OPERATOR'S MANUAL

SNAPPER®

Model No. 130.288370



LT-125 Series Hydro Tractor

Mfg. No.	Description
2690826	LT23420, 23HP & 42" Mower Deck

1737502
Revision -
Rev. Date 02/2009

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Operating Safety

Congratulations on purchasing a superior-quality piece of lawn and garden equipment. Our products are designed and manufactured to meet or exceed all industry standards for safety.

Power equipment is only as safe as the operator. If it is misused, or not properly maintained, it can be dangerous! Remember, you are responsible for your safety and that of those around you.

Use common sense, and think through what you are doing. If you are not sure that the task you are about to perform can be safely done with the equipment you have chosen, ask a professional: contact your local authorized dealer.

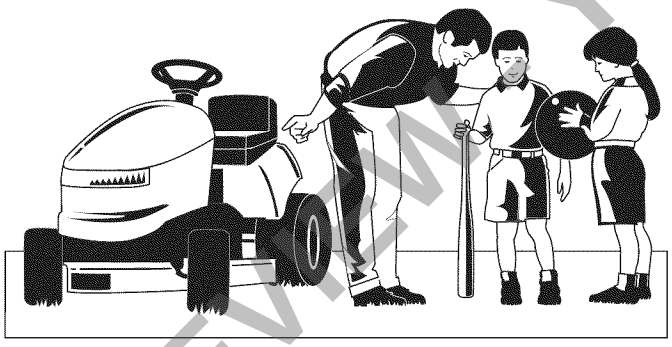
Read the Manual

The operator's manual contains important safety information you need to be aware of BEFORE you operate your unit as well as DURING operation.

Safe operating techniques, an explanation of the product's features and controls, and maintenance information is included to help you get the most out of your equipment investment.

Be sure to completely read the Safety Rules and Information found on the following pages. Also completely read the Operation section.





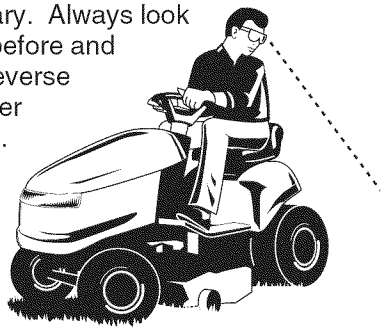
Children

Tragic accidents can occur with children. Do not allow them anywhere near the area of operation. Children are often attracted to the unit and mowing activity. Never assume that children will remain where you last saw them. If there is a risk that children may enter the area where you are mowing, have another responsible adult watch them.

DO NOT GIVE CHILDREN RIDES ON THIS UNIT! This encourages them to come near the unit in the future while it is running, and they could be seriously hurt. They may then approach the unit for a ride when you are not expecting it, and you may run over them.

Reverse

Do not mow in reverse unless absolutely necessary. Always look down and behind before and while traveling in reverse even with the mower blades disengaged.



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Features & Controls

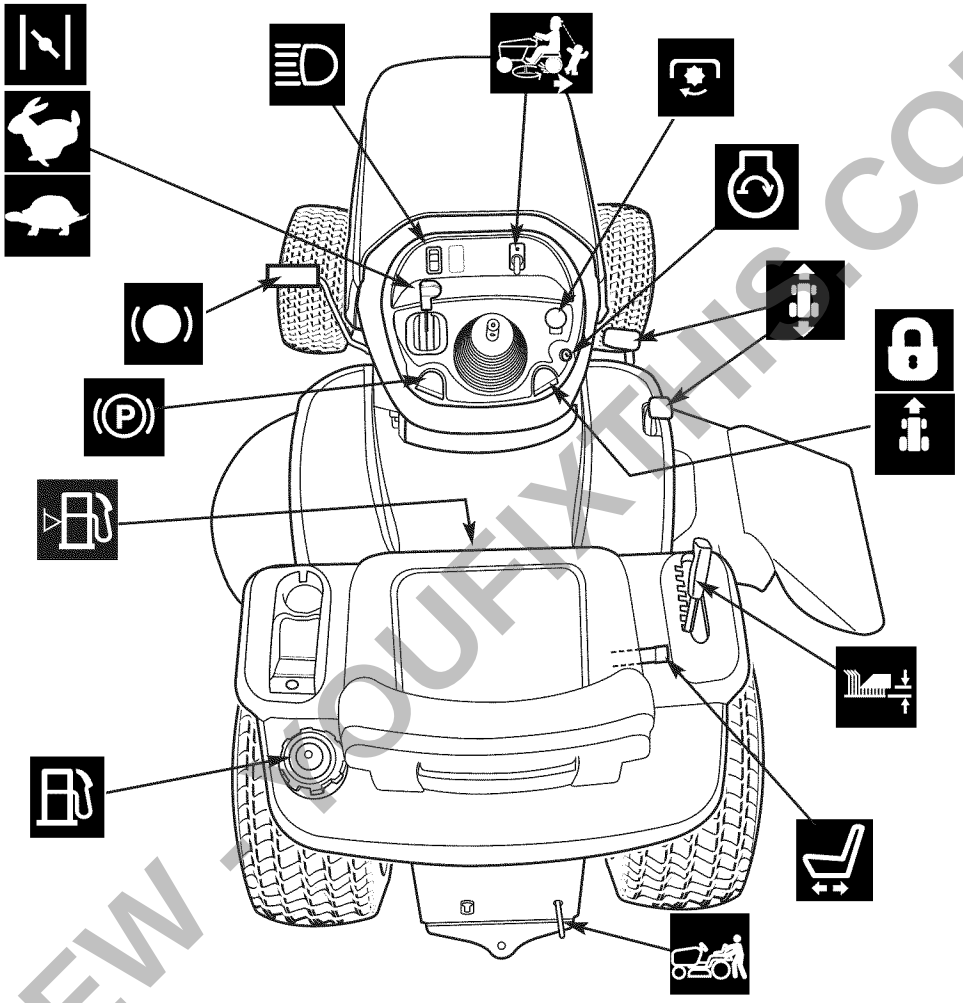


Figure 1. Controls

Control Functions

The information below briefly describes the function of individual controls. Starting, stopping, driving, and mowing require the combined use of several controls applied in specific sequences. To learn what combination and sequence of controls to use for various tasks see the OPERATION section.

Throttle/Choke Control (Choke-O-Matic)

The throttle/choke controls the engine speed and choke (see Figure 1). Move the throttle/choke to the FAST position to increase engine speed and SLOW position to decrease engine speed. Always operate at full throttle. Move the throttle/choke control to the CHOKE position for starting a cold engine. A warm engine may not require choking.

Headlights

The light switch turns the tractor headlights on and off.

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Operation

General Operating Safety

Be sure to read all information in the OPERATOR SAFETY section before attempting to operate this unit. Become familiar with all of the controls and how to stop the unit.

Check & Fill Engine Oil

1. Turn the engine off, and set the parking brake to PARK.
2. Clean the area around the dip stick (A, Figure 2).
3. Remove the dip stick and clean it with a paper towel.
4. Insert the dip stick back into the engine. Thread the cap back onto the tube.
5. Remove the dip stick and read the oil level. The oil level should be between the "FULL" and "ADD" marks (B). If not, add oil according to the oil recommendations chart (see Figure 18).

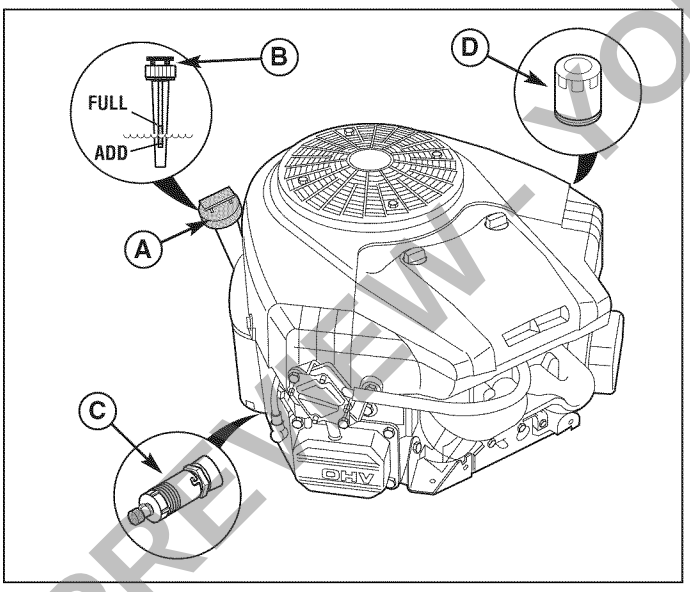


Figure 2. Check & Fill Engine Oil

Adding Fuel

⚠ WARNING

Gasoline is highly flammable and must be handled with care. Never fill the tank when the engine is still hot from recent operation. Do not allow open flame, smoking or matches in the area. Avoid over-filling and wipe up any spills.

Do not use gasoline containing METHANOL, gasohol containing more than 10% ETHANOL, gasoline additives, or white gas because engine/fuel system damage could result.

1. Remove the fuel cap (A, Figure 5).
2. Fill the tank. Do not overfill. Leave room in the tank for fuel expansion. Refer to your engine manual for specific fuel recommendations.
3. Install and hand tighten the fuel cap.

Starting the Engine

1. Sit in the seat and lift UP the seat adjustment lever, position the seat as desired, and release the lever to lock the seat in position.
2. Fully depress the brake pedal or set the parking brake with pedal fully depressed, pull UP on parking brake knob, then release pedal.
3. Raise mower to highest position with the mower height adjustment lever.
4. Disengage the PTO switch by pushing IN.
5. Move throttle/choke control to CHOKE position.

NOTE: A warm engine may not require choking.

6. Insert key into ignition and turn clockwise to START position and release the key as soon as the engine starts.
7. When engine starts, leave throttle/choke control in CHOKE position until engine warms up and begins to run roughly.
8. Immediately move the throttle/choke control to the FAST position.

NOTE: In the event of an emergency, the engine can be stopped by turning the ignition switch to STOP. For normal engine shut down, follow the procedure in "Stopping the Tractor & Engine."

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Maintenance

MAINTENANCE SCHEDULE & PROCEDURES

The following schedule should be followed for normal care of your tractor and mower.

Maintenance Items	Before Each Use	Every 5 Hours	Every 25 Hours	Every 100 Hours	Every 250 Hours	Spring & Fall
Check Safety Interlock System						●
Check Tractor Brakes						●
Check Mower Blade Stopping Time				●		●
Check Tractor/Mower for loose hardware		●				
Check / Clean Cooling Fins (If Equipped)				●		
Check / Adjust PTO Clutch					●	
Lubricate Tractor & Mower Deck **			●			
Clean Battery & Cables				●		
Check Tire Pressure			●			
Clean Deck & Check/Replace Mower Blades**				●		
Check Engine Oil Level	●					
Check / Change Engine Air Filter *			●			
Change Engine Oil *				●	●	●
Change Engine Oil & Filter *					●	
Inspect Spark Plug(s) *						●
Check / Replace Fuel Filter *						

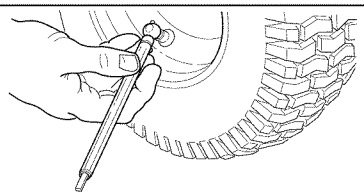
* Refer to ENGINE MANUAL. Change original engine oil after initial break-in period.

** More often in hot (over 85° F: 30° C) weather or dusty operating conditions.

Check Tire Pressures

Service Interval: Every 25 Hours

Tire Pressure should be checked periodically, and maintained at the levels shown in the chart (see Figure 8). Note that these pressures may differ slightly from the "Max Inflation" stamped on the side-wall of the tires. The pressures shown provide proper traction, improve cut quality, and extend tire life.



Size	PSI	bar
20 x 10.0-8	10	0,68
15 x 6.0-6	12-14	0,82-0,96

Figure 8. Tire Pressures

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Troubleshooting

Troubleshooting

While normal care and regular maintenance will extend the life of your equipment, prolonged or constant use may eventually require that service be performed to allow it to continue operating properly.

The troubleshooting guide below lists the most common problems, their causes, and remedies.

See the information on the following pages for instructions on how to perform most of these minor adjustments and service repairs yourself. If you prefer, all of these procedures can be performed for you by your local authorized dealer.

⚠ WARNING

To avoid serious injury, perform maintenance on the tractor or mower only when the engine is stopped and the parking brake engaged.

Always remove the ignition key, disconnect the spark plug wire and fasten it away from the plug before beginning the maintenance, to prevent accidental starting of the engine.

Troubleshooting the Tractor

PROBLEM	CAUSE	REMEDY
Engine will not turnover or start.	1. Brake pedal not depressed.	Fully depress brake pedal.
	2. PTO (electric clutch) switch in ON position.	Place in OFF position.
	3. Cruise control engaged.	Move knob to Neutral/Off position.
	4. Out of fuel.	If engine is hot, allow it to cool, then refill the fuel tank.
	5. Engine flooded.	Disengage choke.
	6. Fuse Blown.	Replace fuse.
	7. Battery terminals require cleaning.	See “Battery Maintenance”.
	8. Battery discharged or dead.	Recharge or replace.
	9. Wiring loose or broken.	Visually check wiring & replace broken or frayed wires. Tighten loose connections.
	10. Solenoid or starter motor faulty.	See your dealer.
	11. Safety interlock switch faulty	See your dealer.
	12. Spark plug(s) faulty, fouled or incorrectly gapped.	Clean and gap or replace. See ENGINE MANUAL.
	13. Water in fuel.	Drain fuel & refill with fresh fuel. Replace fuel filter.
	14. Gas is old or stale.	Drain fuel & refill with fresh fuel. Replace fuel filter.
Engine starts hard or runs poorly.	1. Fuel mixture too rich.	Clean air filter. Check choke adjustment
	2. Spark plug(s) faulty, fouled, or incorrectly gapped.	Clean and gap or replace. See engine manual.
Engine knocks.	1. Low oil level.	Check/add oil as required.
	2. Using wrong grade oil.	See engine manual.
Excessive oil consumption.	1. Engine running too hot.	Clean engine fins, blower screen and air cleaner. Clean radiator screen.
	2. Using wrong weight oil.	See engine manual.
	3. Too much oil in crankcase.	Drain excess oil.
Engine exhaust is black.	1. Dirty air filter.	Replace air filter. See Engine Manual.
	2. Choke closed.	Open choke.
Engine runs, but tractor will not drive.	1. Ground speed control pedals not depressed.	Depress pedals.
	2. Transmission release lever in “push” position.	Move into drive position.
	3. Drive belt is broken.	See your dealer.
	4. Drive belt slips.	See cause and remedy below.
	5. Parking brake is engaged.	Disengage parking brake.

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Servicing the Mower Blades

Service Interval: Every 100 Hours or As Required

⚠ WARNING

For your personal safety, do not handle the sharp mower blades with bare hands. Careless or improper handling of blades may result in serious injury.

⚠ WARNING

For your personal safety, blade mounting capscrews must each be installed with two spring washers or a hex washer and spring washer, then securely tightened. Tighten blade mounting nut to 70-80 ft-lbs (95-108 Nm). Tighten blade mounting capscrew to 45-55 ft-lbs (61-75 Nm).

1. Remove mower deck (see “Mower Deck Removal”).
2. To remove blade for sharpening, use a block of wood to prevent blade rotation while loosening the cap-screw (see Figure 12).
3. Remove the nut (C, Figure 13), or spring washers (B), and blade.
4. Use a file to sharpen blade to a fine edge. If blade is damaged, it must be replaced.
5. Balance the blade as shown in Figure 11. Center the blade’s hole on a nail lubricated with a drop of oil. A balanced blade will remain level.
6. Reinstall the spring washers (B, Figure 13) and nut (C). Use a wooden block (A) to prevent blade rotation while tightening the nut (C) to 70-80 ft-lbs (95-108 Nm).

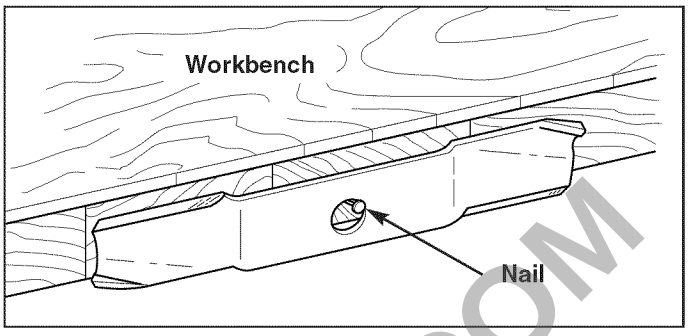


Figure 11. Balancing the Blade

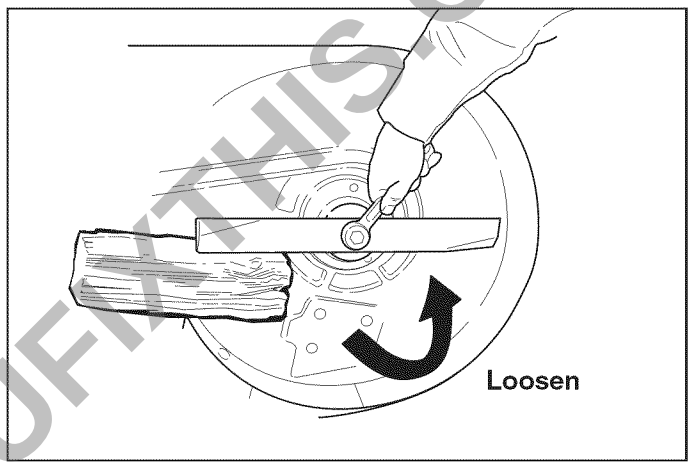


Figure 12. Blade Removal

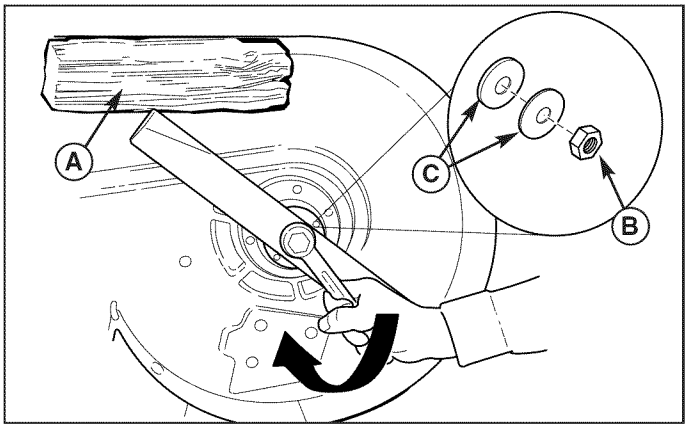


Figure 13. Blade Installation Mowers (42“ Mowers)

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Item	Part No	Qty	Description	Note
17	7101563	2	Wheel & Tire 22 x 10 - 8	
18	1729708	2	WHEEL & TIRE ASSEMBLY, 14.4 X 6	
19	1730181	2	SPACER, 0.77 ID x 1-1/4 OD x 1.65 LG Powdered Metal Black	
20	720258	2	KEY, 3/16	
21	721318	4	HUB CAP	
23	720010	4	RING- -E-.750D-.050T	
24	722598	6	WASHER, .76-1.2 16G FL	
26	722620	4	WASHER - FLAT	

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REF. NO.	PART NO.	DESCRIPTION
1	793564	Cylinder Assembly
2	499585	Kit–Bushing/Seal (Magneto Side)
3	★391086s	Seal–Oil (Magneto Side)
4	796230	Sump–Engine
7	★△693997	Gasket–Cylinder Head
8	792185	Breather Assembly
9	690937	Gasket–Breather
10	697551	Screw (Breather Assembly)
11	792184	Tube–Breather
12	★697227	Gasket–Crankcase
15	690946	Plug–Oil Drain
20	★795387	Seal–Oil (PTO Side)
22	694966	Screw (Crankcase Cover/Sump)
48	698172	Short Block
51	★795123	Gasket–Intake
51A	★690950	Gasket–Intake
163	★△691001	Gasket–Air Cleaner
177	★691031	Seal–O Ring (Dipstick)
219	793338	Gear–Governor
220	690412	Washer (Governor Gear)
221	841026	Cup–Governor
250	690957	Retainer–Breather
252	794389	Collector–Oil
358	694012	Gasket Set–Engine
404	690442	Washer (Governor Crank)
415	794903	Plug (Oil Pressure Switch Hole)
524	★691032	Seal–Dipstick Tube
552	690552	Bushing–Govenor Crank
552A	690553	Bushing–Govenor Crank
615	698290	Retainer–Governor Shaft
616	691045	Crank–Governor
691	★790574	Seal–Governor Shaft
718	690959	Pin–Locating
742	690328	Retainer–E Ring
750	796208	Screw (Oil Pump Cover)
850	100106	Sealant–Liquid (Liquid Sealant is interchangeable with Breather Gasket and Rocker Cover Gasket)
868	★△690968	Seal–Valve
883	★△690970	Gasket–Exhaust
943	★796222	Seal–O Ring (Oil Pump Cover)
965	796221	Cover–Oil Pump
1013	690954	Nipple–Oil Filter
1017	796214	Screen–Oil Pump
1022	★△690971	Gasket–Rocker Cover
1024	796220	Pump–Oil
1027	795890	Filter–Oil
1058	277103	Operator's Manual
1329	44L7770037G1	(Replacment Engine)
1330	273521	Repair Manual

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Item	Part No	Qty	Description	Note
1	1728086	2	PIVOT, Hood Powdered Metal	
2	1931277	16	NUT, Hex, Flange Whizlock, 5/16-18	
3	1727982A	1	SUPPORT, Muffler, Hood 14GA	
4	1931335	2	CARRIAGE BOLT, 5/16-18 x 1	
5	1930601	14	SCREW, Taptite, 5/16-18 x 5/8	
6	2860744	1	CAPSCREW, Hex Head, 5/8-11 x 3-1/4 G5	
7	1960035	1	WASHER, Flat, 5/8	
8	1727904A	1	SUPPORT, Front Footrest RH	
9	1727260A	1	TOWER, 12GA	
10	1731310A	1	SUPPORT, Seat Deck 12GA	
11	1736746A	1	SUPPORT, Rear Frame 12GA	
12	1930591	14	CAPSCREW, Hex Head, Flange Whiz Lock, 5/16-18 x 3/4	
13	1727905A	1	SUPPORT, Front Footrest LH	
14	1736715A	1	FRAME, 12GA	
15	2860646	1	NUT, Hex Flange Two-Way Lock, 5/8-11	
16	1727902A	1	PLATE, Axle Support	
17	1734135	2	CAP, Hub	
18	2176440	4	BUSHING, Nylon, 3/4 Diameter	
19	1704314	3	FITTING, Zerk	
20	1727868	1	LINK, Drag	
21	1727873A	1	SPINDLE & ARM ASSEMBLY, LH	
22	1960747	2	NUT, Hex Nylock 3/8-24	
23	2860183	4	WASHER, 3/4	
24	1728080A	1	ROD, Tie	
25	1930645	2	NUT, Hex, Flange, Locking, 3/8-16	
26	1727872A	1	SPINDLE & CUP ASSEMBLY, RH	
27	1731912	2	BUSHING, Powdered Metal	
28	1960032	2	CAPSCREW, Hex Head, 3/8-16 x 1-1/4, .141 Thread G5	
29	1960652	2	CAPSCREW, 7/16-14 x 1.5	
30	1721918A	1	HOOK, "J"	
31	1730186	2	BUSHING, Axle Pivot Powdered Metal	
32	1728018	1	AXLE, Front Iron Casting Machined	
33	1611710	2	RING, Klipring Extension	
34	1726504	2	CAP, Hub	

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Item	Part No	Qty	Description	Note
1	1664847	1	CAPSCREW, Hex Head, Taptite, 5/16-18 x 3/4	
2	1931277	8	NUT, Hex, Flange Whizlock, 5/16-18	
3	1728120	1	ROD, Bypass, 11.44 LG Yellow	
4	1722460	2	PIN, Quick	
5	1960686	1	NUT, Hex Flange, 5/16-18 ESNA	
6	1727903A	2	SUPPORT, Transmission	
7	1930591	4	CAPSCREW, Hex Head, Flange Whiz Lock, 5/16-18 x 3/4	
8	1729588	1	TRANSMISSION ASSEMBLY, K46BP	
9	1960586	4	SCREW, Hex Head Flange Lock, 5/16-18 x 2-1/2	
10	1960686	1	NUT, Hex Flange, 5/16-18 ESNA	
12	1728008	1	V-BELT, Drive Belt, Aramid/Kevlar	
13	1727258A	1	ARM, Control 7GA	
15	1729576	1	BOLT, Shoulder 5/16-18 G5	
16	1728043A	1	STRAP, Torque 7 GA	
17	1919381	1	WASHER, Plain, 5/16	
18	1922127	1	CAPSCREW, Hex Head, 5/16-18 x 1-3/4	

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