

1:8 SCALE GAS POWERED OFF-ROAD BUGGY

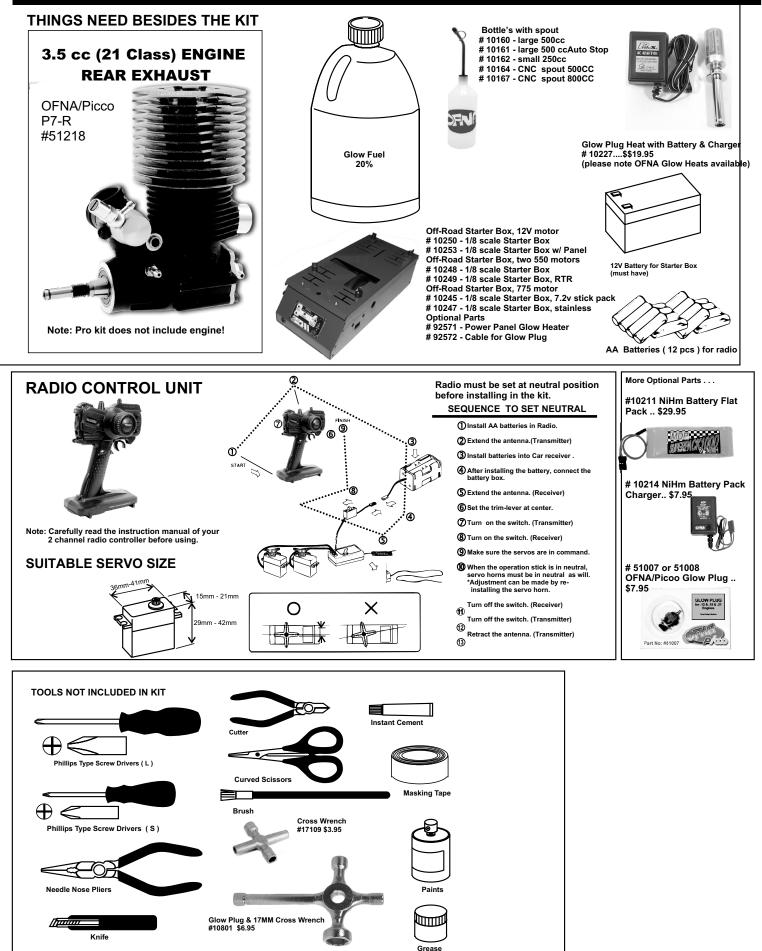


## INSTRUCTION MANUAL

PLEASE READ INSTRUCTIONS CAREFULLY BEFORE ASSEMBLING THIS MODEL.

KEEP THIS MANUAL FOR PARTS NUMBERS WHEN ORDERING

### **REQUIRED FOR OPERATION**



# **READ THIS BEFORE RUNNING**

Running a nitro kit is fun and easy, but to make this a safe and good experience you must observe a few rules. This kit is extremely fast, easily over 40MPH, and can seriously injure someone if you are not careful.

#### Where to run car?

• Any running area you choose must be dry. Do not run car near any water or wet dirt.

• Do not run on public streets. It is very easy to have the car run over or damaged by hitting the curb.

• Do not operate car in tight confined places. The car is very fast and will easily hit something.

• Do not run near people or animals. The car is very fast

and will too easily hit someone.

• Due noise, you will want to consider the surrounding area when operating the car.

• Do not operate the car at night. You will not be able to drive it without hitting something.

• Do not operate the car indoors. Engine exhaust is not healthy.

#### **Glow Fuel**

Glow fuel is poisonous!

• Glow fuel is flammable!

• Do not leave in fuel bottle with lid off at any time.

• Don use any fuel other than glow fuel in this engine.

#### First Time Starting the Engine

Caution! When starting engine make sure the following is observed.

- Oil the air filter FOAM Element! OFNA #10015.. \$9.95
- Set engine Master needle to 4 turns (rich setting)

• Do not do this alone, get an experienced friend to help at first.

• Fill fuel tank, try not to spill fuel. Do not spill fuel on receiver

• Hold car off the ground, so it will not runaway when first starts

• Turn on Radio and check the linkage before starting engine.

• Turn on car receiver battery switch.

• Always have an air filter on the carburetor to keep dirt out.

#### Engine Break-in

See Engine Page.

#### Emergency Stopping Engine When Running

- Remove air filter and cover carb. intake.
- Squeeze fuel line and hold until engine stops.
- With a rag, cover exhaust outlet.

#### Storing Car After Running

Remove fuel from tank and fuel lines

Turn off radio in car

• Put a few drops of after run in engine to keep it from rusting.

· Clear oil and dirt from chassis with a degreaser.

#### Precautions

• This kit is not a toy. Always run car with a second person as a spotter and pitman.

• Hot Parts - The pipe, manifold, engine and head are very hot and will cause burns.

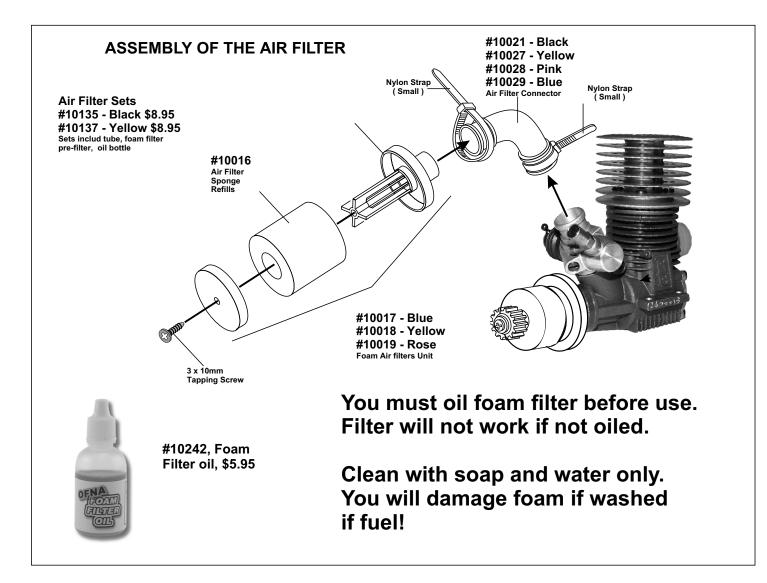
• Rotating Parts - Keep hands away from the drive train, wheels, and engine when engine is running.

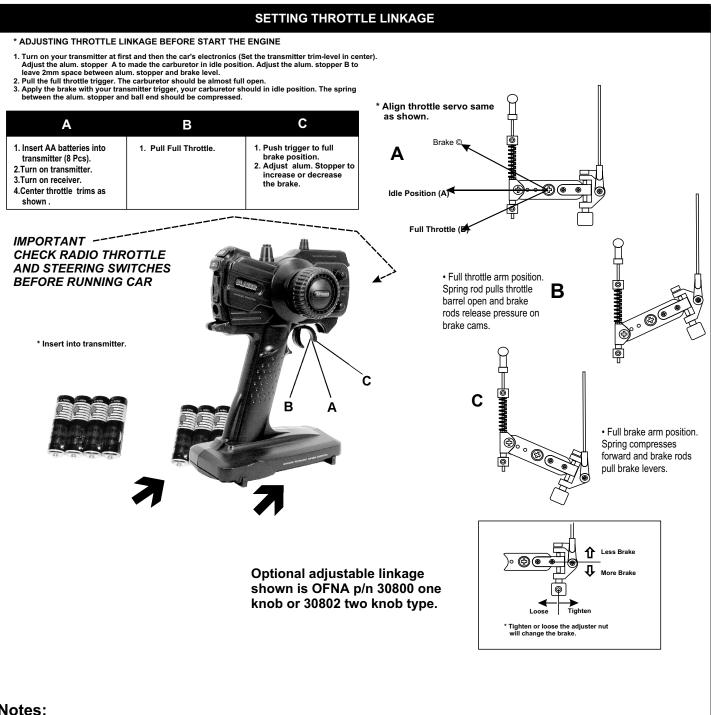
• Radio - Check batteries life before running the car. If radio does not have full control of the car with steering and/or throttle/brake do not run until corrected. Failure to correct this will result in possible injury and damage to the car or property.

• Glow fuel - Do leave the glow fuel unattended with the lid off. Fuel contains Methanol and Nitro Methane and is flammable and poisonous.

Store fuel in cool ventilated location. Refer the glow fuel label for additional precautions.

• Car Fuel tank - Never store fuel in car tank, it will ruin the engine if left in tank.





Notes:

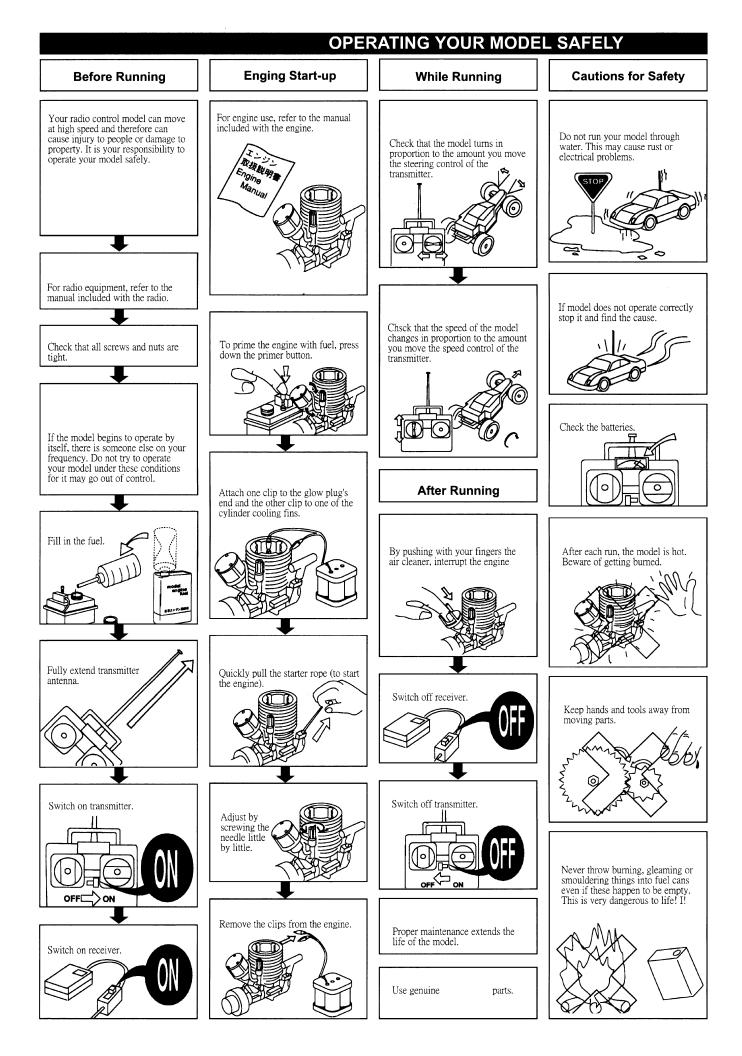
1) Always check and change radio batteries when low. Running your car with low batteries will greatly shorten the radio range. Loss of radio control will damage your car and is not covered under warranty.

2) Check linkage operation for steering and throttle before starting your car. The directional servo switches on radio may be in the wrong position and must be checked and set for proper operation.

3) Battery problems are the biggest cause of car damage, always check radio operation when running. If you feel the radio is not working correctly, shut down engine immediately and check it out!

## • TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
	Fuel line not primed	Fill fuel tank and pressurize tank by capping exhaust
ENGINEWILLNOTSTART	Glow plugwill notheat(lite)	Check glow plug battery heater or replace plug.
	Engine flooded, too much fuel	Check carb. needle setting. Do not over prime.
		Remove glow plug and poor out fuel.
-	Needle valves not setup	Check needle setting for break-in.
	Servo linkage not correct	Check linkage for correct radio neutral.
	Carb. barrel closed	Check for slight barrel gap, 1/6th
	Fuel tank empty	Check fuel level and prime fuel line/carb.
	Glow plugbad	Even if plug heats, change to a known good plug.
ENGINE STARTSAND	Master needle closed	Check master needle setting
STOPS	Engine is too hot	Check needle settings
	Low end is too lean	Check low end needle, factory set.
	Needle are not correct	Check needle settings
SLOWTHROTTLE	Fuel pressure in tank	Check pressure line to tank and lid seal.
RESPONSE	Linkage not opening	Check that throttle is fully open at full throttle on radio.
	Batteries in car are low	Turn off engine and replace car batteries.
	Batteries in car are low	Turn off engine and replace car batteries.
	Radio batteries are low	Turn of engine and replace radio batteries.
CAR ISHARD TO CONTROL	Reception from radio bad	Check antenna and batteries. Also, loose screws on
ORNOCONTROLATA		chassis can interfere with radio.
DISTANCE	Car radio is wet	Turn off engine and dry radio rec'r with air. do not run
		again until fully dry.
	Low battery in car	Replace batteries before running car.
	Low servopower	Standard servo used in this kit are only 50ioz, up
		graded servo with 70 or more will work better.
STEERINGSLOW	Battery pack is dead, quickly	A rechargable pack is recommended (5 cell 600AE)



# HYPER 7 PART NUMBER CROSSOVER

#### Part No.# Crossover (use only OFNA part numbers)

	Hyper		Retail
10010	E-1	CLUTCH SHOES, 3 PCS.	12.95
10090	E-9	CLUTCH NUT, PILOT SHAFT	8.50
10100	E-10	CLUTCH SPRINGS, 3 PCS.	4.95
19001	87001	GEAR, CROWN	32.95
19002	87002	GEAR, BEVEL	12.95
19003	87003	SHAFT, DRIVE	12.95
19004	87004	CASE, DIFF	5.95
19005	87005	GEAR, SPUR	28.95
19006	87006	SHAFT, CENTER DRIVE	16.95
19007	87007	BODY, REAR SHOCK, PAIR	24.95
19008	87008	SHAFT, REAR SHOCK, PAIR	5.95
19009	87009	SPRING, REAR SHOCK, BLACK PAIR	5.95
19010	87010	PLASTIC PARTS, SHOCK SET	7.95
19011	87011	BODY, FRONT SHOCK, PAIR	23.95
19012	87012	SHAFT, FRONT SHOCK, PAIR	5.95
19013	87013	SPRING, FRONT SHOCK, BLACK PAIR	5.95
19014	87014	PISTON, SHOCKS, 4 PCS.	7.95
19015	87015	BLADDER, SILICONE, SHOCK SET	5.95
19016	87016	BALL, STEEL 6.8mm 4 PCS.	5.95
19017	87017	REBUILD KIT, SHOCK, SET	12.95
19018	87018	BOOT, SHOCK SHAFT, SILICONE 4 PCS.	8.95
19019	87019	SHOCKS, REAR SET, PAIR	44.95
19020	87020		43.95
19021 19022	87021 87022	DRIVE CUP, CENTER 2 PCS.	8.95 9.95
19022		ARM, FRONT TOP PAIR MAIN GEAR BOX	9.95
19023	87023 87024L		9.95
19024	87024	ARM, FRONT BOTTOM PAIR R2L TOWER, FRONT SHOCK	9.95
19025	87025		49.95
19020	87020	CVA JOINTS, PAIR HUB, WHEELS 2 PCS.	10.95
19027	87028	GEAR, PINION	14.95
19028	87029	PLATE, FRONT	4.95
19029	87030	HOLDER, FRONT	5.95
19030	87031	BALL, STEEL, SHOCKS 4 PCS.	7.95
19032	87032	KNUCKLE, STEERING, ALUM. PAIR	14.95
19032	87033	SHAFT, 4mm SUSPENSION, 4 PCS.	8.95
19034	87034	SHAFT, 3mm SUSPENSION, 6 PCS.	9.95
19035	87035	C-HUB, 17DEGREE, FRONT PAIR	9.95
19036	87036	UP-RIGHT, REAR PAIR	9.95
19037	87037	SHAFT, REAR WHEELS PAIR	14.95
19038	87038	WING SUPPORT, REAR	5.95
19039	87039	ARM, REAR BOTTOM, PAIR	10.95
19040	87040	PLATE, REAR	4.95
19041	87041	TOWER, REAR SHOCK	11.95
19042	87042	TURNBUCKLES, TOP REAR ARM, PAIR	8.95
19043	87043	ARM, TOP REAR, PAIR	9.95
19043	87044	ANTI-ROLL BAR, REAR	10.95
19045	87045	SHAFT, REARARMS	12.95
19046	87046	WING MOUNTS, REAR	9.95
19040	87047	BALL, STEEL, REAR MOUNT	10.95
19048	87048	CENTER DIFF HOUSING, 4 PCS.	8.95
19040	87049	PADS, BRAKE, 4 PCS.	6.95
19049	87050	POSTS, ALUM. CENTER DIFF HOUSING, 4 PCS.	9.95
19051	87051	PLATE, ALUM. CENTER HOUSING	7.95
10001	01001		1.00

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OFNA	Hyper	Description	Retail
19053	87053	DISKS, STEEL, BRAKE	5.95
19054	87054	CAM, BRAKE, 2 PCS.	10.95
19055	87055	BALL ENDS, STEERING 8 PCS.	7.95
19056	87056	COLLAR, STEEL, STEERING, 6 PCS.	6.95
19057	87057	ARM, SERVO SAVER, 3 PCS.	4.95
19058	87058	POSTS, CENTER DIFF HOUSING, 4 PCS.	5.95
19059	87059	ARM, SERVO SAVER, 3 PCS.	9.95
19060	87060	BUSHING, 6x10mm, SERVO SAVER, 2 PCS.	3.95
19061	87061	SCREWS, M4x15mm, SERVO SAVER, 2 PCS.	3.95
19062	87062	POSTS, ALUM. SERVO SAVER, 2 PCS.	10.95
19063	87063	TORQUE ROD, FRONT AND REAR, 2 PCS.	9.95
19064	87064	BUMPER, FRONT AND REAR SET	7.95
19065	87065	BODY POSTS	2.95
19066	87066	CHASSIS MAIN, 3.2mm	62.95
19067	87067	SHAFT, CENTER SWING, 2 PCS.	12.95
19068	87068	SCREWS, FLAT TAPPING, CHASSIS, 8PC.S	3.95
19069	87069	SCREWS, M4x8mm 6 PCS. AND M4x10mm 4 PCS.	4.95
19070	87070		3.95
19071	87071	TORQUE PLATE, FRONT UPPER	8.95
19072	87072 87073	TORQUE, ROD-BALL END SET	9.95
19073		SIDE GUARDS, CHASSIS, GRAY	11.95
19074 19075	87074 87075	POST, FUELTANK	3.95 4.95
19075	87076	GUARD, FUEL TANK, GRAY TANK, 125cc	4.95
19070	87077	SPACER, ENGINE MOUNTS	8.95
19078	87078	NOT STOCKED	2.95
19079	87079	MOUNTS, ENGINE, PURPLE, ADJUSTABLE, PAIR	17.95
19080	87080	MISC. SCREW SET HARDWARE	9.95
19081	87081	TUNED PIPE	29.95
19082	87082	MOUNT, PIPE WIRE	5.95
19083	87083	BATTERY BOX, GRAY	4.95
19084	87084	RECEIVER BOX, GRAY	7.95
19085	87085	PLATE, RADIO TRAY, PURPLE	12.95
19086	87086	POSTS, RADIO TRAY, SET	4.95
19087	87087	BALL ENDS, SERVO SAVER SET	4.95
19088	87088	LINKAGE, SERVO SAVER SET	5.95
19089	87089	MOUNT, TRACK SENSOR	3.95
19090	87090	SCREWS, SET HX SCREW M5x12mm, 4 PCS.	2.95
19091	87091	THROTTLE LINKAGE SET	5.95
19092	87092	BRAKE LINKAGE, BALL END TYPE	6.95
19093	87093	WING AND ALUM. WASHERS	9.95
19094	87094	BODY AND DECAL SHEET	35.95
19095	87095	SEE PART NUMBER 81052 (GRAY)	-
19096	0.4000	CAP, SHOCKS, PLASTIC (HYPER & DOM)	5.95
19097	84022	NUT, WHEELS, PURPLE 4 PCS.	7.95
19098 19099		future DECAL, HYPER 7 SHEETS	- 7.95
19099	ד סס	HYPER 7 CHUD TO PBS CONVERSION KIT	
19100	PB-7 87073	SIDE GUARDS, CHASSIS, YELLOW	109.95 11.95
19173	87093	WING WITH WASHERS, YELLOW	9.95
19193	87093	WING WITH WASHERS, LIME	9.95
19195	87093	WING WITH WASHERS, BLUE	9.95
19196	87093	WING WITH WASHERS, RED/ORANGE	9.95
19197	87093	WING WITH WASHERS, BLACK	9.95
19232	87032-1	FRONT KING SCREW AND SLEEVE, SET	3.95
19233	87007C	CAP RING, ALUM. HARD COATED, 4PCS.	19.95
19234	87777C	ENGINE MOUNT CNC ALUM.	17.95
19235	87230	CAP NUT, WHEELS, CNC 17mm, BLACK	11.95
19236	87230	CAP NUT, WHEELS, CNC 17mm, PURPLE	11.95
19237	87230	CAP NUT, WHEELS, CNC 17mm, BLUE	11.95
19238	87230	CAP NUT, WHEELS, CNC 17mm, HARD COAT	11.95

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OFNA	Hyper	Description	Retail
19240	87387	2-SPEED TRANS, HYPER 7, UNIT	134.95
19300	87313L	CHASSIS, 7075 4mm W/DOG BONE(LONG)	99.95
19301	87301	C-HUB, 22DEGREE, PAIR	9.95
19302	87302	ARM, 22DEGREE HUB ONLY, PAIR	5.95
19303	87303	C-HUB, 19DEGREE, PAIR	9.95
19304	87304	KNUCKLE, STEERING, CNC ALUM. PAIR	64.95
19305	87305	HOLDER, FRONT, ALUM. BOTTOM	19.95
19306	87306	HOLDER, FRONT ALUM. TOP	19.95
19307	87307	HOLDER, REAR ALUM. BOTTOM	19.95
19308	87308	UP-RIGHT, ALUM. PAIR	59.95
19309	87309	TORQUE BRACE, FRONT, ALUM. PURPLE (PRO)	24.95
19310	87310		26.95
19311 19312	87311	POSTS, RADIO TRAY AND WING SUPPORT	17.95 9.95
19312	87312	SCREWS AND WASHERS 4mm, PURPLE 4 PCS.	9.95 84.95
19313	87313 87314	CHASSIS, 7075 4mm TURNBUCKLES, SS TOP REAR ARM, PAIR	9.95
19314	87315	TURNBUCKLES, SS TOF REAR ARM, PAIR TURNBUCKLES, SS STEERING LINKAGE, 3 PCS.	9.95 7.95
19316	87316	SCREWS, ALUM. FOR MAIN GEAR BOX	7.95
19317	87317	BALL MOUNTS, REAR BOTTOM ARM	- 9.95
19318	87318	GRAPHITE SHOCK TOWER, FRONT	24.95
19319	87319	GRAPHITE SHOCK TOWER, REAR	29.95
19320	87320	GRAPHITE RADIO TRAY	24.95
19321	87321	GRAPHITE TRACK SENSOR	7.95
19322	87322	GRAPHITE DIFF HOUSING PLATE	14.95
19323	87323	GRAPHITE FRONT UPPER PLATE	18.95
19324	87324	BATTERY COVER, ALUM.	-
19325	87325	SEE PART NUMBER 10599 (FRONT)	-
19326	87326	SEE PART NUMBER 10600 (CENTER)	-
19327	87327	CVAJOINT, CENTER, PAIR	49.95
19328	87328	CVA JOINT, REAR	49.95
19329	87329	ANTI-ROLL BAR, 2.4mm	10.95
19330	87329-1	ANTI-ROLL BAR, 2.6mm	10.95
19331	87330	TURNBUCKLE, FRONT TOP ARM, STEEL, PAIR	9.95
19332	87331	SPRING SET, MED, PURPLE	14.95
19333	87332	FLYWHEEL, DUAL BRAKE OPTION, PURPLE	21.95
19333	87333	FLYWHEEL, DUAL BRAKE OPTION, PURPLE	21.95
19334	87341	7075 CNC TOWER, FRONT SHOCKS	39.95
19335	87040C	7075 CNC TOWER, REAR SHOCKS	47.95
19336	87345	CNC BRAKE DISC SET	49.95
19337	87029S	7075 CNC FRONT PLATE SUPPORT	7.95
19338	87040C	7075 CNC REAR PLATE SUPPORT	7.95
19339	87079N	7075 CNC ENGINE MOUNT, HYPER 7	19.95
19340	87349	7075 CNC CENTER DOG BONES	15.95
19341	87350	7075 CNC REAR DOG BONES	15.95
19342	87344G7-47T	GEAR, SPUR, SPIDER DIFF, 47T, HYPER 7	29.95
19343	87343	DIFF, SPIDER 8 GEAR DIFF, FRONT or REAR	114.95
19344	87344	DIFF, SPIDER 8 GEAR DIFF, CENTER	114.95
19345	87344G8-48T	GEAR, SPUR, SPIDER DIFF, 487, HYPER 7	29.95
19347	87354 87348	UNIVERSAL JOINTS, FRT/REAR 3RINGS	49.95 49.95
19348 19349	87357-47T	UNIVERSAL JOINTS, FRONT PBS GEAR, SPUR, 47T, HYPER 7	28.95
19349	87352 BLACK	TUBE, S AIR FILTER, HYPER 7 CHUB & PBS	8.95
19350	87351	LINKAGE, SPECIAL BALL ROD KITS	6.95
19352	84055 12T	CLTUCH BELL, 12T W/BEARING (SHORT)	19.95
19353	84055 13T	CLTUCH BELL, 13T W/BEARING (SHORT)	19.95
19354	84055 14T	CLTUCH BELL, 14T W/BEARING (SHORT)	19.95
19355	84055 15T	CLTUCH BELL, 15T W/BEARING (SHORT)	19.95
19356	84055 16T	CLTUCH BELL, 16T W/BEARING (SHORT)	19.95
19357	84055 17T	CLTUCH BELL, 17T W/BEARING (SHORT)	19.95
19358		FUTURE	-
		CNC BALL WITH COLLAR, ANTI-ROLL BAR 4PCS	

#### Part No.# Crossover (use only OFNA part numbers)

OFNA	Hyper	Description	<u>Retail</u>
19361	87016A	CNC BALLS 6.8mm, 4PCS	6.95
19362	87055A	CNC BALL WITH COLLAR, STEERING 4PCS	7.95
19363	87031A	CNC BALL STUD, SHOCK MOUNTS, 4PCS	8.95
19364	87043A	CNC BALL WITH HEX 8mm, REAR ARM MOUNT, 4PCS	6.95
19365	87022A	CNC BALL 7.8mm, FRONT ARM TOP 4PCS	6.95
19366	87072A	CNC BALL WITH BASE 8mm, 4PCS	7.95
19367	87059A	CNC SERVO SAVERAXLES, 2PCS	10.95
19368	87054A	CNC BRAKE CAM SET	10.95
19393		DECAL WINDOWS, HYPER BODIES	49.95
19394		BODY, HYPER, BLUE	49.95
19395		BODY, HYPER, YELLOW	49.95
19396		BODY, HYPER, RED	49.95
19397		BODY, HYPER, ORANGE	49.95
19398	87490	BODY, FIRE, WHITE BLUE	49.95
19399	87490	BODY, FIRE, WHITE PURPLE	49.95
19400	87490	BODY, FIRE, WHITE BLACK	49.95
19401	87490	BODY, FIRE, LIME WHITE	49.95
19402	87490	BODY, FIRE, BLACK WHITE PCR	49.95
19440	87343A	GEARS, BEVEL, SPIDER DIFF SET	29.95
19441	87343C	CASE COVER & MISC. PARTS, SPIDER DIFF	29.95
19442	87344G	GEAR, SPUR, 46T SPIDER DIFF	29.95
19442	87344G	GEAR, CROWN, 43T SPIDER DIFF	29.95
19443	87343S	SCREWS, 2.6x21.5 SPIDER DIFF	6.95
19444	87039L	,	9.95
19632	87349U-101MM	UNIVERSAL, CENTER, HYPER7 SHORT 101mm PAIR	39.95
19633	87349LU-105MM	UNIVERSAL, CENTER, HYPER 7 LONG 105mm PAIR	39.95
19634	87329-3MM	ANTI-ROLL BAR, 3MM HYPER 7	4.95
19635	87034P	DUST SHIELD, PLASTIC, 17DEG CHUB	1.95
19700	19700	PCR, 7075 CNC PLATE, FRONT LOWER ARM PINS, HYPER	24.95
19701	19701	PCR, 7075 CNC FRONT SHOCK TOWER, HYPER CHUB	49.95
19702	19702	PCR, 7075 CNC FRONT SHOCK TOWER, HYPER PBS	49.95
19703	19703	PCR, 7075 CNC PLATE, STEERING LINK, HYPER	38.95
19704	19704	PCR, 7075 CNC FRONT TOP PLATE, HYPER CHUB	42.95
19705	19705	PCR, 7075 CNC FRONT TOP PLATE, HYPER PBS	49.95
19706	19706	PCR, 7075 CNC FRONT BRACE STIFFENER, HYPER CHUB	49.95
19707	19707	PCR, 7075 CNC FRONT BRACE STIFFENER, HYPER PBS	49.95
19708	19708	PCR, 7075 CNC SERVO TRAY, HYPER	45.95
19709	19709	PCR, 7075 CNC CENTER TOP PLATE, HYPER	36.95
19710	19710	PCR, 7075 CNC REAR BRACE STIFFENER, HYPER	49.95
19711	19711	PCR, 7075 CNC REAR STIIFENER MOUNT, HYPER	47.95
19712	19712	PCR, 7075 CNC REAR SHOCK TOWER, HYPER	53.95
19713	19713	PCR, 7075 CNC REAR TOE-IN PLATE, 2.0 DEGREE (NO LINE)	20.95
19714	19714	PCR, 7075 CNC REAR TOE-IN PLATE, 2.5 DEGREE (TWO LINE)	20.95
19715	19715	PCR, 7075 CNC REAR TOE-IN PLATE, 3.0 DEGREE (THREE LINE)	20.95
19716	87355	PCR BRAKE PADS WITH SHOES, PAIR	19.95
19717	19717	PCR ENGINE MOUNTS, PICCO & N.ROSSI	36.95
19718	19718	PCR FRONT STEERING SPINDLES, PAIR	89.95
19719	19719	PCR REAR UP-RIGHTS ODEG. PAIR	89.95
19720	19720	PCR REAR UP-RIGHTS 0.5DEG. PAIR	89.95
19790		PCR LAYDOWN SERVOS CONVERSION KIT	29.95
19791	HB-TQ-04	YANNICK TQ CONVERSION KIT	229.95
19796		PCR CLUTCH SHOES, PRE-TRIMED SET	13.95
19799	CL-2703-2	PCR, 1.0 COMP SPRING, BLACK, CLUTCH 3 PCS.	4.95
19925	87025 BLACK	FRONT, TOWER, SHOCK, BLACK	9.95
19926	87026A	CVA AXLES, 8mm, CVA REBUILD, HYPER 7	19.95
19927		CVAMISC PARTS, CVA REBUILD, HYPER 7	6.95
19927	87032-1	KINGPIN SCREW AND BUSHING SET, HYPER CHUB	4.95
19932	87039S	REAR, LOWER ARM, R2 (NEW)	4.95
19939	87041 BLACK	REAR, LOWER ARM, RZ (NEW) REAR, TOWER, SHOCK, BLACK	9.95
19941			9.95 7.95
19999		MANUALS, HYPER 7 RTR & PRO & PBS	1.95

# BLANK