

SPECIFICATIONS H150F MANUAL TRANSMISSION / TRANSAXLE TORQUE SPECIFICATIONS

TRANSMISSION CASE OIL SEAL

Part Tightened	N*m	kgf*cm	ft.*lbf
front bearing retainer x Manual transmission case	16.66	170	12

SPEEDOMETER SENSOR (for 1VD-FTV)

Part Tightened	N*m	kgf*cm	ft.*lbf
Speedometer sensor x Manual transmission assembly	16	163	12

BACK-UP LIGHT SWITCH

Part Tightened		N*m	kgf*cm	ft.*lbf
Back-up light switch x Manual transmission assembly	with SST	28.9	295	21
	without SST	44.1	450	33

MANUALTRANSMISSION ASSEMBLY (for 1GR-FE)

Part Tightened		N*m	kgf*cm	ft.*lbf	in.*lbf
Heated oxygen sensor bracket RH x Manual transmission assembly	for Type A	7.5	76		66
	for Type B	12	122	9	
Heated oxygen sensor bracket LH x Manual transmission assembly	for Type A	7.5	76		66
	for Type B	12	122	9	
Air fuel ratio sensor bracket RH x Manual transmission assembly	for Type A	7.5	76		66
	for Type B	12	122	9	
Air fuel ratio sensor bracket LH x Manual transmission assembly	for Type A	7.5	76		66
	for Type B	12	122	9	
Wire harness bracket x Manual transmission assembly		8.0	82		71
Transfer assembly Manual transmission assembly		68.6	700	51	
Manual transmission assembly x Engine assembly	Bolt A	71.6	730	53	
	Bolt B	37.3	380	28	
No. 2 cable bond x Manual transmission assembly		12	122	9	
Rear engine mount insulator x Manual transmission assembly		59	602	44	
No. 2 frame crossmember sub-assembly x Body		46	469	34	
No. 2 frame crossmember sub-assembly x Manual transmission assembly		74	755	55	
Front stabilizer bracket x Front stabilizer link		29.7	303	22	
Clutch release cylinder assembly x Manual transmission assembly		11.8	120	9	
Clutch flexible hose tube x Manual transmission assembly		20	204	15	
No. 1 clutch housing cover x Manual transmission assembly		11.8	120	9	
Transfer case protector x No. 2 frame crossmember sub-assembly		18	184	13	

MANUALTRANSMISSION ASSEMBLY (for 1VD-FTV)

Part Tightened	N*m	kgf*cm	ft.*lbf	in.*lbf
Wire harness bracket x Manual transmission assembly	30	306	22	
Transfer assembly Manual transmission assembly	68.6	700	51	
Manual transmission assembly x Engine assembly	71.6	730	53	
No. 2 cable bond x Manual transmission assembly	12	122	9	
Ground cable x Manual transmission assembly	13	133	10	
Rear engine mount insulator x Manual transmission assembly	59	602	44	
No. 2 frame crossmember sub-assembly x Body	46	469	34	

Part Tightened	N*m	kgf*cm	ft.*lbf	in.*lbf
No. 2 frame crossmember sub-assembly x Manual transmission assembly	74	755	55	
Front stabilizer bracket x Front stabilizer link	29.7	303	22	
Oil pan cover x Clutch housing	21	214	15	
Clutch release cylinder assembly x Manual transmission assembly	11.8	120	9	
Heater water valve assembly x Body	5.0	51		44
Transfer case protector x No. 2 frame crossmember sub-assembly	18	184	13	

MANUAL TRANSMISSION UNIT

Part Tightened	N*m	kgf*cm	ft.*lbf
Output shaft rear bearing retainer x Intermediate plate	18.13	185	13
No. 2 gear shift fork shaft x No. 2 gear shift fork	46.29	472	34
No. 1 gear shift fork shaft x No. 1 gear shift fork	46.29	472	34
No. 3 gear shift fork shaft x No. 3 gear shift fork	46.29	472	34
No. 4 gear shift fork shaft x Reverse shift fork	34.3	350	25
Transmission case receiver x Intermediate plate	18.13	185	13
Shift detent ball plug x Intermediate plate.	18.62	190	14
Oil receiver pipe x Transmission case	11.76	120	9
Transmission oil strainer sub-assembly x Transfer adapter	11.76	120	9
No. 1 transmission case hanger and No. 2 transmission case hanger x Transmission case	37.24	380	27
Transfer adapter x Transmission case	37.24	380	27
Transmission oil pump cover plug x Transmission oil pump cover	18.13	185	13
Oil pump cover x Transfer adapter	16.66	170	12
Floor shift control shift lever retainer sub-assembly x Manual transmission case	16.66	170	12
Front bearing retainer x Transmission case	16.66	170	12
Clutch housing x Transmission case	37.24	380	27
drain plug sub-assembly x Manual transmission	37.24	380	27
Manual transmission case plug x Manual transmission	37.24	380	27
Reverse restrict pins x Shift lever retainer	37.24	380	27
Transmission oil baffle x Clutch housing (for 1VD-FTV)	11.8	120	9
Transmission breather sub-assembly x Clutch housing (for 1GR-FE)	18.13	185	13