	Hyundai		Jeep	
			Kia	Lexus	Lincoln	Mazda	Mercedes-Benz Mercedes- Benz	MERCURY	Mini	Mitsubishi	
			NESSAN		PONTIAC	RB	CAVAVES	SATURN	\bigcirc		
	GOTO	RESULTS >>	Nissan	Oldsmobile	Pontiac	Ram	Saab	Saturn	Scion	Subaru	
	RESU	JLTS: 103	SUZUKI	ТОУОТА	Volkswagen						

• Choose the Make by clicking on the appropriate manufacturer logo or by typing it in the **'MAKE'** box on the left (see fig. 80).



You can add and remove vehicle make **'SHORTCUTS'** by right-clicking on an icon. You can have a maximum of eight shortcuts at the top of the screen.

ĥ	HOME		1	TECH SUPPORT : 866-674-8226 STORE : 12345	O HEL
	СНІРКЕ	EY DETECTED	Auto, Small Truck, Van	Chrysler	
	CA Auto, Si	NTEGORY mall Truck, Van	MODEL		
		MAKE Chrysler	200 300 Aspen		
	BACK	MODEL	Pacifica PT Cruiser		
-	MAK	E SKIP V	Sebring Convertin Sebring Sedan Town & Country		
	GOTO	RESULTS >>			
	RES	SHITS: 5			

• Choose the Model by clicking on it from the list or by typing it in the **'MODEL'** box on the left (see fig. 81).

fig. 81



fig. 82

• Choose the Year by clicking on it from the list or by typing it in the **'YEAR'** box on the left (see fig. 82).



NOTE:

If you are unsure about any of the information, click on **'GO TO RESULTS'** in the lower, left corner of the screen. However, the results will be more specific if you enter in all the information.

😸 Ну-Ко Ке	ys Desktop v20	160129						- 0 ×
🟦 но	ome <	BACK			TECH SUPPORT : 86 STORE : 12	56-674-8226 345		6 🜔 HELP
Searce Sort By	:h ⁄: ⊚ RANK (ALPHABETI	(AL	Auto, Small Truck, Van	Chrysler	Pacifica	2007	
D A-i	CLOSEST A CHRY300 CHRY552	AATCHES P	94 % 91 %	Click on a	match to view mo	re details.		

• Your list of possible keys for the vehicle chosen will be shown at the left (see fig. 83).

• The closest matches will be at the top ranked by percentage.

fig. 83



• Click on any key number to see the information on that particular key. An image of the blank and the cross section will be shown as well as other manufacturer part numbers and applications (see fig. 84).

• When you have chosen the correct key you need, click on the **'PROGRAM KEY'** button at the bottom of the screen.



• The software will switch to the I-Tool screen (see fig. 85).

• Insert the new A-Key into the I-Tool and click the **'NEXT'** button on the image of the I-Tool on the software.



NOTE:

For A-Keys, the customer's vehicle must be present to complete the programming procedure.

fig. 85



• The I-Tool will begin the process by initializing the new A-Key. This preps the key to be programmed (see fig. 86).





• When the key is fully initialized, you will have to cut it and then take it out to the vehicle to go through an on-board programming procedure (see fig. 87). At this point, you can remove the new A-Key from the I-Tool.



Before you can go any further in the programming procedure, you must cut the ChipKey, using the appropriate key cutting machine.



• Once the new A-Key is cut, go out to the vehicle and follow the programming procedure on the package of the key starting with step 3 (see fig. 88).





• After completing the on-board programming procedure at the vehicle, return to the software and click on the **'NEXT'** button to pick up the programming sequence where you left off (see fig. 89).

fig. 89



Hy-Ko Products Company Phone: (800) 896-7890 Fax: (330) 467-7442 E-Mail: cservice@hy-ko.com





• The I-Tool will connect to a server to finalize the coding process (see fig. 94). Do not touch the key at this time.







• When the programming is complete, there will be a green screen on the picture of the I-Tool on the software (see fig. 97). At this point, you can remove the new A-Key from the I-Tool.

• To return to the Results screen, click the **'NEXT'** button.



• Once you have completed cutting and programming the key you can return to the Vision Box to validate the cuts on the new blank in relation to the customer's key (see fig. 98).

• From the results screen click the **'VALIDATE CUTS'** button.

fig. 98

To follow the steps for validating the cuts of the newly cut key, refer to pages 28-30.

Scanning Vehicle Keys: P-GM504

continued from page 37.



• The I-Tool will read the customer's key (see fig. 99). You can see the progress on the picture of the I-Tool on the software.

fig. 99



• When I-Tool has completed reading the customer's key, the type of chipkey is displayed on the picture of the I-Tool on the software (see fig. 100).

номе		TECH SUPPORT : 866-674-8226 STORE : 12345	SETTINGS	O HEL
CHIPKEY DETECTED		Select the vehicle information,		
CATEGORY	CATEGORY			
SKIP 🔻				
	Auto, Small Truck, Van			
GOTO RESULTS >>				
-				

• Choose **'Auto, Small Truck, Van'** for the category (see fig. 101).

fig. 101



• Choose the Make by clicking on the appropriate manufacturer logo or by typing it in the **'MAKE'** box on the left (see fig. 102).

NOTE:

You can add and remove vehicle make **'SHORTCUTS'** by right-clicking on an icon. You can have a maximum of eight shortcuts at the top of the screen.

fig. 102

1	номе		1	FECH SUPPORT : 8 STORE : 1	366-674-8226 2345	SETTINGS	O HEL
	CHIPKEY DETEC	TED	Auto, Small Truck, Van	Chevrolet			
	CATEGORY Auto, Small Truck,	Van	MODEL				
			Avalanche				
			C1500				
	MAKE		C2500				
	Chevrolet		C3500				
	MODEL		Camaro				
	DACKTO		City Express				
1	BACK TO:	SKIP 🔻	Cobalt				
-	MAKE		Colorado				
			Corvette				
			Equinox				
			Express Van				
			HHR				
			Impala				
			K1500				
			K2500				
			K3500				
			Malibu				
			Malibu Maxx				
			Monte Carlo				
			Orlando (Canada))			
			Silverado				
			Spark				
			SS				
			Suburban				
			Tahoe				
			Traverse				
	GOTO RESULTS	>>	Trax				
			Volt				
	DECIUTE	3					

• Choose the Model by clicking on it from the list or by typing it in the **'MODEL'** box on the left (see fig. 103).

fig. 103

HOME		STORE : 12	6-674-8226 345	SETTINGS	O HELP
CHIPKEY DETECTED	Auto, Small Truck, Van	Chevrolet	Impala		
CATEGORY Auto, Small Truck, Van	VFAR				
	2013				
	2012				
MAKE	2011				
Chevrolet	2010				
Impala	2009				
YEAR	2008				
	2007				
BACK TO:	2006				
MODEL					
and the second sec					
GOTO RESULTS >>					

fig. 104

• Choose the Year by clicking on it from the list or by typing it in the **'YEAR'** box on the left (see fig. 104).



NOTE:

If you are unsure about any of the information, click on **'GO TO RESULTS'** in the lower, left corner of the screen. However, the results will be more specific if you enter in all the information.

		STORE : 123	345	SET SET	TINGS U HEL
Search 🛞 Sort By: 💿 RANK 🔿 ALPHABETICAL	Auto, Small Truck, Van	Chevrolet	Impala	2011	
CLOSEST MATCHES P-GM504 89%	Click on a n	natch to view mor	e details.		

• Your list of possible keys for the vehicle chosen will be shown at the left (see fig. 105).

• The closest matches will be at the top ranked by percentage.



NOTE:

Although the customer's key reads as a 300-series chipkey, the P-GM504 is the key to use due to its ease of programming compared to the 300-series chipkey.

fig. 105



• Click on any key number to see the information on that particular key. An image of the blank and the cross section will be shown as well as other manufacturer part numbers and applications (see fig. 106).



NOTE:

Different P-Keys have different programming instructions or no programming is available. Always check the instructions before cutting a P-Key.

• To check the programming instructions, click on the **'VIEW OBP INSTRUCTIONS'** button at the bottom of the software or reference the back of the P-GM504 package.

Hy-Ko Keys Desktop v20	150129 BACK TECH SUPPORT: 866-674-8226 STORE: 12345							
Sort By: O RANK	alphabetical	Auto, Small Truck, Van	Chevrolet	Impala	2011			
CLOSEST N	AATCHES		P-GM504					
	CBP Instruction	DNS	OBP: A	1	PRINT	ARD PROGRAMMING A YEAR		
	Requires 1 orig 1. Insert origin 2. Quickly turn 3. Remore key 4. Quickly inse the key has been Total 5. To verify pro-	jinal castomer key. al key into ignition. I ginition to ON (do not start from ignition. et a property cut new key and en successfully programmed lapared time: J SECONDS gramming, remove key fror	tengine), and then to OFF. turn to ON position. The se maximum n Ignition. Re-insert key and	curity light will go out after : I start engine.	2 SECONDS indicating	ORDER NUMBER VEW CHANICAL KEY		
		VALIDATE	PROGRAM	VIEW OBP				

• A pop-up window will appear showing the on-board programming (OBP) instructions for the P-GM504 (see fig. 107). You can either write them down or click the **'PRINT'** button in the top, right corner of the pop-up window to print the instructions.

• Follow these instructions at the vehicle to program the P-GM504. Once complete, the key is fully programmed.

Once you have determined the correct key blank to choose, and that it can be programmed at the vehicle, you can remove the customer's key. If you have the key blank you need in stock you are now able to cut it using the appropriate key cutting machine.



🖷 Hy-Ko Keys Desktop v20160129										
🕋 номе 🤇 васк						TECH SUPPORT STORE	ø	SETTINGS O HELP		
Sort B	rch By: O RA	NK •			Auto, Small Truck, Van	Chevrolet	1	mpala	2011	
P	CLOSEST MATCHES					P-G	M504			
	01-100		1.5	7.70	ChipKey Progra	ms at Vehicle	JAW SETT	TING PTIONAL	CUTTING ADAPTOR WB-CUT1	ON-BOARD PROGRAMMING A
						FILTER	D APPLICA	TIONS		
							USE	MAKE	E MO	DDEL YEAR
						ALTERN	ATE MADU	NCS		
						ALIER	ALE MARKI	NGS		ORDER NUMBER
										VIEW MECHANICAL KEY
					VALIDATE CUTS	PROGRAM KEY	VII INSTI	EW OBP RUCTIONS		

• Once you have completed cutting the key you can return to the Vision Box to validate the cuts on the new blank in relation to the customer's key (see fig. 108).

• From the results screen click the **'VALIDATE CUTS'** button.

fig. 108

To follow the steps for validating the cuts of the newly cut key, refer to pages 28-30.

Scanning Other Vehicle Keys



- When scanning a customer's key that has a chip in it and it requires a P-Key other than the P-GM504, you must make sure that you can still program the new key.
- In some cases the on-board programming procedure requires that two original, working keys be present to program the new key to the vehicle (see fig. 109). If the customer doesn't have two original working keys, they will have to go back to a dealership to get a new key.

fig. 109



• There are instances where the only key listed will be a DEALER key. In this case, there is no aftermarket key and/or programming procedure available so the customer will have to go back to the dealership to get a new key (see fig. 110).



Apps



• On the main screen of the software, there are four app buttons at the bottom (see fig. 111).

fig. 111



• The **'I-TOOL'** app allows you to do only the ChipKey reading and programming portion of the sequence (see fig. 112).



Apps



• The **'DATABASE LOOKUP'** app allows you to look up a key blank using usage/application information (see fig. 113).

fig. 113

😑 Hy-	Ko Keys Desktop v20160218		_ D X
⋒	HOME	TECH SUPPORT : 866-674-8226 STORE : 28888	SETTINGS OF HELP
7	8		
s	ort By: 🔵 RANK 🧿 ALPHABETICAL		
	CLOSEST MATCHES		
B	DEALER		
	1125G		
.	1127D		
•	1127FD		
	1701G	Click on a match to view more details.	
•	1703K		
.	1705K		
•	1705		
	1764P		
•	1764S		
•	1766S		
•	1767CH		
•	1793V		
	1794V		
•	1796V		
•	62FS		
•	62FT		
	62HF		
	63PX		
	705		
	88-20KB		
	88-25KB		
A	88'3UKB		

• The **'PART NUMBER LOOKUP'** app allows you to look up a key blank using any portion of a part number (see fig. 114).

Apps



• The 'VALIDATE CUTS' app allows you check the cuts between two already cut key blanks (see fig. 115). You start by inserting the first cut key blank into the Vision Box and then click the 'VALIDATE CUTS' button on the main screen.

fig. 115



Settings



• The **'SETTINGS'** button in the upper, right corner of the main screen will take you to the configuration and setup screens (see fig. 116).

fig. 116



• The 'GENERAL' tab allows you to change basic items such as language, store number, what equipment is used, proxy settings and automatic updates (see fig. 117).


Settings

😁 Hy	y-Ko Keys Desktop	v20160218	
â	номе	TECH SUPPORT : 866-674-8226 STORE : 28888	O HELP
	SETTINGS	I-TOOL COM PORT Communications Port (COM1) Intel(R) Active Management Technology - SOL (COM3) Integrated I-Tool	
	GENERAL		
SI			
I			
	DONE	CHECK FIRMWARE Version: ??? UPDATE FIRMWARE	
	DONE		

• The **'I-TOOL'** tab allows you to check the firmware of the I-Tool as well as change the communication port (see fig. 118).

fig. 118



• The 'VISION BOX' tab is where you can calibrate and test the Vision Box. This process is the same as what was shown in the 'Initial Setup' section of this manual (see fig. 119).







Help



• The **'HELP'** button in the upper, right corner of the main screen will bring up four buttons in the center of the main screen (see fig. 120).

fig. 120



• The **'ABOUT'** button will bring up a disclaimer and show you the software version as well as the database version (see fig. 121).

fig. 121

Help



• The **'HYKOKEYS.COM'** button will launch an internet window and open the hykokeys.com website (see fig. 122).

1 2 3 4 5	Click 'START' to verify all domains are available from this constraints of the second se	© SETTING	S O HELF
1 2 3 4 5	Click 'START' to verify all domains are available from this con www.hykokeys.com - PORT 80 - Required for automatic updates, used to verify access to internet, and allows you to find the most up-to-date information on Hy-Ko's key programs. Illegra01.keyline.it - PORT 443 - International lookup Server. Required to clone 150 series (TK40) and 300 series (TK60) keys. Provides lookup Server. Required to clone 150 series (TK40) and 300 series (TK60) keys. Provides lookup Server. Required to clone 150 series (TK40) and 300 series (TK50) keys. Provides lood balancing and redundant backup to other lookup servers if not available. Simulated 150 Series Lookup. Connection to Internet.	mputer.	
1 2 3 4 5	www.hykokeys.com - PORT 80 - Required for automatic updates, used to verify access to internet, and allows you to find the most up-to-date information on Hy-Ko's key programs. IIIIegra01.keylIne.it. PORT 443 - International Lookup Server. Required to clone 150 series (TK40) and 300 series (TK60) keys. Provides load balancing and redundant backup to other lookup servers if one is not available. IIIEgra02.hy-ko.com - PORT 443 - Domestic Lookup Server. Required to clone 150 series (TK40) and 300 series (TK50) keys. Provides load balancing and redundant backup to other lookup servers if one is not available. Simulated 150 Series Lookup. Connection to Internet.		
2 3 4 5	Ultegra01.keyline.it. PORT 443 - International lookup Server. Required to clone 150 series (TK40) and 300 series (Titer) keys Brookulo lood balancing and redundant backup to other lookup servers if one is not available. ultegra02.by-ko.com - PORT 443 - Domestic Lookup Server. Required to clone 150 series (TK40) and 300 series (TK60) keys. Frorides and balancing and redundant backup to other lookup servers if one is not available. Simulated 150 Series Lookup. Connection to Internet.		
3 4 5	ultegra02.hy-ko.com - PORT 443 - Dometic Lookup Server Required to clone 150 series (TK40) and 300 series (TK50) keys. Frondes ada balancing and redundant backup to other lookup servers if one is not available. Simulated 150 Series Lookup. Connection to Internet.		
4 5	Simulated 150 Series Lookup.		
5	Connection to Internet.		
6	LAN and Proxy Settings in 'Control Panel:Internet Options'		
7	Proxy Settings		
8	PC and/or Proxy Server Connection to Port 80		
9	PC and/or Proxy Server Connection to Port 443		
	START		
	9	9 PC and/or Proxy Server Connection to Port 443 START	9 PC and/or Proxy Server Connection to Fort 443

• The **'NETWORK DIAGNOSTICS'** button will allow you to run a diagnostic analysis of your computer network with respect to the needs of this software program (see fig. 123).



Help



• The **'DOCUMENTS'** button will open a window showing you all the documents that you can click on and open pdf files of (see fig. 124).

fig. 124



KZV-MP0047 0316



