

## Harley Davidson Softail Series 2019 - Drive & Transmission Fastener Torque Values

FASTENER	TORQUE VALUE	NOTES
Battery ground cable to transmission	7.5–12.9 N·m (56–111 in-lbs)	<a href="#">5.16 TRANSMISSION CASE, Install</a>
Clutch cable fitting	10.2–13.6 N·m (90–120 in-lbs)	<a href="#">5.6 CLUTCH RELEASE COVER, Install</a>
Clutch hub mainshaft nut	54.9–108.5 N·m (70–80 ft-lbs)	<a href="#">5.8 DRIVE COMPONENTS, Install</a>
Clutch release cover screws	14.9–17.6 N·m (133–156 in-lbs)	<a href="#">5.6 CLUTCH RELEASE COVER, Install</a>
Compensating sprocket bolt, 1st torque	135.6 N·m (100 ft-lbs)	<a href="#">6.8 DRIVE COMPONENTS, Install</a> <i>Loosen then final tighten</i>
Compensating sprocket bolt, final torque	237.3 N·m (173 ft-lbs)	<a href="#">6.8 DRIVE COMPONENTS, Install</a>
Drive belt slot spacer screw, 1st torque	88–75 N·m (50–55 ft-lbs)	<a href="#">5.4 DRIVE BELT, Install</a>
Drive belt slot spacer screw, final torque	88–85 N·m (65–70 ft-lbs)	<a href="#">5.4 DRIVE BELT, Install</a>
Engine oil fill spout screw	11.3–13.6 N·m (100–120 in-lbs)	<a href="#">5.11 ENGINE OIL FILL SPOUT, Install</a>
Foot shift lever pinch screw, front-mount	17.7–16.3 N·m (0–12 ft-lbs)	<a href="#">5.5 SHIFTER LINKAGE, Shifter Rod Lever, Front</a>
Front-Mount Foot shift lever pinch screw	17.7–16.3 N·m (108–144 in-lbs)	<a href="#">5.5 SHIFTER LINKAGE, Foot Shift Lever</a>
Mid-Mount Foot shift lever pinch screw	32.5–38 N·m (24–28 ft-lbs)	<a href="#">5.5 SHIFTER LINKAGE, Foot Shift Lever</a>
Oil return tube screw	11.3–13.6 N·m (100–120 in-lbs)	<a href="#">5.15 TRANSMISSION CASE, Assemblies</a>
Primary chain tensioner fasteners	20.5–17.6 N·m (71–74 ft-lbs)	<a href="#">5.8 DRIVE COMPONENTS, Install</a>
Primary chaincase sealing screws	35.3–38 N·m (26–28 ft-lbs)	<a href="#">6.10 PRIMARY CHAINCASE HOUSING, Install</a>
Primary cover screws	16.0–17.6 N·m (144–156 in-lbs)	<a href="#">5.7 PRIMARY CHAINCASE COVER, Install</a> <i>See sequence in the procedure</i>
Rear fork pivot shaft nut, 1st torque	34–41 N·m (25–30 ft-lbs)	<a href="#">5.4 DRIVE DELT, Install</a>
Rear fork pivot shaft nut, 2nd torque	0.1–5.4 N·m (1–48 in-lbs)	<a href="#">5.4 DRIVE BELT, Install</a>
Rear fork pivot shaft nut, 3rd torque	209–230 N·m	<a href="#">5.4 DRIVE DELT, Install</a>
	(154–170 ft-lbs)	

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Rear fork pivot shaft nut, final torque	209–230 N·m (154–170 ft-lbs)	<a href="#">6.4 DRIVE BELT, Install</a>
Rear fork pivot shaft pinch bolt	24–27 N·m (18–20 ft-lbs)	<a href="#">6.4 DRIVE BELT, Install</a>
Shift drum detent screw	13.6–17 N·m (120–150 in-lbs)	<a href="#">6.13 TRANSMISSION, Assemble</a>
Shift drum detent screw	13.8–17 N·m (120–150 in-lbs)	<a href="#">6.13 TRANSMISSION, Assemble</a>
Shift drum lock plate screws	6.4–7.1 N·m (57–63 in-lbs)	<a href="#">6.13 TRANSMISSION, Assemble</a>
Shift drum lock plate screws	6.4–7.1 N·m (57–63 in-lbs)	<a href="#">6.13 TRANSMISSION, Assemble</a>
Shifter pawl centering screw	24.4–31.2 N·m (18–23 ft-lbs)	<a href="#">6.15 TRANSMISSION CASE, Assemble</a>
Shifter peg screw	10.9–16.3 N·m (96–144 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Foot Shift Lever</a>
Shifter rod jamnut	9.5–14.9 N·m (84–132 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod</a>
Shifter rod lever pinch screw, mid-mount	24.4–29.8 N·m (18–22 ft-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod Lever, Front</a>
Shifter rod lever pinch screw, transmission lever	24.4–29.8 N·m (18–22 ft-lbs)	<a href="#">6.15 TRANSMISSION CASE, Assemble</a>

Shifter rod to front shifter rod lever, front foot control	13.6–19 N·m (120–168 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod</a>
Shifter rod to rear shifter rod lever, front foot control	13.6–19 N·m (120–168 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod</a>
Shifter rod to shifter rod lever	13.6–19 N·m (120–168 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod</a>
Shifter rod to shifter rod lever, front-mount	13.6–19 N·m (120–168 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod Lever, Front</a>
Shifter rod to shifter rod lever, mid-mount	13.6–19 N·m (120–168 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod Lever, Front</a>
Shifter rod to shifter rod lever, mid-mount control	13.6–19 N·m (120–168 in-lbs)	<a href="#">6.5 SHIFTER LINKAGE, Shifter Rod</a>
Transmission bearing housing screws	29.0–33.9 N·m (22–25 ft-lbs)	<a href="#">6.13 TRANSMISSION, Install</a>
Transmission mainshaft/inter shaft locknuts	115.3–128.8 N·m (85–95 ft-lbs)	<a href="#">6.13 TRANSMISSION, Assemble</a>

Transmission mounting bolts, 1st torque	20.0 N·m (15 ft-lbs)	<a href="#">6.15 TRANSMISSION CASE, Install</a>
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Transmission mounting bolts, final torque	18.1–52.9 N·m (31–39 ft-lbs)	<a href="#">5.16 TRANSMISSION CASE, Install</a>
Transmission sprocket lockplate screws	10.2–13.0 N·m (90–120 in-lbs)	<a href="#">5.42 TRANSMISSION SPROCKET, Install</a> <i>Lock patch, use 2-5 times</i>
Transmission sprocket nut, 1st torque	135.6 N·m (100 ft-lbs)	<a href="#">5.42 TRANSMISSION SPROCKET, Install</a> <i>Apply LOC TITE 271 HIGH STRENGTH THREADLOCKER (red) to last few threads. Loosen one full turn after first torque.</i>
Transmission sprocket nut, 2nd torque	47.5 N·m (35 ft-lbs)	<a href="#">5.42 TRANSMISSION SPROCKET, Install</a>
Transmission sprocket nut, final torque	30–40" (35–40")	<a href="#">5.42 TRANSMISSION SPROCKET, Install</a> <i>Do not loosen to align lockplate screws.</i>
Transmission top cover	11.8–17.6 N·m (132–156 in-lbs)	<a href="#">5.13 TRANSMISSION, Install</a>