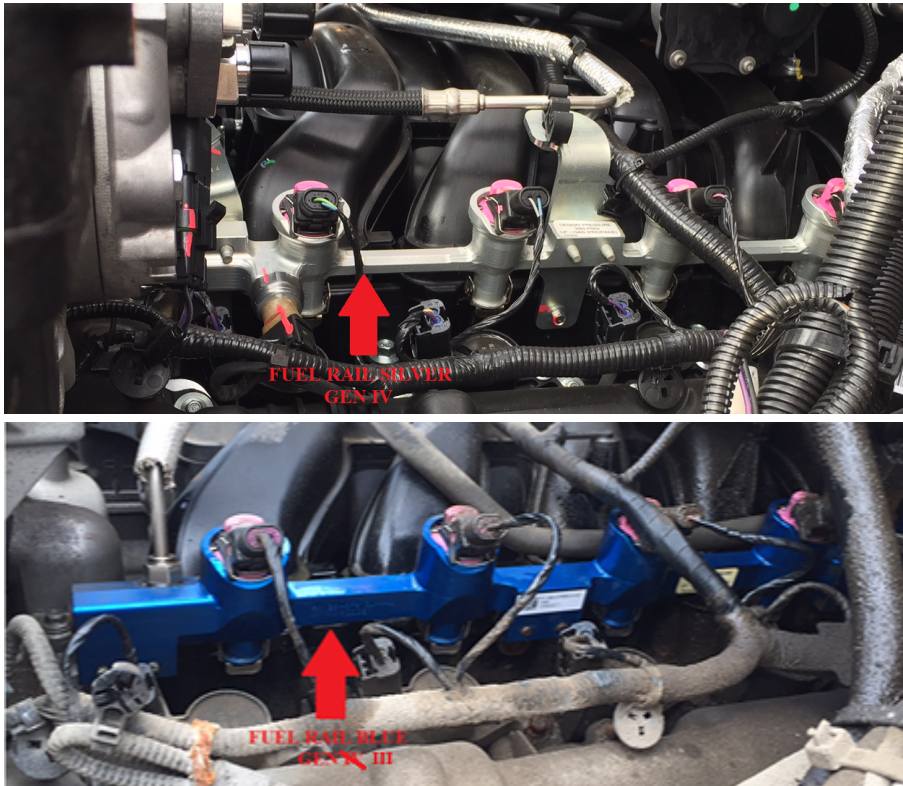


Roush GEN III and GEN IV Differences

Tech Tip #17-0107

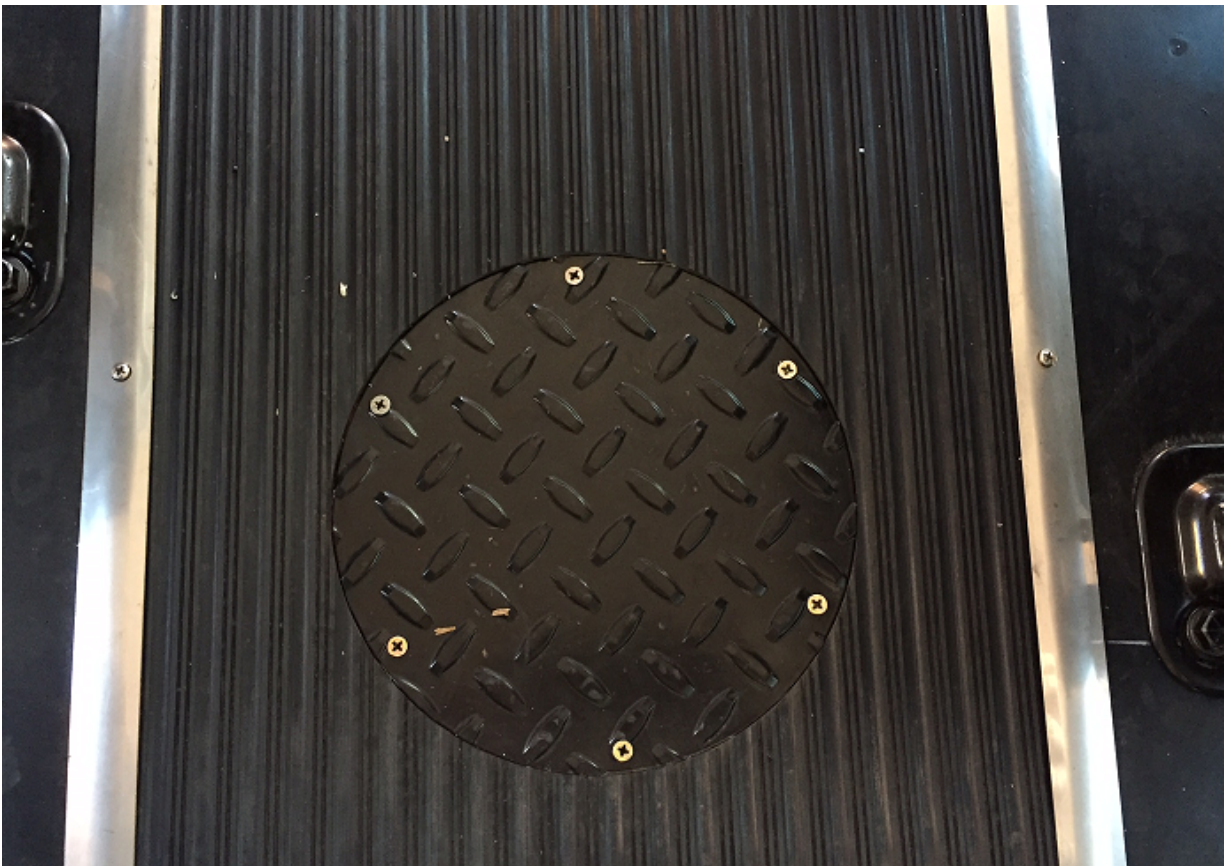


Identifying the Roush GEN III and GEN IV Systems

We have had questions on how to tell if a unit has the Roush GENII or GEN IV system.

It is very easy and just requires popping the hood – The GEN IV system has **SILVER** fuel rails as in the above top photo where the GEN III has **BLUE** fuel rails as in the above lower photo.

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UPDATE 02/27/17:

You can also distinguish between the two by the presence of a fuel sender access plate located in the center aisle toward the rear of the unit as shown in the photo below. If the unit has this access plate then the Roush System is a GEN IV.

UPDATE 11/2/17:

Recently, we had a customer with belt issues and we found that the belt being replaced on a GENIV unit was actually for the GENIII product. Attached is the parts list for each product as a reference – Hard copies are available!

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BLUE BIRD (BBCV) VISION w/FORD-ROUSH GEN III PROPANE

MAINTENANCE REQUIRED	FLUID USED	FLUID QUANTITY	FILTER REQUIRED	INTERVAL
ENGINE OIL CHANGE	**Motorcraft® SAE 5W-30 (U.S.) Premium Synthetic Blend XO-5W300-QSP	7 QTS	Blue Bird #10024902	6 MONTHS or 5,000 MILES Ford Specification: WSS-M2C946-A1
COOLANT	Havoline ELC Prediluted 50/50 DexCool Long Life (ORANGE)	12 GALLONS (depending on heater configuration)	N/A	24 MONTHS or 150,000 MILES
AIR INTAKE SYSTEM	N/A	N/A	Blue Bird #10019950(Paper) #10025981(Foam)	CHECK AIR RESTRICTION INDICATOR DAILY CHANGE FILTER ANNUALLY FOAM IS WASHABLE CHANGE EVERY 12 MONTHS or 24,000 MILES
TRANSMISSION FORD 6R140	MERCON LV	16.7-19 QTS Transmission refill capacity is substantially less than the initial fill because some fluid remains in the transmission cavities after draining.	BLUE BIRD Filter #10052318 Pan Gasket #10052319	CHANGE FLUID AND FILTER 24 MONTHS or 150,000 MILES
REAR AXLE (RS19-144)	HYPOID GEAR OIL SAE 80W/90	33.3 PINTS	N/A	12 MONTHS or 24,000 MILES
REAR AXLE (RS21-145)	HYPOID GEAR OIL SAE 80W/90	33.3 PINTS	N/A	12 MONTHS or 24,000 MILES
REAR AXLE (RS23-160)	HYPOID GEAR OIL SAE 80W/ 90	39.5 PINTS	N/A	12 MONTHS or 24,000 MILES
FRONT AXLE HUB-GREASE	CHEVRON DURA LITH GREASE EP NLGI 2	2.1 POUNDS	N/A	REPACK BEARINGS 12 MONTHS/30,000 MILES WHEN BRAKES ARE CHANGED WHEN SEALS ARE REPLACED
FRONT AXLE HUB-OIL	CHEVRON RPM SYNTHETIC TRANSMISSION FLUID SAE 50	4 PJNTS	N/A	CHECK OIL LEVEL DAILY CHANGE EVERY 12 MONTHS/100,000 MILES WHEN BRAKES ARE CHANGED WHEN SEALS ARE REPLACED
POWER STEERING	DEXTRON II	3 QTS	Blue Bird #10005525	REPLACE FLUID & FILTER 12 MONTHS or 24,000 MILES
AIR COMPRESSOR	N/A	N/A	Blue Bird #01339993	CHANGE FILTER EVERY 2 MONTHS or 20,000 MILES
AD-9 AIR DRYER	N/A	N/A	CARTRIDGE Blue Bird #00020138	REPLACE CARTRIDGE EVERY 36 MONTHS, 300,000 MILES or 10,800 HOURS
AD-1P	N/A	N/A	CARTRIDGE Blue Bird #00066221	REPLACE CARTRIDGE EVERY 36 MONTHS, 300,000 MILES or 10,800 HOURS
INLINE FUEL FILTER	N/A	N/A	Blue Bird #10023471	CHANGE FILTER EVERY 12 MONTHS or 50,000 MILES
ENGINE BELT/BELTS	N/A	N/A	Without A/C ENGINE BELT FIRST SHEAVE #10023179 SECOND SHEAVE #10020698 AIR COMPRESSOR BELT # 10020699 With A/C ENGINE BELT FIRST SHEAVE # 10023178 SECOND SHEAVE #10020697 AIR COMPRESSOR BELT # 10020699	CHECK MONTHLY w/TENSIONER REPLACE BELTS @ 100,000 MILES
SPARK PLUGS	N/A	N/A	Blue Bird #10043644	60,000 MILES
MASS AIR FLOW SENSOR	N/A	N/A	Blue Bird #10019951	N/A
STARTER	N/A	N/A	Blue Bird #10032780	N/A
ALTERNATOR	N/A	N/A	240 AMP Blue Bird #10010644 (Brushless #10044859) 270 AMP Blue Bird #00097972(Brushless #10044860) 320 AMP Blue Bird #00098359(Brushless #10044861)	N/A

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BLUE BIRD (BBCV) VISION w/FORD-ROUSH GEN IV PROPANE

MAINTENANCE REQUIRED	FLUID USED	FLUID QUANTITY	FILTER REQUIRED	INTERVAL
ENGINE OIL CHANGE	**Motorcraft® SAE 5W-30 (U.S.) Premium Synthetic Blend XO-5W300-QSP	7 QTS	Blue Bird #10024902	6 MONTHS or 5,000 MILES Ford Specification: WSS-M2C946-A1
COOLANT	Havoline ELC Prediluted 50/50 DexCool Long Life (ORANGE)	12 GALLONS (depending on heater configuration)	N/A	24 MONTHS or 150,000 MILES
AIR INTAKE SYSTEM	N/A	N/A	Blue Bird #10049894(Paper) #10025988(Foam)	CHECK AIR RESTRICTION INDICATOR DAILY CHANGE FILTER ANNUALLY FOAM IS WASHABLE CHANGE EVERY 12 MONTHS or 24,000 MILES
TRANSMISSION FORD 6R140	MERCON LV	16.7-19 QTS Transmission refill capacity is substantially less than the initial fill because some fluid remains in the transmission cavities after draining.	BLUE BIRD Filter #10052318 Pan Gasket #10052319	CHANGE FLUID AND FILTER 24 MONTHS or 150,000 MILES
REAR AXLE (RS19-144)	HYPOID GEAR OIL SAE 80W/90	33.3 PINTS	N/A	12 MONTHS or 24,000 MILES
REAR AXLE (RS21-145)	HYPOID GEAR OIL SAE 80W/90	33.3 PINTS	N/A	12 MONTHS or 24,000 MILES
REAR AXLE (RS23-160)	HYPOID GEAR OIL SAE 80W/90	39.5 PINTS	N/A	12 MONTHS or 24,000 MILES
FRONT AXLE HUB-GREASE	CHEVRON DURA LITH GREASE EP NLGI 2	2.1 POUNDS	N/A	REPACK BEARINGS 12 MONTHS/30,000 MILES WHEN BRAKES ARE CHANGED WHEN SEALS ARE REPLACED
FRONT AXLE HUB-OIL	CHEVRON RPM SYNTHETIC TRANSMISSION FLUID SAE 50	4 PJNTS	N/A	CHECK OIL LEVEL DAILY CHANGE EVERY 12 MONTHS/100,000 MILES WHEN BRAKES ARE CHANGED WHEN SEALS ARE REPLACED
POWER STEERING	DEXTRON II	3 QTS	Blue Bird #10005525	REPLACE FLUID & FILTER 12 MONTHS or 24,000 MILES
AIR COMPRESSOR	N/A	N/A	Blue Bird #01339993	CHANGE FILTER EVERY 2 MONTHS or 20,000 MILES
AD-9 AIR DRYER	N/A	N/A	CARTRIDGE Blue Bird #00020138	REPLACE CARTRIDGE EVERY 36 MONTHS, 300,000 MILES or 10,800 HOURS
AD-IP	N/A	N/A	CARTRIDGE Blue Bird #00066221	REPLACE CARTRIDGE EVERY 36 MONTHS, 300,000 MILES or 10,800 HOURS
INLINE & SUPPLY LINE FUEL FILTERS	N/A	N/A	Blue Bird INLINE #10023471 SUPPLY LINE #P10S200-AA(Roush)	CHANGE FILTERS EVERY 12 MONTHS or 50,000 MILES
ENGINE BELT/BELTS	N/A	N/A	Without A/C ENGINE BELT FIRST SHEAVE #10042725 SECOND SHEAVE #10020698 AIR COMPRESSOR BELT # 10042726 With A/C ENGINE BELT FIRST SHEAVE # 10041724 SECOND SHEAVE #10020697 AIR COMPRESSOR BELT # 10042726	CHECK MONTHLY w/TENSIONER REPLACE BELTS @ 100,000 MILES
SPARK PLUGS	N/A	N/A	Blue Bird #10043644	60,000 MILES
MASS AIR FLOW SENSOR	N/A	N/A	Blue Bird #10049895	N/A
STARTER	N/A	N/A	Blue Bird #10032780	N/A
ALTERNATOR	N/A	N/A	240 AMP Blue Bird #10010644 (Brushless #10044859) 270 AMP Blue Bird #00097972(Brushless #10044860) 320 AMP Blue Bird #00098359(Brushless #10044861)	N/A

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