

AVIAID LS1/LS6 Z06 DRY SUMP SYSTEM

**Retrofit any C5 or
C6 Corvette with
a dry sump system
superior to the
2007 Z06 and
keep factory A/C!**



STREET/COMPETITION DRY SUMP SYSTEM

- Series I dry sump pump with 2 scavenge sections
- Mounting bracket & drive for "F" or "Y" body

CAST ALUMINUM OIL PAN

- LS2 pan with two pickups and transfer tube

OTHER SYSTEM COMPONENTS

- Z06 tank or standard 6" and 9" round models
- Lines and AN fittings for your installation
- Remote filter adapter and filter mount
- Sump tank vent, heater and sight tube assembly

The AVIAID LS Street Dry Sump System converts the stock wet sump oiling system used by most late Corvettes to a legitimate dry sump oiling system akin to that developed for the C5R Corvettes that have run and won on circuits from Willow Springs to Le Mans.

The primary difference in this system is that it is retrofitable to streetcars without having to delete the stock air conditioning system. It employs the stock internal pressure pump for pressure and regulation, a modified LS2 oil pan fitted with 2 screened pickups, an internal transfer tube that delivers oil from the supply tank to the inlet of the stock pump, a drive system using timing belts connected to the stock serpentine belt system, and a Z06 style custom oil tank.

A custom 2-section scavenge pump mounts to the front of the passenger side cylinder head. Unique housing design retains oil in the pump during periods of non-operation to prevent pump dry-out and ensure efficient scavenge on startup.

A factory LS2 cast aluminum pan serves as the basis for the dry sump pan. This ensures factory fit and gasket sealing. Two billet pickups are welded into the passenger side of the pan and fitted with screened outlet fittings. A steel transfer tube delivers oil from a port on the passenger side of the pan to the inlet of the stock oil pump. The stock oil wet sump pickup is used as the basis for this tube, ensuring proper seal and connection with the stock pump. The tube exits through a port machined into the passenger side of the pan, where it is connected to the outlet of the dry sump tank.

A custom pulley is attached to the main belt tensioner mounted on the water pump. This pulley uses the 6-rib serpentine belt driving the accessories to drive a Gilmer timing belt that is connected to the 2-section scavenge pump. The power required to scavenge the oil from the pan and send it to the tank is minimal, far less than that required by either the alternator or the power steering pump. The timing belt design ensures that there is no slippage.

The outlet of the pump is connected to the top of the custom fabricated dry sump tank modeled on the stock Z06 tank. It is virtually identical in diameter and height. As an enhancement over and above the stock Z06 tank we added several components of internal baffling to help insure a constant and consistent oil supply to the engine. Brackets are designed to go to the stock mounting locations developed for the Z06 Corvettes. Vent connections are added to provide for adequate breathing of the system. The stock oil level indicator switch from the oil pan is switched to the oil tank to provide monitoring of the oil level in the tank.



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"Lubrication Solutions Since 1961"

2 Section Scavenge Only Street Car System					
Pump 009	92100-1247	1	2 section 1 stage pump, 2 x 1.25" Scavenge	549.00	549.00
Pan 162	51810	1	2 Pickup Cast Aluminum LS2 DS Pan w/transfer tube	595.00	595.00
		2	AN -12 Screen Fittings \$22.50 each	22.50	45.00
					1189.00
Pump Mount & Drive - Specify "F" or "Y" body drive					
162	51810-02	1	LS Tensioner/Drive Pulley	93.00	93.00
104	40802-240	1	Pump Drive Belt	28.50	28.50
104	40600-32	1	Pump Driven Pulley	56.00	56.00
					177.50
Oil System Parts					
160	31210	1	Dry Sump Oil Supply Fittings & Plug	18.00	18.00
104	40110	1	HP4 Remote Filter Mount	84.00	84.00
					102.00
Z06 Dry Sump Tank Assembly					
110	50120	1	2.0 Gallon Capacity Z06 System Tank	480.00	480.00
110	50201	1	Z06 Tank Bracket Set	68.00	68.00
110	50212	1	AN12 Tank Fitting Set	38.00	38.00
110	50228	1	Additional Engine Vent inlet fitting installed	47.00	47.00
					633.00
6" Dry Sump Tank Assembly					
110	50025	1	2.5 Gallon System Capacity Tank, 25.5" Tall	346.00	346.00
110	50200	1	6" Tank Bracket Set	38.00	38.00
110	50212	1	AN12 Tank Fitting Set	38.00	38.00
110	50228	1	Additional Engine Vent inlet fitting installed	47.00	47.00
					469.00
9" Dry Sump Tank Assembly					
110	50030	1	3.0 Gallon System Capacity Tank, 18" Tall	346.00	346.00
110	50200-06	1	9" Tank Bracket Set	40.00	40.00
110	40212-12	1	AN12 Tank Fitting Set	38.00	38.00
110	50228	1	Additional Engine Vent inlet fitting installed	47.00	47.00
					471.00
Tank Vent Options - Breather Can Assembly or Tank Vent Filter					
110	50220	1	Breather Can Assembly	89.00	89.00
110	50218	1	Breather Can Fitting Kit	28.65	28.65
					117.65
110	50244-01	1	Tank Vent Filter	26.93	26.93
108	84115	1	AN 12 Male to 1-1/2" Filter Adapter	48.00	48.00
					74.93
Sight Tube Assembly Option					
014	109016	2	AN 06 90° Fixed Hose End	17.56	35.12
014	981666	2	AN 06 Male x 3/8" Male Pipe Straight adapter alum	3.28	6.56
014	200006	1	3/8" Nylon Reinforced line	2.40	2.40
110	50231	2	3/8 NPT Bung Welded	18.00	36.00
					80.08
Tank Heater Option					
110	50242	1	500W Probe Heater Installed	84.00	84.00