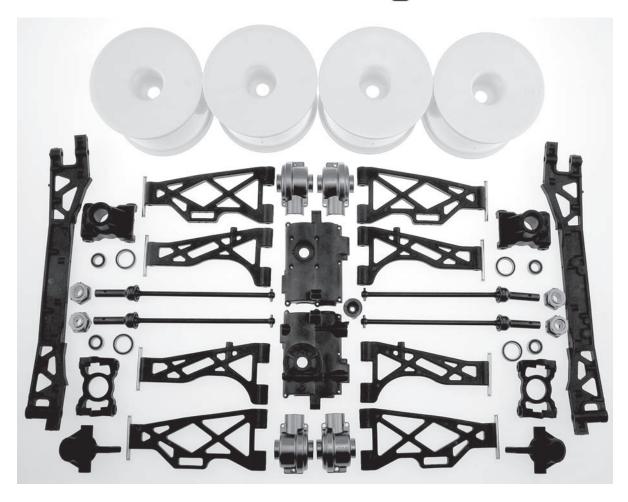
LST Performance Update Kit



This performance update kit includes the most important revised and new parts developed for the LST2 that offer both increased durability and performance. This guide includes excerpts from the LST2 owners manual for your reference. Although you can install these parts in steps at different times we have found that taking the time to disassemble your LST and perform routine maintenance while changing out these parts yield the best results. If you wish to update your LST in steps we highly recommend that you start by installing the aluminum diff cases and servicing the diff when you change out the arms, carriers and CV Driveshafts. The transmission case and Hi/Low selector and the side rails/inner gear cover, although important, can be done at a later time. You can use any of the popular "40/420" series tires on the wheels included (Team Losi will have adaptors for the older 14mm hex wheels soon). Have fun tearing up the terrain with your beefed up LST.



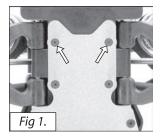
The LST Performance Update kit includes aluminum diff cases. While installing the diff cases, it is suggested that the differentials be serviced at the same time. Please follow the directions below replacing the plastic cases with the aluminum cases provided. NOTE: Depending on how much run time you have on your LST, you may want to install new gears (LOSB3538).

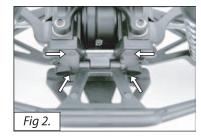
Changing and Servicing the Differentials

The differentials should be serviced periodically. Be sure to clean and inspect all of the gears and replace if severely worn. Always use plenty of high-quality grease (like Team Losi LOSA3066) on all gears. **NOTE:** These can also be made into racing type viscous diffs as noted below. Always service one diff at a time and *pay close attention to install the housing with the "TOP" marking up so it can be seen looking down on the truck.*

Removing the diffs

- Remove the two screws in the bottom at the extreme end of the chassis (fig1)
- Remove the four screws in the bulkhead allowing the bumper/skidplates and pin mounts to be removed (fig 2).
- Remove the diff retainers and slide the diff out (fig 3). NOTE: On the front end only you will have to remove the lower
 front shock attachment screws and swing the shocks up and out of the way. On the rear end you will need to "pop" off the
 rear camber links.

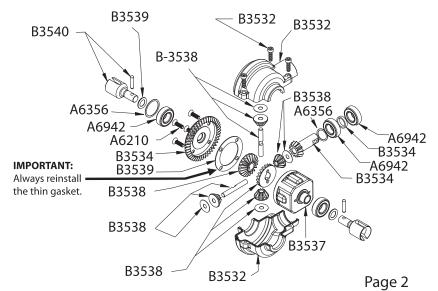






Diff Service

- Remove the three 5/64" cap head screws and the top of the differential housing, then the diff.
- Remove the four 5/64" flat head screws from the ring gear allowing it to be removed.
- Inspect the ring and pinion gears for wear replace if necessary.
- Remove the cross shafts, bevel gears, and shims for the carrier.
- Clean and inspect all parts replace as needed.
- Check all ball bearings. Clean or replace as necessary.
- Remove pins from outdrives. Remove outdrives, regrease and reinstall.
- Lube all shafts and gears with LOSA3066 assembly grease and reassemble.
- Load cross shafts with gears into the carrier with extra grease. Apply the rubber gasket to the carrier and reinstall ring gear.
- Lube ring and pinion with grease and reassemble diff into diff housing.
- Reinstall into chassis with "TOP" on housing facing up.





For Viscous Differential

Instead of grease you can use Silicone fluid in the differential for a limited slip feel as desired for racing. Simply fill the diff up to the top of the gears before replacing the ring gear. (Be sure to reinstall the rubber gasket). You may have to replace the o-rings on the outdrives at the same time you change to this type of differential if the old ones are worn. Popular silicone fluids for monster trucks are 25,000 and 50,000cs and are available at your local hobby dealer.

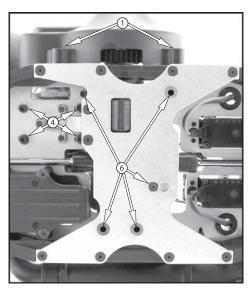
NOTE: Install the revised Hi/Lo selector and transmission cases between step \odot and \odot following all steps thru \odot .

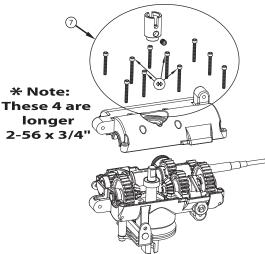
Servicing the Transmission

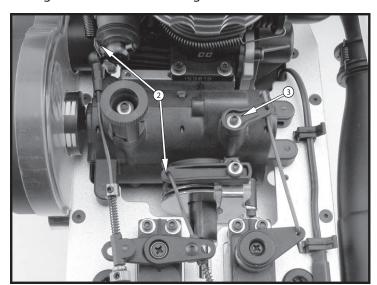
The Transmission should also be cleaned and serviced periodically. All gears and shafts should be closely inspected for wear and replaced if necessary. Always use a high quality grease or lubricant to prevent premature wear and/or failure.

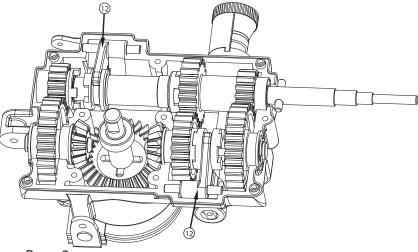
Removing the transmission

- ① Remove the gear cover.
- ② Remove the throttle linkage from the carburetor and the brake linkage from the servo arm.
- ③ Remove the Forward/Reverse arm from the transmission.
- 4 Loosen the four motor mount screws (bottom of the chassis) and slide the motor back.
- © Remove 2-Speed Spur Gears and back gear cover.
- Remove the five transmission mounting screws and lift the transmission out.
- ② Remove the outdrive and ten 5/64 cap head screws. Remove the transmission case half.
- ® Regrease the gears and shafts, inspecting each for wear.
- (ii) Wipe out the inside of the gear case, removing any debris, old grease and foreign matter.
- ① Check all ball bearings for free movement cleaning or replacing as necessary.
- ① Check for wear on shifting forks and replace as needed NOTE: These can wear more than the gears.
- ¹³ Reinstall gears on the shafts lubing with LOSA3066 Team Losi Assembly Grease.
- (9) Reassemble the transmission lubricating liberally with LOSA3066 or similar hi-grade grease.
- (15) Make sure the setscrews in the outdrive cups are tightened a thread locking compound is highly suggested.
- (6) Install the transmission in the chassis, reset the gear mesh by using a small piece of paper between the pinion and spur gears, applying pressure while retightening the engine. Reconnect all linkages and connections as necessary.

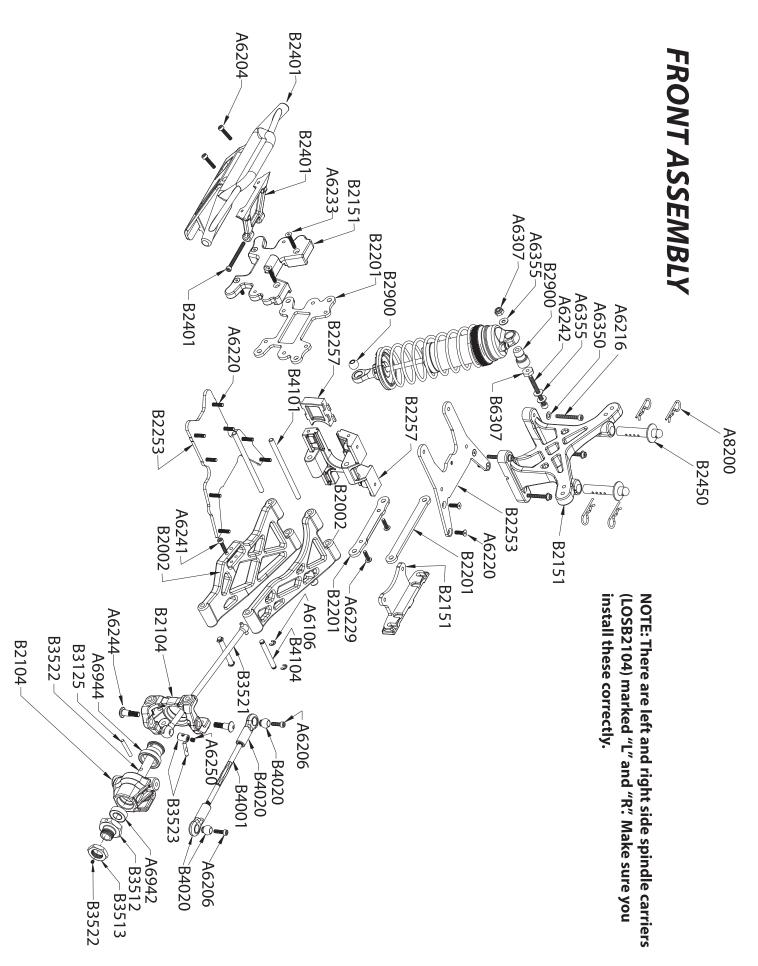




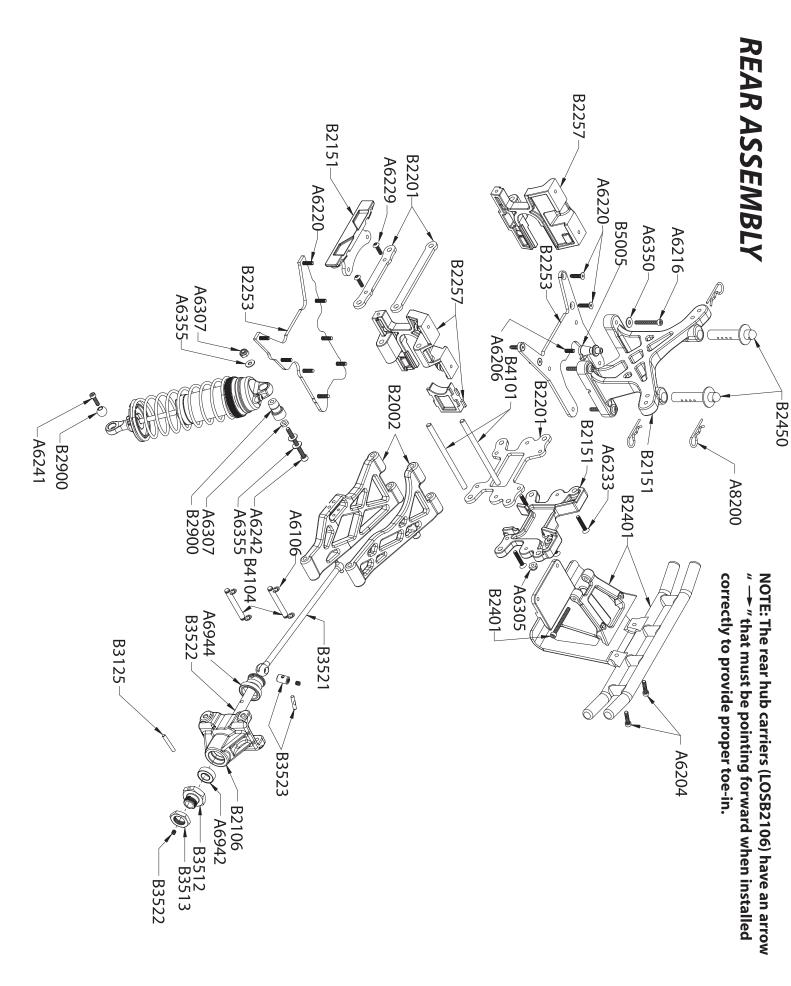




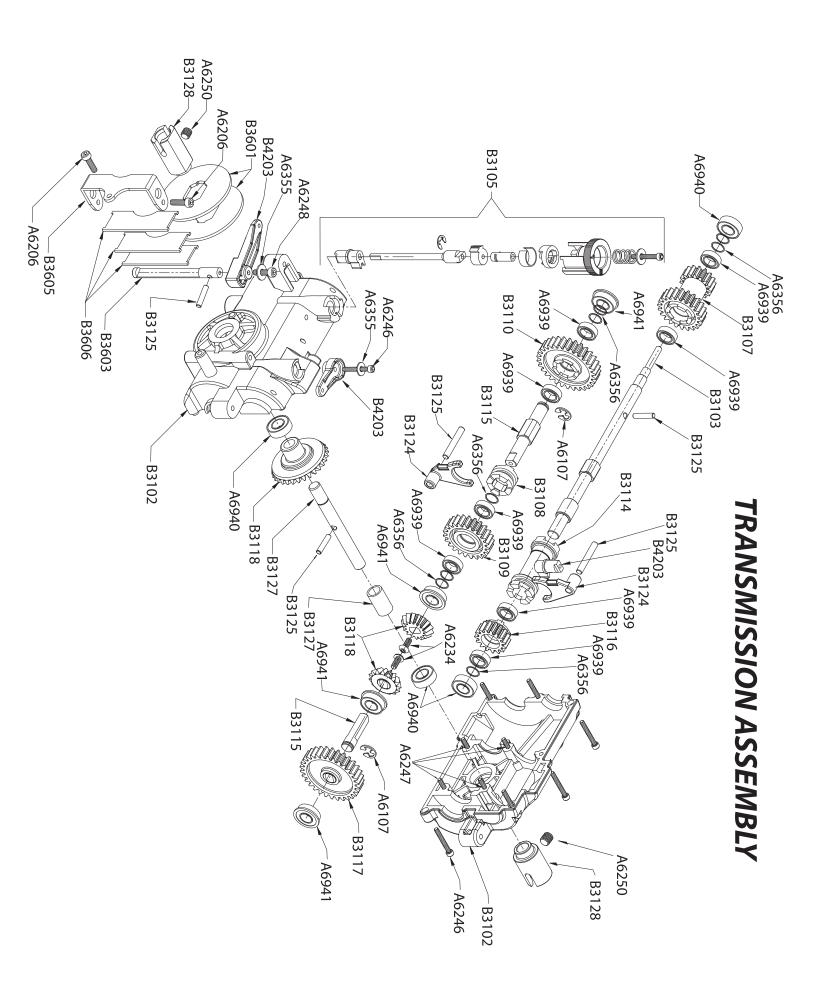




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LST2 Parts List

SUSPE	INSION PARTS		LOSB3513 Wheel Nuts - Blue for 20mm Hex (LST2)	
	P. F/R Suspension Arms (pr)(LST2)	\$10.00	LOSB3520 F/R Super-Duty Drive CV Shaft (pr)(LST2)	
	Steering Bell Cranks, Shafts, & Chassis Braces (LS		LOSB3521 F/R Super-Duty Drive CV Shaft Only(LST2)	
	Front Spindles & Carriers (LST2)		LOSB3522 F/R Super-Duty CV Axle (LST2)	
	Rear Hub Carriers (LST2)		LOSB3523 F/R Super-Duty CV Rebuild Set (pr)(LST2)	
	F/R Shock Tower & Pin Mounts (LST/2)		LOSB3532 Aluminum Diff Cases Blue (LST/2)	
LOSB2201	F/R Suspension Pin Brace Set (AL) (LST/2)	\$7.00	LOSB3534 F/R Diff Ring & Pinion (LST/2)	
	, , , ,	,	LOSB3537 F/R Diff Housing (LST/2)	
Chassi	io Dorto		LOSB3538 F/R Diff Bevel Gear Set (LST/2)	\$7.00
	s Parts		LSOB3539 F/R Diff Seal Set (2) (LST/2)	\$3.50
	Main Chassis Plate (LST/2)		LOSB3540 F/R Diff Outdrive Set (LST/2)	
	Chassis Skid Plate (LST/2)		LOSB3541 F/R Diff Drive Yoke (LST/2)	\$5.00
	Top & Brace Chassis Plates (LST/2)		LOSB3545 Center CV Driveshaft (LST/2)	\$10.99
	Motor Plate/Chassis Brace (LST/2)		LOSB3601 Brake Disks Steel(2)(LST/2)	
LOSB2256	Chassis Side Rails (LST/2)	\$8.50	LOSB3603 Brake Cam (LST/2)	\$3.00
	' R&L Bulkheads & Diff Retainer (LST/2)		LOSB3606 Hi-Performance Brake Pad Set (2)(LST/2)	\$4.50
	Radio Box & Hardware (LST/2)			
	Battery Mount Set (LST/2)		Hardware	
	F/R Bumpers & Braces (LST/2)			£4.50
LOSB2450	F/R Body Mount Posts & Hardware (LST/2)	\$3.50	LOSA3045 Gear Cover Access Plug	
			LOSA4002 Antenna Tube & Cap	
Shocks	2		LOSA4003 Antenna Caps	
	Shock Body (Blue) Threaded (LST2)	¢11 00	LOSA6100 1/8" E-Clips	
	Shock Nut & Cap Molded (4) (LST2)		LOSA6103 3/32" E-Clips	
	Shock Shaft (LST/2)		LOSA6106 4mm E-Clips (12)	
	Shock Cartridges & Seals (2) (LST/2)		LOSA6107 6mm E-Clips (12)	\$2.00
	Shock Cart. & Cap O-Rings (8) (LST/2)		LOSA6204 4-40 x 1/2" Caphead Screw (10)	
	Shock Hardware-All Plastics (LST/2)		LOSA6205 4-40 x 3/4" Caphead Screw (10)	
	Shock Spring (Silver)(LST/2)(pr)		LOSA6206 4-40 x 3/8" Caphead Screw (10)	
LO362930	Shock Spring (Silver)(LS1/2)(pr)	\$0.50	LOSA6210 4-40 x 3/8" Flathead Screw (10)	
_			LOSA6216 4-40 x 7/8" Caphead Screw (10)	
Transm	nission		LOSA6220 4-40 x 1/2" Flathead Screw (10)	
LOSB3102	? Transmission Case Set (LST/2)	\$10.99	LOSA6221 4-40 x 5/8" Caphead Screw (6)	
LOSB3103	Main Input Shaft (LST/2)	\$5.50	LOSA6227 4-40 Hardened Set Screw (10)	
LOSB3105	5 Hi/Low Selector Mechanism (LST2)	\$8.50	LOSA6229 4-40 x 3/8" Buttonhead Screw (10)	
LOSB3106	Hi/Low Selector Mechanism (LST)	\$7.50	LOSA6232 2-56 x 1/4" Caphead Screw (10)	
LOSB3107	' Hi/Low Compound Gear (LST/2)	\$14.99	LOSA6233 4-40 x 5/8" Flathead Screw (10)	
LOSB3108	Hi/Low Selector Drive Dog (LST/2)	\$18.99	LOSA6234 4-40 x 1/4" Buttonhead Screw (10)	
LOSB3109	Hi Range Gear (LST/2)	\$9.50	LOSA6240 5-40 x 1/2" Caphead Screw (8)	
LOSB3110	Low Range Gear (LST/2)	\$9.50	LOSA6241 5-40 x 5/8" Caphead Screw (8)	
LOSB3114	FWD/REV Selector (LST/2)	\$20.99	LOSA6242 5-40 x 1 1/4" Caphead Screw (4)	
LOSB3115	FWD/REV Shaft Set (LST/2)	\$6.50	LOSA6244 Kingpin Screw (LST) (8)	
LOSB3116	Reverse Pinion (LST/2)	\$9.00	LOSA6245 4-40 x 5/16" Caphead Screw (10)	
LOSB3117	Reverse Gear (LST/2)	\$8.00	LOSA6246 2-56 x 5/8" Caphead Screw (8)	\$3.00
LOSB3118	FWD/REV Bevel Gear Set (LST/2)	\$8.00	LOSA6247 2-56 x 3/4" Caphead Screw	
	Shift Forks (LST/2)		LOSA6250 4mm &5mm Set Screws (4 ea.)	
LOSB3125	Trans Drive & Selector Pin Set (LST/2)	\$2.00	LOSA6252 3 x 10mm Button & Flathead Machine Screws	
LOSB3127	Trans Output Shaft & Spacer (LST/2)	\$3.50	LOSA6307 5-40 Nuts Lock & Hex (4 ea.)	
LOSB3128	Trans Outdrive Cup Set (LST/2)	\$9.00	LOSA6305 4-40 Steel Lock Nuts	\$3.50
LOSB3190	Gear Cover (2-Speed)(LST/2)	\$4.50	LOSA6321 5mm Locknuts R & L Thread (4 ea.)	
	Inside Gear Cover (LST2)		LOSA6350 #4 & 1/8" Hardened Washers	
LOSB4203	FWD/REV & Brake Arms (LST/2)	\$3.00	LOSA6355 2.2 & 3.6mm Washers (6 ea.)	
	. ,		LOSA6356 5 & 6mm Shim Set	
Clutch	Darte		LOSA6907 5 x 8mm Shielded Ball Bearing	
		210.00	LOSA6937 5 x 10mm Shielded Ball Bearings (2)	
LOSB3301	Flywheel, Collet, & Nut (LST/2)	\$10.99	LOSA6939 6 x 10mm Shielded Ball Bearings (4)	
	Clutch Spring Set (3) Silver (LST/2)		LOSA6940 6 x 12mm Shielded Ball Bearings (4)	\$8.00
	3 Aluminum Clutch Shoe & Spring Set (LST/2)		LOSA6941 6 x 12mm Flanged Ball Bearings (4)	
LOSB3341	18T/25T One-Piece Clutch Bell Steel (LST/2)	\$19.99	LOSA6942 8 x 16mm Sealed Ball Bearings (4)	\$8.00
			LOSA6944 15 x 21 x 4mm Shielded Ball Bearings	
2-Spee	d & Slipper Parts		LOSA8200 Body Clips	
	2-Speed Cam & Bushings (LST/2)	\$17.99	LOSB4001 93mm Turnbuckle Set w/Ends (2)(LST)	
	2-Speed Clutch Shoes & Hardware (LST/2)		LOSB4104 Pivot Pin Set (4 ea.)(LST2)	
	2-Speed Low Gear Hub w/One-Way (LST/2)		LOSB4020 Rod Ends & Pivot Balls (8)(LST)	
	2-Speed Hi-Gear Hub w/Bearing (LST/2)		LOSB4104 Pivot Pin Set (4 ea.)(LST2)	
	70T Spur Gear (1st)(LST) "Stock" (LST/2)		LOSB4201 Steering Hardware Set (LST/2)	
	63T Spur Gear (2nd)(LST) "Stock" (LST/2)		LOSB4204 Throttle, Brake, Reverse Linkage Set (LST2)	\$6.00
	Slipper Cage (LST/2)		LOSB4250 Servo Saver & Mount Set (LST/2)	
	Slipper Pads & Plates (LST/2)		LOSB4602 Tool Set (LST2)	
	2-Speed/Slipper Thrust Bearing & Hardware (LST/2		LOSB4603 4-Way Wrench (Steel)	\$6.00
Drive T	rain Parts		Motor Accessories	
		£40.00	LOSB5002 High Capacity Fuel Tank (LST/2)	\$15.00
LUSB3512	2 20mm Wheel Hex Set - Blue (4) (LST2 Only)	\$16.99	LOSB5003 Fuel Tank Lid & Spring (LST/2)	

LST2 Parts List

LOCREGOE Fuel Took Marinto & Hardware (LOTIO)	#0.75	The security of the	
LOSB5005 Fuel Tank Mounts & Hardware (LST/2)		Transmission _	
LOSB5006 Fuel Filter Hi Volume Aluminum (LST/2) LOSB5020 Air Cleaner w/Oil (LST/2)		LOSB3130 Fwd. Only Transmission Conversion Kit (LST/2)	
LOSB5021 Air Cleaner Foam Set (LST/2)		LOSB3132 Fwd. Only Input Shaft Set (LST/2)	
LOSB5030 Engine Mounts (LST/2)		LOSB3133 Fwd. Only Input Gear 22t (LST/2)	
LOSB5050 Exhaust Header (RE) & Springs (LST/2)	\$10.99 \$17.00	LOSB3135 Fwd. Only Counter Shaft Set (LST/2)	
LOSB5051 Exhaust Header Seals & Springs (2)(LST/2)		LOSB3136 Fwd. Only Counter Gear 23T TiNi (LST/2)	
LOSB5054 Exhaust Pipe Seals & Springs (LST/2)		LOSB3138 Fwd. Only Trans Plug Set (LST/2)	\$3.50
LOSB5056 Tuned Pipe Mount & Hardware (LST/2)		Clutch Parts	
LOSB5059 "HT" Tuned Pipe (LST2)		LOSB3340 Clutch Bell Only 2-Speed (Threaded) (LST/2)	\$10.00
LOSB5100 Spin-Start Hand Held Starter (LST/2)		LOSB3350 18T Steel Pinion (LST/2)	
LOSB5102 Spin-Start Motor & Battery Leads (LST/2)		LOSB3351 18T Steel Pinion w/ Ti-Nitride (LST/2)	
LOSB5103 Spin-Start Mechanics (LST/2)		LOSB3356 25T Steel Pinion (LST/2)	
LOSB5104 Spin-Start Hex Starter Shaft (LST/2)	\$5.00	LOSB3357 25T Steel Pinion w/Ti-Nitride (LST/2)	\$14.99
LOSB5105 Spin-Start Hand Strap & Pin (LST/2)	\$5.00		
LOSB5106 Spin-Start Case & Switch Set (LST/2)		2-Speed & Slipper Parts	
LOSB5108 Spin-Start Drive Gear (Metal) (LST/2)		LOSB3428 2-Speed Steel/Ti-Nitride Gear Conversion (LST/2)	\$79.99
LOSB5111 Spin-Start .21 - 427 Backplate (LST/2)		LOSB3429 70T Steel Spur w/Ti-Nitride (1st) (LST/2)	
LOSA9315 Fuel Tubing (24")	\$2.50	LOSB3430 63T Steel Spur w/Ti-Nitride (2nd) (LST/2)	\$25.99
		LOSB3431 Drive Rings for 70T Steel Spur (2)	\$2.00
Wheels & Tires			
LOSB7010 420 Series Dish Wheels White (pr)(LST2)	\$12.00	Drivetrain Parts	
LOSB7202 420 "ATX" Tires w/Foam (pr)(LST2)		LOSB3531 Aluminum Diff Cases - Polished (LST/2)	. \$10.00
LOSB7221 Foam Tires Inserts Firm (pr)(LST/2)			
LOSB7402 420 Series Wheels (White) w/"ATX" Tires (pr)(LST2)	\$44.99	Hardware	
			ድር ርር
Bodies & Accessories		LOSB4021 Pivot Balls - Hard Anodized Aluminum (4) (LST/2) LOSB4102 Titanium Nitride Inner Hinge Pins (2) (LST/2)	
LOSB8011 LST2 Body Painted Grey w/Stickers & Masks	\$49.99	LOSB4102 Titanium Nitride Outer Hinge Pins (2) (LST/2)LOSB4105 Titanium Nitride Outer Hinge Pins (2) (LST/2)	
LOSB8202 LST2 Sticker Sheet		EOGB4103 Titaliiaiii Nitilde Outei Filinge Filins (2) (EO1/2)	φο.υυ
		Mater Assessaries	
ODTION DADTO		Motor Accessories	0.40.00
OPTION PARTS		LOSB5031 Finned Engine Mounts - Hard Ano. Aluminum (LST/2)	
		LOSB5055 Tuned Exhaust Pipe (LST)	
		LOSB5057 Tuned Pipe & Header - Polished (LST/2)	
Suspension Parts		LOSB5058 Tuned Pipe & Header - Hard Anodized (LST/2)LOSB5060 "HT" Tuned Pipe & Header - Polished (LST/2)	
LOSB2221 Sway Bar Kit (LST/2)	\$14.99	LOSB5060 'TH' Tuned Pipe & Header - Folished (LST/2) LOSB5061 "HT" Tuned Pipe & Header - Hard Anodized (LST/2)	
		2002001 111 141104 1 190 4 1104401 11414 7 11041204 (20172)	φτ τ.σσ
Chassis Parts		Wheels & Tires	
LOSB2260 Heavy Duty Chassis Plate - Hard Ano. (LST/2)		LOSB7011 420 Series Dish Wheel - Yellow (LST2)	\$12.00
LOSB2261 Heavy Duty Chassis Skid Plate - Hard Ano. (LST/2)		LOSB7221 Foam Tire Inserts Firm(pr) (LST/2)	
LOSB2262 Heavy Duty Chassis Top Plate - Hard Ano. (LST/2)		LOSB7222 Foam Inserts - 2 Stage (LST/2)	
LOSB2263 Heavy Duty Front Bottom Plate - Hard Ano. (LST/2)		2005/222 / Odiff filosito 2 Otago (201/2)	φ ι Σ.σσ
LOSB2264 Heavy Duty Rear Bottom Plate - Hard Ano. (LST/2)		Dady 9 Assessaries	
LOSB2270 HiPerf Grahite Chassis Plate - (LST/2)		Body & Accessories	0.40.00
LOSB2271 Hi-Perf Aluminum Skid Plate - Hard Ano. (LST/2) LOSB2272 Hi-Perf Graphite Top Plate (LST/2)		LOSB8001 LST Body Painted Blue w/Stickers	
LOSB2272 Hi-Peri Grapfille Top Plate (LST/2)LOSB2273 Hi-Peri Alum. Front Bottom Plate - Hard Ano. (LST/2)		LOSB8002 LST Body Painted Red w/Stickers LOSB8003 LST Body Clear w/Sticker & Masks	
LOSB2274 Hi-Perf Alum. Rear Bottom Plate - Hard Ano. (LST/2)		LOSB8005 LST "Racer" Clear Body w/Stickers & Masks	
LOSB2451 Extra Long Body Mounts (LST/2)		LOSB8012 LST2 Body Painted Red w/Stickers	
EGGBZ-FOT Extra Long Body Modrito (20172)	φ4.00	LOSB8014 LST2 Body Clear w/Stickers	
Chaoka		LOSB8201 LST Sticker Sheet	
Shocks	£44.00		
LOSB2801 Shock Body - Blue (LST/2) LOSB2802 Shock Cap - Blue (LST/2)		Receiver Pack	
LOSB2803 Shock Body - Red (LST/2)		LOSB9950 5 Cell 6V 1100 mAh Ni-MH Receiver Pack (LST/2)	¢21.00
LOSB2804 Shock Cap - Red (LST/2)		LOGD9930 3 Cell OV 1100 IIIAH NI-WIT Necelvel Fack (LS1/2)	φυ 1.99
LOSB2805 Shock Body - Gold (LST/2)		8.81	
LOSB2806 Shock Cap - Gold (LST/2)		Misc.	
LOSB2807 Shock Body & Cap Set - Red (4) (LST/2)		DYN1432 5 Cell Ni-MH (flat) Receiver Pack w/Charger	\$39.99
LOSB2808 Shock Body & Cap Set - Gold (4) (LST/2)	\$68.99		
LOSB2811 Threaded Shock Body - Hard Anodized (LST/2)			
LOSB2813 Shock Adjuster Nut - Blue Aluminum (LST/2)	\$6.00		
LOSB2814 Hard Ano. Threaded Shock Body & Adj. Set (4) (LST/2	,		
LOSB2841 Titanium Nitride Shock Shaft (LST/2)			
LOSB2879 Assembled Threaded Shock w/Spring (Blue) (LST2)			
LOSB2901 Shock Pivot Balls - Hard Ano. Aluminum (4) (LST/2)			
LOSB2949 Shock Springs - White 4.0 lb Rate (pr) (LST/2)			
LOSB2951 Shock Springs - Black 6.0 lb Rate (pr) (LST/2)			
LOSB2952 Shock Springs - Yellow 7.4 lb Rate (pr) (LST/2)	⊅6.5U		