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Craftsman 16 hp riding mower manual

Page 1 Owner's Manual CRAFTSMAN™ 16.5 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR Model No. 917.271121 • Safety • Assembly • Operation • Maintenance • Repair Parts CAUTION: For answers to your questions about this product, Call: Read and follow all 1-800-659-5917... Page 2 Sears will replace the battery at no charge. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. Page 3 • Turn off blades when not mowing. CHILDREN • Stop engine before removing grass Tragic accidents can occur if the operator catcher or unclogging chute. is not alert to the presence of children. Children are often attracted to the • Mow only in daylight or good artificial light. 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Page 16 BEFORE STARTING THE ENGINE •• Be sure freewheel control is in the transmission engaged position. CHECK ENGINE OIL LEVEL • Sit on seat in operating position, • The engine in your tractor has been depress clutchbrake pedal and set shipped, from the factory, already tilted parking brake. Page 17 adjustedfor bestengineperformance, the neutral (N) position. Repeat this pro- See"TOADJUSTCARBURETOR" i nthe cedura with the motion control lever three (3) times. ServiceandAdjustments sectionof this • Your tractor is now purged and ready for manual. normal operation. PURGETRANSMISSION MOWING TIPS , _CAUTION: Never engage or disen- • ... Page 18 MULCHING MOWING TIPS • Certain types of grass and grass condi- tions may require that an area be IMPORTANT: For best performance, keep mulched a second time to completely mower housing free of built-up grass and hide the clippings. When doing a sec- trash. Page 19 CUSTOMER RESPONSIBILmES CheCk "Rre Pressure Check Operator Presence and Interlock Systems Check for LOOSEFasteners V. "7 1 1 1" . Lubrication Chart Check Battqf Level c. an Battery and Terminals/Recharge Check Transa, xie Cooling Adj/Utst Blade Belt(s) Tension 1 L s Adjust Motion Drive Belt(s) Tension Il e Check Engine... Page 20 TRACTOR • Reassemble hex bolt, lockwasher and flat washer in exact order as shown. Always observe safety rules when per- • Tighten bolt securely (27-35 R. Lbs. forming any maintenance. torque).

BRAKE OPERATION IMPORTANT:

Blade bolt is Grade 8 heat If tractor requires more than six (6) feet treated. Page 21 TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and ter- minals can cause the battery to "leak" power. • Open battery box door. Check the crankcase oil level before start- • Disconnect BLACK battery cable first ing the engine and after each eight (8) then RED battery cable and remove hours of operation.

Page 22 CLEAN AIR INTAKE/COOLING AREAS • Remove oil filter and wipe off filter adapter.

To insure proper cooling, make sure the • Apply a thin coating of new engine oil to grass screen, cooling fins, and other external surfaces of the engine are kept the rubber gasket on replacement oil fil- clean at all times. Page 23 • Keep finished surfaces and wheels free of all gasoline, oil, etc. • Protect painted surfaces with automo- typewax. tive We do not recommend using a garden FuelRiter hose to clean your tractor unless the elec- trical system, muffler, air filter and carbure- CLEANING tor are covered to keep water out. Page 24 _O LEVELMOWERHOUSING • If links are not equal in length, adjust one linkto same length as other link. adjust the mower while tractor is parked • To lower front of mower loosen nut "E" in level ground or driveway. Make sure on both front links an equal number of ires are properly inflated (See =PROD- JCT SPECIFICATIONS"). Page 25 BELT INSTALLATION - and inside all belt guides. • Install mower in reverse order of • Install new belt in reverse order of removal instructions. removal.

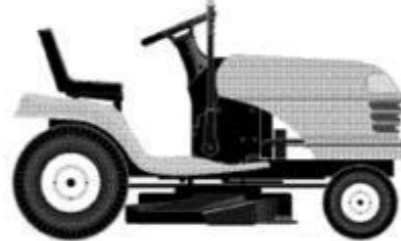
• Make sure belt is in all pulley grooves Mandrel Idler Pulley Mandrel Pulley TO ADJUST BRAKE TO REPLACE...

Page 26 TO ADJUST MOTION CONTROL LEVER TO REMOVE WHEEL FOR REPAIRS The motioncontrol lever has been preset • Block up axle securely. at the factory and adjustment should not • Remove axle cover, retaining dng and washers to allow wheel removal (rear be necessary. Page 27 • Connect the other end of the BLACK Hex B. cable to good CHASSIS GROUND, away from fuel tank and battery. TO REMOVE CABLES, REVERSE ORDER • BLACK cable first from chassis and then from the fully charged battery. Positive (Red) Cable Negative (Black) Cat • ... Page 28 TO ADJUST THRO'n'LE CONTROL to remove the limiter cap. The limiter cap CABLE cannot be removed without breaking the adjusting needle. The throttle control has been preset at the factory and adjustment should not be nec- • Be sure you have a clean air filter and the throttle control cable is adjusted essary. Page 29 Immediately prepareyour tractorfor stor- Also, experience indicates that alcohol age,atthe endof the seasonor if the trac- blended fuels (called gasohol) or using turwill not be used for 30 days or more. ethanol or methanol) can attract moisture which leads to separation and formation of, _CAUTION: Never store the tractor with acids during storage. Page 30 TROUBLESHOOTING CHART PROBLEM CAUSE CORRECTION Willnotstart • Fill fuel tank. • Out of fuel. • See "TO START ENGINE in • Engine not =CHOKED" prop- Operation section. eryl. • Wait several minutes before • Engine flooded. attempting to start. • ... Page 31 TROUBLESHOOTING CHART PROBLEM CAUSE CORRECTION Loss of power (cootd) • Faulty spark plug. • Clean and regap or change spark plug. • Dirtyfuel tilter. • Replace fuel filter. • Drain fuel tank and refill with • Stale or dirtyfuel. fresh gasoline. • ...

Owner's Manual

CRAFTSMAN
LAWN TRACTOR
16.0 HP, 42" Mower
Electric Start
6 Speed Transaxle

Model No.
917.273790



This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Owner's Manual.

IMPORTANT:

Read and follow all Safety Rules and instructions before operating this equipment.

For answers to your questions about this product, Call

1-800-659-5917
8 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.
Visit our Craftsman website www.sears.com/craftsman

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Page 31 TROUBLESHOOTING CHART PROBLEM CAUSE CORRECTION Loss of power (coot'd) • Faulty spark plug. • Clean and regap or change spark plug. • Dirty fuel filter. • Replace fuel filter. • Drain fuel tank and refill with • Stale or dirty fuel. fresh gasoline. •... Page 32 TROUBLESHOOTING CHART PROBLEM CAUSE CORRECTION Poor grass discharge • Clean underside of mower (coot'd) • Buildup of grass, leaves and trash under mower housing. • Mower drive belt worn. • Replace mower drive belt. • Blades improperly installed. • Reinstall blades sharp edge down. Page 33 TRACTOR - MODEL NUMBER 917.271121 SCHEMATIC of Ili BATTERY SOLENOID FUSE30AMP. AMMETER CLUTCH I BRAKE (PEDAL UP) FUEL , , " - - e (CLUTCH OFF) ; 85 86 * FUEL SHUT-OFF =SEAT . SWITCH t SOLENOID s TTICo _ IGNITION PRESENCE RELAY #1 (NOT OCCUPIED) Page 34 TRACTOR - MODEL NUMBER 917.271121 ELECTRICAL •... Page 35 TRACTOR - MODEL NUMBER 917.271121 ELECTRICAL PART DESCRIPTION 163465 Battery 12 Volt 28 Amp 74760412 Bolt, Hex Head 1/4, 20 onc x 3/4 156417 Case, Battery Mech Hinge 161343 Switch, Interlock N Opn/N Opn STD551125 Washer, Lock 73350400 Nut, Hex, Jam 1/4-20 UNC 147430 Hamese, Light Socket (Includes 4152J) 4152J. •... Page 37 TRACTOR - MODEL NUMBER 917.271121 CHASSIS AND ENCLOSURES PART DESCRIPTION 160392 Chassis Assembly Dmwhar 140356 17490612 Screw, Txl. Roll. 3/8-16 x 3/4 19131216 Washer 13/32 x 3/4 x 16 Gauge 155272 Bumper Hood/Dash 161917X013 Dash STD533710 Bolt, Carriage 3/8-16 x 1 155927 Panel, Dash, LH. Page 38 TRACTOR - MODEL NUMBER 917.271121 GROUND DRIVE 146 H 38. •... Page 39 TRACTOR - MODEL NUMBER 917.271121 GROUND DRIVE PART PART DESCRIPTION DESCRIPTION Keeper Bolt EngineHydro 150071 Transaxle Assembly 154778 Keeper Bolt Engine 142431 Spring, Return, Brake 134683 Strap/Torque Lh Hydro 18/20" 143995 Pulley, Transmde 140158 Washer 13/32 x 1-1/4 x 12 154792 Rod ShiftHydro LT 19132012 Gauge... Page 40 TRACTOR - MODEL NUMBER 917.271121 STEERING ASSEMBLY... Page 41 TRACTOR - MODEL NUMBER 917.271121 STEERING ASSEMBLY PART DESCRIPTION 139768 steer whe 154427 Ax. Assembly/S'MP Dropped STL 156483 Spindle Assembly, LH. 157473 Spindle Assembly, R.H. 6266H Bearing, Race, Thrust, Hardened 121748X Washer 25/32 x 1-5/6 x 16 Gauge 19 r/2016 Washer 27/32 x 1-1/4 x 16 Gauge 1200XX 9 Ring, Klip 3366R... Page 42 TRACTOR - MODEL NUMBER 917.271121 ENGINE OPTIONAL EQUIPMENT... Page 43 TRACTOR - MODEL NUMBER 917.271121 ENGINE PART DESCRIPTION 162156 Control, Throttle/Choke 17720410 Screw, Hex Head, Thread Cutting 1/4-20 x 5/8 Engine. (See Breakdown) Kohler, Model No. CV16-43513 .159420 Muffler 12-041-03 Gasket Kohler CV13-CV16.5 13280328 Nipple, Pipe 3/8 NPT x 3-1/2 13200300 Elbow, Standard 90° 3/8-18 NPT STD551237 Washer 159880... Page 44 TRACTOR - MODEL NUMBER 917.271121 SEAT ASSEMBLY PART PART DESCRIPTION DESCRIPTION Seat 121246X 140123 Bracket, Switch Mounting Bracket, Pivot, Seat 121248X Bushing, Snap 140551 Bolt 72050412 Bolt, Carriage 1/4-20 x 1-1/2 STD523710 Spacer, Split .28 x .88 19131610 Washer 13/32x1 x10 Gauge 134300 Spdng 145006 Clip, Push-In Hinged 121250X... Page 45 Decal Dash Pnl Kohler 163205 Decal, FenderAuto Sears 163203 Decal, Deck Mower F. Z 138311 Decal, Lift Handle 163204 Pad Footrest LH S'11.T Decal, Fender, Craftsman 154515 156439 Pad Footrest RH STLT Decal, Fender Danger 154516 142341 Eng.sh OwnrCs Manual, Decal, Drawbar Cntd Mvt Hyd... Page 46 TRACTOR - MODEL NUMBER 917.271121 LIFT ASSEMBLY 25 24... Page 47 TRACTOR - MODEL NUMBER 917.271121 LIFT ASSEMBLY PART DESCRIPTION 159460 Lift Lever Inner Wire Assembly 159471 Shaft Assembly, Lift 105767X Pin, Groove 12000002 E-Risk 1921621 Washer 21/32 x 1 x 21 Gauge 120183X Beading, Nylon 125631X Grip, Handle, Fluted 122365X Button, Plunger, Red 139865 Link, Utl. LH. Page 48 TRACTOR - MODEL NUMBER 917.271121 MOWER DECK " - 132 " - 113 1111 14 118.1 " - 121... Page 49 TRACTOR - MODEL NUMBER 917.271121 LOWER DECK PART PART DESCRIPTION DESCRIPTION 144393 Mower Housing 122052X Spacer, Retainer STD533107 Bolt 144086 Spring, Torison Brakes 138017 Bracket Assembly, S way Bar, 141043 Guard, TUV Idler Front 162113 Knob Custom Oval 138440 Bracket Assembly, Sway Bar 144200 V-Belt STD624008 Retainer Spring 142427 Rod, Clutch, Pmary, with Nibs... Page 50 TRACTOR - MODEL NUMBER 917.271121 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 319-0650... Page 51 TRACTOR - MODEL NUMBER 917.271121 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 319-0650 PART PART DESCRIPTION DESCRIPTION 142930 Housing, Lower 142884 Washer 7/16 x 7/8 x .060 142931 Assembly, Upper Housing 150829 Differential Assembly 142932 Seal, Lip 142991 Washer 3/4 x 1.5 x.13 142928 Ring, Wire Retaining 142961... Page 52 TRACTOR - MODEL NUMBER 917.271121 KOHLER ENGINE-MODEL NUMBER CV16S, TYPE NUMBER PS-43513 CYLINDER HEAD, VALVE AND BREATHER 11 10 -15 -14... Page 53 TRACTOR - MODEL NUMBER 917.271121 KOHLER ENGINE-MODEL NUMBER CV16S, TYPE NUMBER PS-43513 CRANKCASE CYLINDER HEAD/VALVE/BREATHER PART PART DESCRIPTION DESCRIPTION 12032-03 Seal, crankshaft 12-3514 Lifter, valve (2) Block, cylinder (Use Short Block 12 522 18) 12-755-63 Kit, cylinder head (Includes 3- 12-445-02 Strap, lifting M-0839025 12-411-01 Screw, hex. Page 54 TRACTOR - MODEL NUMBER 917.271121 KOHLER ENGINE-MODEL NUMBER CV16S, TYPE NUMBER PS-43513 IGNITION/ELECTRICAL BLOWER HOUSING AND BAFFLES 17 14 - AIR INTAKE t-8... Page 55 TRACTOR - MODEL NUMBER 917.271121 KOHLER ENGINE-MODEL NUMBER CV16S, TYPE NUMBER PS-43513 IGNITION/ELECTRICAL BLOWER HOUSING & BAFFLES PART PART DESCRIPTION DESCRIPTION 12-086-14 Screw, hex. flange M10x1.5x46 M.0545010 Screw, hex. flange M5x0.8x10 12-468-03 Washer, plain 3/8 24-162-03 Washer, plain 1/4 Screen, grass 24-468-10 M-0639016... Page 56 TRACTOR - MODEL NUMBER 917.271121 KOHLER ENGINE-MODEL NUMBER CV16S, TYPE NUMBER PS-43513 STARTING SYS' EM I ENGINE CONTROLS OIL PAN I LUBRICATION 0-4... Page 57 TRACTOR - MODEL NUMBER 917.271121 KOHLER ENGINE-MODEL NUMBER CV16S, TYPE NUMBER PS-43513 STARTING SYSTEM ENGINE CONTROLS PART PART DESCRIPTION DESCRIPTION M-0839070 Screw, hex. flange M8x1.25x70 12-079-07 Unkage, choke 25-098-05 Starter assembly (Includes 3-8) 12-237-01 Clamp, cable 12-755-54 Kit, drive end M-0664020 Screw, lobe socket M6xLx20 12.227-06... Page 59 SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION ONLY RIDE UP AND DOWN HILL, NOT ACROSS HILL SIGHTING GUIDE Operate your Tractor up and down the face of slopes (not greater than 15), never across the face. Make turns gradually to prevent tipping or loss of control. Page 60 For the repair or replacement parts you need delivered directly to your home Call 7 am - 7 pm, 7 days a week 1-800-366-PART (1-800-366-7278) Para ordenar piezas con entrega a domicilio - 1-800-659-7084 For in-house major brand repair service Call 24 hours a day, 7 days a week 1-800-4-REPAIR (1-800-473-7274)