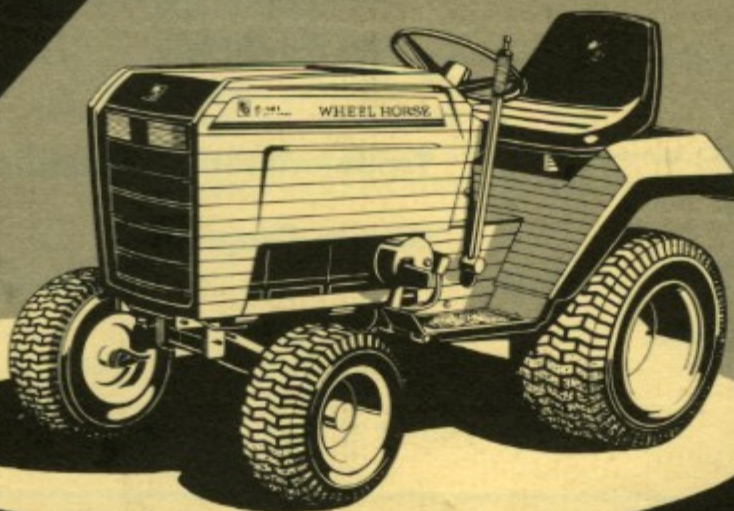


# E-141



**Owners  
Manual**



**WHEEL HORSE**  
lawn & garden tractors



# INDEX

	Page		Page
<b>Tractor Specifications</b>	<b>ii</b>	Operation of the Tractor:	7-8
<b>General Safety Suggestions</b>	<b>1</b>	With a Mower	7
<b>Vehicle Identification Numbers</b>	<b>2</b>	With a Dozer or Grader Blade	8
<b>Owner Registration Card</b>	<b>2</b>	With Drawbar Type Attachments	8
<b>Parts Manual</b>	<b>2</b>	With Tractor Powered Accessories	8
<b>Instruments and Controls</b>	<b>3-4</b>	<b>Maintaining Your Tractor</b>	<b>9-13</b>
<b>Operating Your Tractor</b>	<b>5-6</b>	Maintenance Checklist	9
Power Pack Break-In	5	Drive Motor	9
Safety Interlock System	5	Charging System	9
Correct Drive Motor Operation	5	Electrical System	9-12
Starting the Motor	5	Fuses	10
Stopping the Motor	5	Circuit Breakers	11
Motor Protection	5	Batteries	11-12
Correct Transmission Operation	5	Light Bulb Replacement	12
To Go Forward or Reverse	5	Transmission	12
To Change Speeds or Direction	5	Oil Quality	12
To Stop	5	Oil Level	12
Understanding the Gauges	6	Chassis Lubrication	12-13
Fuel Level Meter	6	Foot Brake Adjustment	13
Battery Balance Meter	6	PTO Clutch & Brake Adjustment	13
Recharging the Batteries	6	Seat Adjustment	13
Correct Accessory Operation	6	Cleaning and Storage	13
<b>Correct Tractor Usage</b>	<b>7-8</b>	<b>Troubleshooting Checklist</b>	<b>14</b>
Front and Mid Attachment Hitches	7	<b>Wiring Diagram –</b>	
PTO Outlet	7	<b>Power Circuits</b>	<b>15</b>



## CAUTION



This symbol marks important instructions relating to your personal safety. To avoid the possibility of injury, read and follow such instructions carefully.

When the manual refers to the left or right side of the vehicle, it means your left and right when sitting in the driver's seat.

Product information and specifications are shown herein as of the time of printing. Wheel Horse Products, Inc. reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligation.

# TRACTOR SPECIFICATIONS:

**MOTOR:** 36 Volt DC Permanent Magnet Motor with Built-in-Thermal Overload Circuit Breaker

**BATTERIES:** 12 Volt Deep Discharge (Golf Cart Type)

Rated at: 90 Amp Hour – 20 Hour Rate; or 155 Minutes at 25 Amps.

## TRANSMISSION:

Type:	Mechanical, All Gear		
Number of Forward Speeds:	6		
Number of Reverse Speeds:	2		
Approximate Ground Speeds:	Gear	Low Range	High Range
	1st	.5 mph (.7 kph)	1.8 mph (2.9 kph)
	2nd	.7 mph (1.1 kph)	2.9 mph (4.7 kph)
	3rd	1.3 mph (2.0 kph)	5.0 mph (8.1 kph)
	Rev.	.5 mph (.9 kph)	2.4 mph (3.8 kph)

## ELECTRICAL SYSTEM:

Circuit Voltage:	Main – 36 Volt DC, Isolated Ground Lights – 12 Volt DC, Isolated Ground
Power Pack:	Six 12 volt batteries series connected as two sets of three, with the sets wired in parallel
Power Control:	Brain in a Box
Protection Devices:	Main Fuse (2) – 125 amp Open Link (Buss Type WEA) Secondary Fuse (2) – 3 amp AGC Light Fuse – 20 amp SFE Drive Motor – Internal Auto. Reset Thermal Circuit Breaker Charger/Accessory Circuit – 50 amp Manual Reset Circuit Breaker

## TIRES:

	Front	Rear
Size:	16 x 6.50-8	23 x 8.50-12
Pressure*:	12-24 PSI (.85-1.69 kg/cm <sup>2</sup> )	12-15 PSI (.85-1.05 kg/cm <sup>2</sup> )

## PHYSICAL DATA:

HEIGHT	LENGTH	WIDTH	WHEEL BASE	OUTSIDE TURNING RADIUS	OPERATIONAL WEIGHT
41.5 in. (105 cm)	69 in. (175 cm)	36 in. (92 cm)	45.5 in. (116 cm)	87 in. (221 cm)	805 lbs. (364 kg)

## LIQUID CAPACITIES:

Transmission:	2 qt. (1.9 l)
Batteries:	6 qt. (5.7 l) per Battery

## CHASSIS:

Zerk Fittings:	6
Front Wheel End Play:	0-.015 in. (.4 mm)

\*Tire pressures may be increased or decreased within the given range to maximize operator control and comfort.



# GENERAL SAFETY SUGGESTIONS

Recommended by Outdoor Power Equipment Institute

## SAFE OPERATION PRACTICES — RIDING VEHICLES

1. Know the controls and how to stop quickly — **READ THE OWNER'S MANUAL.**
2. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine (motor).
6. Disengage power to attachments and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine (motor) before making any repairs or adjustments.
8. Disengage power to attachments when transporting or not in use.
9. Take all possible precautions when leaving vehicle unattended; such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down the face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. Use care when pulling loads or using heavy equipment.
  - a. Use only approved drawbar hitch points.
  - b. Limit loads to those you can safely control.
  - c. Do not turn sharply. Use care when backing.
  - d. Use counterweight(s) or wheel weights when suggested in owner's manual.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. Handle gasoline with care — it is highly flammable.
  - A. Use approved gasoline container. Place container out of the reach of children.
  - B. Use gasoline only as a fuel — never as a cleaner. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline. And positively **NO SMOKING.**
  - C. Open doors if engine is run in garage — exhaust fumes are dangerous. Do not run engine (motor) indoors.
17. Keep vehicle and attachments in good operating condition and keep safety devices in place.
18. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
19. Never store equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark.
20. Allow engine to cool before storing in any enclosure.
21. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
22. Vehicle and attachments should be stopped and inspected for damage after striking a foreign object and the damage should be repaired before restarting and operating the equipment.
23. Do not change engine governor settings or over-speed engine.
24. When using vehicle with mower:
  - (1) Mow only in daylight or in good artificial light.
  - (2) Never make a cutting height adjustment while engine (motor) is running if operator must dismount to do so.
  - (3) Shut engine (motor) off when unclogging chute.
  - (4) Check blade mounting bolts for proper tightness at frequent intervals.
25. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.



## CAUTION



1. KEEP ALL SHIELDS IN PLACE.
2. BEFORE LEAVING OPERATOR'S POSITION:
  - A. SHIFT TRANSMISSION TO NEUTRAL
  - B. DISENGAGE AND LOWER ATTACHMENTS
  - C. SET PARKING BRAKE
  - D. SHUT OFF ENGINE (MOTORS)
  - E. REMOVE IGNITION KEY
3. KEEP PEOPLE AND PETS A SAFE DISTANCE AWAY FROM MACHINE.
4. WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING MACHINE.

