

2013 Ford F-550  
1FD0W5HT9DEA12114  
Engine: V8, 6.7L; Turbo  
Plate: CHF235  
Odometer In: 185209  
Odometer Out: 185274

GRAND TOTAL: \$28,977.81

✓ PAID

## SERVICES

1

### TRANSMISSION CONCERN

Customer states Friday 5/6/22 the vehicle had a hard shift when putting the vehicle into Drive. Then while driving down the highway the vehicle had a hard downshift that it killed the engine and when it restarted the transmission was stuck in 4th or 5th gear.

#### LABOR

Verified customer concern, when trying to start truck starter just clicks and noticed prndl not lit up. Connected scan tool to vehicle and there is no communication with the transmission control module. all fuses and wiring good, gained access to the crankshaft pulley and attempted to turn engine over by hand and found engine will not turn either way. Given the customer concern I expect that the trans has failed/locked up preventing engine from turning over, at this time will need to separate trans from engine, torque converter will have to be pulled since engine will not spin. Once trans and engine are separated we will be able to determine failure. If trans has failed r and r labor covers install of new transmission. Cannot determine extent of damage until trans and engine separated but if all the issues are in the transmission, the trans and tcm will need replaced to correct issue

SUBTOTAL: \$

Labor:   
Parts:   
Fees:   
Sublet:

2

### COMPLETE ENGINE

Serial: S00720657

Confirmation: A0745256

#### LABOR

Remove & replace the complete engine assembly with all associated gasket that came with the install kit. After the new engine was installed in the vehicle, added coolant, power steering and engine oil back in their respective systems. Replaced the engine drive belt and damaged secondary coolant degas bottle (reservoir).

After the engine was installed we found the started to have failed where solenoid was no longer trying to engage even with proper power & ground. Replaced the starter motor drove vehicle multiple times over a couple days and found the fan clutch to be staying engaged. Replaced the fan clutch and drove the vehicle one last time where we can confirm that vehicle is running great and the transmission is shifting properly.

SUBTOTAL:

Labor:   
Parts:   
Fees:   
Sublet:

#### PARTS

Ford 6.7 Complete Engine  
Assembly  
Motorcraft Long Life Coolant  
Motorcraft 10W30 Synthetic  
Blend Diesel Oil  
Motorcraft 6.7 Engine Oil Filter  
BG Power Steering Flush Kit  
(Red)

QTY

EACH

TOTAL

1.0

3.0

13.0

1.0

1.0



Motorcraft 6.7 Engine Air Filter (11-16)	1.0	\$
Ford Secondary Coolant Tank	1.0	\$
Ford PTO Gasket	1.0	\$
Ford Serpentine Belt	1.0	\$
Ford Wiring Connector Assembly	1.0	\$
Ford Starter Motor Assembly	1.0	\$
Ford Fan Clutch Assembly	1.0	\$
Ford Seal	1.0	\$

### 3 TRANSMISSION

SUBTOTAL:

#### LABOR

Also Installed new Heavy Duty Transmission during the process of reinstalling the engine and replaced & programmed a new Transmission Control Module. Reinstalled the PTO with new gasket to the new transmission.

Labor: \$  
Parts: \$  
Fees: \$  
Sublet: \$

#### PARTS

Ford Transmission Control Module

QTY	EACH	TOTAL
1.0		

#### SUBLETS

Transmission Shop

TOTAL

#### Terms of Service:

##### 1. "YES, DO THIS WORK"

I hereby authorize the corresponding service to be done along with the necessary materials.

##### 2. "YOU MAY DRIVE MY CAR ON PUBLIC ROADS"

staff may operate my vehicle for the purpose of testing, inspection, and delivery.

##### 3. "NO PAYMENT, NO KEYS"

An express lien is acknowledged on my vehicle to secure the amount of services thereto.

##### 4. "ONLINE COMMUNICATION OK"

I welcome email or text from as a means of receiving copies of my estimate, work order, and invoice.

5. Vehicles left over three days from estimate given or repairs complete will be subject to a storage fee of \$25/day unless we have come to another agreement and it is in writing. This is strictly due to space constraint and our duty to take care of all of our customers.

##### 6. "HERE'S MY SIGNATURE"

I endorse the attached digital image of my signature as equivalent to my written signature and as proof of my agreement to these five terms.

**GRAND TOTAL: \$28,977.81**

Total Labor: \$  
Total Parts: \$  
Total Fees: \$  
Total Sublets: \$  
Shop Supplies: \$  
Sales Tax: \$

✓ PAID

06-16-2022 4:25 PM  
Paid by Check: **\$28,977.81**  
Notes: "Check # 2216"

#### Authorization:

05/09/2022