PP1

HYPERTECH®
POWER PROGRAMMER III™

**FOR 1996-2000 GM VEHICLES WITH
4.3/5.0/5.7/7.4L VORTEC ENGINES**

STEP-BY-STEP INSTALLATION
INSTRUCTIONS

TABLE OF CONTENTS

IMPORTANT

- The Power Programmer for 1996-2000 GM trucks and SUVs is legal for sale or use on California pollution-controlled motor vehicles according to the CARB Executive Order process. In the interest of improved air quality, the California Air Resources Board (CARB) requires new vehicle and manufacturers of aftermarket parts to develop engine and emissions equipment that either reduce or maintain specific air pollutants affected by vehicle use. Both the California Vehicle Code (section 27156) and Federal Clean Air Act (administered by the Environmental Protection Agency) prohibit modifications that increase vehicle emissions. Aftermarket parts manufacturers, particularly in the high-performance segment, are required to obtain CARB approval in the form of executive Orders (E.O.s) for any product not qualifying as a direct replacement for an original equipment part. **Hypertech includes meeting all E.O. requirements in its product development process. This guarantees that users of Hypertech "Power Tuning" products will meet certification requirements when registering, selling, or needing to pass various emissions tests or Inspection and Maintenance (I&M) programs administered by state or local enforcement agencies.** Make sure that any emissions-related product you buy and install carries an E.O. number or is pending an E.O. **Without this verification you are at risk, in potential violation of regulations and may incur unnecessary financial obligations during vehicle inspections or emissions tests.** A CARB E.O. sticker is supplied. Keep this sticker in your vehicle or attach it inside the door jam as proof that the Power Programmer is street legal.

- Your vehicle's computer will not be programmed at the end of the programming menus until you select "PRESS 'Y' TO BEGIN PROGRAMMING", on page 14. Feel free to experiment with the programming choices without the fear of accidentally programming the wrong information into your vehicle's computer. You can make any choice that you want and change it again and again, without programming it into your vehicle's computer, until you are absolutely ready.

- While the programmer is programming:

  * **DO NOT leave the vehicle while programming is in process.**

  * **DO NOT program your vehicle without a fully charged battery. If after you have programmed your vehicle's computer with the Hypertech Power Programmer and you decide to change the tuning, It is recommended that you recharge your vehicle's battery. You may either drive the vehicle to charge the battery or use a battery charger. But either way, MAKE sure that the battery holds a full charge.**

  * **DO NOT disturb the cable while programming.**

  * **The ONLY time you may remove the programmer cable from the DLC safely is PRIOR to pressing 'Y' to program your entries. However, any programming choices you have made WILL NOT be saved.** *NOTE: It is NOT safe to unplug the programmer cable any time AFTER you have pressed 'Y' to program.*

  * **DO NOT turn the key off UNLESS instructed by the programmer.**

  * **DO NOT start the engine.**

Any of these actions will interrupt the programming process. The programmer is designed to recover from these conditions, but they should be avoided.

HYPERTECH POWER PROGRAMMER III
INSTALLATION INSTRUCTIONS OVERVIEW

Congratulations! You are the owner of the Power Programmer III, the latest in high-performance tuning technology. Now you can optimize your engine's tuning, as well as adjust other vehicle parameters (see table of contents), all at the touch of a button.

Your vehicle has an onboard computer that controls the engine and transmission. Inside your vehicle's computer is a FLASH memory chip which contains the vehicle's programming. The programmer actually reprograms this FLASH computer chip, according to your specifications, with Hypertech's Power Tuning. This is the only way an individual can reprogram some 1994-1995 and all 1996 and newer vehicles sold in the United States.

To reprogram your vehicle's computer, simply plug the programmer cable into the vehicle's diagnostic connector located under the dash panel on the driver's side. Set the parking brake. Next, turn the ignition key to RUN but do not start the engine. Press the ▲ arrow on the programmer. It will then identify your vehicle and display a series of options on its screen. When completed, turn the key to OFF and disconnect the cable from the diagnostic connector. Now you're ready to *Feel the Power!*

Hypertech's Power Tuning can be stored in only one (1) vehicle at a time. The Power Programmer can be reconnected to remove the Power Tuning and return the vehicle to the factory programming at any time. After you have performed this step, your vehicle will be in its stock configuration.

You may also reconnect your programmer at any time to change the programming. For example, if you have replaced your factory tires with different diameter tires, you will want to correct your speedometer, odometer, and automatic transmission shift points. Simply reconnect your programmer, answer the necessary option(s), and reprogram your vehicle. You do not have to return to stock first.

SECTION 1: ONSTAR EQUIPPED VEHICLES

If your GM vehicle is equipped with the OnStar system, you **MUST** temporarily disable the system **BEFORE** programming your vehicle with the Power Programmer III. Please follow the steps below to temporarily disable the OnStar system.

General Precautions

Many new vehicles are equipped with daytime running lights, or sensors that turn the headlights on in dim situations automatically when the ignition is on. For the purposes of programming the vehicle, this presents an unnecessary extra drain on the vehicle battery. Many new vehicles have a procedure for turning off the lights. Often this is accomplished by setting the parking brake on the vehicle. We recommend that the headlights be off when programming your vehicle, for added safety against corrupt programming due to battery failure. See your owner's manual for vehicle specific information regarding your headlights.

Recommended Precautions

The GM OnStar system periodically communicates with the vehicle. This periodic communication with the vehicle has been known to disrupt the programming process. In order to prevent disruption of the programming process, it is recommended that the OnStar system be disabled while programming the vehicle. **When the OnStar system is successfully disabled, its indicator light on the dash or rearview mirror will be OFF. Be sure that this light is off when the key is in the ON position (engine not running) BEFORE programming the vehicle.** This will ensure that there are no OnStar related problems.

Recovery From OnStar-Related Power Programmer Hang-up

If the programmer stops programming for an extended period of time, perform the following steps to recover and/or continue programming:

** Do Not Turn The Ignition Key Off **
1. Disconnect the programmer from the vehicle.
2. Reconnect the programmer to the vehicle.
3. Press the START button on the programmer.

The programmer will resume communications with the vehicle where it left off. If the programmer fails to re-establish communications with the vehicle, repeat the procedure. If the programmer still fails to resume, disconnect the programmer and turn the vehicle off. Attempt to start your vehicle. If your vehicle fails to start, the vehicle computer may have been corrupted, and you will need to send your vehicle computer and programmer to Hypertech for repair. If the vehicle starts, you will need to return your programmer to Hypertech for re-initialization. No harm will have been done to the vehicle computer.

Disabling OnStar in 5.7/7.4L vehicles

1. See Figures A & B. To access the OnStar system, you first have to remove the glove compartment. To do this, open the glove compartment and remove the glove compartment support strap. Once the support strap is removed, pull in and down on the glove compartment and remove it from the dash of the vehicle. Place the glove compartment aside and out of the way.

Support Strap
Figure A

Figure B

2. See Figures C & D. Locate the OnStar plug inside the glove compartment area that will need to be disconnected to temporarily disable the OnStar system. The plug is located behind a silver-colored box. Look for the large plug behind the silver box that is partially wrapped in a grey foam with black tape around it. Once the proper plug is found, it can be moved out of it's original location and unplugged. Make sure that the OnStar indicator light on the dash or rearview mirror is OFF. Be sure the light is off when the key is in the ON position (engine not running) BEFORE programming the vehicle.

OnStar plug
Silver-coated box
Figure C

OnStar plug
Figure D
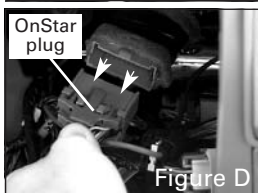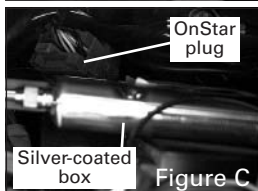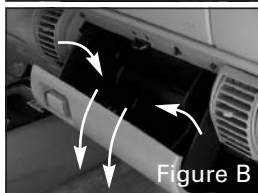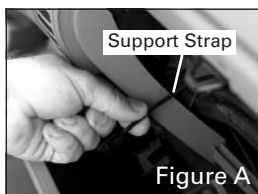
Disabling OnStar in 4.3L vehicles

To temporarily disable the OnStar system in 4.3L GM SUVs, the plug to the OnStar computer must be disconnected. The OnStar computer is located in the back of the vehicle under the passenger's side rear interior cover (See Figure E). To remove the cover, release the clip and swing out. (See Figure F). Squeeze the blue and grey tabs on the connector and pull up to temporarily disconnect the OnStar system in the vehicle.

OnStar computer
Figure E

OnStar connector
Figure F
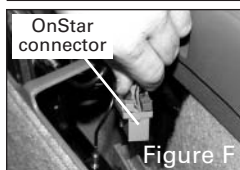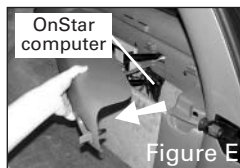
What To Do After Programming Your Vehicle

After the vehicle computer has been successfully programmed, plug the OnStar connector back into the original location and reinstall any panels and/or other interior components that were removed.

5

SECTION 2: POWERSTAT INSTALLATION

To complete your performance package, you may choose to use a low-temp thermostat. Replacing the factory thermostat with a Hypertech PowerStat will allow the engine to run cooler, increasing power, and reducing the engine's tendency to detonate.

Tools and supplies required
Metric sockets and ratchet
1/4" flathead screwdriver
DEX-COOL anti-freeze coolant

- **WARNING: NEVER ATTEMPT TO CHANGE A THERMOSTAT ON A HOT ENGINE.**
- **SERIOUS INJURY CAN OCCUR IF THE RADIATOR CAP IS REMOVED WHILE THE COOLING SYSTEM IS HOT.**
- **THE ENGINE SHOULD ALWAYS BE COLD WHEN INSTALLING THE POWERSTAT**

For 4.3L vehicles:
Part #1013 - 160° PowerStat
For 5.0/5.7L vehicles:
Part #1008 - 160° PowerStat
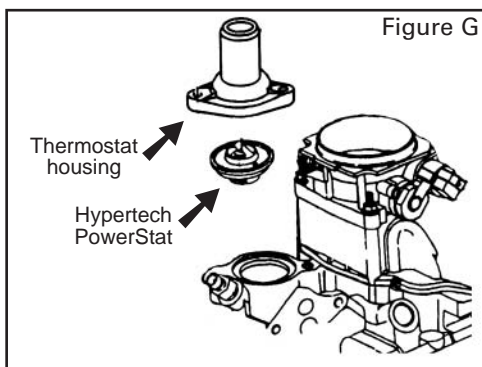**Part #1022 - 180° PowerStat**
For 7.4L vehicles:
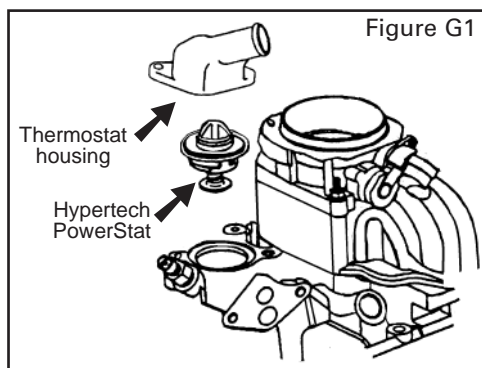**Part #1005 - 160° PowerStat**
Part #1020 - 180° PowerStat

NOTE: After installing the PowerStat, if any coolant needs to be added to the vehicle, **make sure you put the same color coolant back into the vehicle**. If your vehicle has orange coolant, replace with orange coolant. If green, replace with green.

1. Drain the coolant from the vehicle. Remove the thermostat housing bolts. See below for your type of engine:
   - **4.3L**: See Figure G. You must first remove the air duct from the top of the throttle body. Then, remove the two (2) bolts that hold the throttle cable bracket and move it out of the way. Then, remove the thermostat housing and bolts.
   - **5.0/5.7L**: See Figure G1.
   - **7.4L**: See Figure G2.
2. Lift out the stock thermostat. Use a screwdriver to gently pry, if necessary. Clean all the sealing surfaces.
3. Make sure that the rubber "O" ring is positioned flat side down on the PowerStat. Next, install the PowerStat, making sure that it's positioned just like the corresponding figure.
4. Reinstall the thermostat housing and bolts.
   - **4.3L**: Torque the bolts to 18 ft-lbs. Reinstall the throttle cable bracket and air duct (Step 1).
   - **5.0/5.7L**: Torque the bolts to 18 ft-lbs.
   - **7.4L**: Torque the bolts to 30 ft-lbs.
5. Fill the cooling system with the proper water/coolant mixture. Refer to the owners manual for the correct ratio.
6. Start the vehicle and allow it to warm up to normal operating temperature.
7. Check the coolant level in the radiator overflow/fill reservoir and fill as needed.

IMPORTANT:
NEVER MIX ORDINARY ANTI-FREEZE (GREEN)
WITH THE DEX-COOL ANTI-FREEZE (ORANGE)
OR YOU MAY DAMAGE THE COOLING SYSTEM.

Figure G

Thermostat housing

Hypertech PowerStat

4.3L POWERSTAT INSTALLATION

Figure G1

Thermostat housing

Hypertech PowerStat

5.0/5.7L POWERSTAT INSTALLATION

Figure G2

Thermostat housing

Hypertech PowerStat
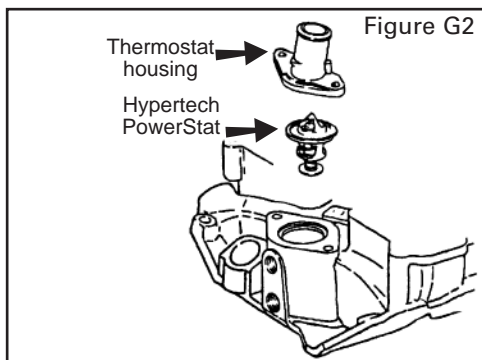
7.4L POWERSTAT INSTALLATION

SECTION 3: PROGRAMMING INSTRUCTIONS

• Connect one (1) end of the provided cable to the programmer, as in Figure H, and tighten the two (2) thumbscrews.
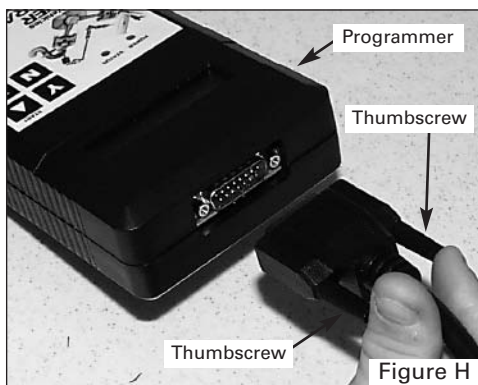
Figure H

• See Figure I. Locate the Data Link Connector (DLC) under the driver's side of the dash panel and above the emergency brake.

Figure I
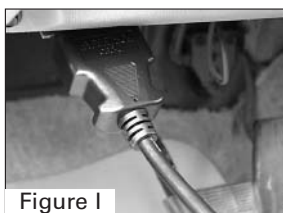
• Plug the programmer cable into the DLC. Make sure the cable is plugged in completely to ensure a good connection.

• Set the parking brake to turn off the DRLs (Day-Light Running Lamps) and turn the ignition key to the RUN position, but do not start the engine.

IMPORTANT:

-DO NOT leave the vehicle while programming is in process.

-Make sure the vehicle battery is fully charged before programming.

-The key must remain in the RUN position, without the engine running, during the entire programming process.

-DO NOT operate electrical accessories (radio, windows, wipers, etc.) while programming.

- If the vehicle is equipped with an OnStar system, make sure the system is temporarily disabled (see Section 1 for details).

- DO NOT attempt programming while the vehicle is connected to a battery charger.

- Press the ▲ arrow on the programmer. The following displays should appear immediately on the LCD screen (where X.X.X.X is the version number):

> HYPERTECH
> POWER PROGRAMMER

> VERSION
> X.X.X.X

> FOR XXXX GMC AND
> CHEVROLET TRUCKS

- If these screens do not appear, make sure that both ends of the cable are securely attached and press the ▲ arrow again.

- The programmer will show applications and copyright information. The programmer will then identify your vehicle and perform a self-test. A few seconds after the self-test is complete, the VIN number of the vehicle will be shown and a screen should appear with a description of your vehicle:

> YOUR VEHICLE IS:
> XXXX CHEVROLET TRUCK/SUV X.XL

- If this screen does not appear, make sure that the key is in the RUN position with the engine NOT running.

- The programmer will display a series of options. For each option press the 'Y' button to make a change. Press the 'N' button to make no change and proceed to the next option. For some options, you will use the ▲ and ▼ arrows to point to a particular option. Pressing the 'Y' button will then lock in your selection. This screen will now appear:

> CHECKING FOR DIAGNOSTIC
> TROUBLE CODES (DTCS)

- The Power Programmer is checking the vehicle for any Diagnostic Trouble Codes (DTCs). If no DTCs are found, this screen will appear:

> NO DTCS REPORTED

- If no DTCs are found, the Power Programmer will then go to Step A (Engine Tuning). If any DTCs are found, this screen will appear:

> "X" DTCS REPORTED

9

• "X" represents the number of DTCs found in the vehicle. This screen will now appear:

```
VIEW DTCS = Y
CLEAR DTCS = N
```

• Press 'Y' to view the DTC(s) found in the vehicle. Press 'N' to clear the DTC(s) without viewing them. If you press 'Y', these screens will appear:

```
WRITE DOWN THE FOLLOWING DTCS AND REFER TO
FACTORY MANUALS FOR EXPLANATION
```

```
DTC #1 --- PXXXX
NEXT DTC = N
```

IMPORTANT NOTE

Hypertech, Inc. recommends proper diagnosis and repair of reported DTCs prior to programming. For Diagnostic Trouble Code (DTC) interpretations, refer to factory manuals, see your local parts dealer, or visit internet sites that provide this type of information. An example of such a website is:

www.bentleypublishers.com/tech/vw/vw.dtc.table.htm

• Press the 'N' button to view the next DTC (if any). Once you have viewed all the DTCs, this screen will appear:

```
NO MORE DTCS, TO VIEW AGAIN, PRESS Y
TO CONTINUE, PRESS N
```

• Press 'Y' to view the DTC(s) again. Press 'N' to continue. If you press 'N', this screen will appear:

```
DTCS MUST BE CLEARED BEFORE CHANGING PROGRAM. TO CLEAR DTCS PRESS Y
TO KEEP DTCS AND EXIT PROGRAM PRESS N
```

• Press 'N' to exit the program. This screen will appear:

```
TURNING POWER
PROGRAMMER OFF
```

• Press 'Y' for the Power Programmer to clear the DTC(s). These screens will now appear:

```
CLEARING DTCS
```

```
ALL DTCS HAVE
BEEN CLEARED
```

10

• The Power Programmer has now successfully cleared the DTC(s) found in the vehicle computer. This screen will now appear:

> TO ENTER POWER PROGRAMMER MODE, PRESS Y
> TO EXIT PROGRAM, PRESS N

A. ENGINE TUNING

> TO INSTALL HYPERTECH POWER TUNING, PRESS Y
> TO KEEP FACTORY ENGINE TUNING, PRESS N

• Press the 'Y' button to install engine tuning. Press 'N' to keep the stock vehicle tuning.

• If you have a 1996-1999 4.3/5.0/5.7/7.4L vehicle, Power Tuning for premium octane gasoline is offered. You must use premium octane gasoline (or the highest octane rating available in your area) to produce maximum power. Make sure you have premium octane gasoline in your vehicle **BEFORE** installing Hypertech Power Tuning.

> USE UP/DOWN ARROWS TO CHOOSE FUEL OCTANE THAT WILL BE USED, THEN PRESS Y TO SELECT OR N TO EXIT.
> _ _ OCTANE

• **If you have a 2000 4.3/5.7/7.4L vehicle**, the "Dual Fuel" Power Tuning is offered. After pressing 'Y' to install Hypertech Power Tuning, use the ▲ and ▼ arrows to select either regular or premium octane Power Tuning. Press 'Y' to lock in the desired Power Tuning program.

NOTE: For all '96-'00 manual transmission vehicles, choosing to install Hypertech Power Tuning will also automatically increase the engine RPM "Rev" limiter to 6000 RPM for the 4.3/5.0/5.7L and 5500 RPM for the 7.4L.

B. TOP-SPEED LIMITER

> TO ADJUST TOP SPEED LIMIT TO MATCH SPEED RATING OF HIGH-PERFORMANCE TIRES, PRESS Y
> TO KEEP STOCK TOP SPEED LIMIT, PRESS N

• Press the 'N' button to keep your vehicle's stock top-speed limiter and skip to the next option.

> USE UP/DOWN ARROWS TO ADJUST TOP SPEED LIMIT, THEN PRESS Y TO SELECT OR N TO EXIT.
> _ -_ _ _ MPH

• If you have installed factory-approved high-performance tires, press the 'Y' button to change your vehicle's top-speed limiter to match the speed rating of those tires. The speed rating or speed symbol will be found on the sidewall of your tires. Here are the corresponding symbols and maximum top-speed limits that can be programmed into your vehicle:

> S - 110 MPH
> T - 116 MPH
> H - 128 MPH

11

C. TIRE SIZE

> IF TIRE HEIGHT HAS BEEN CHANGED FROM ORIGINAL, PRESS Y
> IF TIRE HEIGHT HAS NOT BEEN CHANGED, PRESS N

• Press 'N' if the original size tires are being used.

> USE UP/DOWN ARROWS TO CHOOSE CORRECT TIRE HEIGHT, THEN PRESS Y TO SELECT OR N TO EXIT.
> _ _.._ _ "

• Press 'Y' if you have installed tires with an overall height that
  is different than the original factory tires. This feature will
  recalibrate your speedometer, odometer, and part-throttle shift
  points (for automatic transmissions) for the new tire height.
  The ▲ and ▼ arrows will allow adjustments of 1/4" increments.
  Maximum and minimum tire height that can be adjusted
  depend on the year, make, and model of the vehicle. Press the
  'Y' button to lock in the desired value. At any time you may
  press 'N' to allow you to either try again or skip to the next option.

NOTE: If you select 'Y', you will automatically be asked to
enter a gear ratio *AFTER* you have selected your tire
height. You will not be allowed to enter 'N' for stock
gear ratio. You must select your correct stock rear gear
ratio. To determine your stock rear gear ratio, look at
the RPO code on your vehicle code label, usually
located in the glove box lid or center console lid. Match
your RPO code to the stock rear gear ratio in the chart below.

Stock Gear Ratios	RPO Code
3.08	GU4
3.42	GU6
3.73	GT4
4.10	GT5
4.56	HC4

HOW TO DETERMINE TIRE HEIGHT

If you do not know your tire height, ask your tire dealer or
measure a tire as follows:

1. Place a chalk mark on the tire where it contacts the pave-
   ment and also mark the pavement. These marks should be
   at the center of the tire footprint pointing straight down to
   the pavement.

2. Roll the vehicle in a straight line until the chalk mark
   makes one revolution and is pointing straight down at the
   pavement again. Mark the pavement again at this new spot.

3. Measure (in inches) the distance between the two (2) marks
   on the pavement. Divide the measurement by 3.1416. This
   will give you the tire height in inches.

12

D. REAR GEAR RATIO

> IF REAR AXLE RATIO HAS BEEN CHANGED FROM ORIGINAL, PRESS Y
> IF REAR AXLE RATIO HAS NOT BEEN CHANGED, PRESS N

• Press 'N' if the rear gear ratio has not been changed from
  the factory installed gear. Making this choice will skip to
  the next option.

> USE UP/DOWN ARROWS TO SELECT CORRECT REAR AXLE RATIO, THEN PRESS Y TO SELECT OR N TO EXIT.
> _ _ _ - -_._ _:1

• Press 'Y' if you have installed a rear gear with a ratio that
  is different than the original factory gear. This choice will
  recalibrate your speedometer/odometer readings and part-throttle
  shifting for automatic transmissions for the new gear ratio.
  Press the ▲ and ▼ arrows to see all of the gear ratios available
  for your vehicle.

• Press 'Y' to lock in the gear ratio that you have installed.
  At any time you may press 'N' to allow you to either try
  again or skip to the next option.

NOTE: If you select 'Y', you will automatically be asked to
            enter a tire height *AFTER* you have selected your rear
            gear ratio. You will not be allowed to enter 'N' for stock
            tire height. If you have not changed the rear gear ratio,
            you should select 'N' for rear gear ratio. Also, for
            automatic transmissions, a selection of any available
            rear gear ratios will automatically set wide-open throttle
            shifts similar to original factory RPM settings for the
            new rear gear ratio.

E. TRANSMISSION SHIFT POINTS (AUTOMATICS ONLY)

> TO ADJUST TRANSMISSION SHIFT POINTS, PRESS Y
> TO KEEP STOCK SHIFT POINTS, PRESS N

• Press 'N' to keep the stock shift RPM points and skip to the
  next option.

• Press 'Y' to optimize the shift RPM points of the transmission.
  The transmission shift points will be optimized for the best
  acceleration. The shift points will vary on vehicles depending
  on tire size and rear gear ratio.

F. TRANSMISSION SHIFT FIRMNESS (AUTOMATICS ONLY)

> IF YOU HAVE INSTALLED AN AFTERMARKET SHIFT KIT, PRESS Y
> TO CONTINUE, PRESS N

- Press 'Y' if you have installed an aftermarket shift kit into your automatic transmission. The shift kit has already firmed up your shifts. You do not want your programmer to make them even firmer because transmission damage may occur.

- *NOTE:* Pressing 'Y' lets your programmer know that it should not program shift firmness and you will skip to the Report.

- Press 'N' if you have not installed an aftermarket shift kit into your automatic transmission. Pressing 'N' will give you the following choice:

> TO INCREASE TRANSMISSION SHIFT FIRMNESS, PRESS Y
> TO KEEP STOCK SHIFT FIRMNESS, PRESS N

- Press 'N' to keep the stock shift firmness. Press 'Y' to increase the firmness of shifts. Firmer and quicker shifts reduce the loss of power to friction while the clutch packs "lock-up" during shifts, allowing more power to the rear wheels.

G. REPORT
- After your last choice has been made, this screen will appear and list all of your choices:

> YOU HAVE CHOSEN
> ....

- Watch the screen as your choices scroll by on the bottom line. Now these two (2) alternating screens will appear:

> PRESS Y TO BEGIN
> PROGRAMMING

> PRESS N TO
> CHANGE OPTIONS

- If all choices are correct, press 'Y' to start programming. If you want to make a change to your choices, press the 'N' button to start over from the beginning.

H. PROGRAMMING

IMPORTANT NOTE: On certain applications, the dash message center may display random code information such as REDUCED ENGINE POWER. This is a NORMAL step during the programming process, for certain applications.

• First, the programmer will read out your vehicle's stock program.

```
READING COMPUTER
XX%
```

• When the programmer has finished this, it will wait a few seconds and then begin programming the changes into your vehicle.

```
WRITING COMPUTER
XX%
```

• This display will show percentage completion while the programming is taking place. While the unit is programming, the following is EXTREMELY IMPORTANT:

    * **DO NOT LEAVE THE VEHICLE WHILE PROGRAMMING IS IN PROCESS.**
    * **DO NOT DISTURB THE CABLE.**
    * **DO NOT TURN THE KEY OFF.**
    * **DO NOT START THE ENGINE.**
    * **IF THE UNIT STOPS PROGRAMMING OR IS INTERRUPTED, PLEASE MAKE A NOTE OF ANY MESSAGE(S) THAT APPEAR ON THE PROGRAMMER SCREEN. THIS WILL BE HELPFUL TO OUR TECHNICAL DEPARTMENT.**

• Any one of these actions will disturb the programming process. The programmer is designed to recover from these conditions, but they should be avoided.

IMPORTANT NOTE: If during the reading and/or programming stage, the Power Programmer does not show an increase in percentage for at least five (5) minutes, LEAVE THE KEY IN THE 'ON' POSITION and unplug the Power Programmer from the diagnostic port. Then, reinsert the cable into the diagnostic port and press the ▲ button. This will allow the programming to continue. If the problem continues, call Hypertech at 901-382-8888.

• Programming is complete when the unit reaches 100%. (Programming takes approximately 1.5 to 2 minutes) The following screens will appear:

```
HYPERTECH POWER
TUNING INSTALLED
```

```
TURN KEY OFF
FOR 30 SECONDS
```

```
TO END, PRESS Y
AND UNPLUG CABLE
```

- Turn the key off for thirty (30) seconds, press the 'Y' button, and unplug the programmer cable from the DLC under the dash panel.

- Start the engine and make sure the Service Engine Soon light on your instrument cluster goes out (If it stays on or flashes, call Hypertech at 901-382-8888). Warm up the engine and make sure it is running smoothly.

- FOR ONSTAR EQUIPPED VEHICLES. **Plug the OnStar connector back into the original location and reinstall any panels and/or other interior components that were removed. (See Section 1 for details.)**

- **CHECK FOR DETONATION**. Whether you have selected Power Tuning for premium (the highest octane rating available in your area) or regular octane gasoline, you need to check for detonation. This is a "pinging" sound heard during heavy throttle acceleration, indicating the presence of detonation. Make certain you are using gasoline intended for the Power Tuning you have installed. If any "pinging" sound is heard, you should immediately back off the throttle. To discuss, call Hypertech at 901-385-1888.

SECTION 4: PROGRAMMING BACK TO STOCK OR CHANGING OPTIONS

After installing Hypertech Power Tuning, you may return your vehicle's computer to stock programming at any time. Follow these steps to return your vehicle to the stock tuning or change your option settings.

- Reconnect the programmer to the DLC. Next, turn the ignition key to RUN but do not start the engine. Press the ▲ arrow and wait for the programmer to identify your vehicle as before. Since the programmer has programmed your vehicle's computer, this screen will appear:

```
HYPERTECH POWER
TUNING INSTALLED
```

- Then this screen will appear:

```
TO RETURN VEHICLE TO FACTORY SETTINGS, PRESS Y
TO ACCESS POWER PROGRAMMER FEATURES, PRESS N
```

- Press 'Y' to return to the original factory program.

- Press 'N' to allow you to see the options in Section 3.

• If the 'Y' button is pressed, programming back to stock will begin. These screens will appear:

```
                    WRITING COMPUTER
                          XX%
```

```
                    FACTORY PROGRAM
                    IS NOW INSTALLED
```

```
                     TURN KEY OFF
                    FOR 30 SECONDS
```

```
                    TO END, PRESS Y
                    AND UNPLUG CABLE
```

• Turn the key off for thirty (30) seconds, press the 'Y' button, and remove the cable as before. Your vehicle's computer will now be in a completely stock tuning configuration.

SECTION 5: TROUBLESHOOTING GUIDE

The programmer will notify you of incidents that are out of the ordinary. Here are some of the screens that may be encountered.

1. LOSS OF COMMUNICATION

```
                  COMMUNICATION LOST:
                        RETRYING
```

• This screen will appear if the programmer is unable to communicate with your vehicle's computer. If the problem is corrected, the programmer will automatically restart the programming process. Take these steps to correct the problem:

1. Make sure the ignition key is in the RUN position and that the engine is not running.
2. Make sure that both ends of the cable are securely attached.
3. Wait at least five (5) minutes for the programmer to re-establish communication and program the vehicle.
4. If the three (3) steps above do not correct the problem, call Hypertech at 901-382-8888.

2. CABLE REMOVED WHILE PROGRAMMING

• The programmer will lose power during programming if for any reason the cable is removed. If this happens, simply reconnect the cable and press the ▲ arrow. The programmer will identify your vehicle and then display:

```
PROGRAMMING WAS
INTERRUPTED...
```

```
PROGRAMMING WILL
CONTINUE NOW
```

• The programmer will then continue programming from where it was interrupted.

NOTE: If the programmer was interrupted during the "Reading" stage, programming will NOT be considered interrupted, and the programmer will proceed to Section 3 on page 9.

3. ATTEMPTING TO PROGRAM A DIFFERENT VEHICLE

• If you attempt to program the computer in another vehicle, without first programming the original vehicle back to stock, the following screen will appear:

```
CODE 91: PROGRAM YOUR VEHICLE BACK TO STOCK BEFORE
PROGRAMMING ANOTHER VEHICLE
```

4. CALIBRATION NOT FOUND

• If your vehicle has a factory program that is not recognized by the programmer, it cannot continue. This screen will appear:

```
CODE 6D:
CAL NOT FOUND
```

• Call Hypertech at the provided phone number on the programmer screen. Please have your vehicle VIN number ready. The Hypertech technical staff will instruct you what to do.

5. SOMEONE REPROGRAMS YOUR COMPUTER

- If a service facility reprograms your vehicle's computer with an update, your Hypertech Power Tuning will be erased. To verify your Power Tuning has been erased, reconnect the programmer and press the ▲ arrow. The programmer will identify your vehicle's VIN number and then process the vehicle computer calibrations. If the calibration is identified by the programmer, you will be allowed to re-program your vehicle computer and the options in Section 3 will be shown. If the new computer calibration can not be identified by the programmer, this screen will appear:

```
CODE 6D:
CAL NOT FOUND
```

- Call Hypertech at the provided phone number on the programmer screen. Please have your vehicle VIN number ready. The Hypertech technical staff will instruct you what to do.

6. BLANK SCREEN

- If the programmer does not turn on when the ▲ arrow is pressed, make sure that both ends of the cable are fully inserted. Press the ▲ arrow again. If the programmer still does not turn on, **check for a blown fuse in the vehicle fuse panel for either the cigarette lighter or the accessory circuit.** Replace with the proper amperage fuse. Call Hypertech at 901-382-8888, if this does not correct the problem.

IF YOU HAVE ANY PROBLEMS OR QUESTIONS, PLEASE CALL OUR TECHNICAL STAFF AT 901-382-8888

HOURS: 8AM - 5PM Central Time, Monday - Friday
Hypertech, Inc. 3215 Appling Road
Bartlett, TN. 38133-3999
Visit our website at www.hypertech.com
or e-mail us at sales@hypertech.com

What To Do Before Taking Your Vehicle In For Service

    If you take your vehicle to a dealer or mechanic for service, you must first remove the Hypertech Power Tuning and restore the stock programming. This is because diagnostic devices expect to find stock calibrations and will often overwrite the program if the latest calibration is not found in the computer memory. This will result in the loss of your Hypertech Power Tuning data. The Hypertech Power Programmer has an internal security system that allows its Power Tuning program to be installed in only one vehicle at a time. In order to maintain the most current stock calibrations for your vehicle, the Power Programmer is designed to allow you to restore the stock tuning before you take your vehicle in for service so that the service technician can upgrade your stock calibrations. After the service is complete, you can reinstall your Hypertech Power Tuning. If you have any questions related to service issues, please call Hypertech at 901-382-8888.

PRODUCT WARRANTY
Factory Direct Limited Lifetime Warranty

    All HYPERTECH Power Tuning Products* are warranted against defects in materials or workmanship. Hypertech's liability under this warranty shall be limited to the prompt correction or replacement of any defective part of the product which HYPERTECH determines to be necessary. This Limited Lifetime Warranty is to the original purchaser for as long as he or she owns the vehicle on which the product is originally installed, providing all the information requested is furnished. You must retain a copy of your original sales invoice or receipt. Without proper documentation, a service fee will be applied. **Resold units are <u>NOT</u> covered under this warranty.**

* Power Tuning products are Power Chips, Power Modules,
  Power Tuning Modules, HyperPACs, and Power Programmers.
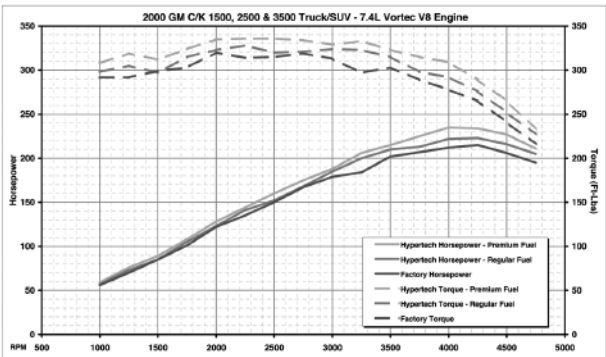
SPECIALTY AUTO PARTS CONSUMER'S BILL OF RIGHTS

Your Rights To Personalize Your Vehicle

Article 1: You have the **Right** to buy high-quality, reliable aftermarket performance and specialty parts, accessories, and styling options.

Article 2: You have the **Right** to use high-quality aftermarket parts and know that your new vehicle warranty claims will be honored. In fact, your vehicle dealer may not reject a warranty claim simply because an aftermarket product is present. A warranty denial under such circumstances may be proper only if an aftermarket part caused the failure being claimed.

Article 3: You have the **Right** to install and use emissions-legal aftermarket performance parts without incurring hassles and onerous procedures during state vehicle emissions inspections.

Article 4: You have the **Right** to actively oppose any proposed (or existing) laws or regulations that will reduce your freedom to use aftermarket automotive parts and service or will curtail your ability to take part in the automotive hobbies of your choice.

Article 5: You have the **Right** to patronize independent retail stores and shops for vehicle parts and service. The U.S. aftermarket offers the world's finest selection of performance and specialty parts, accessories, and styling options. These aftermarket products satisfy the most discriminating customers seeking personalized vehicles for today's lifestyle.

The Consumer's Bill Of Rights courtesy of
Specialty Equipment Market Association (SEMA)

Typical Performance Gains

NOTE: All dynamometer tests are performed under controlled conditions. Results may vary, depending on the specific vehicle, altitude, temperature, fuel used, and various other conditions that affect vehicle performance. Power gains shown are specific to the vehicle tested and representative of the average gains verified. **For a color, printable power graph of your particular application, check out our website at www.hypertech.com.**

2000 GM C/K 1500, 2500 & 3500 Truck/SUV - 7.4L Vortec V8 Engine

Legend:
- Hypertech Horsepower - Premium Fuel
- Hypertech Horsepower - Regular Fuel
- Factory Horsepower
- Hypertech Torque - Premium Fuel
- Hypertech Torque - Regular Fuel
- Factory Torque

Horsepower

RPM	Factory HP	Hypertech Regular Fuel HP	(Gain)	Hypertech Premium Fuel HP	(Gain)
1000	56	57	(+1)	59	(+3)
1250	70	73	(+3)	76	(+6)
1500	85	85	(+0)	89	(+4)
1750	101	105	(+4)	108	(+7)
2000	122	123	(+1)	128	(+6)
2250	135	141	(+6)	144	(+9)
2500	150	152	(+2)	160	(+10)
2750	167	168	(+1)	175	(+8)
3000	179	185	(+6)	188	(+9)
3250	184	200	(+16)	206	(+22)
3500	202	210	(+8)	215	(+13)
3750	207	213	(+6)	235	(+18)
4000	212	222	(+10)	235	(+23)
4250	215	223	(+8)	234	(+19)
4500	206	216	(+10)	227	(+21)
4750	195	205	(+10)	211	(+16)

Torque

RPM	Factory Torque	Hypertech Regular Fuel Torque	(Gain)	Hypertech Premium Fuel Torque	(Gain)
1000	292	298	(+6)	308	(+16)
1250	292	305	(+12)	319	(+27)
1500	299	297	(+-2)	312	(+13)
1750	303	315	(+12)	324	(+21)
2000	320	323	(+3)	335	(+15)
2250	314	328	(+14)	336	(+22)
2500	315	320	(+5)	336	(+21)
2750	319	321	(+2)	334	(+15)
3000	313	324	(+11)	329	(+16)
3250	297	323	(+26)	333	(+36)
3500	303	315	(+12)	323	(+20)
3750	299	298	(+8)	315	(+24)
4000	278	292	(+14)	309	(+31)
4250	265	276	(+11)	289	(+24)
4500	241	252	(+11)	265	(+24)
4750	216	227	(+11)	233	(+17)

	MAX Horsepower	MAX Torque
Hypertech Premium Fuel	235 HP @ 4000 RPM	336 Ft-Lbs @ 3250 RPM
Hypertech Regular Fuel	223 HP @ 4250 RPM	328 Ft-Lbs @ 3250 RPM
Factory	215 HP @ 4250 RPM	320 Ft-Lbs @ 2000 RPM

	MAX Horsepower Gain	MAX Torque Gain
Hypertech Premium Fuel	+23 HP @ 4000 RPM	+36 Ft-Lbs @ 3250 RPM
Hypertech Regular Fuel	+16 HP @ 3250 RPM	+26 Ft-Lbs @ 3250 RPM
Factory	—	—

Power Programmer Features

Regular and Premium Fuel Power Tuning
Adjustable Top Speed Limiter for speed rated tires: 110, 116, & 128 MPH
Transmission Shift Firmness
Adjustable Transmission Shift Points

Reads and Clears Factory Diagnostic Trouble Codes (DTC's)
Axle Ratio Correction for 3.08, 3.42, 3.73, 4.10, & 4.56
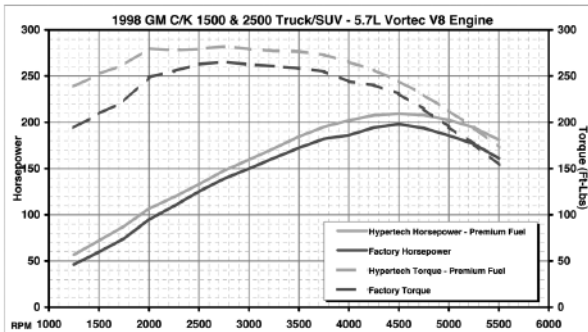Tire Size Correction for 24"-34"

HYPERTECH
3215 Appling Rd., Bartlett, TN 38133   www.hypertech.com
(901) 382-8888   © Hypertech, Inc. 2005

Vehicle Tested:	2000 Chevrolet C2500
Engine:	7.4L Vortec V8
Transmission:	4-Speed Auto
Gear Ratio:	Stock
Tire Size:	Stock
Test Date:	12/1/2000

Power Programmer Part #:

30024

1998 GM C/K 1500 & 2500 Truck/SUV - 5.7L Vortec V8 Engine

Hypertech Horsepower - Premium Fuel
Factory Horsepower
Hypertech Torque - Premium Fuel
Factory Torque

	Horsepower				Torque		
RPM	Factory	Hypertech Premium Fuel		RPM	Factory	Hypertech Premium Fuel	
	HP	HP	(Gain)		Torque	Torque	(Gain)
1250	46	57	(+11)	1250	194	239	(+45)
1500	60	72	(+12)	1500	209	252	(+43)
1750	74	87	(+13)	1750	223	262	(+39)
2000	95	107	(+12)	2000	249	280	(+31)
2250	109	119	(+10)	2250	255	278	(+23)
2500	125	133	(+8)	2500	263	279	(+16)
2750	139	148	(+9)	2750	265	282	(+17)
3000	150	160	(+10)	3000	262	279	(+17)
3250	161	172	(+11)	3250	261	277	(+16)
3500	172	184	(+12)	3500	259	277	(+18)
3750	182	195	(+13)	3750	255	273	(+18)
4000	186	202	(+16)	4000	244	265	(+21)
4250	194	208	(+14)	4250	240	257	(+17)
4500	198	209	(+11)	4500	231	244	(+13)
4750	194	208	(+14)	4750	214	230	(+16)
5000	186	203	(+17)	5000	195	213	(+18)
5250	177	194	(+17)	5250	177	194	(+17)
5500	161	181	(+20)	5500	154	173	(+19)

	MAX Horsepower	MAX Torque			MAX Horsepower Gain	MAX Torque Gain
Hypertech Premium Fuel	209 HP @ 4500 RPM	282 Ft-Lbs @ 2750 RPM			+20 HP @ 5500 RPM	+45 Ft-Lbs @ 1250 RPM
Factory	198 HP @ 4500 RPM	265 Ft-Lbs @ 2750 RPM			—	—

Power Programmer Features

Premium Fuel Power Tuning
Tire Size Correction for 24"-34"
Transmission Shift Firmness
Adjustable Transmission Shift Points
Adjustable Top Speed Limiter for speed rated tires: 110, 116 & 128 MPH

Reads and Clears Factory Diagnostic Trouble Codes (DTC's)
Axle Ratio Correction for 3.08, 3.42, 3.73, 4.10 & 4.56

HYPERTECH

3215 Appling Rd., Bartlett, TN 38133 www.Hypertech.com
(901) 382-8888   © Hypertech, Inc. 2005

Vehicle Tested: 1998 GMC Yukon
Engine: 5.7L Vortec V8
Transmission: 4-Speed Auto
Gear Ratio: Stock
Tire Size: Stock
Test Date: 12/1/1998

Power Programmer Part #:

30024

Hypertech Merchandise

T-Shirts

Available in long or short sleeve, these T-shirts are high-quality, printed in full-color and display the Hypertech Power Tuning logo. Available in sizes ranging from Small to XXX-large.

Polo Shirts

These short-sleeve polo shirts available in blue, red, white, or black are high-quality 100% cotton and have a full-color Hypertech logo embroidered on the left chest. Available in sizes ranging from medium to XX-large.

T-Shirts	Part #	T-Shirts (cont'd)	Part #
Short Sleeve - Small	600	Long Sleeve - Medium	606
Short Sleeve - Medium	601	Long Sleeve - Large	607
Short Sleeve - Large	602	Long Sleeve - X-Large	608
Short Sleeve - X-Large	603	Long Sleeve - XX-Large	609
Short Sleeve - XX-Large	604	Long Sleeve - XXX-Large	610
Short Sleeve - XXX-Large	605	**Polo Shirts (Order part# & color)**	
Long Sleeve - Medium	606	Medium	638
Long Sleeve - Large	607	Large	639
Long Sleeve - X-Large	608	X-Large	640
Long Sleeve - XX-Large	609	XX-Large	641
Long Sleeve - XXX-Large	610		

Baseball Caps

Hypertech baseball caps are available in three styles and come with a full-color Hypertech logo embroidered on the front. All baseball caps are one-size-fits-all.

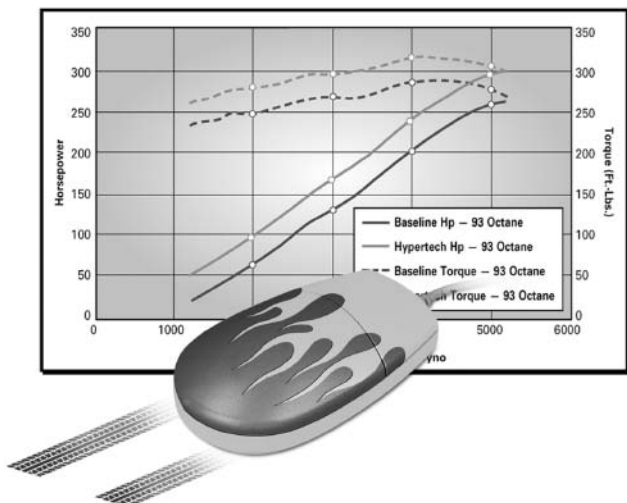|	Part #
Solid Navy Blue	633
Denim w/Khaki Bill	634
Khaki w/Navy Blue Bill	635

Coffee Mugs

Enjoy your morning coffee with the Hypertech coffee mug, displaying the Hypertech logo and engine icon in full color on both sides - **Part #626**.

To Place An Order, Call Hypertech at 901-385-1888.

Notes

Make Tracks
To Our Website

If you'd like to see how much horsepower and torque
Hypertech Power Tuning™ can deliver for your car or truck,
visit our website for the latest dyno charts for the most popular
Dodge, Ford, & GM vehicles. If you don't find the dyno chart
for your application listed on our website, please send us an
email (sales@hypertech.com) for the horsepower and torque
gains of your particular application.

www.hypertech.com

HYPERTECH

The World Leader In High-Performance Engine Tuning Products