

5. Rapid on-off squeal indicates a compression leak around the cylinder head gasket or spark plug.
6. For valve train noise, check for the following:
 - a. Bent pushrod(s).
 - b. Defective lifter(s).
 - c. Valve sticking in guide.
 - d. Worn cam gears and/or cam.
 - e. Damaged rocker arm or shaft. Rocker arm may be binding on shaft.

ENGINE LUBRICATION

An improperly operating engine lubrication system quickly leads to engine damage. The engine oil tank should be checked weekly and the tank refilled as described in Chapter Three.

Oil pump service is covered in Chapter Five.

Oil Light

The oil light, mounted on the indicator light panel (**Figure 66**), will come on when the ignition switch is turned on before starting the engine. After starting the engine, the oil light should go off when the engine speed is above idle.

If the oil light does not come on when the ignition switch is turned on and the engine is not running, check for a burned out oil light bulb. If the bulb is good, check the oil pressure switch (**Figure 67**) as described in Chapter Nine.

If the oil light remains on when the engine speed is above idle, turn the engine off and check the oil level in the oil tank as described in Chapter Three. If the oil level is satisfactory, check the following:

1. Oil may not be returning to the tank from the return line. Check for a clogged or damaged return line or a damaged oil pump.
2. If operating the motorcycle in conditions where the ambient temperature is below freezing, ice and sludge may be blocking the oil feed pipe. This condition will prevent the oil from circulating properly.

Oil Consumption High or Engine Smokes Excessively

1. Worn valve guides.
2. Worn valve guide seals.
3. Worn or damaged piston rings.
4. Restricted oil tank return line.
5. Oil tank overfilled.
6. Oil filter restricted.
7. Leaking cylinder head surfaces.



Oil Fails to Return to Oil Tank

1. Oil lines or fittings restricted or damaged.
2. Oil pump damaged or operating incorrectly.
3. Oil tank empty.
4. Oil filter restricted.

Excessive Engine Oil Leaks

1. Clogged air filter breather hose.
2. Restricted or damaged oil return line to oil tank.
3. Loose engine parts.
4. Damaged gasket sealing surfaces.
5. Oil tank overfilled.

CLUTCH

All clutch troubles, except adjustments, require partial clutch disassembly to identify and repair the problem. Refer to Chapter Six for clutch service procedures.

Clutch Chatter or Noise

This problem is generally caused by worn or warped friction and steel plates. Also check for worn or damaged bearings.

Clutch Slip

1. Incorrect clutch adjustment.
2. Worn friction plates.
3. Weak or damaged diaphragm spring.
4. Damaged pressure plate.

Clutch Drag

1. Incorrect clutch adjustment.
2. Warped clutch plates.
3. Worn or damaged clutch shell or clutch hub.

Harley Davidson Troubleshooting Guide

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Harley Davidson Troubleshooting Guide:

Donny'S Unauthorized Technical Guide to Harley-Davidson, 1936 to Present Donny Petersen, 2013-02-12 In this second part of his fifth volume on Harley Davidsons motorcycles Donny Petersen who studied privately with Harley Davidson engineers shares practical knowledge and streetwise tips on the Shovelhead motorcycle Donny presents what Harley Davidson has to say through the myriad of service bulletins back in the day in everyday language He also uses his extensive practical experience to constructively critique the official line offers additional hard earned information and then shares what he does to his own bikes He provides solutions to fix the Shovelheads teething problems Harleys responses to ongoing problematic aspects of vibration as well as the aftermarkets cures tips on working with the Shovelheads carburetors and five ignitions starter and charging systems electrical switches circuit breakers and relays and best practices for lubrication as well as the progression of front forks and shocks brakes wheels and tires Written in straightforward language this guide offers step by step instructions to help all levels of enthusiasts from novices to expert mechanics In his usual forthright manner Donny makes technical issues understandable interspersing explanations with entertaining stories about the lifestyle that comes with being a Harley rider [Harley-Davidson Softail Service Guide](#) Pasquale De Marco, 2025-04-24 Immerse yourself in the world of Harley Davidson Softail motorcycles with this comprehensive guide the ultimate resource for riders of all levels Delve into the history of the Softail from its inception in 1984 to its current status as a modern classic Discover the engineering marvels that make the Softail a true masterpiece of design and performance with its unique frame suspension system and powerful engine Beyond the technical aspects explore the cultural significance of the Softail Learn about its impact on popular culture its role in the American motorcycle community and the stories of riders who have made the Softail an integral part of their lives From cross country adventures to daily commutes the Softail has become a symbol of freedom self expression and the pursuit of the open road As you delve deeper into the world of Softails gain valuable insights into maintaining and customizing your motorcycle Our expert advice will guide you through routine maintenance procedures troubleshooting common issues and making modifications that enhance the performance style and comfort of your Softail Whether you prefer classic elegance or a more aggressive look the Softail offers endless possibilities for personalization Join us on this exhilarating journey as we celebrate the Harley Davidson Softail a motorcycle that has left an indelible mark on the world of motorcycling Prepare to be captivated by the Softail s timeless appeal its unwavering spirit and the stories of those who have embraced it as their own Inside this comprehensive guide you ll find An in depth exploration of the Softail s history evolution and cultural significance Expert advice on maintenance and troubleshooting to keep your Softail running smoothly Detailed instructions for customizing your Softail to make it truly your own Inspiring stories from Softail riders sharing their passion and adventures on the open road Whether you re a seasoned Softail enthusiast or a newcomer to the world of Harley Davidson this book is your ultimate companion to understanding and appreciating the Softail legacy If you like this book

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