



Tech Lesson Handout

By Autoprof

03-04 SSR Fuse Box reference

Complied by: Autoprof for Maggie Valley Tech Lesson 2019 **Underhood fuse box** (highlighted yellow are ignition switch tests)

Number	FUSE	Rating	Description	Conditions	Source
1	A/C Fuse	10A	Air Conditioning Relay (Switch)	B+	Circuit 19
2	BTSI	10A	Stop lamp switch, AT shift lock actuator	Start/run	P/N switch
3	Canister Fuse	10A	EVAP vent solenoid	B+	Circuit 19
4	COILS	10A	HDLP-Hi relay (relay coil windings)	B+	Circuit 19
5	CRANK	10A	Powertrain control Module	Start	Ignition Switch D
6	ENG 1	10A	EVAP purge solenoid, IAT, MAF sensor	Start/ Run	Ignition Switch C
7	HI-HDLP-LT	10A	Left high beam headlight	HI Beam on	Relay 37
8	HI-HDLP-RT	10A	Right high beam headlight	Hi Beam on	Relay 37
9	IGN E fuse	10A	Cooling fans 1&2 relay, PNP switch, Inside rear view mirror, stop lamp switch, IPC, Turn signal switch, AC relay coil, Ign1 relay coil	Start/Run	Ignition Switch C
10	IPC/DIC	10A	Instrument panel cluster	B+	Circuit 19
11	LOW-HDLP LT	10A	Left low beam headlight	Low beam on	Relay 41
12	LOW-HDLP RT	10A	Right low beam headlight	Low beam on	Relay 41
13	PCM 1	15A	PCM	Start/Run	Ignition Switch C
14	AIRBAG	10A	Inflatable restraint diagnostic module, disable switch	Start/Run	Ignition Switch C
15	TBC 1	10A	BCM	B+	Circuit 19
16	TBC IGN 1	10A	BCM	Run/Start	Ignition Switch C
17	L-ST/TRN	10A	Left stop/turn signal, left trailer feed	Left TS or brake on	Flasher module
18	R-ST/TRN	10A	Right stop/ turn signal, right trailer feed	Right TS or brake on	Flasher module
19	BCK/UP	15A	Park/Neutral switch	Start/Run	Ignition switch C
20	ETC	15A	Throttle actuator control module	Start/Run	Relay 42
21	FOG LP	15A	Fog light relay (switch)	B+	Circuit 19
22	HORN	15A	Horn relay (coil and switch)	B+	Circuit 19
23	INJ A	15A	Left bank injectors and coils	Start/Run	Relay 42
24	INJ B	15A	Right bank injectors and coils	Start/Run	Relay 42
25	O2A	15A	HO2S1 Bank 1 and 2	Start/Run	Ignition Switch C
26	O2B	15A	HO2S2 Bank 1 and 2	Start/Run	Ignition Switch C
27	W/S WASH	15A	W/S WASH relay (switch)	B+	Circuit 19
28	LTR	20A	Data Link connector, Cigar lighter	B+	Circuit 19
29	PCM B	20A	F/PMP relay (switch), PCM	B+	Circuit 19
31	BED COVER RELEASE	20A	Bed Cover release relay (switch and coil)	B+	Circuit 19
32	FLASH	25A	Turn signal/ Hazard flasher module	B+	Circuit 19
33	ST/LP	25A	Turn Signal/ Hazard flasher module, High mount brake fuse	B+	Circuit 19
44	ENG CLN FAN	60A	Cooling fan relays 1 and 2 (switches)	B+	Circuit 19
45	BLWR	40A	Blower motor	B+	Circuit 19
46	IGN A	40A	Starter relay (switch), Ignition switch feed	B+	Circuit 19
47	IGN B	40A	Ignition switch feed	B+	Circuit 19
48	ABS	60A	Electronic Brake Control module	B+	Circuit 19
42	IGN1 Relay	-	INJ A fuse, INJ B fuse, TAC fuse	B+	Circuit 19
43	STRTR relay	-	Starter solenoid	B+	Circuit 19
34	AC relay	-	A/C compressor clutch, PCM	B+	Circuit 19

03-04 SSR Fuse Box reference Complied by: Autoprof for Maggie Valley Tech Lesson 2019 **Rear fuse box** (highlighted are ignition switch outputs)

Number	FUSE	Rating	Description	Conditions	Source
1	ROOF-DOOR module circuit breaker	30A	Roof Door module	B+	Underhood Fuse 52
2	ROOF PUMP circuit breaker	30A	Roof Motor relays (left and right)	B+	Underhood Fuse 52
3	R/DEF	30A	Defrost relay/ defogger relay	B+	Underhood Fuse 52
4	TBC 3	15A	BCM	B+	Underhood Fuse 52
5	DEFG CONT	10A	Side view mirror defrost (left and right) defog relay	Defrost on	Defrost relay
6	DR SEAT MODULE	10A	Memory seat module-driver	B+	Underhood Fuse 52
7	TBC 2	15A	BCM	B+	Underhood Fuse 52
8	SEATS circuit breaker	30A	Seats	B+	Underhood Fuse 52
9	Spare slot	--	12 v all times – hot left	B+	Underhood Fuse 52
10	DDM	10A	Outside rearview mirror switch, driver door unlock relay	B+	Underhood Fuse 52
11	AMP	25A	Audio Amplifier	B+	Underhood Fuse 52
12	Spare slot	--	12 v all times – hot right	B+	Underhood Fuse 52
13	DRL	15A	DRL relay	B+	Underhood Fuse 52
14	LR PRK	10A	Left rear park lamps	Park lights on	Relay 30
15	AUX PWR 2	20A	Auxiliary power outlet – Rear	B+	Underhood Fuse 52
16	VEH CHMSL	10A	Center high mount brake lamp	Brake on	Brake switch / fuse #13
17	RR PRK	10A	Right rear park lamps	Park lights on	Relay 30
18	LOCK relay		Power door locks		
19-20	Spare slot	--	#19 -- 12 v all times – hot left	B+	Underhood Fuse 52
21	LOCKS	10A	Lock and unlock relay (coils) not driver unlock	B+	Underhood Fuse 52
22-23	Spare slot	--	#23 12 v all times – hot right	B+	Underhood Fuse 52
24	UNLOCK relay		Power door locks		
25-26	Spare slot	--	#25 12 v all times – hot right, #26 12 v all times left	B+	Underhood Fuse 52
27	UGDO	10A	Inside rear view mirror		
28	RDM 2	15A	Roof door module	B+	Underhood Fuse 52
29	Spare	---	12 v accessory run	Accessory/Run	Ignition Switch A
30	PRK LAMP relay		Park Lamps		
31	TBC 4CC	10A	BCM	Accessory/Run	Ignition Switch A
32	RKE	10A	Remote door lock receiver	B+	Underhood Fuse 52
33	FT WPR	25A	Windshield wiper motor	Accessory/Run	Ignition Switch A
34	STOP	15A	ECM, PCM, flasher // stop switch input	Brake on	Brake switch
35	---	--	Not Used		
36	HVAC B, DD UNLOCK	10A	HVAC Module – Driver door unlock relay (coil)	B+	Underhood Fuse 52
37	F/PRK	10A	Front Park lights	Park lights on	Relay 30
38	L/TURN	10A	Left turn lamps - front	Left TS on	Flasher
39	HVAC 1	10A	HVAC module, multifunction switch feed, Center console switch	RUN	Ignition switch G
40	TBC 4	15A	BCM	B+	Underhood Fuse 52
41	RDO	15A	Radio	B+	Underhood Fuse 52
42	TR PRK	10A	Trailer tow park lamp feed	Park on	Relay 30
43	R/TURN	10A	Right turn lamps - front	Right TS on	Flasher
44	Spare slot	--	12 v run – hot right	RUN	
45	DEFROST RELAY		Rear defogger, Side view mirror defrost		
46	AUX PWR	20A	Auxiliary power outlets	B+	Underhood Fuse 52
47	IGN 0	10A	RDM, PCM (auto trans)	Accessory/Start/Run	Ignition Switch E
48-49	Spare slot	--	12 v RUN – hot right	RUN	
50	TBC IG	10A	BCM	Accessory/Start/Run	Ignition Switch E
51	BRK	10A	Electronic Brake control module	Run	Ignition Switch G
52	Spare slot	--	12 v RUN – hot left	RUN	

05-06 SSR Fuse Box reference

Complied by: Autoprof for Maggie Valley Tech Lesson 2019 **Underhood fuse box** (highlighted yellow are ignition switch tests, green are fuse box for relay 42 failure tests)

Number	FUSE	Rating	Description	Conditions	Source
1	AUX PWR 2	20A	Aux power outlet -rear	B+	Circuit 19
2	HI HDLP RT	10A	Right high beam headlight	High beam	Relay 49
3	LOW HDLP RT	10A	Right low beam headlight	Low beam	Relay 47
4	Hi HDLP LT	10A	Left high beam headlight	High beam	Relay 49
5	LOW HDLP LT	10A	Left low beam headlight	Low beam	Relay 47
6	BED RELSE	20A	Bed release relay (coil and switch)	B+	Circuit 19
7	TCM/CNSTR	10A	Evap vent solenoid, Transmission control module (TCM) (M32)	B+	Circuit 19
8	TBC 1	10A	Body control module (BCM)	B+	Circuit 19
9	W/S WASH	15A	W/S Washer RELAY (Coil and Switch)	B+	Circuit 19
10	L-ST/TRN	10A	Stop, turn signal lamp rear, trailer tow	Left turn or stop	Flasher
11	FUEL/PMP	20A	Fuel pump relay – (Switch - fuel pump)	B+	Circuit 19
12	FOG/LP	15A	Fog Lamp relay (coil and switch)	B+	Circuit 19
13	STOP/LP	25A	Turn signal hazard module, VEH CMSL Fuse	B+	Circuit 19
14	HDM	15A	Low beam headlight relay (switch)	B+	Circuit 19
15	R-ST/TRN	10A	Stop, turn signal lamp rear, trailer tow	Right turn or stop	Flasher
16	LTR	20A	Data Link connector, cigar lighter	B+	Circuit 19
17	FLASHER	25A	Turn signal flasher module	B+	Circuit 19
18	COILS	10A	Hi beam headlight relay (switch)	B+	Circuit 19
19	TBC IGN 1	10A	Body Control Module (BCM)	Start/Run	Ignition switch C
20	CRANK	10A	Engine Control Module (ECM)	Start	Ignition switch D
21	AIRBAG	10A	Inflatable Restraint Sensing and Diagnostic Module (SDM), Inflatable restraint I/P module disable switch	Start/Run	Ignition switch C
22	HORN	15A	Horn relay (coil and switch)	B+	Circuit 19
23	IGN E	10A	Cooling fan relays 1 and 2, Park/neutral position switch (M32), inside rearview mirror, stop lamp switch, IPC, turn signal multifunction switch, auxiliary gauges, clutch switch (M12), clutch pedal position switch (M12)	Start/Run	Ignition Switch C
24	IPC DIC	10A	Instrument cluster (IPC) Driver information center (DIC)	B+	Circuit 19
25	BTSI	10A	Stop lamp switch, Auto transmission shift lock actuator (M32)	Park	P/N switch
26	BCK/UP REV LK OUT	15A	Park/Neutral Switch (PNP)	Start/Run	Ignition Switch C
27	ECM	10A	Engine Control Module	B+	Circuit 19
28	O2B	10A	HO2S2, Bank 1 and Bank 2	Run, Start	Relay 42
29	INJ B	20A	Right Bank Ignition Coils and Fuel injectors	Run, Start	Relay 42
30	A/C	10A	Air conditioning relay (switch)	B+	Circuit 19
31	ECM 1/ TCM	15A	Engine control module (ECM), Transmission control module (M32)	Start/Run	Ignition switch C
32	TRANS	15A	Automatic transmission	Start/Run	Ignition Switch C
33	ENG 1	15A	Evap purge solenoid, IAT/MAF sensor	Run, Start	Relay 42
34	ECM 2	15A	Engine control module (ECM)	Run, Start	Relay 42
35	O2A	10A	HO2S1, bank1 and bank 2	Run, Start	Relay 42
36	INJ A	20A	Left bank ignition coils and injectors	Run, Start	Relay 42
37	ENG COOL FAN	60A	Cooling fan 1 and 2 relay (switch)	B+	Circuit 19
38	ABS	60A	Electronic Brake Control module	B+	Circuit 19
39	IGN A	40A	Starter relay (switch), Ignition switch feed	B+	Circuit 19
40	HVAC BLWR	40A	Blower motor	B+	Circuit 19
41	IGN B	40A	Ignition switch feed	B+	Circuit 19
42	PWR/TRN relay	--	INJ A, INJ B, O2A,O2B, ENG 1, ECM 2 fuses		
43	STRTR relay	--	Starter solenoid		
44	FUEL/PUMP relay	--	Fuel Pump		
45	BED RELSE	--	Rear compartment lid release switch		
46	W/S WASH relay	--	Windshield washer pump		
47	HDM relay	--	Body Control Module, low beam headlight fuses 3 and 5		
48	FOG/LP relay	--	Front Fog lamps – fog lamp fuse 12		
49	HI HDLP relay	--	Body Control module, high beam headlights fuses 2 and 4		
50	Horn relay	--	Horns -		
51	A/C relay	--	A/C compressor clutch, Engine control module		
52	I/P BATT	125A	Fuse block - rear		

05-06 SSR Fuse Box reference Complied by: Autoprof for Maggie Valley Tech Lesson 2019 **Rear fuse box** (highlighted are ignition switch outputs)

Number	FUSE	Rating	Description	Conditions	Source
1	ROOF-DOOR module circuit breaker	30A	Roof Door module	B+	Underhood Fuse 52
2	ROOF PUMP circuit breaker	30A	Roof Motor relays (left and right)	B+	Underhood Fuse 52
3	R/DEF	30A	Defrost relay/ defogger relay	B+	Underhood Fuse 52
4	TBC 3	15A	BCM	B+	Underhood Fuse 52
5	DEFG CONT	10A	Side view mirror defrost (left and right) defog relay	Defrost on	Defrost relay
6	DR SEAT MODULE	10A	Memory seat module-driver	B+	Underhood Fuse 52
7	TBC 2	15A	BCM	B+	Underhood Fuse 52
8	SEATS circuit breaker	30A	Seats	B+	Underhood Fuse 52
9	Spare slot	--	12 v all times – hot left	B+	Underhood Fuse 52
10	DDM	10A	Outside rearview mirror switch, driver door unlock relay	B+	Underhood Fuse 52
11	AMP	25A	Audio Amplifier	B+	Underhood Fuse 52
12	Spare slot	--	12 v all times – hot right	B+	Underhood Fuse 52
13	DRL	15A	DRL relay	B+	Underhood Fuse 52
14	LR PRK	10A	Left rear park lamps	Park lights on	Relay 30
15	AUX PWR 2	20A	Auxiliary power outlet – Rear NOTE THIS IS INCORRECT - #1 underhood	B+	Underhood Fuse 52
16	VEH CHMSL	10A	Center high mount brake lamp	Brake on	Brake switch / fuse #13
17	RR PRK	10A	Right rear park lamps	Park lights on	Relay 30
18	LOCK relay		Power door locks		
19-20	Spare slot	--	#19 -- 12 v all times – hot left	B+	Underhood Fuse 52
21	LOCKS	10A	Lock and unlock relay (coils) not driver unlock	B+	Underhood Fuse 52
22-23	Spare slot	--	#23 12 v all times – hot right	B+	Underhood Fuse 52
24	UNLOCK relay		Power door locks		
25-26	Spare slot	--	#25 12 v all times – hot right, #26 12 v all times left	B+	Underhood Fuse 52
27	UGDO	10A	Inside rear view mirror		
28	RDM 2	15A	Roof door module	B+	Underhood Fuse 52
29	TCM	10A	Transmission Control Module (automatic trans equipped)	Accessory/Run	Ignition Switch A
30	PRK LAMP relay		Park Lamps		
31	TBC 4CC	10A	BCM	Accessory/Run	Ignition Switch A
32	RKE	10A	Remote door lock receiver	B+	Underhood Fuse 52
33	FT WPR	25A	Windshield wiper motor	Accessory/Run	Ignition Switch A
34	STOP	15A	ECM, PCM, flasher // stop switch input	Brake on	Brake switch
35	---	--	Not Used		
36	HVAC B, DD UNLOCK	10A	HVAC Module – Driver door unlock relay (coil)	B+	Underhood Fuse 52
37	F/PRK	10A	Front Park lights	Park lights on	Relay 30
38	L/TURN	10A	Left turn lamps - front	Left TS on	Flasher
39	HVAC 1	10A	HVAC module, multifunction switch feed, Center console switch	RUN	Ignition switch G
40	TBC 4	15A	BCM	B+	Underhood Fuse 52
41	RDO	15A	Radio	B+	Underhood Fuse 52
42	TR PRK	10A	Trailer tow park lamp feed	Park on	Relay 30
43	R/TURN	10A	Right turn lamps - front	Right TS on	Flasher
44	Spare slot	--	12 v run – hot right	RUN	
45	DEFROST RELAY		Rear defogger, Side view mirror defrost		
46	AUX PWR	20A	Auxiliary power outlets	B+	Underhood Fuse 52
47	IGN 0	10A	RDM, PCM (auto trans)	Accessory/Start/Run	Ignition Switch E
48-49	Spare slot	--	12 v RUN – hot right	RUN	
50	TBC IG	10A	BCM	Accessory/Start/Run	Ignition Switch E
51	BRK	10A	Electronic Brake control module	Run	Ignition Switch G
52	Spare slot	--	12 v RUN – hot left	RUN	

