



## Important information regarding the GM 2.8L / 3.0L / 3.6L HFV6

### **WARNING** **ENGINE SLUDGE or DEBRIS IN THE OIL SYSTEM** **CAN LEAD TO PREMATURE FAILURE**

Most timing chain failures result from oil system issues. This engine and timing system are highly dependent on clean oil and sufficient oil pressure.

Sludge buildup and/or particulate matter in the oil system will:

- 1.) clog oil feed ports, reducing oil pressure/lubrication to components
- 2.) prematurely wear chain components resulting in chain stretch
- 3.) affect the performance of cam phasers and chain tensioners leading to timing system instability which can result in premature failure.

Direct injection engines are especially prone to particulate matter issues.

#### **CHECK ENGINE CONDITION**

**Make sure the engine is free from sludge and particulate matter.**

- Simply replacing the timing components will not fix an unhealthy engine.
- If the engine shows signs of sludge buildup and/or excessive particulate matter, you should advise the vehicle owner that a timing system replacement may not be a long-term solution and perhaps they should consider a more complete repair.

#### **OIL & FILTER**

**After a successful new timing set installation, advise vehicle owner of the importance of frequent and high-quality oil changes.**

- Use GM recommended Dexos full synthetic oil and a high-quality filter.
- We recommend oil and filter change EVERY 3,000-5,000 MILES.
- This engine consumes oil. Multiple “top offs” may be needed between service.
- For more on the importance of clean oil in this application, see link below:  
[www.cloyes.com/the-importance-of-clean-quality-oil-in-timing-chain-systems/](http://www.cloyes.com/the-importance-of-clean-quality-oil-in-timing-chain-systems/)

We recommend a full timing system replacement using Cloyes kit #9-0753SVVT. If you elect to reuse the VVT phasers/sprockets, please be aware that excessive tooth wear will unequally load the chain and result in premature chain fatigue.

SEE IMPORTANT INSTALLATION HELP ON NEXT PAGE

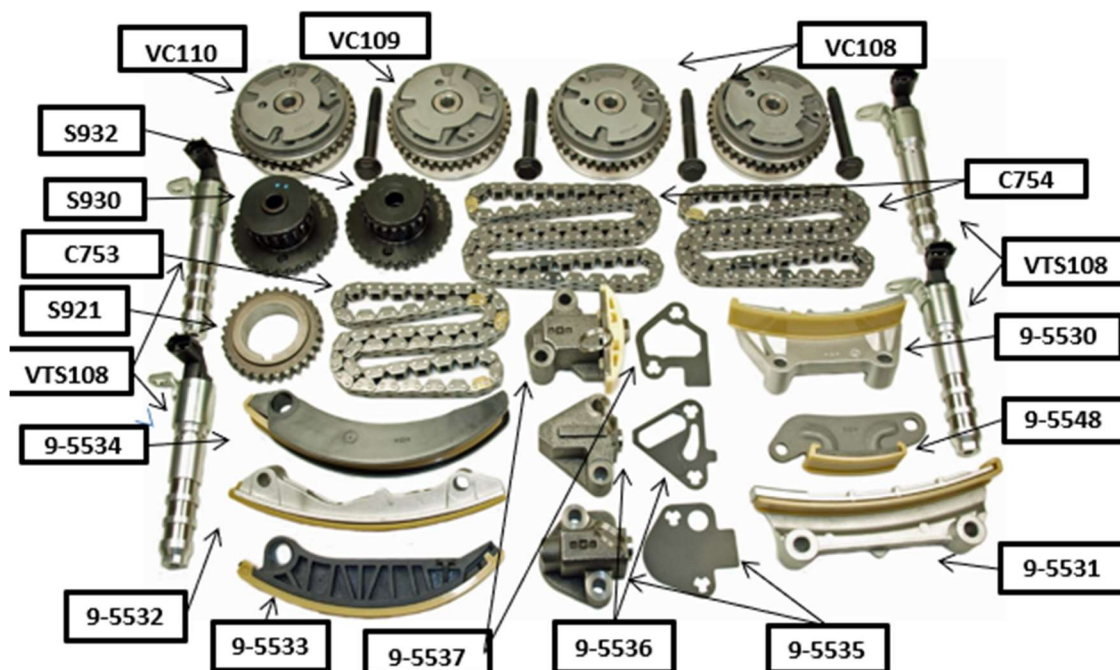


# 9-0753S / 9-0753SX / 9-0753SVVT

## GM 2.8L 3.0L 3.6L HFV6

***Thank you for your purchase of Cloyes timing products!***

This is a critical engine system repair which can extend the life of your engine.



CHECK CONTENTS OF YOUR KIT		YOUR KIT NUMBER		
PART	DESCRIPTION	9-0753S	9-0753SX	9-0753SVVT
C753	Primary timing chain	1	1	1
9-5530	Primary chain guide – upper	1	1	1
9-5548	Primary chain guide - lower	1	1	1
9-5537	Primary chain guide - R lower (incl gasket)	1	1	1
C754	Secondary timing chain	2	2	2
9-5531	Secondary chain guide – L	1	1	1
9-5532	Secondary chain guide – R	1	1	1
9-5533	Secondary chain tensioner guide – R	1	1	1
9-5534	Secondary chain tensioner guide - L	1	1	1
9-5535	Secondary chain tensioner - L upper (incl gasket)	1	1	1
9-5536	Secondary chain tensioner - R upper (incl gasket)	1	1	1
S921	Crank sprocket	1		1
S930	Idler sprocket – L	1		1
S932	Idler sprocket – R	1		1
VC108	VVT cam phaser – exhaust L & R (incl bolt)			2
VC109	VVT cam phaser – intake L (incl bolt)			1
VC110	VVT cam phaser – intake R (incl bolt)			1
VTS108	VVT solenoid – intake & exhaust (L & R)			4
	TOTAL NUMBER OF COMPONENTS	15	12	23

**SEE IMPORTANT INSTALLATION HELP ON NEXT PAGE**

There is substantial labor time required to complete this repair. We have resources available to save you TIME and MONEY and help to ensure a successful repair.

## 10-MINUTE INSTALLATION VIDEO FOR THIS SPECIFIC APPLICATION

Scan QR Code or visit link below for 10-minute video that will walk you through the entire repair while providing tips that will SAVE YOU TIME and MONEY.



SCAN THIS

or

GO HERE



<https://www.cloyes.com/gm-3-0-3-6l-timing-replacement-cloyes-9-0753s/>

## KEY INSTALLATION TIPS FOR THIS SPECIFIC APPLICATION

Here are some key installation steps to pay special attention to during this repair.

- **PRIMARY GUIDE LOWER:**

Unless you are servicing the oil pump, do not disturb the bolts on this guide. Leave guide bracket in place and simply replace nylon shoe (see 4:28 mark in video). This maintains critical torque consistency of oil pump housing bolts.

- **IDLER SPROCKETS:**

Make sure you install the idler sprockets on the correct banks. The flat side with the protruding center feature installs against the engine.

- **CAM PHASERS:**

Vehicles with production date prior to 6/5/2009 require use of thrust washers behind cam phasers. Cloyes phasers VC108, VC109, VC110 and other 4-bolt style phasers require GM #12632859 washers, approx 0.051"- 0.053" thick.

- **CHAINS:**

Make sure to align chains between raised lips on the edges of the guides.

- **TENSIONER ACTIVATION:**

Double check tensioner activation. After the pin is pulled, you may still need to fully compress and release the tensioner piston to ensure proper activation.

## TECHNICAL ASSISTANCE *(English and Spanish available)*

Contact us with any questions you have BEFORE, DURING or AFTER the repair.

**Cloyes Tech Hotline – (479) 646-1662 ext 228**

**Cloyes Tech E-Mail – [techsupport@cloyes.com](mailto:techsupport@cloyes.com)**