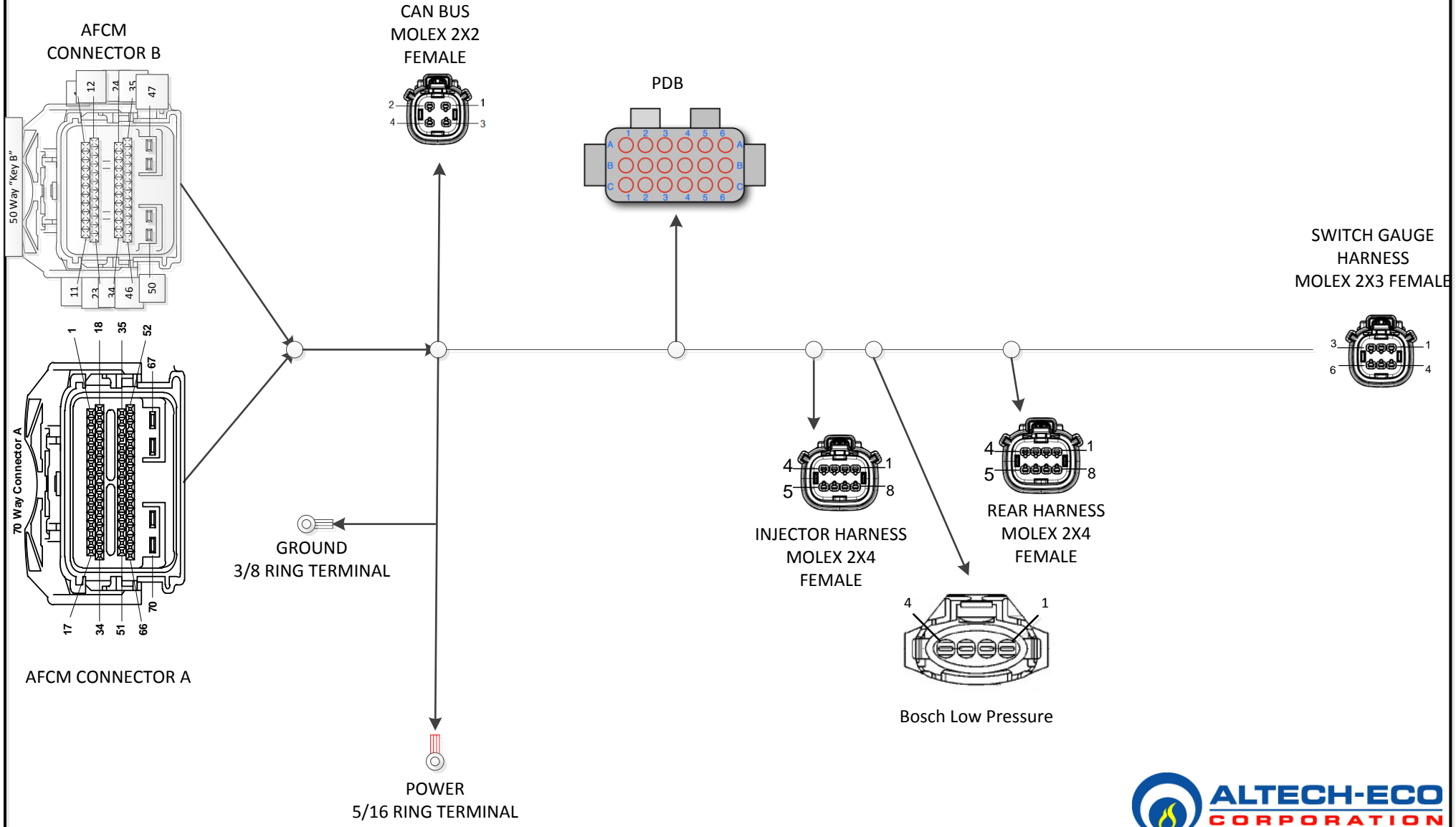
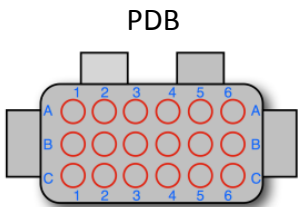
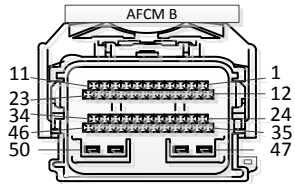
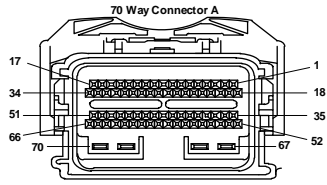


2013 F-150 3.7 Main Harness

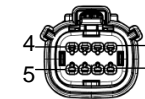
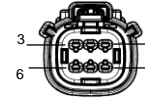
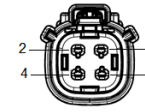
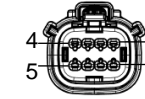
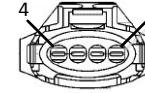




AfcM Connector A					
Cavity	Wire	GA	Function	To	Cavity
1	Dk. Blue/White	18	Solenoid B	Rear Harness	7
2	Dk. Blue/Red	18	Solenoid C	Rear Harness	8
3	Brown/Orange	18	Fuel Switch Lamp	Switch Gauge	1
4	Pink	18	CNG Power Monitor	PDB	B3
19	Yellow	18	Fuel Tank Temperature	Rear Harness	2
32	Orange/White	18	Fuel Rail Pressure	Fuel Rail	4
35	Lt. Green	18	Injector 3	Injector 3	2
37	Tan/Orange	18	Injector 4	Injector 4	2
39	Lt. Blue/Orange	18	Injector 5	Injector 5	2
41	Orange/Black	18	Fuel Rail Temperature	Fuel Rail	2
52	Tan	18	Injector 1	Injector 1	2
54	Lt. Blue	18	Injector 2	Injector 2	2
55	Lt. Green/Orange	18	Injector 6	Injector 6	2
57	Green	18	Fuel Rail Pressure 5V	Fuel Rail	3
58	Black	18	Fuel Rail Sig Rtn	Fuel Rail	1
66	Green	18	Fuel Tank 5V	Rear Harness	5

AfcM Connector B					
Cavity	Wire	GA	Function	To	Cavity
2	Black/Yellow	18	Coil Low CNG Power Control	PDB	B1
3	Orange	18	Fuel Tank Pressure	Rear Harness	4
10	Black	18	Case GND	Neg. Ring Terminal	*
11	Lt. Green/White	18	Can Bus +	Can Bus	3
12	Grey	18	Fuel Gauge Signal	Switch Gauge	5
18	Black	18	Fuel Tank Sig Rtn	Rear Harness	3
21	Brown.Green	18	Fuel Type	Switch Gauge	3
23	Pink/White	18	Can Bus -	Can Bus	4
35	Red	16	AFCM PWR	PDB	A3,B6
36	Red	16	AFCM PWR	PDB	A3,B6
39	Blue	18	Solenoid A	Rear Harness	6
44	Red/Yellow	18	Feps	Switch Gauge	6
45	Brown	18	KAPWR	PDB	C3
47	Black/White	16	AFCM GND	Neg. Ring Terminal	*
48	Black/White	16	AFCM GND	Neg. Ring Terminal	*
49	Black/White	16	AFCM GND	Neg. Ring Terminal	*
50	Black/White	16	AFCM GND	Neg. Ring Terminal	*

PDB					
Cavity	Wire	GA	Function	To	Cavity
C2	Red	16	12V Supply 30 Amp Fuse	Pos. Ring Terminal	*
C4	Red	16	12V Supply 5 Amp Fuse	Pos. Ring Terminal	*
C6	Red	16	12V Supply 30 Amp Fuse	Pos. Ring Terminal	*
C5	Red	16	Fused 12V to AFCM Relay	PDB	A4
C3	Brown	18	KAPWR	AFCM Connector B	45
C1	Red	16	Fused 12V to CNG System Relay	PDB	A1
A4	Red	16	AFCM Relay to Fused 12V	PDB	C5
B4	Black	18	Relay Sig Rtn	Neg. Ring Terminal	*
A1	Red	16	CNG System Relay to Fused 12V	PDB	C1
B1	Black/Yellow	18	CNG System Relay Coil Low	AFCM Connector B	2
A6	Red	16	PCM Power	Can Bus	2
B6	Red	16	AFCM Power	AFCM Connector B	35,36
A3	Red	16	AFCM Power	AFCM Connector B	35,36
B3	Red	16	CNG System Loads	AFCM Connector A	4



Low Pressure Sensor					
Cavity	Wire	GA	Function	To	Cavity
1	Black	18	Sig Rtn	AFCM A	58
2	Orange/Black	18	Fuel Rail Temp	AFCM A	41
3	Green	18	5V	AFCM A	57
4	Orange/White	18	Fuel Rail Press	AFCM A	32

CNG Injectors					
Cavity	Wire	GA	Function	To	Cavity
1	Tan	18	Injector 1	AFCM A	52
2	Pink	18	Injectors 12V	Spliced to all injectors	
3	Lt. Blue	18	Injector 2	AFCM A	54
4	Lt. Green	18	Injector 3	AFCM A	35
5	Tan/Orange	18	Injector 4	AFCM A	37
6	Pink	18	Injectors 12V	Spliced to all injectors	
7	Lt. Blue/Orange	18	Injector 5	AFCM A	39
8	Lt. Green/Orange	18	Injector 6	AFCM A	55

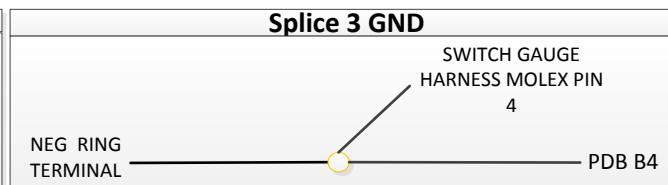
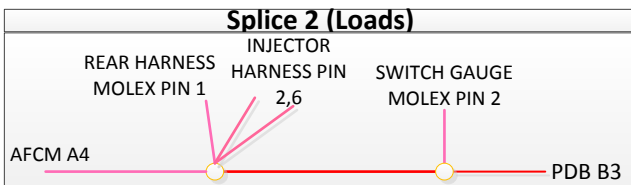
Can Bus					
Cavity	Wire	GA	Function	To	Cavity
2	Red	16	PCM PWR	PDB	A6
3	Lt. Green/White	18	Can Bus +	AFCM B	11
4	Pink/White	18	Can Bus -	AFCM B	23

Switch Gauge					
Cavity	Wire	GA	Function	To	Cavity
1	Brown/Orange	18	Switch Light	AFCM A	3
2	Pink	18	12V	Splice 2	*
3	Brown/Green	18	Fuel Type	AFCM B	21
4	Black	18	Sig Rtn	Splice 3	*
5	Grey	18	Fuel Gauge Signal	AFCM B	12
6	Red/Yellow	18	FEPS	AFCM B	44

Negative Ring Terminal					
Cavity	Wire	GA	Function	To	Cavity
*	Black/White	16	AFCM Gnd	AFCM B	47
*	Black/White	16	AFCM Gnd	AFCM B	48
*	Black/White	16	AFCM Gnd	AFCM B	49
*	Black/White	16	AFCM Gnd	AFCM B	50
*	Black	18	Case Gnd	AFCM B	10
*	Black	18	Low Side AFCM Relay Coil	Splice 3	*

Positive Ring Terminal					
Cavity	Wire	GA	Function	To	Cavity
*	Red	16	Battery 12V 10 Amp Fuse	PDB	C6
*	Red	16	Battery 12V 5 Amp Fuse	PDB	C4
*	Red	16	Battery 12V 30 Amp Fuse	PDB	C2

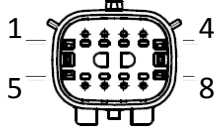
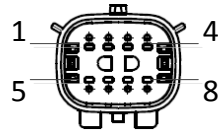
Rear Harness					
Cavity	Wire	GA	Function	To	Cavity
1	Pink	18	Solenoid 12V	Splice 2	*
2	Yellow	18	Fuel Tank Temp.	AFCM A	19
3	Black	18	Sig Rtn	AFCM B	18
4	Orange	18	Fuel Tank Press.	AFCM B	3
5	Green	18	5V	AFCM A	66
6	Blue	18	Solenoid A	AFCM B	39
7	Blue/Red	18	Solenoid B	AFCM A	1
8	Blue/White	18	Solenoid C	AFCM A	2



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2013 F-150 3.7 Harness
Diagram

2013 F-150 3.7 Injector Harness



Rear Harness Male

Injector 6



Injector 3



Injector 5



Injector 2



Injector 4



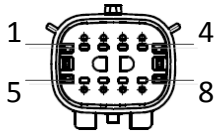
Injector 1



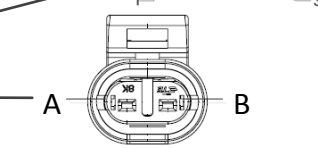
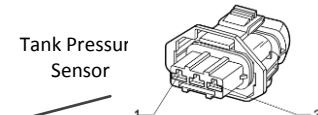
Rear Harness

Cavity	Wire	GA	Function	To	Cavity
1	Tan/White	18	Injector 1	Injector 1	2
2	Pink	18	12V to Injectors	Splice to Injectors	1
3	Blue/White	18	Injector 2	Injector 2	2
4	Lt. Green/White	18	Injector 3	Injector 3	2
5	Tan/Orange	18	Injector 4	Injector 4	2
6	Pink	18	12V to Injectors	Splice to Injectors	1
7	Lt. Blue/Orange	18	Injector 5	Injector 5	2
8	Lt. Green/Orange	18	Injector 6	Injector 6	2

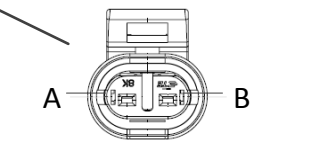
2013 F-150 3.7 Rear Harness



Rear Harness



Tank Solenoid A

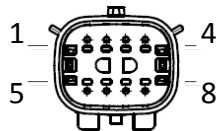


Tank Solenoid B

Note: Solenoid B is not present on single tank packages

Rear Harness

Cavity	Wire	GA	Function	To	Cavity
1	Pink	18	Solenoid 12V	Tank Solenoid	A
2	*	*	*	*	*
3	Black	18	Sig Rtn	Tank Pressure Sensor	1
4	Orange	18	Fuel Tank Press.	Tank Pressure Sensor	2
5	Green	18	5V	Tank Pressure Sensor	3
6	Blue	18	Solenoid A Low Side	AFCM B	39
7	Blue/Red	18	Solenoid B Low Side	AFCM A	1
8	*	*	*	*	*



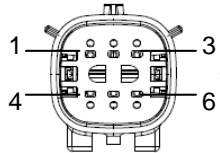
Rear Harness Male



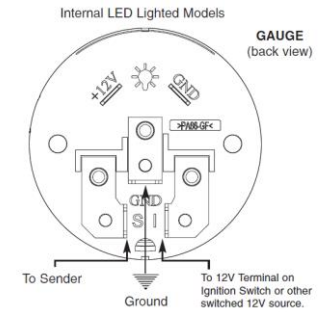
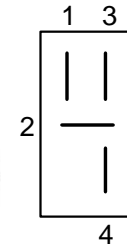
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2013 F-150 3.7 Harness
Diagram

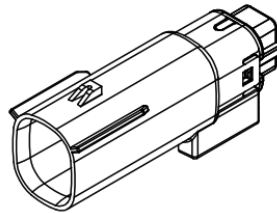
2013 F-150 3.7 Switch Gauge Harness



Switch Gauge					
Cavity	Wire	GA	Function	To	Cavity
1	Brown/Orange	18	Switch Light	Switch	3
2	Pink	18	12V	Switch	4
				Gauge	12V, I
3	Brown/Green	18	Fuel Type	Switch	2
4	Black	18	Gnd	Switch	1
				Gauge	Gnd, Gnd
5	Grey	18	Fuel Gauge Signal	Gauge	S



2013 F-150 3.7 Pig Tail



Can Bus						
Cavity	Wire	GA	Function	To	Cavity	Wire
1	*	*	*	*	*	*
2	Red	16	PCM PWR	PCM	A67	Yellow/Grey
3	Lt. Green/White	18	Can Bus +	PCM	A59	White/Blue
4	Pink/White	18	Can Bus -	PCM	A58	White



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2013 F-150 3.7 Harness
Diagram