

Transmission Report

Volume 3, No. 1

March 2012

Breaking it Down Which Sonnax Kit is Right for Your Rebuild?

Sonnax offers thousands of the industry's most effective, highest quality parts developed to address the root-cause of transmission problems.

Some Sonnax parts are offered in convenient kits to help rebuilders take on specific transmission challenges.

Many kit components are the same top-notch parts sold individually to resolve specific valve body complaints. Others are exclusive parts sold only as part of a Sonnax kit.

Choosing the right Sonnax kit depends on what you want out of your rebuild:

- A quick, easy **line pressure performance boost**?
- A simple, cost-effective **solution for common shift problems**?
- A **comprehensive overhaul** that restores the pump and valve body hydraulic function?
- **Performance and durability enhancements** combined with hydraulic function repair?

 <p>Sonnax PERFORMANCE Line Pressure Booster Kit</p> <p>TRANSMISSION biggest Top Shop Products AWARD 12</p>	 <p>ZIP KIT sonnax</p>	 <p>THE SURE CURE sonnax Transmission Reconditioning Kit</p>	 <p>Sonnax PERFORMANCE Performance Pack</p>
<p>Line Pressure Booster Kit</p>	<p>Zip Kit™</p>	<p>The Sure Cure®</p>	<p>Performance Pack</p>
<p>Affordable kit for big performance without a big price tag.</p>	<p>The first step in correcting common shift problems.</p>	<p>Comprehensive kit for big problems you don't want back.</p>	<p>The best parts for performance & heavy duty recalibration.</p>
<ul style="list-style-type: none"> • Affordable, drop-in kit with no special tools required • Increases torque capacity • Improves shift feel without low-speed harshness 	<ul style="list-style-type: none"> • Installs quickly & easily without any special tools • Stops leaks so the valve body works the way it's supposed to • In-depth tech booklet for installation, plus diagnostics & repair 	<ul style="list-style-type: none"> • Restores OE shift quality • Repairs biggest trouble areas to reduce comebacks • Step-by-step instructions for comprehensive valve/pump body restoration 	<ul style="list-style-type: none"> • Firmer shifts under load without low-speed harshness • Consistent recalibration results with tuning options • Improved durability • No special tools required
<p>Page 2</p>	<p>Page 3</p>	<p>Page 4</p>	<p>Page 5</p>



Line Pressure Booster Kit

Affordable kit for big performance without a big price tag.

- Affordable, drop-in kit with no special tools required
- Increases torque capacity
- Improves shift feel without low-speed harshness



Zip Kit™

The first step in correcting common shift problems.

- Installs quickly & easily without any special tools
- Stops leaks so the valve body works the way it's supposed to
- In-depth tech booklet for installation, plus diagnostics & repair



The Sure Cure®

Comprehensive kit for big problems you don't want back.

- Restores OE shift quality
- Repairs biggest trouble areas to reduce comebacks
- Step-by-step instructions for comprehensive valve/pump body restoration



Performance Pack

The best parts for performance & heavy duty recalibration.

- Firmer shifts under load without low-speed harshness
- Consistent recalibration results with tuning options
- Improved durability
- No special tools required

Line Pressure Booster Kits



11 Sonnax Booster Kits Available



Ford

E4OD, 4R100
AODE, 4R70W, 4R75W

GM

4L60-E, 4L65-E, 4L70-E*
4L60-E, 4L65-E, 4L70-E**
4L60 (700-R4), 200-4R
400
4L80-E, 4L85-E
4T65-E
350

*Early-style pump
**Late-style pump

Chrysler

68RFE
45/545RFE

These electronic booster kits are for Chrysler units with computer-controlled line pressure.

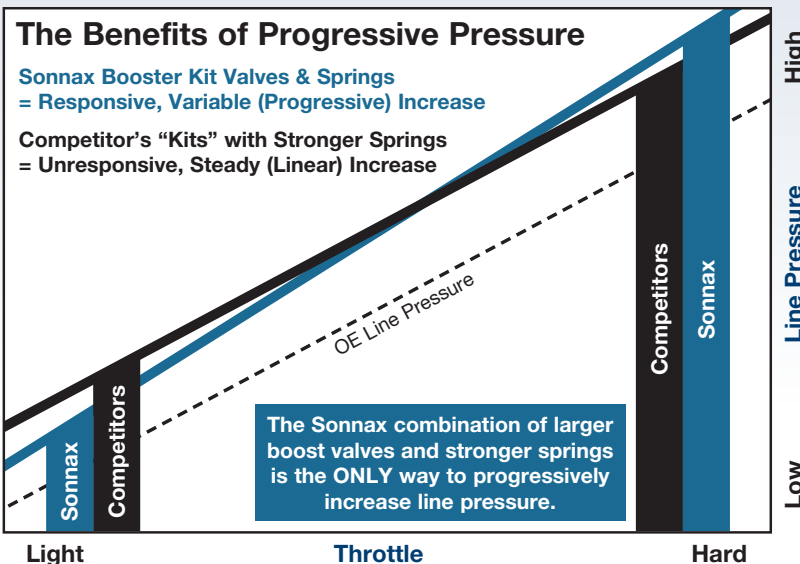
Affordable Kits for Big Performance Without a Big Price Tag

The larger boost valves and stronger PR springs in Sonnax booster kits raise line pressure progressively to give you the best of both worlds: a modest pressure increase at the low end, with a high-end pressure that is equal to or greater than that of other aftermarket kit springs.

Simple, Affordable, Drop-In Parts

Larger Boost Valves are engineered for exceptional line rise precision.

Springs are about 10% stronger than OE and won't overload the pump at idle, produce harsh, low-speed shifts or engagements.





Line Pressure Booster Kit

Affordable kit for big performance without a big price tag.

- Affordable, drop-in kit with no special tools required
- Increases torque capacity
- Improves shift feel without low-speed harshness



Zip Kit™

The first step in correcting common shift problems.

- Installs quickly & easily without any special tools
- Stops leaks so the valve body works the way it's supposed to
- In-depth tech booklet for installation, plus diagnostics & repair



The Sure Cure®

Comprehensive kit for big problems you don't want back.

- Restores OE shift quality
- Repairs biggest trouble areas to reduce comebacks
- Step-by-step instructions for comprehensive valve/pump body restoration



Performance Pack

The best parts for performance & heavy duty recalibration.

- Firmer shifts under load without low-speed harshness
- Consistent recalibration results with tuning options
- Improved durability
- No special tools required

FOUR Sonnax Zip Kits Available



More Zip Kits Coming Soon!

Ford

4R44E, 4R55E, 5R44E, 5R55E

Toyota

U140E/F, U240E, U241E
U151E/F, U250E

ZF Sachs/Ford

ZF6HP19/26/32, Ford 6R60

Zip Kits™

NEW!

The First Step in Correcting Common Shift Problems

Zip Kits are the newest addition to the lineup of Sonnax kits which bring together multiple parts to address critical circuit pressure loss.

No Special Tools Required

Unlike more advanced Sonnax parts which require reaming to fully repair bore wear, Zip Kit components go straight from the box into the valve body without any special tools or modification. Plus, since they're all drop-in parts, at no point are you permanently altering the valve body.

Tackles the Big Picture of Shift Problems

Valve and bore wear occurs when valves repeatedly stroke in a pump or valve body casting. This wear will eventually increase clearance beyond what is necessary to maintain a proper hydraulic seal, making it impossible for the valve to function properly. Zip Kits components resolve many shift problems by replacing the most commonly worn parts which cause critical hydraulic pressure loss.

In-Depth Tech Booklet

Each Zip Kit comes with thorough, easy-to-follow technical information for valve body diagnostics and kit installation. In addition, Sonnax provides vacuum testing and further repair options for higher mileage units or for repairing specific complaints that go beyond the scope of the Zip Kit. It's like having a Sonnax tech specialist right at your bench!



Line Pressure Booster Kit

Affordable kit for big performance without a big price tag.

- Affordable, drop-in kit with no special tools required
- Increases torque capacity
- Improves shift feel without low-speed harshness



Zip Kit™

The first step in correcting common shift problems.

- Installs quickly & easily without any special tools
- Stops leaks so the valve body works the way it's supposed to
- In-depth tech booklet for installation, plus diagnostics & repair



The Sure Cure®

Comprehensive kit for big problems you don't want back.

- Restores OE shift quality
- Repairs biggest trouble areas to reduce comebacks
- Step-by-step instructions for comprehensive valve/pump body restoration



Performance Pack

The best parts for performance & heavy duty recalibration.

- Firmer shifts under load without low-speed harshness
- Consistent recalibration results with tuning options
- Improved durability
- No special tools required

The Sure Cure®

Comprehensive Kit for Big Problems You Don't Want Back

17 Sonnax Sure Cure Kits Available

Ford

AODE ('95-Earlier) AX4N (4F50N)
 AODE ('96-Later) AXODE
 E4OD

Chrysler

41TE (A604)
 42RH/RE
 46-47RH/RE, 48RE

GM

Saturn TAAT 4T60-E ('93-'96)
 4L60 (700-R4) 4T60-E ('97-Later)
 4L60-E 4T65-E
 4L80-E

Volkswagen/Audi

01M/01N/01P
 096/097/098



Sure Cure kits are more than just another box of parts for re-calibration, re-spring or wear compensation.

Each kit is a comprehensive reconditioning package featuring the best Sonnax products developed to help rebuilders restore and enhance transmission performance. Plus, every Sure Cure is backed by years of trusted use in the industry.

Restore Shift Quality & Reduce Comebacks

Sure Cure components are the same Sonnax parts sold individually to resolve common valve body complaints as well as other transmission problems. Plus - no worries about comebacks! The high-quality Sonnax parts in each Sure Cure kit repair worn areas and protect the transmission against future damage.

Easy to Use

Each kit comes with easy-to-read, step-by-step installation guide that covers the inspection and repair of the most critical areas of the valve body. The instructions even include a reference list of rebuilding specifications.

Save Time & Money

Get everything you need for restoring troublesome units in one place, at one cost, from one trusted source - SONNAX!



Line Pressure Booster Kit

Affordable kit for big performance without a big price tag.

- Affordable, drop-in kit with no special tools required
- Increases torque capacity
- Improves shift feel without low-speed harshness



Zip Kit™

The first step in correcting common shift problems.

- Installs quickly & easily without any special tools
- Stops leaks so the valve body works the way it's supposed to
- In-depth tech booklet for installation, plus diagnostics & repair



The Sure Cure®

Comprehensive kit for big problems you don't want back.

- Restores OE shift quality
- Repairs biggest trouble areas to reduce comebacks
- Step-by-step instructions for comprehensive valve/pump body restoration



Performance Pack

The best parts for performance & heavy duty recalibration.

- Firmer shifts under load without low-speed harshness
- Consistent recalibration results with tuning options
- Improved durability
- No special tools required

Performance Packs

The Best Parts for Performance & Heavy Duty Recalibration

Performance Packs Available for these Popular Units

GM 4L60-E, 4L65-E, 4L70-E

Part No. HP-4L60E-01

- Shorter shifts which get progressively firmer with load
- Faster pressure increase & higher overall pressure for greater clutch/band holding power
- Patented 2-3 calibration for consistent results
- Improved high RPM pressure
- Unique 1-2 accumulator spring combination & patented billet accumulator pistons
- Prevents accumulator & separator plate wear
- Optional TCC on-off conversion
- Critical foundation for other 4L60 performance upgrades

Ford 4R100

Part No. SC-4R100HD

- Recalibrated shift accumulation with tuneability for great heavy duty shifts
- Improved accumulator valves for greater clutch durability
- Sure Lock overdrive retaining ring prevents loss of 4th
- One-piece case bushing
- Improved pump components to minimize leaks, maintain pressure, TCC performance & lube
- Includes internal parts for setup & to prevent common failures

Note: Formerly a popular Sure Cure option, this kit has been further refined to become a Performance Pack.

Performance enthusiasts look to Sonnax when building stronger, faster, more reliable transmissions. Performance Packs combine key Sonnax performance and heavy duty parts into powerhouse kits which take transmissions to the next level.

Performance Shifts on Demand

Performance Packs let you achieve firmer shifting under load without sacrificing low-speed drivability. It's the ultimate way to get an impressive transmission that responds to throttle and increased load with quick, firm shifts.

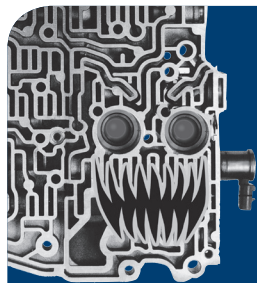
Dial-In Consistent Calibration Results

Select kit components are precision engineered to recalibrate pressures and shift accumulation. Detailed, step-by-step installation instructions make it easy to adjust transmission performance levels with confidence.

Repair & Prevent Damage

High-quality, innovative and durable Sonnax parts target commonly worn areas in the transmission and prevent future damage.

No Special Tools Required



Tough valve bodies
don't scare Sonnax...
...and they shouldn't
scare you!

sonnax® ROADSHOW

FREE SEMINAR Valve Body
Diagnostics & Reaming

The Sonnax message is simple:

To fix that transmission right,
you have to fix the valve body,
and sometimes the only way to
do that is to ream the bore.

Join us at an upcoming
Roadshow seminar to learn:

- How to evaluate a valve body
- Advanced testing procedures
- The “magic” behind Sonnax repairs
- The ins and outs of valve body reaming

PLUS

Dinner's on US (evening seminars only)

Technical Handouts

Free Testing Materials

Sonnax Roadshow T-shirt

\$50 Rebate on the Sonnax
VB-FIX & Vacuum Test Stand



Learn Cutting-Edge Valve Body Repair at the Sonnax Roadshow

Thanks to the great response last year to the Sonnax Roadshow, this popular series of free valve body reaming and testing seminars will continue into 2012 with even more events planned throughout the country.

The Sonnax Roadshow focuses on live instruction in two main areas: valve body diagnostics and bore reaming.

While many rebuilders know the basics behind diagnostic **vacuum testing**, they may never have received formal instruction and are unsure how to make these techniques work in their shop. **Bore reaming** – an innovative repair method used by the industry's top transmission rebuilders, specialists and large valve body remanufacturers – also can be challenging without firsthand experience. These are topics the Roadshow is designed to address, making it a great way for anyone to truly advance their knowledge and skills.

At each Roadshow event, Sonnax introduces methods for identifying the root cause of transmission problems, plus repair techniques to completely restore and/or upgrade units. The Roadshow's live testing and reaming station is the cornerstone of the seminar. Attendees see valve bodies tested and repaired right in front of them, plus get a bird's-eye-view of the details thanks to a large overhead video screen zoomed in on the equipment. Attendees are welcome to test and ream units at the workstation themselves to get a feel for the process and receive further hands-on instruction.

The Roadshow is typically held Thursday or Friday evenings at facilities provided by authorized Sonnax distributors, who have been a key part in making the event such a success. It's a great opportunity for everyone to meet face to face, talk shop and learn something new. The goal is to keep each seminar small so that there is ample opportunity for informal interaction with Sonnax presenters. Questions and comments are encouraged at all times, not only because it's a chance learn from the rest of the group, but also because it lets Sonnax address specific topics of interest in more depth.

Roadshow presenters are drawn from the same team of experts who have made Sonnax products the industry's most trusted transmission solutions, people who understand and believe in a better, smarter approach to valve body repair and are excited to share their knowledge. They are happy to answer questions and work one-on-one with anyone who wants to try their hand at vacuum testing or valve body reaming on Roadshow equipment.



ATRA POWERTRAIN EXPO 2011



ROADSHOW SEMINAR AT
ATRA POWERTRAIN EXPO 2011

2012 Sonnax Roadshow Schedule

Visit www.sonnax.com for more information on these events and how to contact a seminar host to reserve a seat. Advance registration is recommended.



View more photos of recent Roadshows on the Sonnax Facebook page!

Date	Location	Seminar Host/Venue
March 29	Dallas, Texas	Showpower Expo 2012 <small>Call (800) 274-7890 to register or sign up at the show.</small>
April 19	Plainview, New York	Transtar Industries
May 10	Indianapolis, Indiana	Whatever It Takes Transmission Parts
May 31	St. Louis, Missouri	Transtar Industries
June 21	San Diego, California	National Transmission Products
July 12	Kent, Washington	Transtar Industries
August 2	Addison, Illinois	Transtar Industries
August 23	Salt Lake City, Utah	Transtar Industries
September 13	Portland, Oregon	Portland Transmission Warehouse
October 4	Pittsburgh, Pennsylvania	Transtar Industries
October 28	Las Vegas, Nevada	ATRA Powertrain Expo <small>No registration required; free for trade show attendees.</small>
November 29	Pompano Beach, Florida	Whatever It Takes Transmission Parts