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DATA BULLETIN

# Engine and Transmission Flush

## Prepares Engines and Transmissions for New Oil

AMSOIL Engine and Transmission Flush (FLSH) helps restore fuel economy, increase operating efficiency and reduce emissions in gasoline and diesel engines, and automatic transmissions. Its potent, detergent-based formula cleans sludge and deposit build-up, promoting reduced oil consumption. AMSOIL Engine and Transmission Flush is safe on parts and can be easily disposed of with waste oil.




- Prepares engines and transmissions for new oil
- Removes deposits and sludge for improved efficiency, fuel economy and lower emissions
- Prolongs equipment life
- Detergent-based formula is environmentally friendly
- Compatible with seals and gaskets
- One-treatment results
- Easily disposed of with waste oil

### Restores Vehicles to Like-New

New engines and transmissions run more efficiently, but over time they gather harmful deposits that cause power and performance loss. Stop-and-go driving, prolonged idling, short trips that do not allow the engine to reach full operating temperature, towing, the ingestion of air-borne dirt, fuel dilution, water condensation and oxidized oil all can promote sludge build-up in motor oil and transmission fluid. As it settles, sludge clogs narrow oil passages, restricting oil flow to vital parts, especially the upper valve train area.

In transmissions, deposits can form on clutch plates, causing hesitation and erratic shifting. Ultimately clutch glazing can set in, reducing the life of the transmission. Deposits in engines and transmissions can accelerate wear, causing power loss and increased fuel consumption.

### AMSOIL Engine and Transmission Flush Benefits

Unlike many flush products, AMSOIL Engine and Transmission Flush features a multi-use formulation that dissolves and disperses sludge, varnish and deposits in both engines and automatic transmissions. Due to its detergent-based formulation, it can be easily disposed of with waste oil, making it more user-friendly. Its advanced formula of light base oil technology, powerful detergents and dispersants provides safe cleaning action. AMSOIL Engine and Transmission Flush is compatible with both petroleum and synthetic oils, preparing poorly maintained equipment for installation of new oil. It represents the first step toward restoring neglected equipment to top-notch performance. AMSOIL Engine and Transmission Flush provides the following benefits in only one treatment:

### Gasoline and Diesel Engines

- Helps loosen sticky valves and rings, minimizing blow-by and reducing emissions
- Helps quiet lifter noise
- Promotes lower operating temperatures through sludge removal
- Easy disposal

### Automatic Transmissions

- Cleans deposits in oil cooler and ports
- Helps unclog fluid passages
- Cleans deposits and varnish from clutch plates, helping improve efficiency
- Promotes smoother operation and transmission life through reduced shift delay

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## Applications

AMSOIL Engine and Transmission Flush is recommended for diesel and gasoline engines, and automatic transmissions. It is not recommended for CVT transmissions or differentials.

## Directions for Use

Though it works in one treatment, AMSOIL Engine and Transmission Flush is safe enough to be used at every oil change. If using a flushing machine, follow the manufacturer's recommendation. Otherwise, use the following guidelines:

**Engine:** Add 16 oz. bottle of AMSOIL Engine and Transmission Flush to engine oil fill port. Idle the engine for 10-15 minutes, then immediately drain the oil. Ensure enough time for the system to completely drain. Remove and replace the engine oil filter. Refill engine with new engine oil in the viscosity grade recommended by the manufacturer.

**Transmission:** Engage emergency brake. Add 16 oz. bottle of AMSOIL Engine and Transmission Flush to transmission oil fill port. Idle for 10-15 minutes; shift through drive and reverse. Do NOT place vehicle under heavy load. Drain entire transmission and torque converter of fluid. Filter must be changed prior to refilling with new transmission fluid.

**TREAT RATES FOR LARGER SUMPS**

| Sump Size | Bottles of Flush |
|---|---|
| Up to 10 quarts | 1 Bottle (16 oz.) |
| 10-20 quarts | 2 Bottles (32 oz.) |
| 20-30 quarts | 3 Bottles (48 oz.) |
| 30-40 quarts | 4 Bottles (64 oz.) |

NOTE: It is not recommended to flush transmissions that do not have a removable pan or access to the transmission filter.

**Before Cleanup**



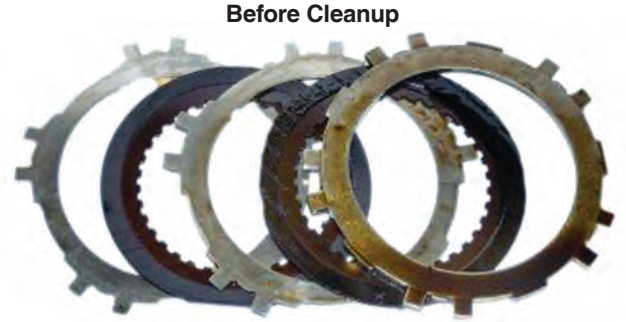
**Cylinder head pre-cleanup. Note the sludge deposits on and around the valve springs and push rod openings.**

**After Cleanup**



**Cylinder head after cleanup with AMSOIL Engine and Transmission Flush. The valve springs and push rod openings are noticeably cleaner, with fewer sludge deposits. The manufacturer's stamping is more easily seen.**

**Before Cleanup**



**Automatic transmission clutch plates pre-cleanup.Varnish and glazing is heavy on some of the plates.**

**After Cleanup**



**Automatic transmission clutch plates after cleanup with AMSOIL Engine and Transmission Flush reveal lighter glazing and varnish.**

AMSOIL products and Dealership information are available from your local full-service AMSOIL Dealer.

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