

	Check lists for an F/MS (Electroinc injection, unblown, fuel, short or long course) For bigger faster cars add parachutes, alcohol, nitrous, nitro, attendant paraphernalia and a much more comprehensive spare parts list
1	Trailer Prep
2	Pit Setup
3	Car Prep
4	Engine Prep
5	Pre-race / Starting Line
6	Shut down
7	Between-Run Maintenance

	TRAILER PREP	Owner	Checker
1	Wheel bearings		
2	Tire pressures		
3	Grease ball and load levelers		
4	Spare tire present and actually inflated		
	PACK TRAILER - Critical items list	Owner	Checker
1	Drivers gear		
2	Tools		
3	CO2 bottle		
4	Tune up parts		
5	Spark plugs		
6	Jets		
7	QC gears		
8	Fluids		
9	Fuel		
10	Oil		
11	Water (empty barrel, fill before arriving at track)		
12	Brake cleaner		
13	Hand cleaner		
14	Spare parts, An endless list moderated by paranoia, cash reserves and storage space		
15	Shop towels		
16	Floor jack and stands		
17	Tow Strap		
18	Battery charger		
19	Weather station		
20	CB radio x2		
21	Portable fire extinguisher x2		
22	Trash bags		
23	Tarp and stakes		
24	Canopy - count the poles and then count again		
25	Coolers		
26	Chairs		
27	Table x2		
28	Umbrellas		
29	And oh yes the car, and make sure its tied down right		

	PIT SETUP	Owner	Checker
1	Cooler in shade		
2	Tarp on ground		
3	Plywood under the car		
4	Set up Canopy		
5	Car out		
6	Tie downs stored, otherwise they will walk away		
7	Car prepped for tech		
8	Drivers suit, helmet, HANS, and gear		
9	Log book & Medical		
10	Tow bar		
11	Moon disks off		
12	CB radio - base and each vehicle		
13	Portable fire extinguisher		
14	Dzus button tool & dust cover allen wrench		

	CAR PREP	Owner	Checker
1	Drain fuel tank		
2	Check wheel bearings		
3	Check fluids		
4	Rear end		
5	Trans		
6	Engine oil		
7	Battery		
8	Radiator		
9	Clutch adjusted		
10	Tire Pressures		
11	Moon disks on		
12	Fire extinguisher and harness cert OK		
13	Blow out fire extinguisher lines		
14	Fittings and fasteners tight		
15	Charge battery		
16	Injector stack plugs in		
17	Power off		
18	Do the brakes work at all?		
19	Parachutes packed		

	ENGINE PREP	Owner	Checker
1	Portable fire extinguisher standing by	Crew Chief	
2	Fill radiator and presurize to 30psi and bleed	Crew Chief	
3	Fill Main fuel tank and bleed lines	Crew Chief	
4	Fill Heater fuel tank and bleed lines	Crew Chief	
5	Fill oil tank and bleed lines	Crew Chief	
6	Install Shore power cord and start 120v power	Crew Chief	
7	Set battery charger circuit breaker to on	Crew Chief	
8	Set master disconnect on	Crew Chief	
9	Check under and around car for obstructions - confirm firm ground under jacks	Crew Chief	
10	Set Master switch on	Driver	
11	Engauge jacks and raise car - yell "clear car - going up"	Driver	
12	Check TDC verses fly wheel timing	Crew Chief	
13	Oil pre-heat circuit breaker on (Pre-heat oil)	Crew Chief	
14	Oil prime switch off (Pre-heat oil)	Driver	
15	Oil prime pump on (Pre-heat oil)	Driver	
16	Pre-heat water circuit breaker on - heat to 200F and switch off (Pre-heat engine water/block)	Crew Chief	
17	When Oil temp = 100F and water temp = 200F, Oil prime switch on for 5 seconds (Prime oil system)	Crew Chief	
18	Oil pre-heat circuit breaker to off	Driver	
19	Start	Driver	
	a Master switch on	Driver	
	b Ignition on (will start main fuel transfer pump)	Driver	
	c Starting Fuel pump on	Driver	
	d Starter engaged	Driver	
	e Open throttle	Driver	
	f Oil pressure => 80psi	Driver	
	k Fuel pressure =>145PSI	Driver	
	g Close throttle	Driver	
	i Maintain 2,000 RPM	Driver	
	k Starting Fuel pump off	Driver	
	k Check for fuel, oil and water leaks	Driver	
	l Set idle RPM	Driver	
	m Check throttle response	Driver	
20	Warm up and shut down	Driver	
21	Check oil filter screen	Crew Chief	
22	Check throttle valve leakdown if linkage adjusted, at throttle response check and note new rate	Crew Chief	
23	If all is OK, sit down, lean back, relax, it's time to bugatty bugatty bugatty	Driver	

	PRE-RACE	Owner	Checker
1	Tire Pressures		
2	Lug nuts		
3	Moon disks on		
4	Fire bottle pin in		
5	Fuel car		
6	Timing		
7	Warm up plugs		
8	Pre-heat oil		
9	Prime oil system		
10	Injector stack plugs removed		
11	Start and warm up, fire extinguisher standing by		
12	Check oil pressure and idle RPM		
13	Check for fuel, oil and water leaks		
14	Check valve lash		
15	Race plugs in		
16	Injector stack plugs in		
17	Gear ratio		
18	Charge battery		
19	Fill out race log page		
20	Driver's gear, weather station, radio, fire extinguisher		
21	Umbrella and small cooler with drinks in push truck		
22	Cooler still in shade		
23	Parachutes		
	STARTING LINE	Owner	Checker
1	Define targets - what is RPM or Speed target		
2	Install Aux jump cables		
3	Preheat coolant to 100°F		
4	Injector stack plugs removed		
5	Fire bottle safety pin removed		
6	Parachutes safety pin removed		
7	Reset tach		
8	Driver prepared		
9	Sufficiently hydrated?		
10	Inhale deeply while starter tightens belts		
11	Starting sequence		
12	Fuel on		
13	Power on		
14	Starter engaged		
15	Open throttle		
16	Oil pressure		
17	Close throttle		
18	Ignition on		
19	Check oil pressure and water temp		
20	Check heart rate, if elevated you are ready to go but wait for starters instructions anyway		

	SHUT DOWN	Owner	Checker
1	Calm down, you will be a lot cooler with the fire suit off		
2	Pin fire bottle		
3	Power off		
4	Injector stack plugs in		
5	Note data		
	Tach tell tale		
	Oil Temp		
	Water temp		
	Oil press out the back door		
	Barometer, relative humidity and air temp		

	BETWEEN RUN MAINTENANCE	Owner	Checker
1	Record data from run, try to get driver to be objective with comments		
2	Fuel car, note consumption		
3	Check spark plugs and piston tops		
4	Check oil filter screen		
5	Check oil level		
6	Charge battery		
7	Check for loose, cracked, broken, bent or missing components		