Subject: Engine Wire Harness Chafing

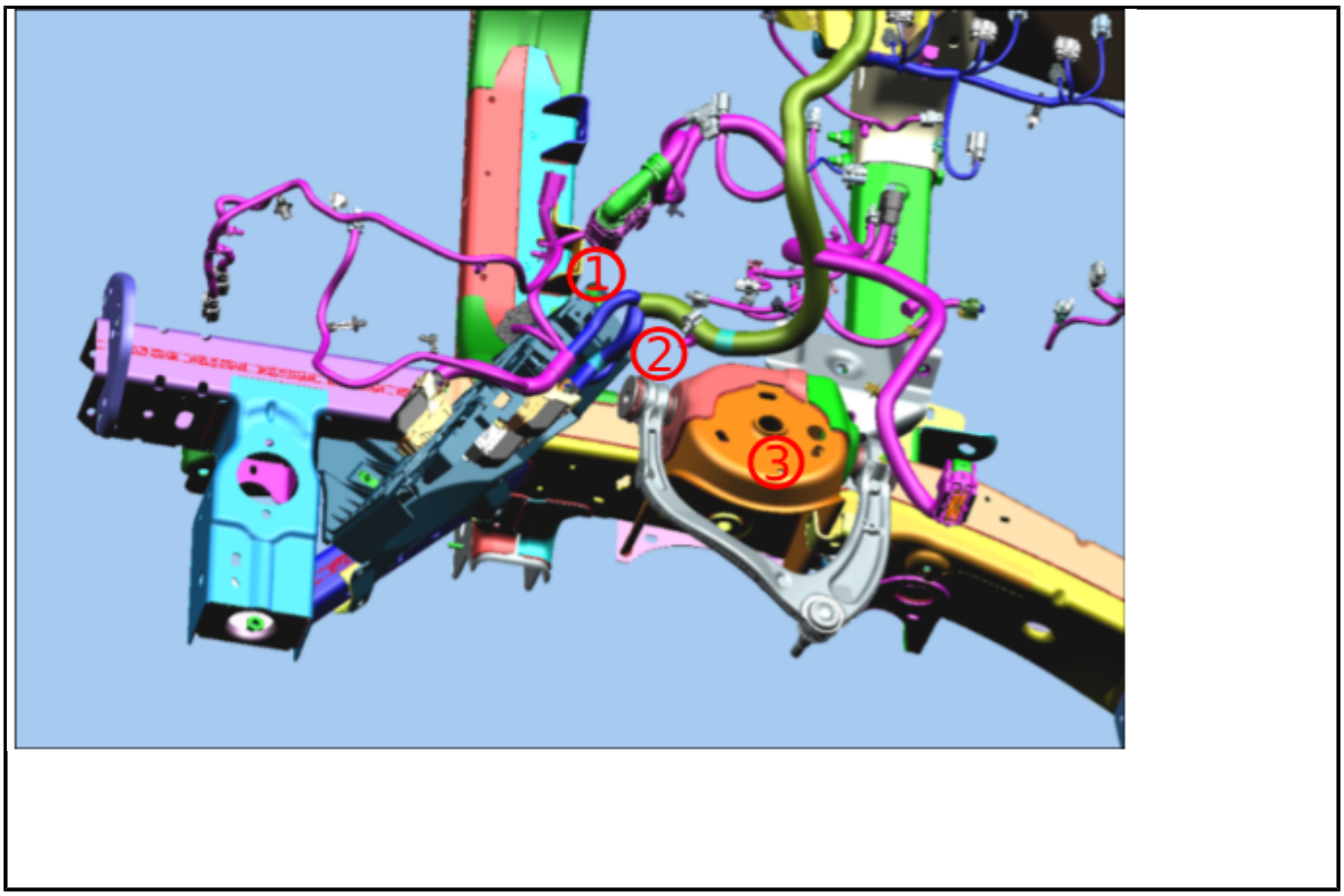
Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Silverado 1500 (New Model)	2019	2019			Equipped with L82, L84, L87, LV3, L3B, or LM2	
	Silverado 1500	2020	2021				
GMC	Sierra 1500 (New Model)	2019	2019				
	Sierra 1500	2020	2021				

Involved Region or Country	United States, Canada, Mexico, Middle East, Chile, Paraguay, Uruguay, Thailand, Australia and New Zealand.
Additional Options (RPOs)	
Condition	Some customers may comment on one or more of the following conditions: • Check Engine light illuminated • Reduced Engine Power (REP) • Reduced Power Steering Assist • Transmission erratically shifting • No start condition • Vehicle stalls

	 5868347 Example of extreme wire chaffing
Cause	The cause of the condition may be an engine wire harness clip was removed during production due to ergonomic issues (hand clearance and branch stiffness). This led to an uncontrolled branch that came into contact with the ECM/TCM bracket, driver side upper control arm, and/or shock tower and caused chaffing during engine vibration and roll.
Correction	Utilizing Engine Harness sleeves, anti-abrasion tape, and zip-ties to secure the harness away from one or more of the chaffing points. Follow the Service Procedure steps below.

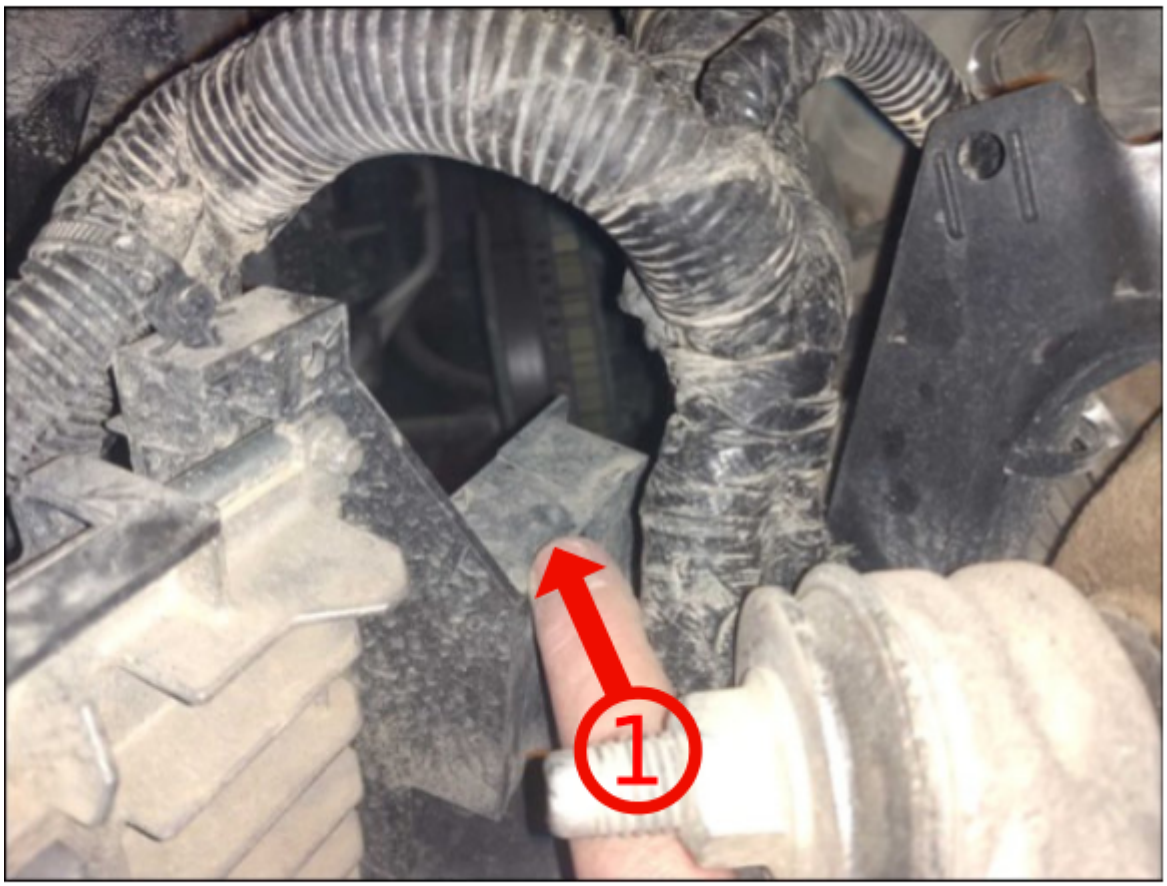
Service Procedure

1. Lift and support the vehicle. Refer to *Lifting and Jacking the Vehicle* in SI.
2. Remove driver side tire and wheel and driver wheelhouse liner. Refer to *Tire and Wheel Removal and Installation*, and *Front Wheelhouse Liner Replacement* in SI.



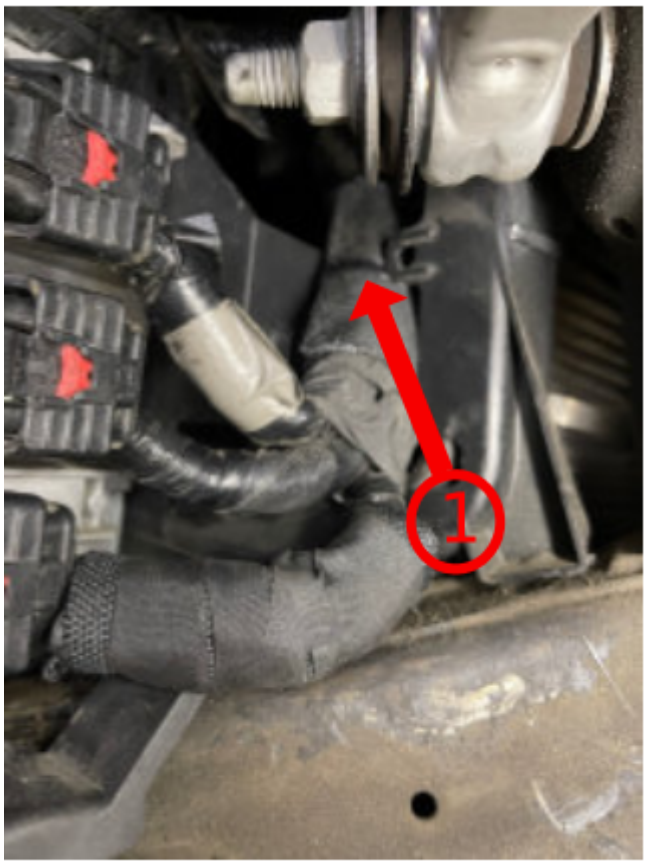
5868341

3. Locate the three contact points where the wire harness is chaffing, the ECM/TCM black bracket (1), the upper control arm (2), and the shock tower bolt (3).



5868349

4. At the ECM/TCM bracket, locate the wire harness laying against the ledge (1).

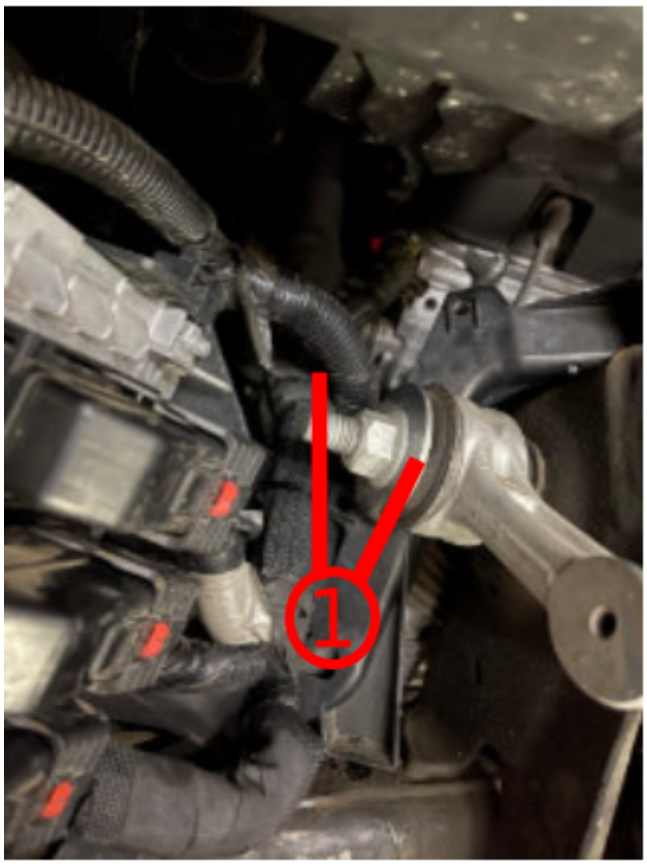


5868350

Wrap the wire harness with the shorter Engine Harness Sleeve then utilizing zip ties and two small holes in the bracket (1).

5868352

Secure the harness snug to the bracket to prevent movement.

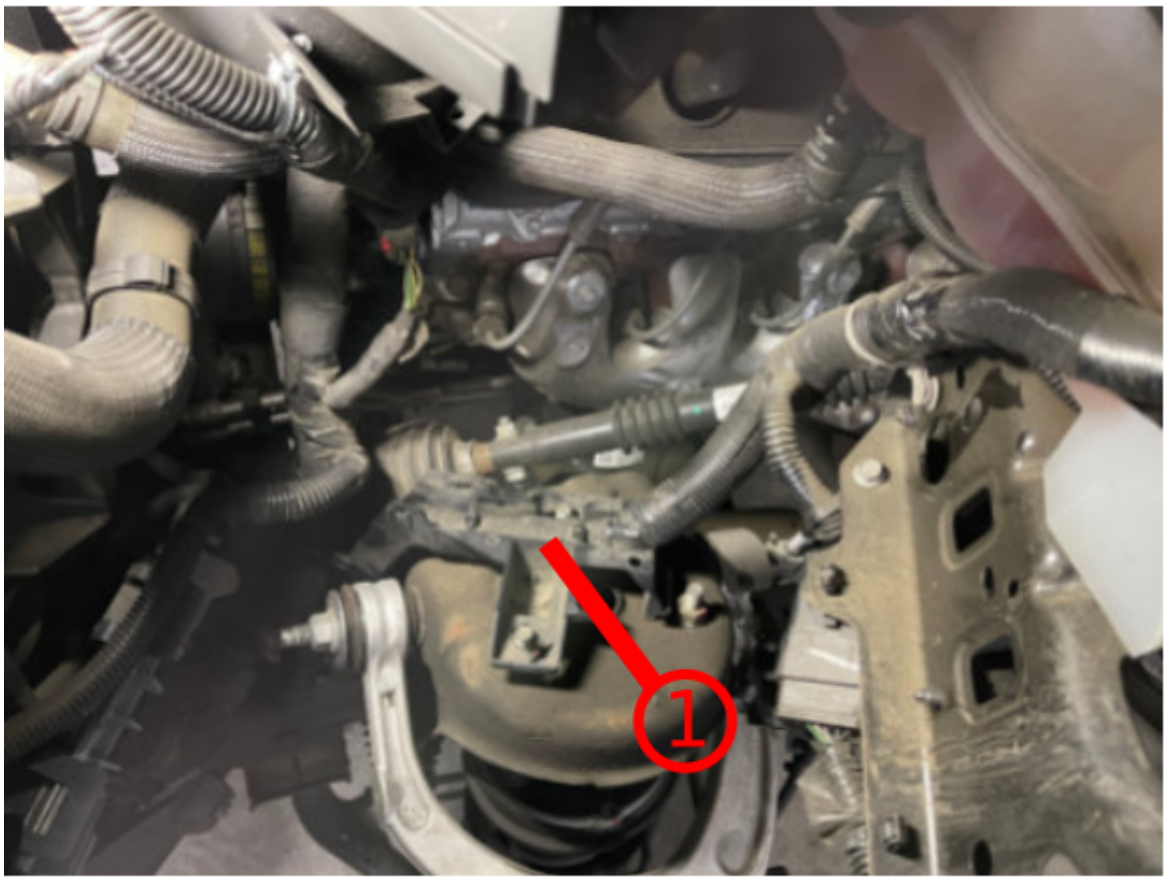


5868355

5. At the upper control arm (1), secure the harness away from control arm (example above shows harness in the correct position, unwrapped).

5868357

Wrap the harness in the shorter Engine Harness Sleeve then wrap with anti-abrasion tape secure it to the harness clip above the ECM/TCM bracket (1) to keep out of the way of the upper control arm.



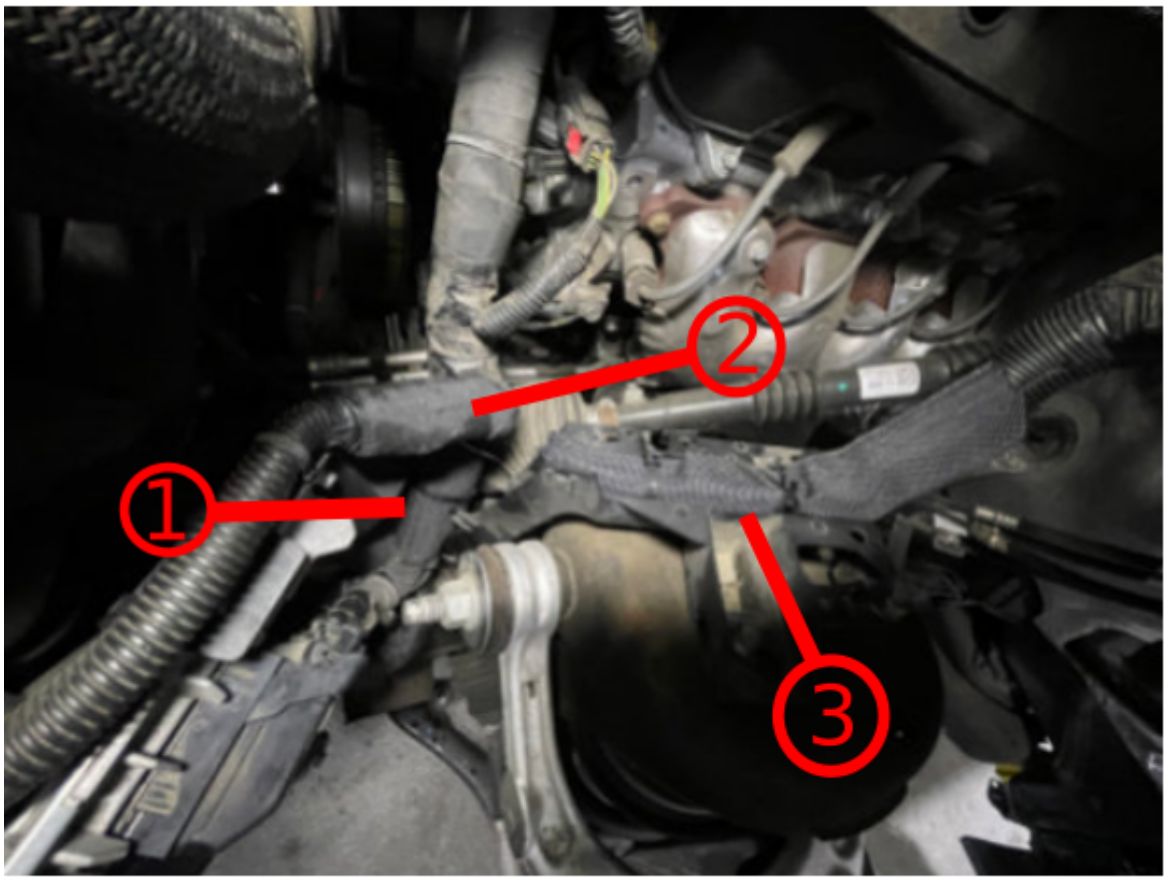
5868359

6. At the shock tower point there is a wire harness canal (1).

5868358

5868362

Using the long Engine Harness Sleeve, wrap the harness and secure it snug to the canal using zip-ties.



5868367

7. Verify the wire harness is wrapped and secured at all three points, the ECM/TCM Bracket (1), Upper Control Arm (2), and the Shock Tower (3). Then reassemble the vehicle.
8. Reinstall the front wheelhouse liner and tire and wheel. Refer to *Front Wheelhouse Liner Replacement* and *Tire and Wheel Removal and Installation* in SI.
9. Remove the support and lower the vehicle.

Parts Information

Causal Part	Description	Part Number	Qty
X	Engine Harness Sleeve	84820678	
X	Engine Harness Sleeve	84826758	
X	Tie Strap	12337820	

Causal Part	Description	Part Number	Qty
X	Black Push Pin Tie Strap	84396606	

Warranty Information

For vehicles repaired under the Bumper-to-Bumper coverage (Canada Base Warranty coverage), use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
*5486188	Wrap and Secure Engine Wire Harness	1.3 hr
*This is a unique Labor Operation for Bulletin use only.		

Version	1
Modified	Released June 29, 2021