



WARRANTY
JOB ESTIMATING
GUIDE

White
OUTDOOR 

WHITE OUTDOOR INC. P.O. BOX 368022 CLEVELAND, OHIO 44136-9722

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The year 2000 job estimating guide was created to provide a fair method of determining warranty reimbursement. It should serve as a guideline to dealers in estimating most common repairs for our product lines. The guide was created with the assistance of the White Outdoor Warranty Group. The employees of this group personally performed these repairs under conditions found in a typical service dealership. No power tools were used and none of the estimators are lawn and garden technicians. White Outdoor realizes the importance of a strong service dealer base and we feel that a fair job estimating guide is an integral part of this relationship.



Futhermore, this guide has been updated to reflect recent product additions. The new step-through frame lawn and garden tractors are included for the first time. Also included is the Yard Bug internal bagging riding mower, the 020 series walk behind chipper vacuum and the new four wheel drive snow throwers.

This guide should allow the servicing dealer to estimate times in a consistent manner. If a situation or failure arises that goes beyond the scope of this guide please do not hesitate to contact the White Outdoor Warranty Group at (800) 959-4683. We welcome your comments and feedback.

*White Outdoor Warranty Department
Revised June 2000*

*All Times documented here in are the maximum allowed per each repair

Walk Behind - Push

Time schedule for standard *walk behind* rotary mowers

Description	Minutes
Bag/Bag Frame	15
Blade and Adapter	10
Chute Deflector - Rear Discharge	15
Chute Deflector - Side Discharge	10
Deck	60
Handle Brackets (2)	25
Handles - Upper and Lower	15
Height Adjusters (Each)	15
Rear Flap	15
Wheel and Axle Bolts (4)	20
Zone Start Cable and Adjustment	10

Walk Behind - Self Propel

Time schedule for *self propelled* rotary mowers

Description	Minutes
Baffle	25
Battery Pack	15
Blade and Adaptor	10
Castors (Each)	30
Chute Deflector - Rear Discharge	15
Chute Deflector - Side Discharge	10
Deck	90
Engine Pulley/ Pulley Halves	20
Front Axle for Single Lever Height Adjuster	30
Handle Bracket (Each)	20
Handles - Upper and Lower	30
Height Adjuster (Each)	15
Height Adjuster Single Lever Height Adjuster with Connection Rod	40
Rear Flap	15
Self Propel Cable Only with Adjustment	25
Self Propel Control Box and Cable with Adjustment	30
Self Propel Control Box with Adjustment	15
Spring and Rear Door	15
Throttle Box with Lever (Replacement Only)	10
Throttle Box, Lever, and Cable with Adjustment	30
Throttle Cable and Adjustment	10
Transmission - Repair	90
Transmission - Replace	60
Transmission Pulley	30
V- Belt	30
V- Belt Idler	45
Wheel and Axle Bolts	20
Wheel Ratchet and Pawl (2)	15
Wiring Harness	15
Zone Start Cable	10

Lawn Tractors

Time schedule for *Lawn Tractors*

Description	Models 604-609	Models 614-619	Models 660-679	Models 690-699
Belts				
Belt Guard	10	10	10	10
Deck Drive	20	20	20	20
Engine Drive	45	45	30	30
Variable Speed	30	NA	30	NA
Cables				
Choke	25	25	30	30
Throttle	30	30	30	30
Deck				
Blade & Adapter (Each)	10	10	10	10
Blade Brake Assembly	20	20	15	15
Deck (Shell) with Adjustment	90	90	90	90
Deck Assembly Complete	30	30	30	30
Deck Height Index Bracket	30	30	25	25
Deck Lift Shaft Assembly	55	55	90	90
Deck Pulley	15	15	15	15
Deck Spring (Each)	10	10	10	10
Deck Stabilizer Plate Assembly	20	20	70	70
Deck Wheels	10	10	10	10
Discharge Chute	10	10	10	10
Lift Handle	55	55	80	80
Lift Link (Each)	15	15	50	50
Spindle Assembly	45	45	45	45
Spindle Assembly Multiple (Each)	30	30	30	30
Drive System				
Clutch/Brake Pedal	10	10	70	70
Engine Pulley	25	25	45	45
Idler Bracket	40	40	40	40
Idler Pulley (Front/Rear)	30/55	30	30	30
PTO Idler Pulley	25	25	NA	NA
Speed Control Handle Assembly	NA	NA	40	40
Speed Control Link with Adjustment	NA	NA	45	45
Transaxle Pulley with Adjustment	25	25	45	45
Variable Speed Bearings	55	NA	55	NA
Variable Speed Bracket	60	NA	60	NA
Variable Speed Pulley	45	NA	45	NA

Lawn Tractors

Time schedule for *Lawn Tractors*

Description	Models 604-609	Models 614-619	Models 660-679	Models 690-699
Electrical				
Ammeter/Hour Meter	10	10	10	10
Battery (Replacement)	30	30	30	30
Battery Box and Cover	10	10	25	25
Battery Cables (Each)	5	5	5	5
Battery Cover	10	10	10	10
Circuit Breaker/Fuse/Relay	10	10	10	10
Deck Safety Switch	10	10	15	15
Electric PTO (Repair)	25	25	NA	NA
Electric PTO (Replace)	30	30	NA	NA
Electrical System (Troubleshoot)	30	30	30	30
Headlight Socket/Bulb	5	5	5	5
Headlight Switch	10	10	10	10
Ignition Switch	10	10	10	10
PTO Safety Switch	NA	NA	10	10
PTO Switch	30	30	NA	NA
Reverse Safety Switch	30	30	15	15
Seat Safety Switch	10	10	15	15
Solenoid	20	20	30	30
Wiring Harness (Repair)	35	35	35	35
Wiring Harness (Replace)	30	30	30	30
Engine Related Components				
Fuel Line	30	30	15	15
Fuel Tank (Front)	15	15	15	15
Muffler/Exhaust	40	40	30	30
Frame/Body Panels				
Dash/Console	45	45	80	80
Fender	45	45	30	30
Foot Pads	15	15	20	20
Grille	20	20	45	45
Hood	15	15	15	15
Seat	5	5	10	10
Side Panel (Each)	25	25	45	45
Upper Frame	NA	NA	150	150
Springs				
Brake	10	10	30	30
Idler/Deck/Blade	15	15	10	10
PTO Clutch	25	25	NA	NA
Variable Speed	30	NA	30	NA

Lawn Tractors

Time schedule for *Lawn Tractors*

Description	Models 604-609	Models 614-619	Models 660-679	Models 690-699
Steering				
Axle (Each)	25	25	20	20
Ball Joint/Tie Rod	15	15	20	20
Drag Link/Ball Joints	20	20	30	30
Pivot Bar	45	45	45	45
Steering Shaft	35	35	60	60
Steering Shaft Assembly with Segment Gear	55	55	60	60
Steering Wheel Bellow	15	15	10	10
Transmission				
Fan Assembly	NA	20	NA	20
Hydrostatic Neutral Control Adjustment	NA	20	NA	20
Neutral Adjustment	10	10	10	10
Parking Brake (Adjust)	15	15	15	15
Rear Axle Hub and Housing (Each)	25	25	30	30
Replacement	90	90	90	90
Shift Lever Linkage	20	20	30	30
Wheels				
Complete Assembly Front (Each)	10	10	5	5
Complete Assembly Rear (Each)	15	15	15	15
Front Tire (Each)	25	25	25	25
Front Tube (Each)	20	20	20	20
Pneumaseal (Per Tire)	15	15	15	15
Rear Tire (Each)	25	25	25	25
Rear Tube (Each)	20	20	20	20
Wheel Bearings (4)	25	25	20	20

Garden Tractors

Time schedule for *Garden Tractors*

Description	Models 804-809	Models 814-819	Models 820-829, 840-849	Models 830-839
Belts				
Belt Guard	5	5	5	5
Deck Drive	20	20	20	20
Engine Drive	20	30	45	45
Variable Speed	15	NA	45	NA
Cables				
Brake (Deck)	25	25	25	25
Choke	25	25	20	20
Throttle	30	30	20	20
Deck				
Blade & Adapter (Each)	10	10	10	10
Blade Brake Assembly	20	20	20	20
Deck (Shell) with Adjustment	90	90	90	90
Deck Assembly Complete	15	15	20	20
Deck Height Index Bracket	15	15	25	25
Deck Lift Shaft Assembly	55	55	60	60
Deck Pulley	30	30	30	30
Deck Roller	15	15	15	15
Deck Spring (Each)	15	15	10	10
Deck Stabilizer Assembly	40	40	40	40
Deck Wheels	5	5	5	5
Discharge Chute	10	10	10	10
Lift Handle	45	45	25	25
Lift Link (Each)	15	15	20	20
Spindle Assembly	45	45	45	45
Spindle Assembly Multiple (Each)	30	30	30	30
Drive System				
Clutch/Brake Pedal	NA	NA	70	70
Electric PTO Pulley	35	35	35	35
Engine Pulley (Manual/Electric PTO)	15/25	15/25	15/25	15/25
Idler Bracket	40	40	25	25
Idler Pulley (Front/Rear)	30/55	30/55	25	25
PTO Idler Pulley	25	25	30	30
Speed Control Handle Assembly	NA	NA	60	60
Speed Control Link with Adjustment	NA	NA	60	60
Transaxle Pulley with Adjustment	25	25	45	45
Variable Speed Bearings	25	NA	25	NA
Variable Speed Bracket	30	NA	50	NA
Variable Speed Pulley	20	NA	30	NA

Garden Tractors

Time schedule for *Garden Tractors*

Description	Models 804-809	Models 814-819	Models 820-829, 840-849	Models 830-839
Electrical				
Ammeter/Hour Meter	10	10	10	10
Battery (Replacement)	30	30	30	30
Battery Box and Cover	10	10	10	10
Battery Cables (Each)	10	10	5	5
Battery Cover	5	5	10	10
Circuit Breaker/Fuse/Relay	30	30	5	5
Deck Safety Switch	20	20	10	10
Electrical System (Troubleshoot)	30	30	30	30
Headlight Socket/Bulb	5	5	5	5
Headlight Switch	10	10	10	10
Ignition Switch	10	10	10	10
PTO Safety Switch	15	15	15	15
PTO Switch	30	30	30	30
Reverse Safety Switch	30	30	10	10
Seat Safety Switch	20	20	10	10
Solenoid	20	20	20	20
Wiring Harness (Repair)	35	35	35	35
Wiring Harness (Replace)	30	30	30	30
Engine Related Components				
Fuel Line	30	30	60	60
Fuel Tank (Front)	15	15	NA	NA
Fuel Tank (Rear)	NA	NA	60	60
Frame/Body Panels				
Dash/Console	45	45	80	80
Fender	45	45	30	30
Foot Pads	15	15	20	20
Grille	20	20	45	45
Hood	15	15	15	15
Seat	5	5	10	10
Side Panel (Each)	25	25	45	45
Upper Frame	NA	NA	150	150
Springs				
Brake	10	10	10	10
Idler/Deck/Blade	15	15	10	10
PTO Clutch	10	10	10	10
Variable Speed	30	NA	10	10

Garden Tractors

Time schedule for *Garden Tractors*

Description	Models 804-809	Models 814-819	Models 820-829, 840-849	Models 830-839
Steering				
Axle (Each)	25	25	20	20
Ball Joint/Tie Rod	15	15	20	20
Drag Link/Ball Joints	20	20	30	30
Pivot Bar	105	105	45	45
Steering Shaft	35	35	60	60
Steering Shaft Assembly with Segment Gear	55	55	60	60
Steering Wheel Bellow	15	15	10	10
Transmission				
Fan Assembly	NA	25	NA	20
Neutral Adjustment	15	15	15	15
Parking Brake (Adjust)	20	20	15	15
Rear Axle Hub and Housing (Each)	105	105	30	30
Replacement	55	55	90	90
Shift Lever Linkage	15	15	30	30
Hydrostatic Neutral Control Adjustment	NA	20	NA	20
Neutral Adjustment	10	10	10	10
Wheels				
Complete Assembly Front (Each)	10	10	5	5
Complete Assembly Rear (Each)	20	20	15	15
Front Tire (Each)	20	20	20	20
Front Tube (Each)	25	25	30	30
Pneumaseal (Per Tire)	15	15	15	15
Rear Tire (Each)	20	20	20	20
Rear Tube (Each)	30	30	30	30
Wheel Bearings (4)	10	10	20	20

Tillers

Time schedule for *Front* and *Rear Tine Tillers*

Description	Front Tine	Rear Tine
Belt Guard	5	10
Belt Guide	20	NA
Belts	30	30
Chain Case Pulley	15	30
Chain Case-Repair	NA	210
Chain Case-Replace	90	120
Clutch Control Handle	10	10
Drive Cable	10	35
Engine Pulley	25	30
Frame	105	90
Handle Panel	15	NA
Handles	20	40
Idler Bracket	25	45
Idler Pulley	15	30
Rear Shield	NA	15
Side Shield - End Cover	NA	15
Throttle Cable	NA	20
Tine Assembly (Each)	10	25
Tine Shaft Seals	NA	45
Tine Shield	25	40
Tines (Each)	NA	10
Wheel Assembly- Repair	5	20
Wheel Assembly -Replace	NA	30

Log Splitter

Time schedule for *Horizontal* and *Vertical Shaft Log Splitters*

Description	Minutes
Beam	125
Cylinder - Replace	45
Cylinder Seal Kit	120
Filter Head	30
Flex Coupling	90
Hitch	30
Hoses (Each)	15
Hydraulic Tank - Replace	140
Pipe Fitting	15
Pressure Tube	15
Pump -Replace	65
Remount Engine	100
Valve	45
Wedge	40
Wheel Bearings (Each)	75

Chipper Shredder

Time schedule for all *Chipper Shredders*

Description	Minutes
Axle Shaft	30
Back Up Plate	10
Blade	50
Chipper Blade	85
Chipper Chute	15
Chute Deflector	5
Flail Housing - RH	60
Flail (12)	60
Flail Housing - LH	70
Frame	140
Hopper	50
Impeller	80
Inlet Guide	35
Shredder Screen	10
Upper/Lower Leaf Ramp	20
Wheel - Replace (Each)	10

Chipper/Shredder/Vacuum

Time schedule for all *Chipper Shredder Vacuums* and *Chipper Vacuums*

Description	Model 103	Model 203	Model 020	Model 315
Bag	5	5	5	NA
Chains	NA	NA	NA	30
Chipper Blades	30	30	45	45
Clutch Cable	NA	30	NA	15
Deck	NA	NA	90	NA
Differential - Repair	NA	NA	NA	60
Differential - Replace	NA	NA	NA	45
Discharge Chute	10	10	15	10
Drive Plate	NA	NA	NA	30
Engine Pulley	NA	NA	NA	10
Flails	90	90	90	NA
Friction Wheel	NA	NA	NA	25
Front Axle	20	20	NA	20
Front Wheel (Each)	10	10	10	5
Gas Tank	NA	NA	NA	10
Handle Brackets (Both)	NA	NA	20	NA
Height Adjuster	NA	NA	5	NA
Idler Pulley	NA	30	NA	10
Impeller	60	60	70	45
Lower Handle	20	20	20	20
Nozzle - Repair	30	30	NA	30
Nozzle - Replace	20	20	25	5
Rear Wheel - Repair (Each)	25	25	NA	10
Rear Wheel - Replace (Each)	15	15	10	5
Safety Switch	20	20	5	20
Shift Shaft Assembly	NA	NA	NA	15
Speed Shift Handle	NA	NA	NA	15
Support Braces	NA	NA	10	NA
Upper Handle	20	20	20	20
V-Belt	NA	55	NA	30

Leaf Blower

Time schedule for all *Leaf Blowers*

Description	Minutes
Air Vane (Impeller)	45
Blower Guard	5
Blower Housing	60
Castor Arm - Rear Axle	45
Discharge Chute	15
Frame	105
Front Castor Wheel - Replacement (Each)	5
Lower Handle	15
Nozzle Replacement	15
Rear Wheel - Replace (Each)	5
Upper Handle	10

Edgers

Time schedule for all *Edgers*

Description	Models 510/530/ 560	Models 540/550/ 580/590
Belt	30	15
Belt Guards (Each)	5	5
Blade	10	10
Blade Guard	15	10
Clutch Control Rod	NA	15
Cutter Head Bushings/Bearing	45	20
Cutter Head Pulley	30	25
Cutter Head Spindle Assembly	90	NA
Depth Control - Cable	20	25
Depth Control - Rod	10	NA
Edger Base	*	*
Edger Guide	15	NA
Engine Pulley	45	20
Front Axle	NA	15
Handles - Upper and Lower	20	25
Pivot - Index Bracket	10	60
Pivot Bracket Spring	15	15
Pivot Lever	10	15
Throttle - Choke Control	25	25
Wheel (Each)	5	5
Wheel Adjusters (Curb Kit)	30	20
*Major Repair Contact MTD Technical Service for Authorization		

Snow Throwers

Time schedule for all *Snow Throwers*

Description	Models 140-172	Model 500	Model 600	Model 700	Models 800&900	Model 4X4
Auger Assembly Complete	40	40	40	40	40	40
Auger Clutch Bracket	10	50	50	50	50	50
Auger or Drive Belt	10	25	25	25	25	25
Auger Pulley	15	55	55	55	55	55
Bearing Housing (Left)	20	35	35	35	35	35
Bearing Housing (Right)	15	35	35	35	35	35
Belt Cover	5	5	5	5	5	5
Blower Housing	*	75	75	75	75	75
Chains (Each)	NA	50	NA	NA	NA	40
Chute Adaptor Base	NA	25	25	25	25	25
Chute Crank Rod	20	10	10	10	10	10
Clutch Cable - Rod	20	30	30	30	30	30
Control Handle -Clutch Grip	10	5	10	10	10	10
Control Rod - Shift	NA	10	10	10	10	10
Control Rod Cam Assembly	NA	60	60	60	60	60
Drive Disk Spindle	NA	NA	NA	NA	60	NA
Drive Gear	NA	20	20	NA	NA	20
Drive Pulley	NA	25	25	25	25	25
Engine Pulley	15	25	25	25	25	25
Frame Assembly	*	*	*	*	*	*
Friction Disk	NA	40	40	40	40	40
Friction Drive Wheel	NA	55	55	55	55	55
Handle Panel - Dash	45	30	30	30	30	30
Hex Shaft - Slider Bracket	NA	25	25	25	25	40
Hose - Gas Tank	20	NA	NA	NA	NA	NA
Idler Pulley	15	25	25	25	25	25
Impeller Bearing	NA	40	40	40	40	40
Light - Replace	NA	10	10	10	10	10
Lower Chute	20	15	15	15	15	15
Lower Handle (Each)	25	15	15	15	15	15
Primer	10	NA	NA	NA	NA	NA
Rubber Spiral Assembly	60	NA	NA	NA	NA	NA
Shave Plate	10	10	10	10	10	10
Shift Handle	NA	10	15	15	15	15
Shift Link - Bracket-Arm	NA	25	25	25	25	25
Shroud	10	NA	NA	NA	NA	NA
Spiral Axle	NA	60	60	60	60	60
Springs (Each)	NA	20	20	20	20	25
Switch	10	NA	NA	NA	NA	NA
Upper Chute	10	10	10	10	10	10
Upper Handle (Each)	15	30	30	30	30	30
Wheel Assembly - Repair (Each)	NA	20	20	NA	20	20
Wheel Assembly - Replace (Each)	5	5	5	NA	5	5
Wheel Axle (Each)	15	20	20	NA	20	20
Wheel Axle Sprocket (Each)	NA	NA	NA	NA	30	30
*Major Repair Contact MTD Technical Service for Authorization						

Snow Throwers

Time schedule for all *Snow Throwers*

Description	Models 140-172	Model 500	Model 600	Model 700	Models 800&900	Model 4X4
Chaincase - Repair	NA	NA	NA	NA	NA	75
Complete Chaincase Assembly	NA	NA	NA	NA	NA	45
Dog Assembly (Each)	NA	15	NA	15	10	20
Gear Box	NA	60	60	60	60	NA
Gear Box - Repair	NA	90	90	90	90	NA
Snow Track (Each)	NA	NA	NA	30	NA	NA
Sprocket - Hex Shaft	NA	NA	NA	20	45	NA
Sprocket - Small	NA	NA	NA	65	45	NA
Track - Wheel	NA	NA	NA	15	15	NA
Track - Wheel Shaft Assembly (Repair)	NA	35	NA	35	45	NA
Trigger Lock - Cable (Each)	NA	15	NA	15	15	NA

Yard Bug

Time schedule for the *Yard Bug*

Description	Minutes
Belts	
Deck Belt	25
Lower Drive Belt	10
Upper Drive Belt	5
Cables	
Brake	25
Deck	25
Shift Cable (2)	25
Throttle Choke	25
Variable Drive with Adjustments	45
Deck	
Blade	15
Blade Brake Assembly	15
Complete Deck Assembly with Adjustment	30
Deck Belt Cover	10
Deck Cable Bracket	15
Deck Lift Links	50
Deck Lift Plate	15
Deck Lift Rod	15
Deck Plate	35
Deck Pulley	10
Deck Shell with Adjustment	70
Deck Skirt	25
Deck Stabilizing Bracket	15
Spindle Assembly	30
Electrical	
Battery	30
Battery Bracket	25
Battery Cover	5
Battery Hold Down Rod	5
Connectors (Each)	15
Fuse	5
Ignition Switch	15
Seat Switch	15
Solenoid	15
Spring Switch	15
Wiring Harness	100
Engine Components	
Engine Duct	5
Fuel Line	20
Fuel Tank	20
Fuel Tank Bracket	20
Muffler Extension	10

Yard Bug

Time schedule for the *Yard Bug*

Description	Minutes
Frame	
Floor Pad (Each)	5
Frame Rail - Left	60
Frame Rail - Rear	60
Frame Rail - Right	70
Front Frame - Upper	30
Upper Frame Cover	45
Grass Bag	
Bag Handle	10
Bag Release Lever	10
Deflector Plate	10
Discharge Chute	5
Flow Indicator Assembly	15
Grass Bag Assembly	5
Grass Bag Screen	15
Mulching Plug	5
Side Discharge Chute	5
Hood	
Complete Hood Assembly	35
Grass Bag Lens	5
Hood Brackets (Each)	25
Hood Plate	25
Pivot Bracket Assembly	45
Pulleys	
Engine Pulley	15
Flat Idler	10
Idler - LH	10
Idler - RH	10
Idler Bracket - LH	20
Idler Bracket Assembly - RH	25
Transmission Pulley	90
Variable Speed Pulley	10
Rods	
Brake Lockout Rod	10
Brake Rod	15
Deck Rod	10
Link Rod	10

Yard Bug

Time schedule for the *Yard Bug*

Description	Minutes
Steering Components	
Bumper Tube	10
Control Knob	5
Front Axle Assembly - LH	20
Front Axle Assembly - RH	20
Pivot Bar Assembly	60
Steering Adaptor	20
Steering Ball Joint	10
Steering Column	10
Steering Gear Cover	20
Steering Segment Gear	10
Steering Support Bracket	60
Steering Support Bracket	35
Steering Hub Assembly	20
Steering Wheel	5
Steering Wheel Cap	5
Tie Rod	25
Transmission and Drive Components	
Brake Pedal Assembly	45
Deck Pedal Assembly	45
Transmission	80
Variable Pedal Assembly	45
Wheels	
Front Tire	25
Front Tire Tube	25
Front Wheel Assembly	5
Rear Tire	25
Rear Tire Tube	25
Rear Wheel Assembly	5

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