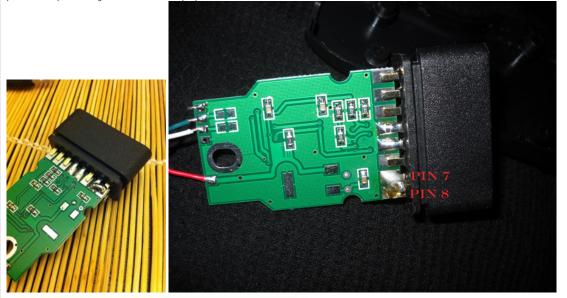




When you receive the cable, some pins will need to be modified (soldered together) to bridge the K connections so it can talk to our E46. Pins 7 and 8 need to be bridged. Open the OBD2 end of the cable by removing 2-4 screws. Heat up the soldering gun and dab a little solder to connect the two pins, as seen in the photos. The pinout diagram will shows the proper OBD2 connector orientation.

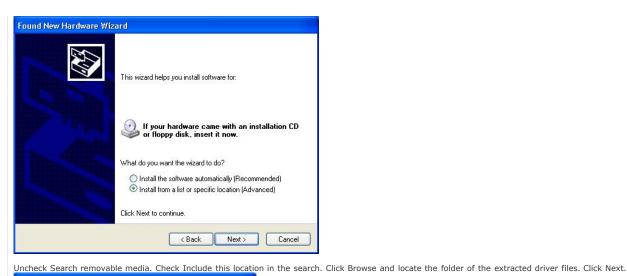


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Here are the drivers needed to get XP to talk to the cable. CDM 4.2.1916 WHQL certified Extract them to the desktop. Plug the cable into the USB port. Found New Hardware Wizard should pop up. Click Not at this time. Click Next. Found New Hardware Wizard



Click Install from a list or specific location, and Next.





The Found New Hardware Wizard will pop up again. Repeat the same process above.

< <u>B</u>ack

Finish

Cancel

Now we need to modify the driver settings. Go to Start -> Control Panel -> System Click the Hardware tab

Sustem	Restore A	utomatic Updates	Remote
General	Computer Name		Advanced
		System:	
		Microsoft Windows	XP
		Professional	
		Version 2002	
		Service Pack 3	
1.1		Registered to:	
_			
		_	
		Computer:	
		Intel(R) Core(TM)2 P8600 @ 2.40GH	
		2.39 GHz, 2.72 GB	
		Physical Address E	
			n i e e
	L	OK Cancel	Appl
	Manager erties		[?]
m Prop	erties	utomatic Undates	Remote
m Prop System	erties Restore A	utomatic Updates	Remote
e <mark>m Prop</mark> System	erties	and the second s	Remote Advanced
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m Prop System General Device M	Restore Ai Computer Name anager The Device Manager Iis	Hardware	Advanced
m Prop System General Device M	erties Restore Au Computer Name anager The Device Manager lis on your computer. Use	Hardware Hardware device the Device Manager to ch	Advanced
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m Prop System General Device M	erties Restore Au Computer Name anager The Device Manager lis on your computer. Use	Hardware Hardware device the Device Manager to ch	Advanced s installed ange the
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m Prop System General Device M.	Restore Au Computer Name anager The Device Manager Ii on your computer. Use properties of any device Driver Signing lets you r	Hardware Hardware device the Device Manager to ch . Device Ma make sure that installed driv	Advanced s installed ange the nager
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em Prop System General Device M.	Perties Restore Av Computer Name anaget The Device Manager li on your computer. Use properties of any device Driver Signing lets you r compatible with Window	Hardware Hardware device the Device Manager to ch Device Ma make sure that installed dri vs. Windows Update lets y	Advanced s installed ange the nager vers are ou set up rivers.
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m Prop System General Device M.	Restore Av Computer Name anager The Device Manager li on your computer. Use properties of any device Driver Signing lets you r compatible with Window how Windows connect: Driver Signing Profiles	Hardware Hardware Hardware Hardware the Device Manager to ch Device Manager to ch Device Manager to ch State of the transference Device Manager to ch Device Manager to ch Device Manager to ch Device Manager to Windows Update for d Windows Update for d Windows Update for d Device Manager de a way for you to set up o	Advanced s installed ange the nager vers are ou set up rivers.
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Within Ports (COM & LPT), there should be an entry for USB Serial Port (COM#). Double click it.

🗳 Device Manager 📃 🗖 🚺
File Action View Help
-PC Batteries Ba
Click the Port Configuration tab and click Advanced
USB Serial Port (COM1) Properties
General Port Settings Driver Details
Bits per second: 9600
Parity: None
Stop bits: 1
Flow control: None
Advanced Restore Defaults
OK Cancel

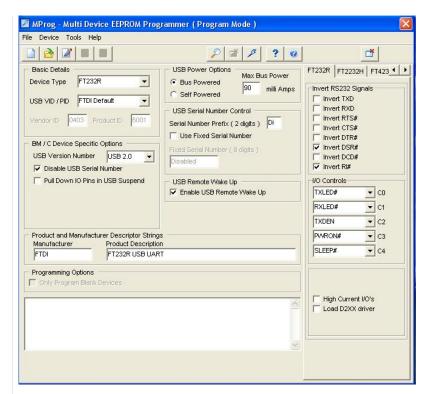
Change the COM# to COM1, and change the Latency to 1ms. Click OK in every box to get back to the desktop.

vanced Settings for CO	M1		? 🔀
COM Port Number:	COM1		ОК
USB Transfer Sizes			Cancel
Select lower settings to corr	ect performance problems at lov	v baud rates.	Defaults
Select higher settings for fa	ster performance.		Deraults
Receive (Bytes):	4096		
Transmit (Bytes):	4096 🔽		
BM Options		Miscellaneous Options	
Select lower settings to corr	ect response problems.	Serial Enumerator	
Latency Timer (msec):	1	Serial Printer	
		Cancel If Power Off	
Timeouts		Event On Surprise Removal	
Minimum Read Timeout (ms	ec): 0 🗸	Set RTS On Close	
Minimum Write Timeout (ms	ec): 0 🗸	Disable Modem Ctrl At Startup	

Now we need to modify the EEPROM on the FT232RL chip to communicate properly with our car. Download MProg 3.5 and extract it to the desktop. Open it and go to Tools -> Read and Parse. The cable should pop up.

Device Tools Help		
Read Read and Parse	P 🖆 🗡 ? 🔞	ď
Jasic Detal.	USB Power Options Max Bus Powered Description Max Bus Power Max Bus Powered Max Bus Powered Max Bus Powered Max Bus Powered Max Bus Powered Max Bus Power Max Bus	FT2232C/D Options FT232
Product and Manufacturer Descriptor Strin Manufacturer Product Descripti FTDI USB <-> Serial C Programming Options	nc	
Togramming Opuons	<u></u>	

Next, check Invert DSR#, check Invert RI#. Click the Save icon and save it somewhere. Click the Flash icon (lightning bolt) and you should see a successful programming in the bottom field.



Info taken from http://forums.bimmerforums.com/forum....php?t=1505990

Last edited by spencers: 03-23-2011 at 10:23 AM.



03-22-2011 12:57 PM		#2
Spencers ° Enforcer	Join Date: Location: My Ride: Posts:	Dec 1969 Texas 2001 325Ci ZSP 706

EDIABAS/INPA

This is the main software that is used to get initial connectivity with the VAGCOM cable. Again, I will not delve into what you can do with the software itself, but Simply how to get it installed and operating so DO SO AT YOUR OWN RISK!. You cannot go any further with DIS or SSS without EDIABAS correctly configured, working, and talking with your E46.

You'll need:

- ediabas-6.4.3-full.nrg Password: zhpmafia
- Daemon Tools Lite • Working VAGCOM cable from (Post 1)

For the entirety of this tutorial, you should have your antivirus and firewall disabled.

First and foremost, go to Start -> Control Panel -> System. Click the Advanced tab.

Reply With Quote

Reply



Then click the Environment Variables button

System Re	store	Automa	itic Updates	Remote
General	Compu	iter Name	Hardware	Advance
Performance				t of these changes nd virtual memory
User Profiles	ings related	to your logon		Settings
Deskiop seu	ings related	to your logon		Settings
Startup and P	Recovery			
System startu	up, system fa	ailure, and deb	ugging informati	on
				Settings
	En	vironment Vari	ables E	rror Reporting

Find the Path system variable, click it, and click the Edit button

Variable	Value
TEMP	C:\Documents and Settings\Spencer\Lo
TMP	C:\Documents and Settings\Spencer\Lo
	New Edit Delete
vstem variable Variable	s Value
Variable FP_NO_HOST NUMBER_OF_	Value
Variable FP_NO_HOST NUMBER_OF_ OS	Value 2 _C NO P 2 Windows_NT
	Value

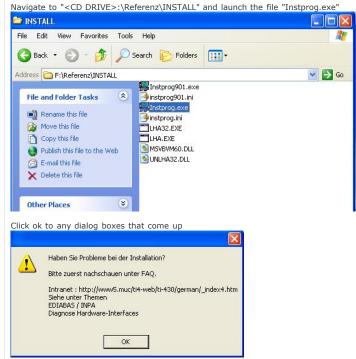
At the end of the Variable value, add a semicolon, and add "C:\EDIABAS\Bin"

Press	all t	the	ΟК	buttons	until	you're	back	to	the	desktop

Edit System Var	iable ? 🔀
Variable name:	Path
Variable value:	Root%\System32\Wbem;C:\EDIABAS\Bin
	OK Cancel

Now to begin the install. I assume you have already installed Daemon Tools Lite. Drag the ediabas-6.4.3-full.nrg file to Daemon Tools, then right click it within Daemon Tools and mount the image.

	Mount	annostic)ediabas-6.4.3-full\ediabas-6.4.3-full.r
	Add File	
	Remove Item(s)	
B	Open Containing Folder	
0	Properties	
۲	Burn Image to Disc	
a	Lookup Ctrl-F	-
-		1
	▶ ■ G <	ç 🤿 💽 🚱 🈂 0 🛔

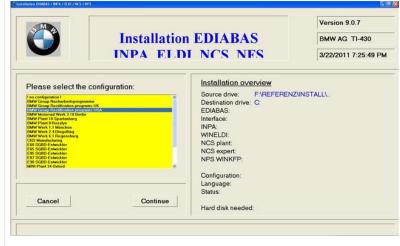


Select English. Press Continue.



Select BMW Group Rectification programs USA and press Continue.





Place check marks on the Complete options for EDIABAS and INPA. Press Continue.

MA					Version 9.0.7
	1	nstallatio	n EDIABA	S	BMW AG TI-430
	I	NPA ELT	DI NCS NI	FS	3/22/2011 7:26:34 PM
EDIABAS	6.4.3	Complete □ Update	Installation ove	erview	
INPA	4.4.7	Complete	Source drive: Destination drive:	F:\REFERENZ\IN C:	ISTALL\.
WINELDI	2.61	Complete	EDIABAS: Interface:	Complete	
NCS plant	3.0.5	Complete	INPA: WINELDI:	Complete	
NCS expert	3.0.8	Complete	NCS plant: NCS expert:		
NFS WINKFP	4.2/4.2	Complete	NPS WINKFP:		
			Configuration: Language:	English	tification programs USA
Cancel		Continue	Status: Hard disk needed	User Runtime package	i l

Select OBD as the interface and press Continue.

Installatio	n EDIABA	S	BMW AG TI-430
	DI NCS NI	~	3/22/2011 7:27:37 PM
Please select the interface	Installation ove	arview	
 OBD (on board diagnostic plug) ADS (active diagnostic plug) FUNK EDIC EDICC (CAN - Bus) 	Source drive: Destination drive: EDIABAS: Interface: INPA: WINELDI: NCS expert: NCS expert: NPS WINKFP:	F:\REFERENZ\ C: Complete STD:OBD Complete	INSTALL\.
Cancel Continue	Configuration: Language: Status: Hard disk needed	English User Runtime packag	ctification programs USA ge

Press End when the installation has completed. The program may freeze for a few seconds, so don't be alarmed. If you get any errors before clicking End, it's because you didn't properly add the Environment Variable as listed above.

a 🔀



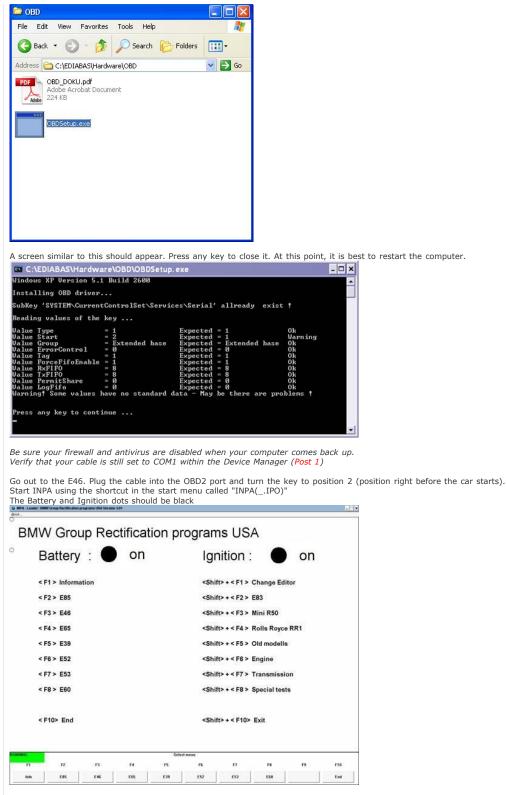
Now let's set up EDIABAS to talk to the cable. Navigate to "C:\EDIABAS\Bin" and open EDIABAS.ini with Notepad.

😂 Bin		
File Edit View Favor	ites Tools Help	1
🚱 Back 🝷 🕥 👘	🏂 🔎 Search 🌔 Folders	•
Address 🛅 C:\EDIABAS\B	in	👻 🛃 Go
🕙 ApiVB.dll	🖄 can32.dll	ETES
🖻 B2BMW.LIB	🔊 can.dll	ETES
🖬 B2Runtim.lib	🔊 candrv32.dll	🖬 F373
Best1.exe	🔊 Cankwp32.dll	S FUNK
Best2.exe	🕙 Canrttp2.dll	S FUNK
Best2Win.exe	🔊 canrttp32.dll	📑 FUNK
Best2Win.hlp	🔊 Canrttp.dll	🛅 GRID
🚮 BestBd32.exe	📴 Canrttp.ini	JFHS
BestBrd.exe	CMDIALOG.VBX	🔁 INI. p
BestInfo.exe	🔊 Ebas32.dll	JobL
BestVer.exe	Ebas32.exe	🛅 JobL
🛿 BestView.exe	EbasX32.exe	🔊 kbus:
BestView.hlp	EDIABAS.INI	🔊 kbus
🖉 Best Vw32.exe	n EdiabasW.exe	SKVP_
BestVw32.hlp	EMEDIT. VBX	🖏 KypC
<		>

Locate the line for "RemoteHost" and "Port" and adjust the value to "192.168.68.1" and "6801" Then save and close the file.

📕 EDIABAS. INI - Notepad	
File Edit Format View Help	
: TCP/IP Configuration [TCP] ;	
; ; RemoteHost ; Description : server address/name ; Default = RemoteHost = 192.168.68.1	-
; ; Port ; Description : IP communication port ; value : 1000 < port < 30000 ; Default = Port = 6801	-
; ;TimeoutConnect	
<u> </u>	2
	Ln 296, Col 3

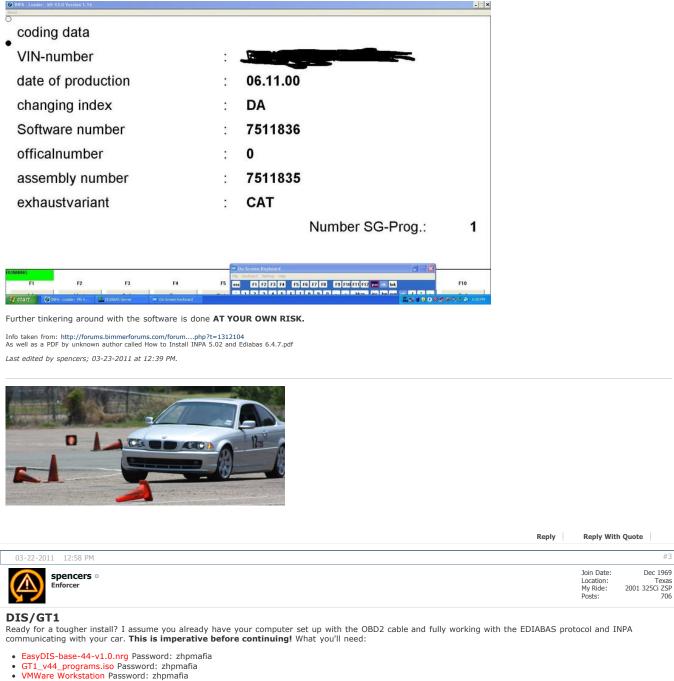
Navigate to "C:\EDIABAS\Hardware\OBD" and launch launch the file "OBDSetup.exe"



Press F3 for E46, click Engine, and find your DME.

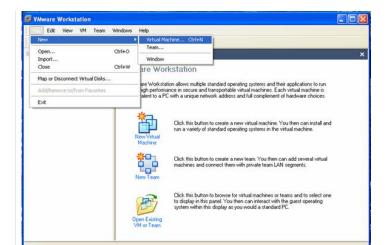
ZHP is MS45 (if I recall) ZSP is MS43.

If successful, you should get an info screen up with infos about your car.



- Daemon Tools Lite
- Working VAGCOM cable from (Post 1)
- Working EDIABAS/INPA install from (Post 2)

Install VMWare Workstation as normal. Open VMWare and create a new virtual machine.



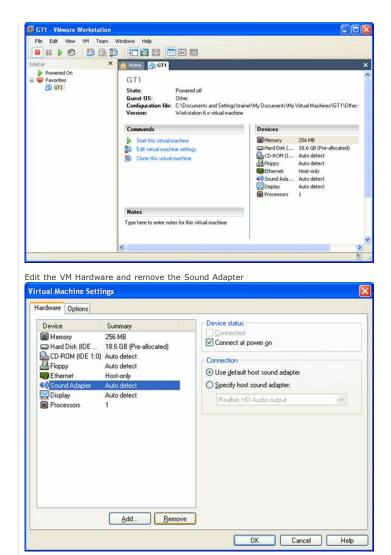
	opropriate Configuration Id you prefer to configure your new virtual machine?
options. This Work: 3.x, Server O <u>C</u> ustom Choose thi devices or	e configuration ew virtual machine with the most common devices and configuration station 6.x virtual machine will not be compatible with ESX Server 1.x, ACE 1.x, Workstation 5.x or older versions. s option if you need to create a virtual machine with additional specific configuration options, or if you need to create a virtual th specific hardware compatibility requirements.
	< <u>₿</u> ack <u>N</u> ext> Cancel
w Virtual M	achine Wizard
Select a Gu	
w Virtual M Select a Gu	achine Wizard est Operating System erating system will be installed on this virtual machine? g system gindows Ware
w Virtual M Select a Gu Which op Guest operatin O Microsoft ⊻ Linux Dirux Sun Solaris O Dither Version	achine Wizard est Operating System erating system will be installed on this virtual machine? g system gindows Ware
w Virtual M Select a Gu Which op Guest operatir O Microsoft ⊻ Linux O Novgll Net O Sun Solaris O Bther	achine Wizard est Operating System erating system will be installed on this virtual machine? g system gindows Ware

Name the VM "GT1"

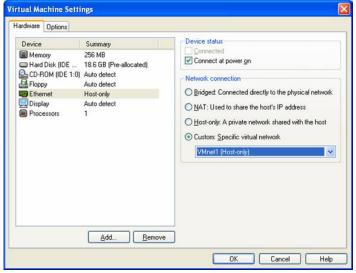
Name the Virtual What name wo	Machine uld you like to us	e for this virtua	machine?	
<u>V</u> irtual machine nam	•			
GT1				
Location				
C:\Documents and	Settings\trainer\#	ly Documents'	My Virtual M	Browse

letwork connection	
The guest must have i	ng system direct access to an external Ethernet network. its own IP address on the external network.
	ranslation (NAT) ng system access to the host computer's dial-up or vork connection using the host's IP address.
Use host-only networki Connect the guest ope computer.	ing erating system to a private virtual network on the host
Do not use a network (connection
	< Back Next> Cancel
r 18.635 as the h	
	hard drive size, and select allocate disk space
v Virtual Machine W	hard drive size, and select allocate disk space
v Virtual Machine W Specify Disk Capacity How large do you wa	hard drive size, and select allocate disk space
v Virtual Machine W Specify Disk Capacity How large do you wa Disk capacity	hard drive size, and select allocate disk space
v Virtual Machine V Specify Disk Capacity How large do you wa Visk capacity his virtual disk can never Disk size (GB): 1	Anard drive size, and select allocate disk space Vizard y ant this disk to be? It be larger than the maximum capacity that you set here. 18.635
v Virtual Machine V Specify Disk Capacity How large do you wa Visk capacity 'his virtual disk can never Disk size (GB): 1 2 Allocate all disk space	r be larger than the maximum capacity that you set here.
v Virtual Machine V Specify Disk Capacity How large do you wa Disk capacity 'his virtual disk can never Disk gize (GB): 1 Allocate all disk space By allocating the full cr your virtual machine. 1	Anard drive size, and select allocate disk space Vizard y ant this disk to be? It be larger than the maximum capacity that you set here. 18.635
v Virtual Machine W Specify Disk Capacity How large do you we visk capacity his virtual disk can never Disk size (GB): 2 Allocate all disk space By allocating the full c your virtual machine. I be enough space on tt If you do not allocate o	Aard drive size, and select allocate disk space Vizard y ant this disk to be? It be larger than the maximum capacity that you set here. 18.635 now apacity of the virtual disk, you enhance performance of However, the disk will take longer to create and there must
v Virtual Machine V Specify Disk Capacity How large do you we Visk capacity his virtual disk can never Disk size (GB): 2 Allocate all disk space By allocating the full c your virtual machine. I be enough space on tt If you do not allocate o	Anard drive size, and select allocate disk space Vizard y ant this disk to be? to be larger than the maximum capacity that you set here. 18 635 now apacity of the virtual disk, you enhance performance of However, the disk will take longer to create and there must he host's physical disk. disk space now, your virtual disk files will start small, then add applications, files, and data to your virtual machine.

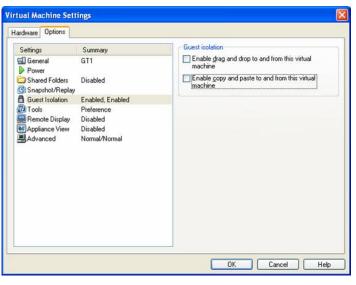
Click Finish and the VM is created.



Adjust the Network Adapter to use VMNet1 (host only)



Switch to the VM Options tab and uncheck drag-and-drop from Guest Isolation



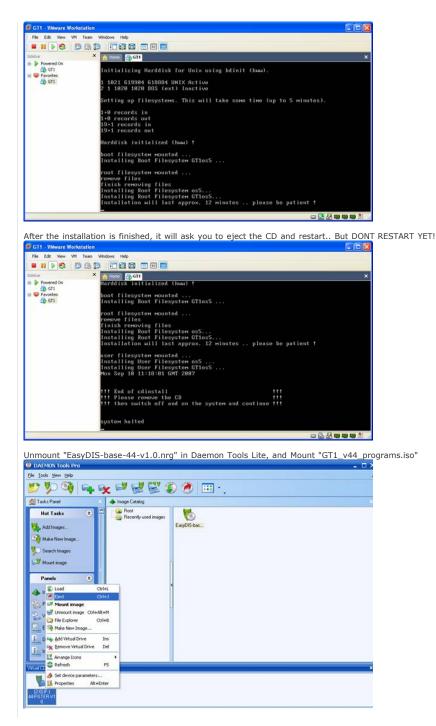
Mount "EasyDIS-base-44-v1.0.nrg" in Daemon Tools Lite

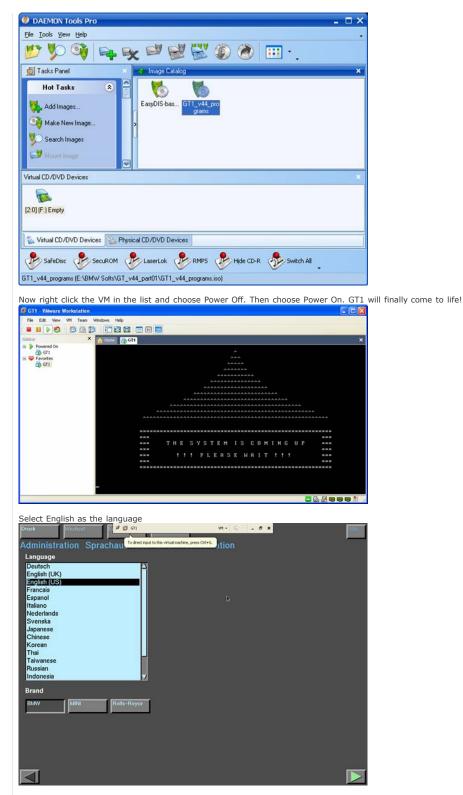


Edit the CD Drive of the VM to use the Daemon Tools drive (F: in this case)

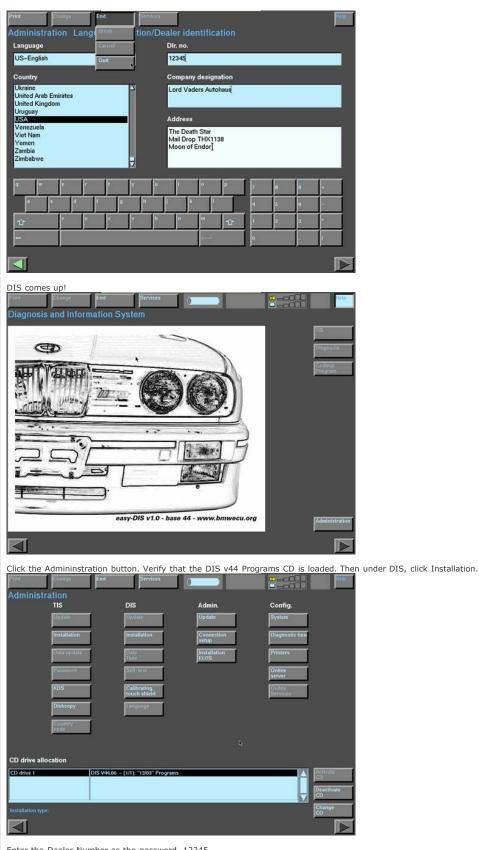


Start the VM. It will reboot once after installing the kernel, then GT1 will install.



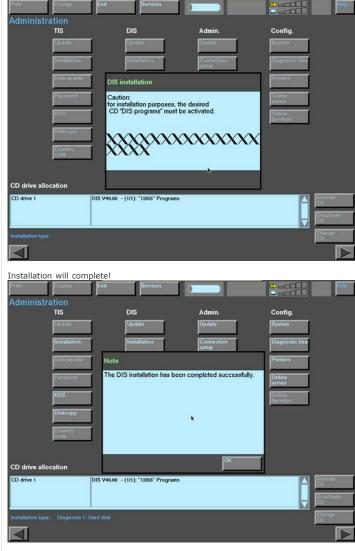


Select USA as the country, and enter 12345 as the Dealer Number. Fill in the rest with whatever you'd like. After entering in everything, click the End button and select Quit.



Enter the Dealer Number as the password. 12345

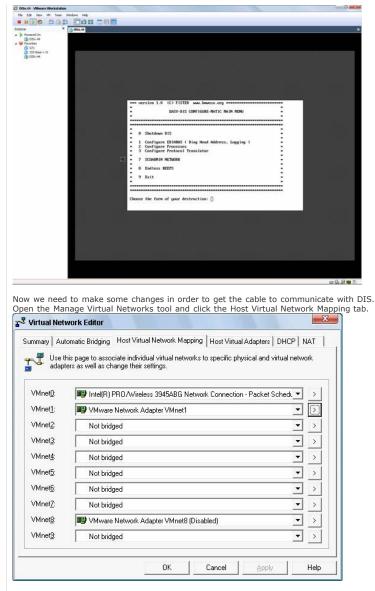
Wait a while....



Now we need to safely power off DIS. Click the Calibrating touch Shield button

ar 3	D 20000					
Powered On	(D) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C					_
DEDv.44 Favorites						
GT1 2 555 date v. 31						
555 8 ase v. 31 DISv.##	Print	Clinenge	Kod Services			11
	-					
	Adminis					
		TIS	DIS	Admin.	Config.	
		Opdate	Update	Update	System	
			161		22	
		Installation	Asstallation	Connection	Diagnostic hear	
				setup		
		Elata soldata	Date	ELOS	Pristers	
			Time	ELOS		
		Passwert	Self-text		Online	
					server	
		KDS	Calibrating touch shirld		Conternal Conter	
		Diskcopy	Language			
		C UNITY				
	CD drive a	llocation				
	and the second					_
	CD drive 1	- Inc	st active			
					and the second se	
						11th
	The second second second	and the second second	1. Mar.		Course in the local sector of the local sector	-
	Installation 2				0	
					0	2.6
					0	Q. 8
e in the l	Dealer Nu	mber as th	e password: 12	0345	0	Q. 4

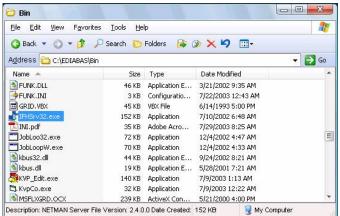
Now Press 0 to Shutdown DIS. You may also now unmount the DIS v44 Programs cd from Daemon Tools Lite. You should ALWAYS shut down DIS via this method.

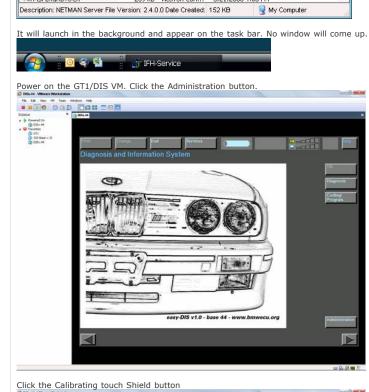


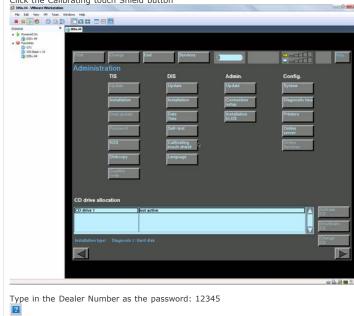
Under VMNet1, click the arrow and click Subnet...

• >	
▼ Subnet ▼ > ▼ >	
Enter 192.168.68	.0 as the IP Address and press OK.
IP <u>A</u> ddress:	192 . 168 . 68 . 0
<u>S</u> ubnet Mask:	255 . 255 . 255 . 0
	Cancel

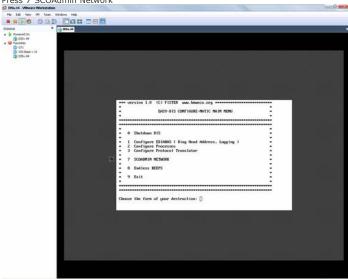
Navigate to "C:\EDIABAS\Bin" and launch IFHSrv32.exe *Make sure your firewall/antivirus is disabled!*







Press 7 SCOAdmin Network



Apologies, currently no screen shots available yet

A window will pop up showing 2 green driver icons. At the top of the screen will be the SCO TCP/IP Loopback driver. DO NOT TOUCH THIS DRIVER!

Below that, you'll see a second driver, the AMD PCNet-PC1 Adapter Compatible -PC1 Bus#0, Device#17, Function#0. Click it and from Hardware menu, click Remove network device.

Now, go to the Hardware menu and click Add new LAN adapter. A window will pop up showing AMD PCNet-PC1 Adapter Compatible devices found on your computer. Click it and then Yes to add the new adapter.

Choose SCO TCP/IP as the protocol.

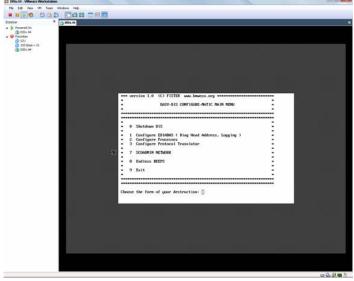
Change Local Host Name to: gt1ap

Change IP Address to 192.168.68.30

Everything else should automatically populate: Netmask: 255.255.0 Broadcast Address 192.168.68.255 TCP connections and Pseudo ttys lines. Click OK to accept.

Go to the Hardware menu and click Exit. A window will pop up for you to relink the kernel due to the changes you made. Choose Yes.

A black window will pop up asking you again to relink the kernel. Choose Yes to all prompts. The VM will reboot. Follow the instructions above to get back to this window. Press 7 SCOAdmin Network

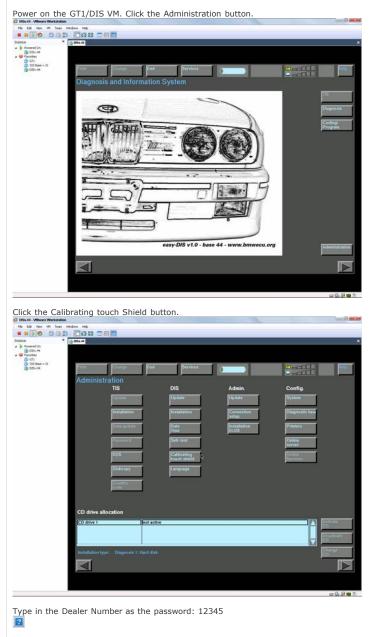


Click somewhere in the screen and press CTRL+Print Screen(SysRq) to access the UNIX command line.

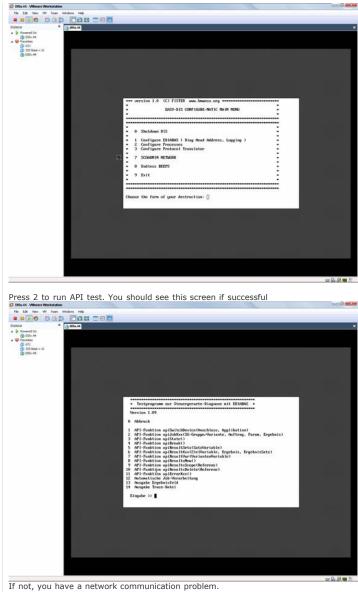
At the login prompt type root

Type: :wq Now type: init 0

DIS should shut down.



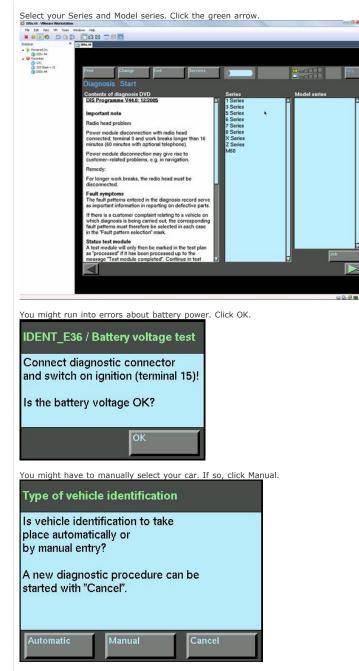
Press 1 to Configure EDIABAS.



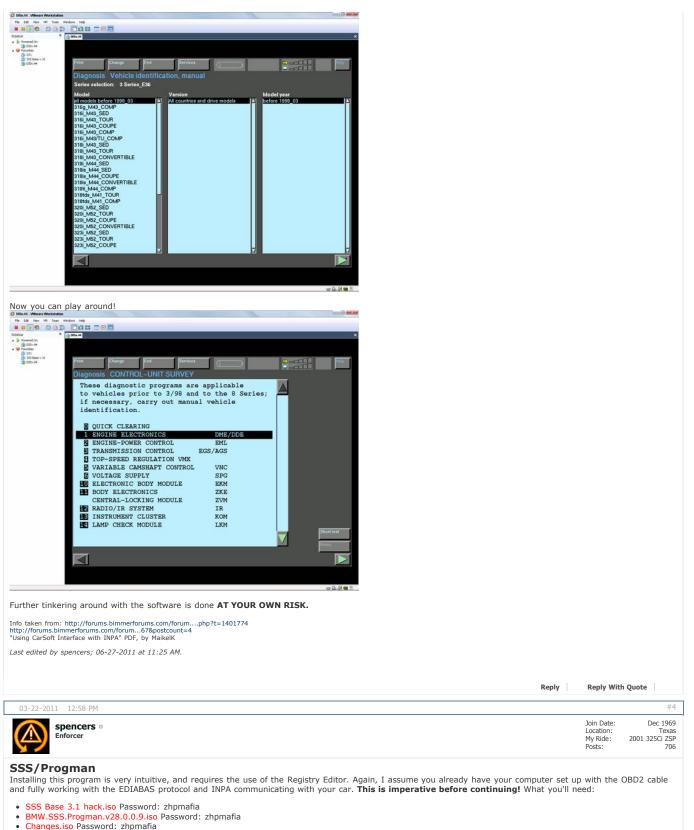
Exit the screen by pressing 0. When back to the main screen, press 9 to Exit.

DIS Will come back up. Connect the OBD2 cable to your car. Click the Diagnosis button.

DISe.44 - VMware Workstation		19:0 -0
file Edit Very VII Team V		
Powered On DEDr.44 Pavorites	9 Min. Al	
(2) 671 (2) 555 8669 v.31 (2) DEV-+4	Diagnosis and Information System	
	•	15 Diagnosis
		Codingi Program
	easy-DIS v1.0 - base 44 - www.bmwecu.org	Administration



Choose your car and click the green arrow.



- VMWare Workstation Password: zhpmafia •
- Daemon Tools Lite
 Working VAGCOM cable from (Post 1)
- Working EDIABAS/INPA install from (Post 2)

If you don't already have VMWare Workstation installed, install it as normal. Open VMWare and create a new virtual machine. Select Typical.



Select the operating system: Microsoft Windows, and select the version: Windows XP.
New Virtual Machine Wizard

Guest opera			
Microsof	<u>W</u> indows		
C Linux C Novell N	eħ//are		
C Sun Sola			
C Other			
Version			
Windows X	Professional		_

Give the virtual machine a name. SSS Progman is fine. Next, select Use host-only networking.

	twork connection
*	Use bridged networking
	Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.
e	Use network address translation (NAT)
	Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.
•	Use host-only networking
	Connect the guest operating system to a private virtual network on the host computer.
~	Do not use a network connection

Set your disk size to 80 GB. You don't need to allocate all disk space now.

Disk capacity					
This virtual disk can nev	er be larger than	the maximum	capacity that y	ou set here.	
Disk <u>s</u> ize (GB):	80 ÷				
Allocate all disk space	e now.				
By allocating the full your virtual machine. be enough space or	However, the di	sk will take k			st
lf you do not allocate become larger as yo					
Split disk into 2 GB f	les.				
	<	Back	Finish	Cancel	1
VM is created!					
SSS Progrman - VN	ware Worksta	ation			
Service and the service of the servi	an USedawa Mal	p			
le Edit View VM Te	SH WINDOWS DO				

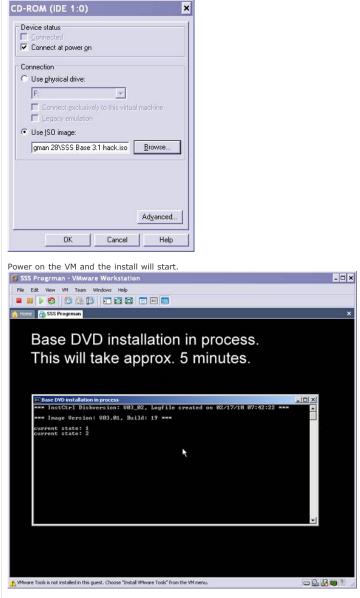


- 🗆 🗙

Now, edit the VM and remove the USB controller and the Sound Adapter. Increase the Memory to 1gb. Adjust the Network Adapter to use VMnet1 (Host-only)

Device	Summary	Device status Connected
Hard Disk (IDE	1024 MB 80.0 GB	Connect at power on
CD-ROM (IDE 1:0)	Auto detect Auto detect	Network connection
Ethernet	Custom	☐ Bridged: Connected directly to the physical network
Display	Auto detect 1	<u>NAT</u> : Used to share the host's IP address <u>Host-only:</u> A private network shared with the host C Lustom: <u>Specific virtual network</u> <u>VMnet1 (Host-only)</u>
	Add <u>R</u> emove	

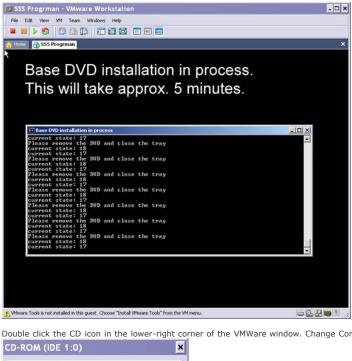
Edit the CD drive to Use ISO image: SSS Base 3.1 hack.iso



×

When it completes, it will ask you to eject the CD.





Double click the CD icon in the lower-right corner of the VMWare window. Change Connection to Use physical drive.

Connec • Use	tion physical drive:			
E:		-		
	Connect <u>e</u> xclus		rtual machi	ne
	egacy emulati ISO image:	on		
0.056	jou inage.		Brok	vse
1.				

Power off the VM, then power it back on. The installation will begin. If the installer asks you for the Progman installation disk, press cancel!

e Edit	View VM Team Windows Help	
80 🕨	🧐 🖂 🖾 📄 🖬 🖬 🖬 🖾	
lome 🛅	sSS Progrman	
	Durance last listing	_
	Progman installation	
	Please insert Progman-DVD! Installation starts automatically,	
	<u>k</u>	
	Progress	

When complete, power off the VM. Double click the VM's Hard Disk (under devices in the main VMWare window). Select Utilities -> Map. Select the first partition, uncheck Open file in read-only mode, and press OK.

			xplorer.		
<u>File name:</u>	chines\S	ISS Base 3.1\Wind	ows XP Professio	onal.vmdk	Browse
<u>V</u> olume:	Number	Maximum Size			
	1	4.01 GB			
	2	34.0 GB			
	3	1.00 GB			
	4	34.0 GB		-	
	C Open	file in read-only mo		dì	
		nio in tead only mo	se (recommende	<u></u>	
	(moninged only mo	se (recommende	<u></u>	
Map to	(nie in jede ony me	je (recommende		
Map to Drive:	Z: •		rive in Windows		r mapping
CONTRACTOR .					r mapping
CONTRACTOR .			rive in Windows	Explorer afte	-
CONTRACTOR .					r mapping
CONTRACTOR .			rive in Windows	Explorer afte	-
<u>D</u> rive:	Z:		rive in Windows	Explorer afte Cancel] Help
<u>D</u> rive: Den regedi	Z:	Dpen d	rive in Windows	Explorer after Cancel] Help
<u>D</u> rive:	Z:	Dpen d	rive in Windows	Explorer afte Cancel] Help
Drive: Den regedi	Z:	▼ Open o	ive in Windows	Explorer after Cancel] Help
Drive: Den regedi un	Z:	▼ _pen c	ive in Windows	Explorer after Cancel and pres]Help
Drive: Den regedi un	Z:	▼ Open o	ive in Windows	Explorer after Cancel and pres] Help
Drive: Den regedi un	Z:	▼ _pen c	ive in Windows	Explorer after Cancel and pres] Help

In the Registry Editor, click File -> Load Hive. Browse or copy-paste the location Z:\Windows\System32\Config\Software Give the hive the name of BASE31 It will then show up in the registry.

jle Edit View Favorites Help ⊡ III My Computer	Name	Tune	Data
B M (Computer B) MEY_CLASSES_ROOT B) MEY_CLASSES_ROOT B) MEY_CLASSES_ROOT B) MEY_CLASSES_ROOT B) MEY_ROOM_NEE B) MERVARE B) MERVARE B) SOFTWARE B) MEY_CLASSES B) MEY_USERS B) MEY_CLASSES	Name	Type REG_SZ	Data (value not set)
	4		

Drill down to BASE31\Microsoft\Windows NT\Current Version\Winlogon Find the value named Shell and double click it.

- LastFontSweep	-	Name	Туре	Data
😥 🦲 Network		DisableCAD	REG_DWORD	0x00000001 (1)
NetworkCards		forceunlocklogon	REG_DWORD	0x00000000 (0)
OpenGLDrivers		anaDLL	REG SZ	C:\WINDOW5\System32(555_Gna.dl
- 🔛 Perfib		HbernationPreviouslyEn	REG DWORD	0x00000001 (1)
PerHwIdStorage		Key	REG_BINARY	50 23 07 01
- Ports		ab Lega Notice Caption	REG SZ	
🕀 🛄 Print 🕀 🏐 ProfileList		LegaNoticeText	REG_5Z	
B SecEdt		LogonType	REG_DWORD	0x00000000 (0)
B- setup		allsa Rart	REG_SZ	%SystemRoot%(system32)(sass.exe
B SvcHost		MonitorLogon	REG_DWORD	0x00000001 (1)
Time Zones		20 passwordexpirywarning	REG_DWORD	0x0000000e (14)
Tracing		PowerdownAfterShutdown	REG_SZ	0
1 Type 1 Installer		PeportBootCk.	REG_SZ	1
Windows		scremoveoption	REG_SZ	0
🗈 🔄 Winlogon		SFCDisable	REG_DWORD	0x00000000 (0)
😣 🦲 wow		SfcQuota	REG_DWORD	0xffffffff (4294967295)
- WPAEvents		ab]Shel	REG_5Z	C:\WINDOWS\system32\ifs\installinstprg.exe -prg
Windows Script Host		ShowLogonOptions	REG_DWORD	0x00000000 (0)
I WZCSWC	1.00	ShutdownWithoutLogon	REG_SZ	0
🕀 🧰 obec		System	REG_SZ	
Polcies		(UCHost	REG_EXPAND_SZ	logonul.exe
Windows 3.1 Migration Status		abUserinit	REG_SZ	C:(WINDOWS)FBA/FBA.EXE -run
HARDWARE		(ab) VmApplet	REG_SZ	rundl32 shell32,Control_RunDLL "sysdm.cpl"
E SAM		WinStationsDisabled	REG_SZ	0
B D SOFTWARE	-1	*		1

dit String		? ×
Value <u>n</u> ame:		
Shell		
⊻alue data:		
explorer.exe		
	ОК	Cancel

Collapse the folder so that BASE31 is highlighted Go to File -> Unload Hive Then close the Registry Editor.

💕 Registry Editor				- 0
Ble Edit View Favorites Help				
E 😹 My Computer	Name	Туре	Data	
Herr CLASSES POOT HERR CLASSES	(Kana (H)(Def out)	1998 865_52	Loka not set)	
	*1			

Go back to VMWare and open the properties for the Hard Disk again and select Utilities -> Disconnect

Disk file Windows XP P	ofossional u	mdk	
	IOPESSIONAL VI		
Capacity			
Current size:	954 MB	System free	475 GB
Maximum size:	80.0 GB	C	Utilities 👻
Disk information			Disconnect
Disk montation Disk space is no		14.000	Defragment
Hard disk conte	nts are store	d in a single fil	e.
Hard disk conte	nts are store	d in a single fil	e
Hard disk conte	nts are store		Ad <u>v</u> anced

Start the Progman VM and it should boot into Windows XP. Click cancel to any messages about installing new hardware. Now log-off the machine. Start -> Log Off Log back in with the username: Administrator and the password: ++Xs4Progman

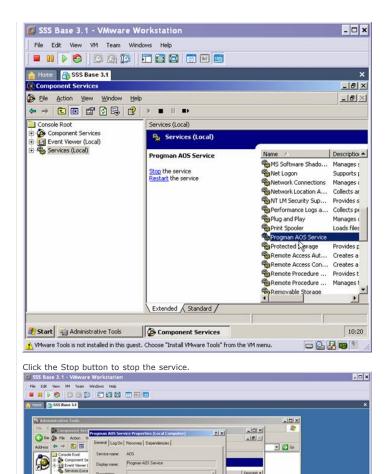


Open Administrative Tools



7/30/11 9:57 PM

Choose Services (Local) and find Progman AOS Service. Double click it.



er tem32VFSVADSVADSService exe -

٦

Close out, go back to the Control Panel and open System.

OK Cancel

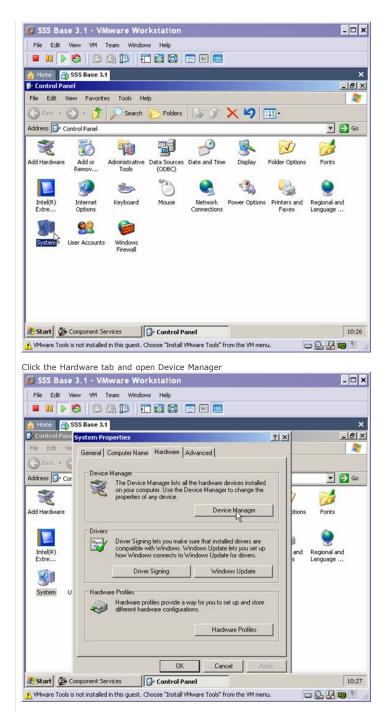
Startup type

19 Start Administrative Tools Scomponent Services

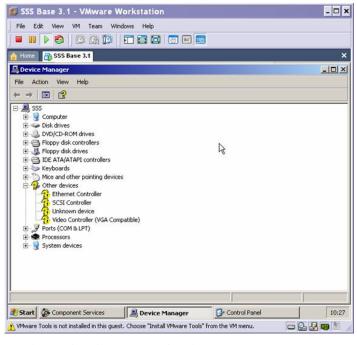
Minare Tools is not installed in this guest. Choose "Install VMware Tools" from the

•

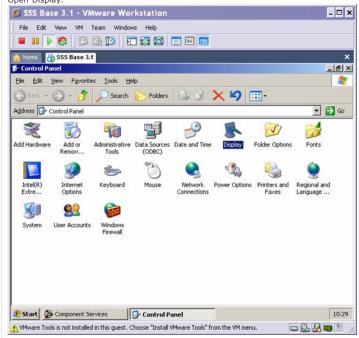
50.8e



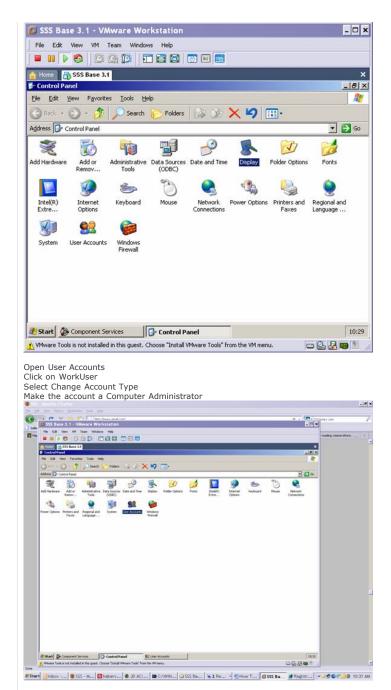
At this point, we need to install VMWare Tools. Go to the VM menu at the top of the VMWare window and Install VMWare Tools. After installing, it may ask you to restart. If it does restart, be sure to follow the directions again to log-out and log back in as Administrator with the password ++Xs4Progman Again, click cancel to any messages about installing new hardware.



Open the Control Panel. Start -> Control Panel Open Display.



Set the resolution to 1024x768 and click OK.



Double click the CD icon in the lower-right corner of the VMWare window. Change Connection to Use ISO, and select SSS Base 3.1 hack.iso

Device status			
Connected			
Connection	-1.45		
Use physic	ai drive:		
F:	<u>*</u>		
	ct <u>e</u> xolusively to this virtu	al machine	
Legacy	emulation		
Use ISO im	iage:		
gman 28\9	SSS Base 3.1 hack.iso	Browse	
	OK Cancel	Advanced	
	OK Cancel	Ad <u>v</u> anced Help	
	J	Help	
en My Com	puter. Start -> N	Help 1y Computer	
en My Com ate the Pro	nputer. Start -> N ogman 3.1 CD, an	Help 1y Computer	
en My Com ate the Pro	puter. Start -> N	Help 1y Computer	
en My Com ate the Pro	nputer. Start -> N ogman 3.1 CD, al ware Workstation widdows Neb	Help Ay Computer	

SSS Base 3.1 - VMware				- 0
File Edit View VM Team	Windows Help			
Home R SSS Base 3.1				
Progman 3.1 (G:)				
File Edit View Favorites Tox	xis Help			
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H Starsprogram, appr (D1) H Starsprogram, service (E1) H Starsprogram, instal (F1) H Starsprogram, instal (F1)	In/Cashebuld	eted To Windows NT Command Script.	InstCut	
B a 1386 MAGE B Control Panel	DistOrlini Dia Fie 2:0	kbdTrap	tbdTrap.dl	
B Careed Documents Countering Administrator's Documents P Py Network Places	PQIDeploy	PQEDeploy.vtc R3C Play 13:0	File 1 x30	
🔞 Recycle Bin	File 1 KD	110 100 100 100 100 100 100 100 100 100	Verborn av Dic Frée 1 4 3	
	SCOPY Extended Copy Utility Microsoft Corporation			
Start & Component Services	Progman 3.1 (G:)	ST User Accounts		10:3
Wheney Tools is not installed in this of	guest. Choose "Install VMware Tools"	from the VM menu.		02.80

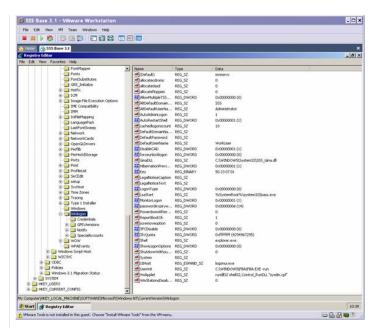
Highlight it, right click and Edit -> Copy to Folder Type or copy-paste C:\Windows\System32 Select Yes to overwrite.

SSS Base 3.1 - VMware	Workstation			- O ×
File Edit View VM Team W	Indows Help			
I I I O O O O O O O O O O O O O O O O O				
A tone SSS Base 3.1				×
Progenan 3.1 (Gc)				_161×
Fie fill Ven Pavetes Julis	Help			
G Back + 🔿 - 🍠 🔎 See	irch 😥 Folders 🔝 🐊	× 9		
Address 🗳 G1				• 🛃 Go
Index × 2 Cestop 2 Photoparts 2 Photoparts <t< th=""><th>PQIDet</th><th>rd.</th><th>op.dl 1 m.ini 1</th><th></th></t<>	PQIDet	rd.	op.dl 1 m.ini 1	
19 Start Droppment Services	Progman 3.1 (G:)	SI User Accounts		10:37
New are Tools is not installed in this gu	est. Choose "Install VMware Tools	* from the VM menu.		C Q. 8 👳 🐘

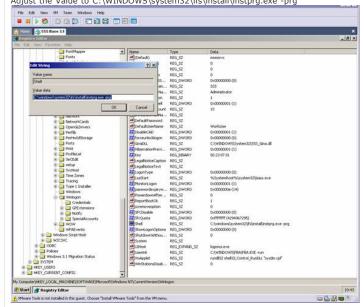
Go back to the Progman AOS Service. Start -> Control Panel -> Administrative Options -> Component Services -> Services (Local) -> Progman AOS Service Click the Start button, and click OK.

SSS Bat	10 3.1								×
		rvice Properties (Local Compu	(er) ?[X	d.					
Action Vie	14	And the second sec							101
	General Log On	Recovery Dependencies							
xot	Service name:	ADS							
t Ser									
wer (L	Display parse	Progman AOS Service							
Local,	Description				Description	1 Catur	Startup Type	Log On As	
	200000		1	parts	Manages s	1.800.00	Manual	Local System	
	Path to executed	14 C			Supports p		Desibled	Local System	
		uysten:32\fs\aos\A05Service.exe		ections	Manages o	Sated	Manual	Local System	
	L. WINDOWSY	obrideros es ant and and a service data.	*:		Collects an		Manual	Local System	
	Stafup type:	Automatic	-		Provides s		Manual	Local System	
	Stanup opg	§Automatic	2	025 8	Collects pe		Manual	Network S	
					Manages d	Rated	Automatic	Local System	
	Service status:	Stated			Loads Nes	Sarted	Automatic	Local System	
	Service Balus.	orderedu		Service		Rated	Automatic	.(World.)ser	
	- 20m	Stop Param	Beare	1000	Provides pr	Rated	Automatic	Local System	
					Crestes a		Manual	Local System	
	You can opecity from here.	the start parameters that apply whe	n you start the service		Creates a		Manual	Local System	
					Provides th	Started	Automatic	Network S	
	Stat parageters	64 - T			Manages t		Manual	Network S	
				prage			Manual	Local System	
- 12				emot	Offers rout		Disabled Automatic	Local System	
		OK 0	Cancel Apply	Lets	Enables st Stores sec	Started Started	Actomatic	Local System Local System	
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			SWindows Fir	eval/in	Provides n	Rated	Automatic	Local System	
			SWindows In	staller	Adds, mod		Manual	Local System	
			SWindows Ma			Rated	Automatic	Local System	
					Monitors al		Manual	Local System	
					Provides a	Rated	Automatic	Local System	
			SwMI Perform				Manual	Local System	
			Workstation		Creates an	Started	Automatic	Local System	
		Extended Standard /						10.0	242
		Constanting Constanting							
	ent Services	Program 3.1 (G:)							10:39

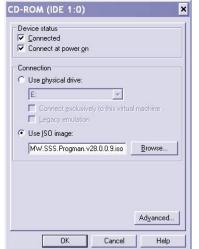
Open regedit within the VM. Type Windows Key + R to bring up the run menu, and type regedit Drill down to HKEY_LOCAL_MACHINE\Software\Microsoft\Windows NT\Current Version\Winlogon



Find the value named Shell and double click it. Adjust the Value to C:\WINDOWS\system32\ifs\install\instprg.exe -prg



Shut down the VM. Start -> Shut Down Edit the CD drive to Use ISO image: BMW.SSS.Progman.v28.0.0.9.iso



Power on the VM and the installation will begin. Click Cancel to any message(s) about agp440.sys

a Edit View VM Team Windows Holp		
SSS Base 1.1		
Files Needed	×	
The file %5P440. Service Pack 2 C	SYS" on Windows XP Professional DK	
	Cancel ation	
Type the path whe OK.	the file is located, and then click	
200		
Copy files from:		
(Amo 100)	Bowie.	
-	Progress	
	Copying DVD 1 of 1.	6%
	Copying 'oracle'.	83%
Iware Tools is not installed in this guest. Choose "In	tal VMware Tools" from the VM menu.	· · · · · · · · · · · · · · · · · · ·
on finished you'll fir	ally land at a cotup ocroop!	Select English and press Conti
SSS Base 3.1 - VMware Workstatio		Select English and press conti
e Edit View VM Team Windows Help		
tone 555 Base 3.1		
and the second		

initial setup - language

Language

Please choose desired language of user interface for this terminal.

	deutsch	english(uk)	français	italiano	español	nederlands	
	svenska	japanese 日本語	english(usa)	thai ไทย	taiwanese 台頭	chinese ইক্টে	
	korean 한국어	bahasa indonesia	russian pyccxxA	greek E <i>kkrpn</i> cd	türkçe	portugués	
		99. 					5
							Continue
Please select the field of the desir	ed language an	d confirm your	selection by hit	ting *Continue	e.		
Meane Tools is not installed in this guest. (hoose "Install VMwa	re Tools" from the 1	Mmenu.				- 2 4 -

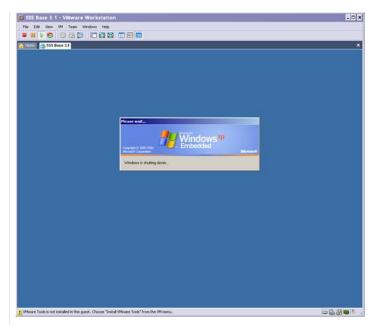
Enter the information seen below into the fields SSS name: PROGMAN IP address: 192.168.68.50 Gateway: 192.168.68.1 IP subnet mask: 255.255.255.0

Ø≸SSSBass3.1-VMwareWorkstation Fie 68: Wes Wit Team Windows Help	- D ×
■ 88 ▶ 20 10 10 10 10 10 10 10 10 10 10 10 10 10	×
Installation - Network	
Network configuration	
MAC address: 00:0C:29:DE:C9:E6	
SSS name: PROGMAN IP address: 192.168.68.50	
Gateway: 192.168.68.1 IP subnet mask: 255.255.255.0	
1 2 3 4 5 6 7 8 9 0 Q W E R T Y U 1 O P A S D F G H J K L ← Z X C V B N M . -	
Back Contin	ue
Please configure network and save with "Continue"	
🔥 Where Tools is not installed in this quest. Choose "Instal Where Tools" from the Wimenu.	
Leave the printer info blank and press Continue.	
Installation - printer	
Printer configuration	
Selection: Local parallel printer Standard	
Parameters	
Name: Model: ◄	
IP address: Paper: Image: Ima	
A S D F G H J K L ← Z X C V B N M . -	
Back	nue
Back Contin Please select the preter you wish to configure. The settings are stored with "Continue"	nue

Click Continue again.

SSS Base 3.1 - VMware Workstation		- 🗆 ×
File Edit View VM Team Windows Help		
tone SSS Base 3.1		×
Installation Online Service		
Ac	allation. you can set up the Online Serv ministration/Settings/Online Service. Service to be able to obtain software u	
		Continue
Where Tools is not installed in this guest. Choose "Install Where To	ools" from the VM menu.	
SSS Base 3.1 - VMware Workstation Fig. 58 See VH Team Window Heb 8 2 2 3 2 3 1 1 2 1 2 1 2 1 2 1 1 1 1 1 1	0	×
Dealer data Dealer number 12345 Country: Thaliand The Netherlands Togo Trinida and Tobago	Dealer address:	Contact in event of problems Emperor Palpatine Telephone: 203-303-4330 e-mail address:
Tunisia Turkey Ukraine Uhraine Emirates United Kingdom Uroguty Uroguty Vietnan Yetnan Yetnan Zambia Zimbia Zimbia Zimbia Zimbia	1 2 3 4 5 6 q w e r t y a s d f g h ψ z x c v b	darkheil@the@tarkhar.com 7 8 9 0 ✓ U 1 0 p + J K 1 - € n m ; . _ _
Back		Finished
Please complete all your company details and termina		

Windows will shut down and attempt to reboot. As soon as it shuts down, POWER OFF the VM to prevent it from restarting.



We must now make some more changes with the Registry Editor. Double click the VM's Hard Disk (under devices in the main VMWare window). Select Utilities -> Map. Select the first partition, uncheck Open file in read-only mode, and press OK.

Disk file						
Windows XP	Professional.v	rmdk				
Capacity						
Current size:	15.1 GB	System fr	ee: 46	GB		
Maximum size	80.0 GB		Utilities	•		
Disk informati	on		Map			
	not preallocati	ed for this h	Defrag	ment		
Constant Constant Constant Constant	itents are store					
			Advance	:d		
	ОК	Cancel	Advance			
en regedit	ок . Start ->		не	lp	and pro	ess
en regedit un			не	lp	and pro	ess
un		Run ->	type in r	egedit	? ×	ess
un	. Start -> the name of a et resource, a	Run ->	type in r	egedit	? ×	ess

In the Registry Editor, click File -> Load Hive. Browse or copy-paste the location Z:\Windows\System32\Config\Software Give the hive the name of BASE31 It will then show up in the registry.

<u>Ble Edit View Favorites Help</u>			
E B My Computer	Name	Туре	Data
HKEY_CLASSES POOT HKEY_CLASSES POOT HKEY_CLARENT_LISER HKEY_LOCAL_MACHINE HKEY_CLARENT_LISER HKEY_CLARENT_CONFIG HKEY_CLARENT_CONFIG	(Default)	REG_52	(value not set)
	1	1	2

Drill down to BASE31 \Microsoft \Windows NT \Current Version \Winlogon Find the value named Shell and double click it.

- LastFontSweep		Name	Туре	Data
🕀 🦲 Network		DisableCAD	REG_DWORD	0x00000001 (1)
RetworkCards		forceuniocklogon	REG_DWORD	0x00000000 (0)
OpenGLDrivers		ab]GnsDLL	REG SZ	C:\WINDOW5\System32(555_Gna.dl
- 🔁 Perfib		HbernationPreviouslyEn	REG DWORD	0x00000001(1)
PerHwIdStorage		Key	REG BINARY	50 23 07 01
- Ports		LegaNoticeCaption	REG SZ	
🖽 🧰 Print		ab]LegalNoticeText	REG 5Z	
E ProfileList		LogonType	REG DWORD	0x00000000 (0)
🕀 🛄 SeCEdt 19 🛄 setup		ablsa Rart	REG SZ	%SystemRoot%lsystem32lisass.exe
B SvcHost		MonitorLogon	REG DWORD	0x00000001 (1)
E Time Zones		passwordexpirywarning	REG DWORD	0x0000000e (14)
E Tracing		PowerdownAfterShutdown	REG SZ	0
		ab ReportBookOk	REG_SZ	1
Windows		and scremoveoption	REG SZ	0
🗉 🦳 Winlogon		SFCDisable	REG DWORD	0x00000000 (0)
a 🦲 wow		SfcQuota	REG_DWORD	0xffffffff (4294967295)
WPAEvents		ab]Shel	REG 5Z	C:IWINDOWS\system32lifslinstallinstorg.exe -prg
Windows Script Host		ShowLogonOptions	REG DWORD	0x000000000 (0)
IB G WZCSVC	- 11	A Shutdown/WithoutLogon	REG SZ	0
000C		ab System	REG SZ	
Polcies	1	ab UtHost	REG EXPAND SZ	logonul.exe
Windows 3.1 Migration Status		abUserinit	REG_SZ	C:(WINDOWS)FBA/FBA.EXE -run
HARDWARE		ab VmApplet	REG SZ	rundl32 shell32, Control RunDU, "sysdm.cpl"
E C SAM		WinStationsDisabled	REG_5Z	0
		10000000000000000000000000000000000000	10022005	2250
B SOFTWARE	-	4		

I Interior

Change the value to Explorer.e				
Edit String		?	×	
Value <u>n</u> ame:				
Shell				
⊻alue data: explorer.exe			-	
	OK	Cancel		
Collapse the folder so that BAS Go to File -> Unload Hive Then close the Registry Editor.	-	ighted		
Ele Edit Vew Favorites Help				
BY Computer Work, CLARSES, PLOOT BOY INST, CLARSES, PLOOT HIST, CLARSES, CLARSES, PLOOT HIST, CLARSES, CLARSES, PLOOT	None 史)(Sef (a))	Thee REG_SZ	Deta (valarnot set)	
My Computer/I/KEY_LOCAL_MACHINE\BASE31	•			
a second s				18

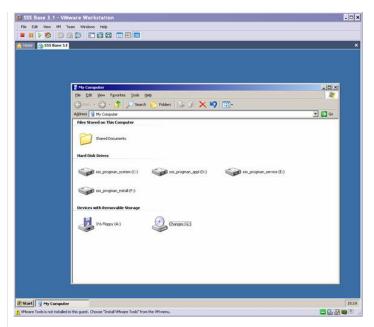
Go back to VMWare and open the properties for the Hard Disk again and select Utilities -> Disconnect

D: 1 (1)	1	
Disk file		
Windows XP Professional.vmdk		
Capacity		
Current size: 954 MB System fr	ee: 475 GB	
Maximum size: 80.0 GB		
	Disconnect	
Disk information	Defragment	
Disk space is not preallocated for this ha Hard disk contents are stored in a single		
	Advanced	
OK Cancel	Help	
Connected Connect at power <u>o</u> n Connection		
C Use physical drive:		
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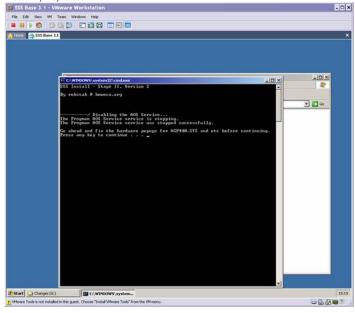
in, click cancel to any messages about agp440.sys

555 Base J. 1 - VMware W		-
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		V Found New Hardware X Intel 824438K Pentum (R) II Processor to ASP Controller
tart		Ne .
ware Tools is not installed in this quest	Choose "Install VMware Tools" from the VM menu.	C 🖸 🖉 🖷

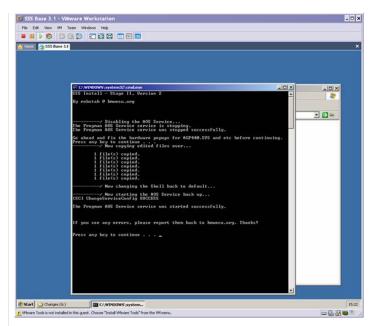
Open My Computer. Start -> My Computer



Double click the CD Drive Changes (drive letter) A command window should open. If the window does not open and you just see the contents of the CD drive, double click sss_stage2 Press any key to continue.

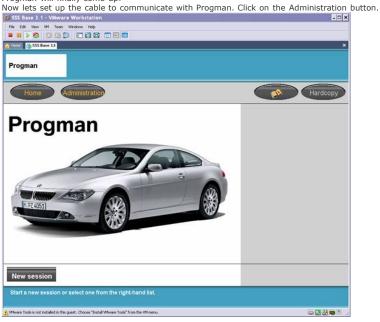


The command window will make some changes and ask you to press any key to continue again.

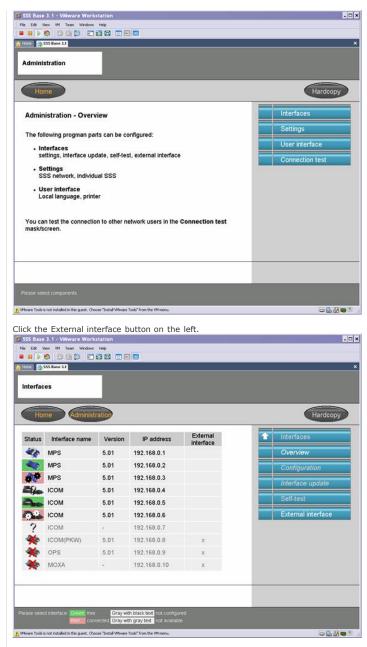


Now restart the VM. Start -> Shutdown -> Restart While the VM is restarting, open IFHSrv32.exe on your computer from C:\EDIABAS\Bin Make sure your firewall/antivirus is disabled!

Progman will finally come up!



Click the Interfaces button on the left.

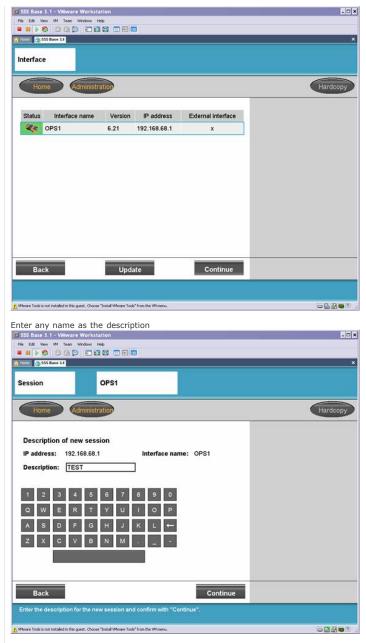


Click the Add button on the left.

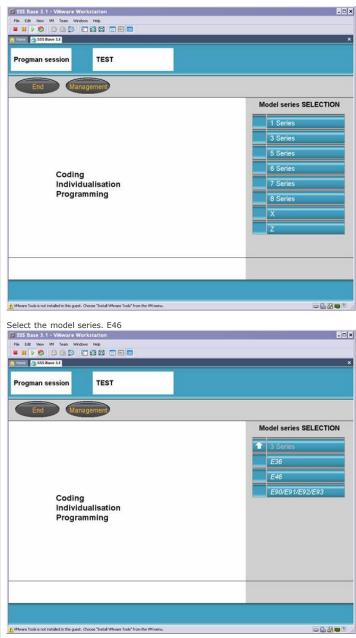


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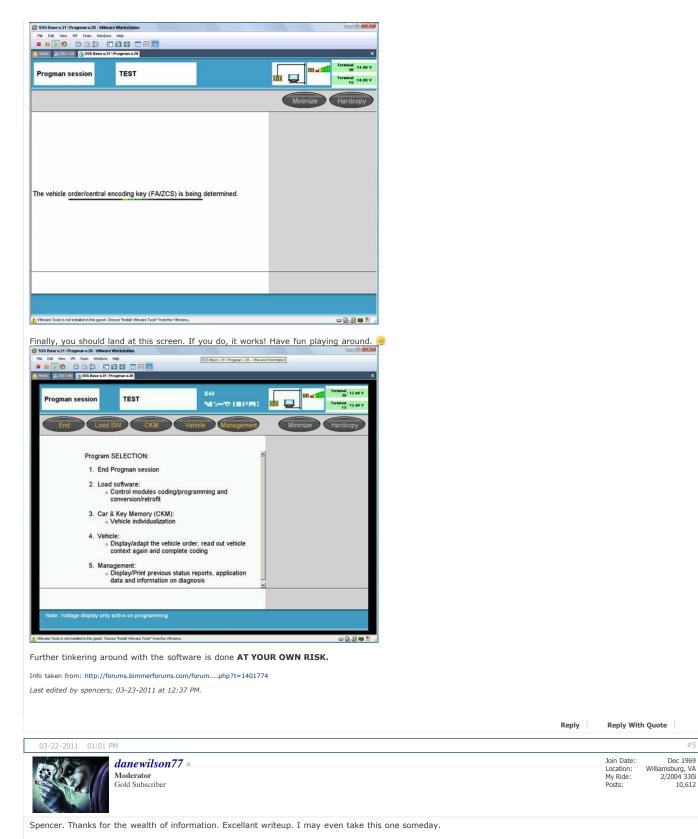
Now let's get the cable to communicate. Connect the cable to your car as you normally would and verify that INPA can talk to the car. Now back in Progman, click New Session and you should see the interface. Select it and press Continue.



Select your car. 3 Series



Then the vehicle order will be determined. It takes a few minutes.





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nank you Spencer, I fiddled around with it a couple weeks ago but failed to get it completely working ork right!	- hopefully by following these instru	uctions I can get it to
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ly Project Thread egister Your ZHP CoolantSnitch		
005 ZHP 6MT Mods: AFE Intake, Carbon Fiber Hood w/ M3 Bulge, Meyle HD FCAB's, Zionsville T-Stat ress. Gauges, Alcantara Wheel w/ CF Trim, Alum. Pedals + E-Brake, Black Kidney's, Aux Input, Beltro rmrest Delete, Schroth Harness, StopTech Pads, SSR Comp-H's	nics RX-75 Pro Radar Detector, Bei:	san Seals + Rattle K
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/ow. This is exactly what I was going to do and didn't have enough time to complete. hanks for saving me allIIII that time writing it up and trying to get it to work will give it a go when	I come back from vaca!	
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