

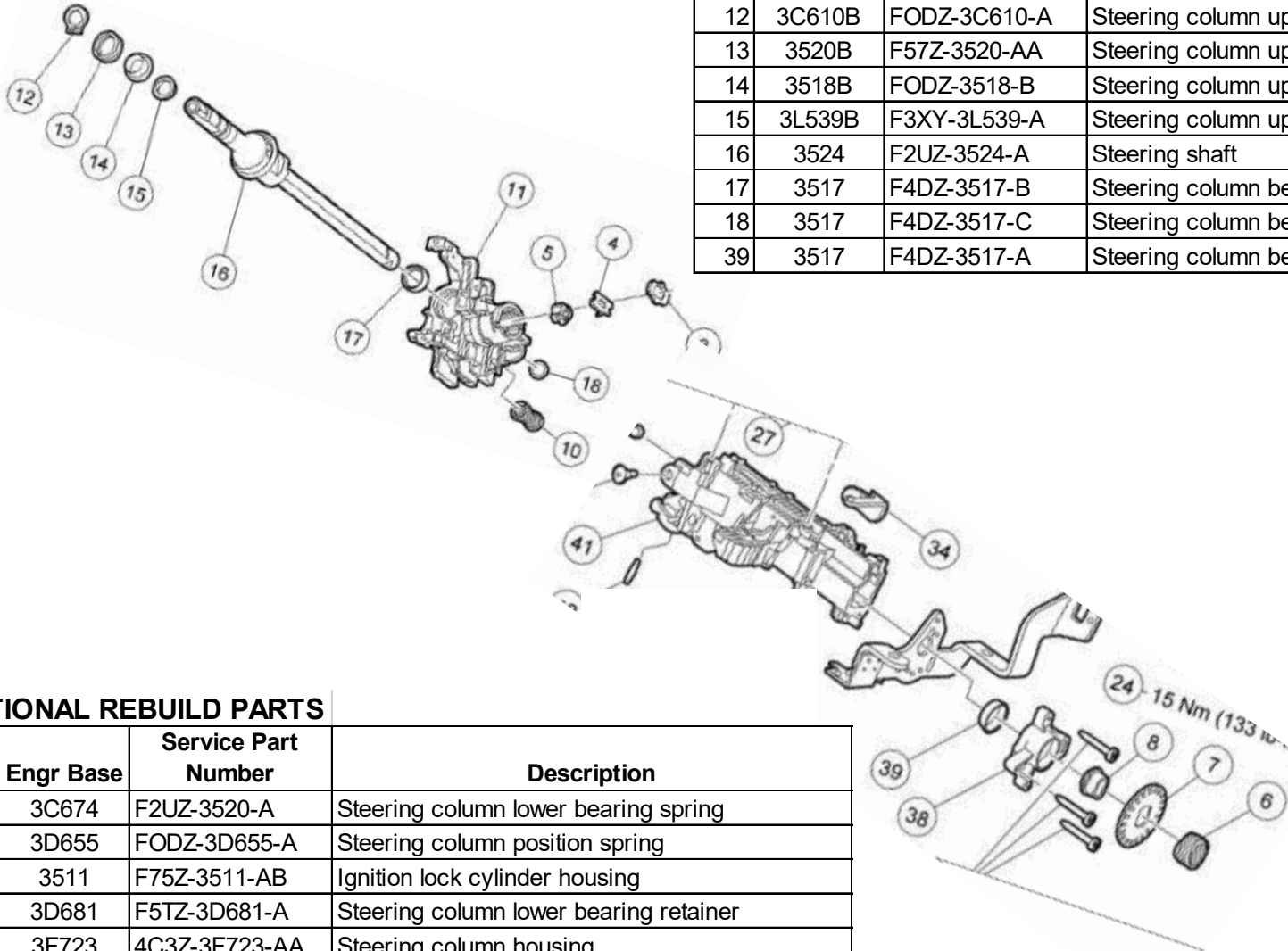
2014 – 2019 UPS F59 Steering Column Rebuild to Replace Bearings & Shaft

Supplement to Ford Workshop Manual 211-04
Obsolete Assembly Service Part # GU9Z-3C529-A

Parts

STANDARD REBUILD PARTS

Item	Engr Base	Service Part Number	Description
8	3L539A	F5DZ-3L539-A	Steering column lower bearing tolerance ring
12	3C610B	FODZ-3C610-A	Steering column upper bearing spring snap ring
13	3520B	F57Z-3520-AA	Steering column upper bearing spring
14	3518B	FODZ-3518-B	Steering column upper bearing sleeve
15	3L539B	F3XY-3L539-A	Steering column upper bearing tolerance ring
16	3524	F2UZ-3524-A	Steering shaft
17	3517	F4DZ-3517-B	Steering column bearing (small)
18	3517	F4DZ-3517-C	Steering column bearing (large)
39	3517	F4DZ-3517-A	Steering column bearing (small)



OPTIONAL REBUILD PARTS

Item	Engr Base	Service Part Number	Description
6	3C674	F2UZ-3520-A	Steering column lower bearing spring
10	3D655	FODZ-3D655-A	Steering column position spring
11	3511	F75Z-3511-AB	Ignition lock cylinder housing
38	3D681	F5TZ-3D681-A	Steering column lower bearing retainer
41	3F723	4C3Z-3F723-AA	Steering column housing

Standard Rebuild Parts Pictures

Item	Engr Base	Service Part Number	Description
8	3L539	F5DZ-3L539-A	Steering column lower bearing tolerance ring



Item	Engr Base	Service Part Number	Description
12	3C610B	FODZ-3C610-A	Steering column upper bearing spring snap ring



Item	Engr Base	Service Part Number	Description
13	3520B	F57Z-3520-AA	Steering column upper bearing spring



Item	Engr Base	Service Part Number	Description
14	3518B	FODZ-3518-B	Steering column upper bearing sleeve



Item	Engr Base	Service Part Number	Description
15	3L539B	F3XY-3L539-A	Steering column upper bearing tolerance ring



Item	Engr Base	Service Part Number	Description
16	3524	F2UZ-3524-A	Steering shaft



Standard Rebuild Parts Pictures

Item	Engr Base	Service Part Number	Description
17	3517	F4DZ-3517-B	Steering column bearing (small)



Item	Engr Base	Service Part Number	Description
18	3517	F4DZ-3517-C	Steering column bearing (large)



Item	Engr Base	Service Part Number	Description
39	3517	F4DZ-3517-A	Steering column bearing (small)



Optional Rebuild Parts Pictures

Item	Engr Base	Service Part Number	Description
6	3520B	F57Z-3520-AA	Steering column lower bearing spring



Item	Engr Base	Service Part Number	Description
38	3D681	F5TZ-3D681-A	Steering column lower bearing retainer



Item	Engr Base	Service Part Number	Description
10	3D655	FODZ-3D655-A	Steering column position spring



Item	Engr Base	Service Part Number	Description
41	3F723	4C3Z-3F723-AA	Steering column housing



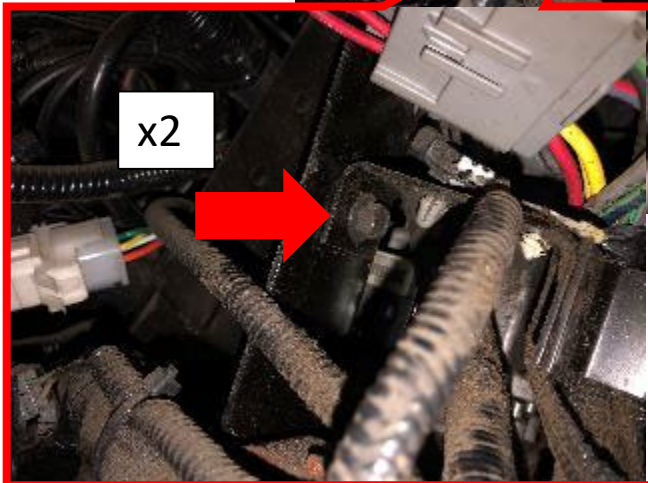
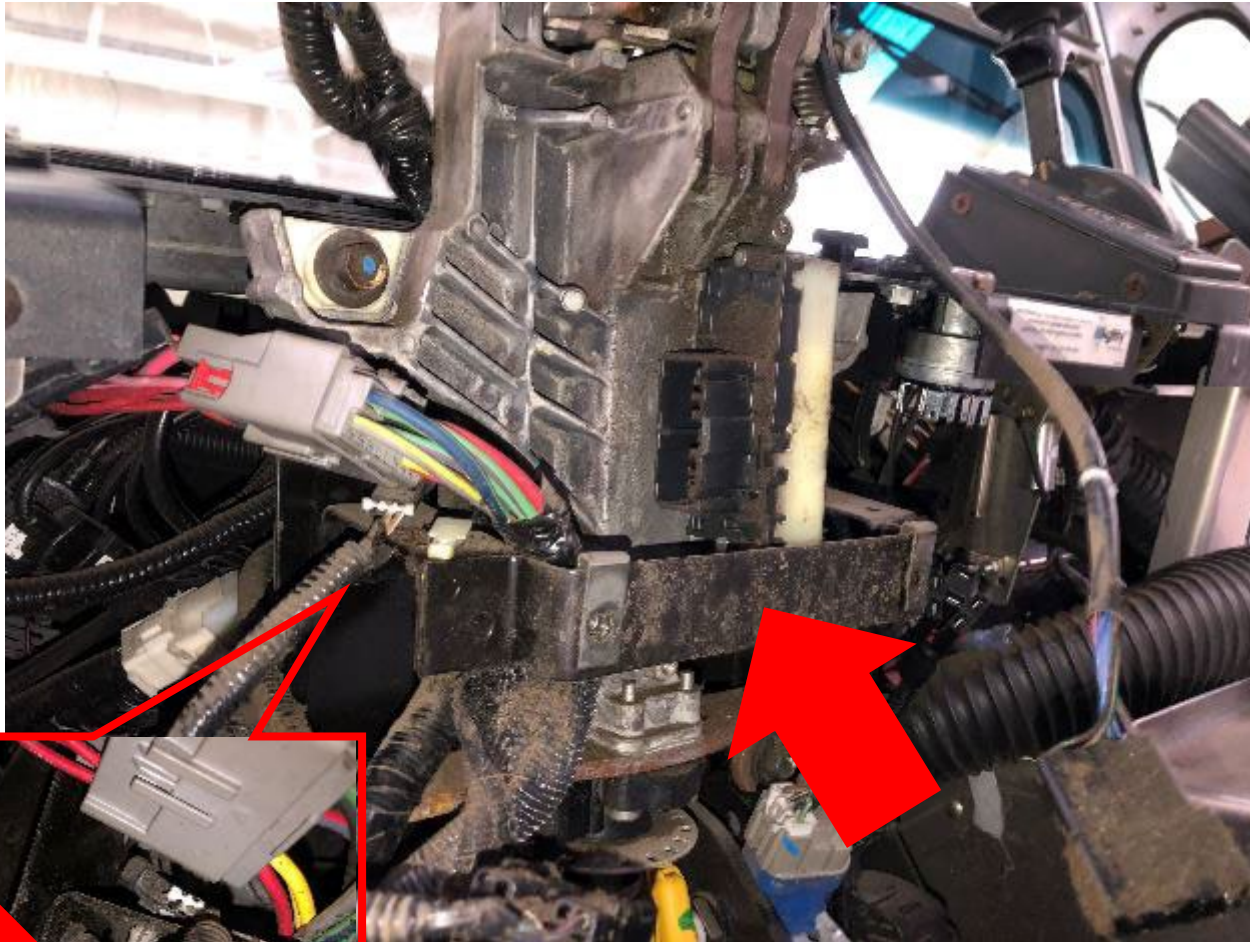
Item	Engr Base	Service Part Number	Description
11	3511	F75Z-3511-AB	Ignition lock cylinder housing



UPS F59 Removal Steps (Morgan Olson Body)

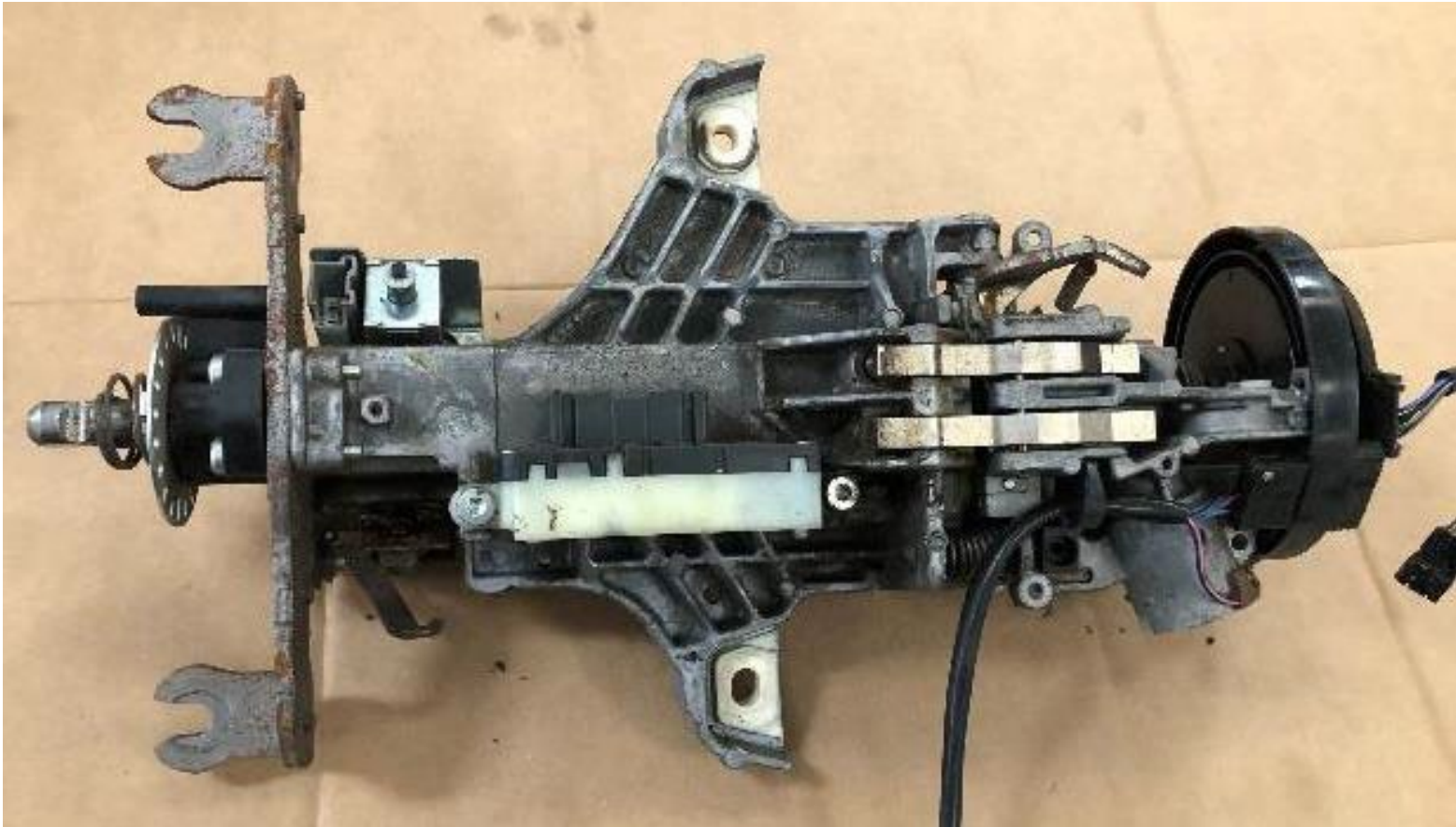
1. Remove lower steering column shroud (2 screws)
2. Remove horn pad (2 capscrews)
3. Disconnect Horn pad and clock spring
4. Remove steering wheel (1 capscrew) – Mark before moving to reinstall at same position on steering shaft spline
5. Remove (unscrew) tilt wheel lever
6. Remove upper steering column shroud (3 screws) to access multifunction switch
7. Remove multi function switch (2 screws)
8. Remove lower shroud cover mounting bracket (2 screws)

Lower Shroud Cover Mounting bracket



UPS F59 Removal Steps (Morgan Olson Body)

9. Remove lower steering shaft coupler bolt (1 capscrew)
10. Remove brake switch from bracket (twist)
11. Remove 4 steering column mounting capscrews and remove steering column
12. Move steering column to bench



Clockspring wiring to
multifunction switch connector

UPS F59 Removal Steps (Morgan Olson Body)

13. Pry back plastic clips on clock spring housing to loosen clock spring. Remove by loosening brown plastic clip in keyswitch cylinder and black plastic push pin in housing



UPS F59 Removal Steps (Morgan Olson Body)

14. Remove key switch green retainer and bearing from ignition lock cylinder housing. NOTE: You will not be able to separate the ignition lock cylinder housing from the main housing unless this step is completed. Discard the retainer and bearing.



UPS F59 Removal Steps (Morgan Olson Body)

15. Remove the steering column lower bearing spring (note spring is held in by notch in steering shaft)



UPS F59 Removal Steps (Morgan Olson Body)

16. Remove the rotation sensor ring



UPS F59 Removal Steps (Morgan Olson Body)

17. Remove the steering column lower bearing tolerance ring



UPS F59 Removal Steps (Morgan Olson Body)

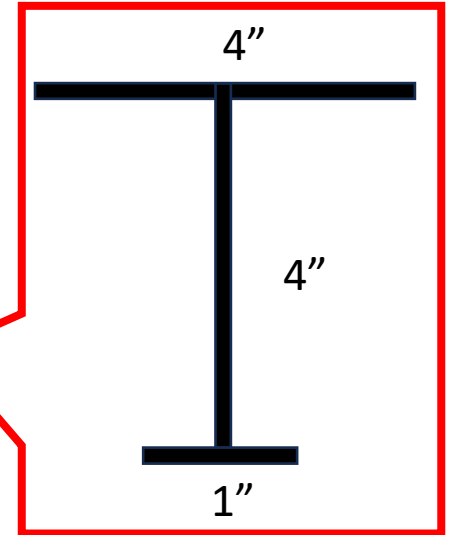
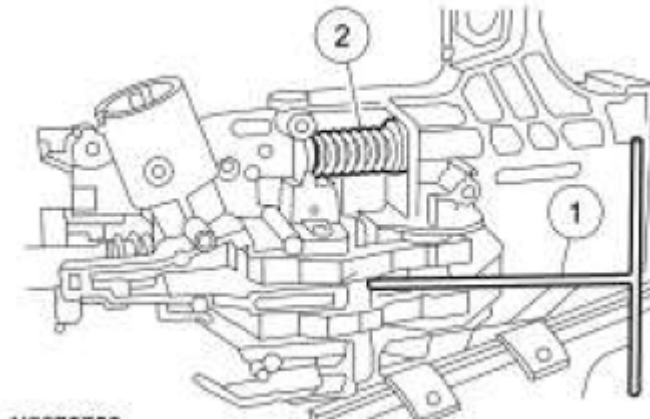
18. Remove the 2 lock cylinder housing pivot screws



UPS F59 Removal Steps (Morgan Olson Body)

19. The next step involves removing the steering column position spring (2).

- The Ford Workshop manual warns about the spring releasing causing personal injury. We used a tie wrap to secure the spring to the housing.
- The Ford Workshop manual recommends fabricating a special tool shown below(1). We were able to use a screwdriver but there were 2 of us.



- Remove the steering column position spring by releasing the steering column locking levers



UPS F59 Removal Steps (Morgan Olson Body)

20. Separate the ignition lock cylinder housing and steering shaft from the main housing



UPS F59 Removal Steps (Morgan Olson Body)

21. Remove the steering column upper bearing

- spring retainer
- spring



UPS F59 Removal Steps (Morgan Olson Body)

21. Remove the steering column upper bearing

- sleeve
- tolerance ring



UPS F59 Removal Steps (Morgan Olson Body)

22. Remove the steering column shaft from the lock cylinder housing allowing access to change the large and small bearings in the housing. Note the way that the bearing is installed before removing. Install the replacement bearing in the same orientation.



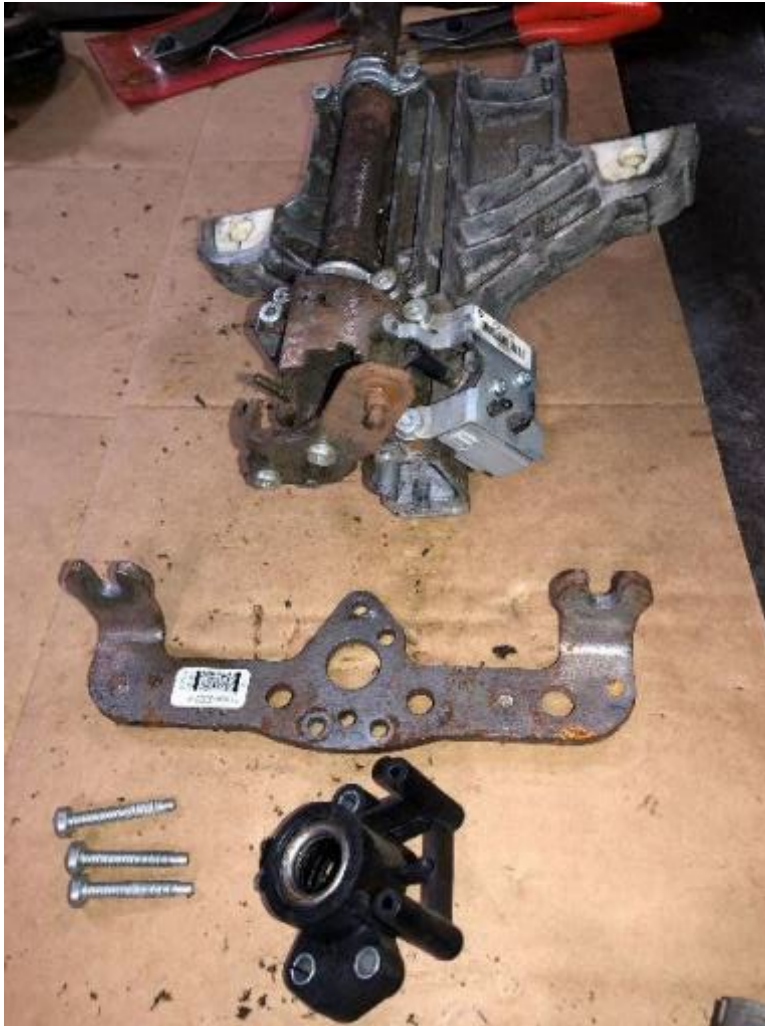
UPS F59 Removal Steps (Morgan Olson Body)

23. Remove the ignition switch and discard (it is not used)



UPS F59 Removal Steps (Morgan Olson Body)

24. Remove the 3 steering column lower bearing retainer bolts and the lower bearing retainer allowing the bearing to be changed in the housing. Note the way that the bearing is installed before removing. Install the replacement bearing in the same orientation.



UPS F59 Assembly Tips

1. Position steering shaft in vice and use O2 sensor socket or similar to install snap ring on shaft



UPS F59 Assembly Tips

2. Be sure to route wiring harness for multifunction switch on top of steering column before reinstalling steering column assembly

