MASTER S/N:



CONVERSION INSPECTION CHECKLIST

v1.8 10-3-14

NOTE: THIS IS A VISUAL INSPECTION. REFER TO BUILD OF MATERIAL AND AVAILABLE VISUAL AIDS AS REFERENCES.

INDEX			
A) PRE-CONVERSION REPORT	D) UNDER CARRIAGE	F) INTERIOR	
B) EXTERNAL	E) CYLINDER/TOOLBOX	G) LEAK CHECK	
C) UNDERHOOD		H) TEST DRIVE	

A) PRE-CONVERSION REPORT (Mark any that apply, write N/A if does not apply)

(Reminder: Any items removed from vehicle must be put back)

		<u>Outside</u>	
PASS	FAIL	<u>Front</u>	
		Headlights	
		Clearance lights	
		Identification lights	
		Turn signals & 4 way flasher	
		Body condition/Dents/Rust	
		Windsheild	

PASS	FAIL	Left side
		Fuel tank & cap
		Side marker lights
		Reflectors
		Front tires, wheels & lugs
		Rear tires, wheels & lugs
		Body condition/Dents/Rust

	Right side	 <u>Rear</u>
	Fuel tank & cap	Tail lights
	Side marker lights	Stop lights
	Reflectors	Turn signals & 4 way flasher
	Front tires, wheels & lugs	Clearance lights
	Rear tires, wheels & lugs	Identification lights
	Body condition/Dents/Rust	Reflectors
	Glass	Body condition/Dents/Rust

Oil level Head liner Coolant level Seats	
Coolant level Seats	
Transmission fluid level Carpet & fluid	oor mats
Power steering level Parking bra	ake
Brake fluid level Radio	
Cleanliness Horn	
Indications of fluid leak(s) Gas gauge	reading
Missing items Spare tire	
Damaged vacuum lines Jack asser	nbly

	Check for OBD II codes
	OEM gasoline fuel gauge is reading at least half tankfull

INSPECTOR SIGNATURE:	DATE:			
PASS FAIL		PASS	FAIL	Under Carriage
	Damaged wires and hoses			Check for leaks (Oil, Coolant, etc.)
	Badly rusted or loose panels			Check for loose parts (Bolts, Clamps,
	Badly damaged areas of the vehicle		•	etc)
	Missing items under the hood			Damage (body, frame, OEM lines)

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	Worn wiring, hoses, vacuum lines
	Condition of tires
	Condition of springs
	Condition of engine(smoking, burning oil, or
	running poorly)

Comments:

B) <u>EXTE</u>	RNAL (POST-CONVERSION)	PASS	FAIL	FIXED
1	Check for physical damage:			
	Dents			
	Scratches			
	Chipped paint			
	Glass cracks			
	Mirrors left & right			
	All lights			
2	All tire pressures checked and set per label.			
3	Sticker Decals on vehicle.			
4	Body water leaks.			
5	Windshield wipers.			
C) UNDE	RHOOD (POST-CONVERSION)	PASS	FAIL	FIXED
1	Verify the correct system is installed (Bi-fuel or Dedicated).			
2	Verify all stickers are present underhood.			
3	Verify the correct main harness is installed.			
	(compare Master S/N located in the fuse relay box)			
4	Verify main harness is routed and secured correctly.			
5	Verify all underhood connections are made:			
	Coils			
	Spark Plugs			
	MAF Sensor			
	MAP Sensor			
	Throttle Sensor			
	Battery			
	Injectors			
	Injector harness			
	Main harness to rear harness			
INSPECTO	R SIGNATURE: DATE:			
		PASS	FAIL	FIXED
	Main harness to gauge/switch harness			
	Main harness to injector harness			
6	Fuel rails installed correctly.			
7	Coolant lines are installed correctly and not leaking.			
8	, ,			
9				
10	Engine cooling.			

- All CNG component connections torqued to correct specification (refer to the installation manual).
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D) UNDER CARRIAGE (POST-CONVERSION)

- 1 Verify rear harness is routed secured correctly.
- 2 Verify coolant hoses are routed and secured correctly.
- 3 Low pressure hose routed and secured correctly.
- 4 Fuel fill is installed and secured correctly.
- 5 Cylinder assembly secured correctly.
- 6 Check for coolant leaks.
- 7 Check for oil leaks.
- 8 Check for transmission leaks.
- 9 Check for loose bolts/clamps/zip ties.
- 10 All zip ties snipped appropriately.
- 11 Check that heat shield installation/re-installation is correct.
- 12 Backing plates secured correctly.
- 13 Exhaust shielding and leaks.
- 14 All CNG component connections torqued to correct specification (refer to the installation manual).

E) CYLINDER/COVER (POST-CONVERSION)

- 1 Verify cylinder master s/n. (refer to B.O.M.)
- 2 Verify Solenoid connection to rear harness.
- 3 Verify high pressure sensor connection to rear harness.
- 4 All hoses in proper location.
- 5 Check high pressure hose from cylinder to regulator.
- 6 Check high pressure hose from fuel fill to cylinder.
- 7 Check fuel fill is secured correctly.
- 8 Check low pressure hose to regulator and is secured correctly.
- 9 Check coolant lines to regulator (correct clamps and secure).
- 10 All wiring harnesses are secured.
- 11 Cylinder mounting plates secured.
- 12 Warning sticker inside center of cover and cylinder strap closest to the valve.
- 13 Leak test, (Methane detector and liquid methods)
- 14 Verify each solenoid opens (After being flashed, check one at a time)
- 15 Verify toolbox is centered and secured to bed.

INSPECTOR SIGNATURE: _____ DATE: _____

- 16 Correct bolts and pre-labeled holes were used to secure Toolbox.
- 17 Install skirt into place. Verify all bolts and U-Nuts are present and correct.
- 18 Valves are in open position.

F) INTERIOR (POST-CONVERSION)

- 1 CNG fuel gauge is operational (Check for visible light).
- 2 Switch is in correct location (use template as aid to verify).
- 3 Crank the vehicle.

BI-FUEL SYSTEM: Switch is operational.

DEDICATED SYSTEM: OEM Fuel gauge reading at a minumum of a quarter tank full.

*Note: In a bi-fuel system, whatever the fuel last used will

be used on startup and run for 90 seconds before switching*

4 OEM operational:

Head lights (operational and level per OEM specification)

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PASS	FAIL	FIXED

PASS	FAIL	FIXED

PASS	FAIL	FIXED

PASS	FAIL	FIXED

	Hazard lights					
All misc lights						
	Brake Lights					
	Headliner					
	Seats					
Parking brake						
	Radio					
	Horn					
	OEM Gauges					
	Speedometer					
	RPM level					
	Coolant tempera	turo				
	Engine temperat					
F	Oil temperature					
5	Overall cleanliness.					
6	Check for interior damage.					
7	Carpet condition.					
	CHECK (M/bile ev/index is f	illed with CNC)				
-	CHECK (While cylinder is f	-		PASS	FAIL	FIXED
1	Engine NOT RUNNING: Entire	-				
2	Engine RUNNING: Entire syst	iem leak tested.				
-			L			1
	DDIVE			DACC		
H) <u>TEST</u>				PASS	FAIL	FIXED
H) <u>TEST</u> 1	Parking brake			PASS	FAIL	FIXED
H) <u>TEST</u>	Parking brake Engine and transmission perfo			PASS	FAIL	FIXED
H) <u>TEST</u> 1 2	Parking brake Engine and transmission perfo and "PRNDL" indexing.	ormance, including downshift		PASS	FAIL	FIXED
H) <u>TEST</u> 1 2 3	Parking brake Engine and transmission perfo and "PRNDL" indexing. High Idle speed setting and fu	ormance, including downshift Il throttle pedal travel.		PASS	FAIL	FIXED
H) <u>TEST</u> 1 2 3 4	Parking brake Engine and transmission perfo and "PRNDL" indexing. High Idle speed setting and fu Heater and air conditioning fur	ormance, including downshift Il throttle pedal travel.		PASS	FAIL	FIXED
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Upon supervisor's signature, the conversion system install is complete and the vehicle is considered to be road worthy and ready for release