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MANUAL PREVIEW

Power King

Operator's Manual

1614, 1616, 1618,

2414, 2416 & 2418

S/n 52589 & up

Operator's Manual

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PK-OP-1614+

POWER KING **TRACTOR**

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Owners Manual

for

MODELS 2418, 2416, 2414,

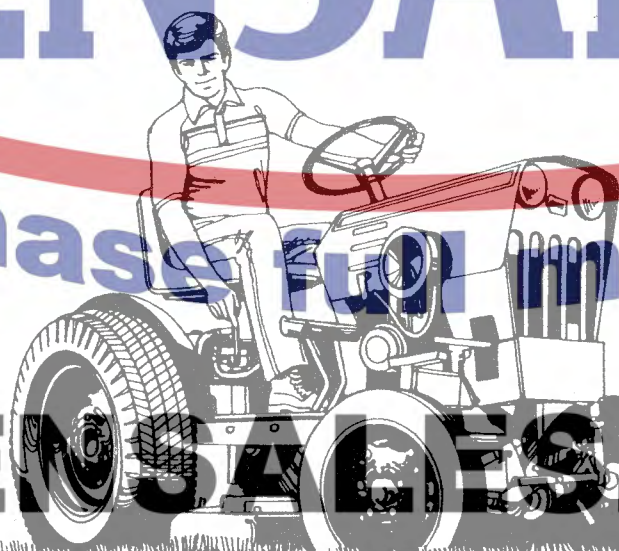
1618, 1616, and 1614

(after Serial Number 52589)

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ENGINEERING PRODUCTS CO., INC.

P.O. Box 1510, 2021 MacArthur Rd.

Waukesha, Wisconsin 53187

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A WORD TO THE OWNER

This manual contains operational and general maintenance instructions for the Power King Models 2418, 2416, 2414, 1618, 1616, and 1614. The operator should become thoroughly familiar with the operating and service procedures. Proper operation and careful attention to routine services and preventive maintenance are important factors in continuing satisfactory performance of the equipment.

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ATTENTION

Notice to customers in the State of California—The engine on this unit is **NOT** equipped with a spark arresting muffler.

Use of this equipment in grass, brush or forest land without a properly maintained and functioning exhaust spark arrester is in violation of California State Law Sect. 4442 PRC.

Record the unit model number and its serial number in the spaces provided on page 2 of this manual for future reference when ordering repair parts or identification if unit is lost or stolen.

Any references made in this manual concerning the right and left hand sides are determined by the direction the operator is facing when in the tractor's seat.

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SPECIFICATIONS (Continued)

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Models 1618, 1616 and 1614

Models 2418, 2416 and 2414

TIRES

Rear: Lug, 4 ply*	7.50-16 (29 ³ / ₄ " OD)	9.50-16 (32 ¹ / ₂ " OD)	8.00-16 (31 ¹ / ₄ " OD)	8.30-24 (38 ¹ / ₂ " OD)	8.30-24 (37 ¹ / ₄ " OD) 18 lbs.
Lawn, 2-ply*					
All-Weather, 4-ply*					
Air Pressure:	8 lbs.	8 lbs.	8 lbs.	18 lbs.	18 lbs.
Front: Implement, 4-ply*	4.00-12 (20 ¹ / ₄ " OD)	4.00-12 (20 ¹ / ₄ " OD)	4.00-12 (20 ¹ / ₄ " OD)	4.00-12 (20 ¹ / ₄ " OD)	4.00-12 (20 ¹ / ₄ " OD)
Air Pressure:	35 lbs.	35 lbs.	35 lbs.	35 lbs.	35 lbs.

DIMENSIONS

Length overall	93"	93"	93"	93"	93"
Wheelbase	54 ³ / ₈ "	54 ³ / ₈ "	54 ³ / ₈ "	54 ³ / ₈ "	54 ³ / ₈ "
Width	44 ¹ / ₈ "	44 ⁵ / ₈ "	44 ¹ / ₈ "	41 ¹ / ₂ "	41 ¹ / ₂ "
Tread, rear	35 ³ / ₄ "	35 ³ / ₄ "	35 ³ / ₄ "	33 ¹ / ₂ "	33 ¹ / ₂ "
Tread, front	35 ¹ / ₂ "	35 ¹ / ₂ "	35 ¹ / ₂ "	35 ¹ / ₂ "	35 ¹ / ₂ "
Tread adjustment, rear	+5 ¹ / ₂ "	+5 ¹ / ₂ "	+5 ¹ / ₂ "	+12 ³ / ₈ "	+12 ³ / ₈ "
Tread adjustment, front	+6"	+6"	+6"	+6"	+6"
Height at hood	40 ¹ / ₂ "	40 ¹ / ₂ "	40 ¹ / ₂ "	42 ³ / ₄ "	42 ³ / ₄ "
Height overall	51 ³ / ₄ "	52 ¹ / ₄ "	52 ¹ / ₈ "	54 ¹ / ₂ "	54 ¹ / ₄ "
Frame clearance	15 ³ / ₄ "	16 ¹ / ₄ "	16 ¹ / ₂ "	19 ³ / ₈ "	19 ³ / ₈ "

WEIGHT

Standard tractor	966 lbs.	1004 lbs.**	976 lbs.**	1029 lbs.**	1013 lbs.**
75% CaCl ₂ , rear tires	186 lbs.	266 lbs.	262 lbs.	264 lbs.	264 lbs.
75% CaCl ₂ , front tires	40 lbs.	40 lbs.	40 lbs.	40 lbs.	40 lbs.
Wheel weight, rear, pair	118 lbs.	118 lbs.	118 lbs.	216 lbs.	216 lbs.
Wheel weight, front, pair	47 lbs.	47 lbs.	47 lbs.	47 lbs.	47 lbs.

GEAR REDUCTION

Low & reverse***	176.5:1	176.5:1	176.5:1	176.5:1	176.5:1
Second***	92.3:1	92.3:1	92.3:1	92.3:1	92.3:1
High***	53.6:1	53.6:1	53.6:1	53.6:1	53.6:1

SPEEDS, MPH

Low & reverse	1.7	1.9	1.7	2.1	2.1
Second	3.2	3.5	3.3	4.1	4.0
High	5.1	5.7	5.6	7.1	6.8

* Ply shown in ply rating.

** For 18 hp models, add 7 pounds. For 16 hp models, subtract 12 pounds.

*** For maximum low-low with optional Tandem Transmission, multiply by 3.29.

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LUBRICATION

Refer to the lubrication chart for lubricants and service intervals. Always clean the exposed areas of the dipstick, filler plugs, grease fittings, and the areas around these parts before lubricating or checking lubrication.

ENGINE

The engine oil level must be maintained in the safe operating range between the low (L) and full (F) marks on the dipstick. Do not overfill. The oil level must not exceed the "F" mark.

ENGINE COOLING SYSTEM

The tractor engine is air cooled. Air is drawn into the cooling shroud by fins provided on the fly-wheel. To prevent the engine from overheating or burning out, the rotating air screen (fig. 10) and the cooling fins on the block and cylinder head must be kept clean and unobstructed at all times. To check this, proceed as follows:



Figure 10. Engine Air Screen and Shroud

1. Unlatch and lift hood.
2. Check the engine air screen and clean it if needed. A dirty screen will cause the engine to overheat.
3. Remove the engine shroud and clean the cooling fins on the engine. Replace the shroud.
4. Close and latch the hood.

SPARK PLUG

Check the condition of the spark plug and reset the gap every 100 hours. The gap gradually widens as the electrodes wear under normal conditions.

AIR CLEANER

A clogged air cleaner causes choking of the engine, decreases fuel efficiency and deposits unburned fuel in the combustion area. The air cleaner should be serviced daily and more often under dusty conditions.

FUEL SYSTEM

Check the fuel tank as follows:

1. Open the engine hood and clean the area around the fuel tank cap (fig. 11).
2. Check the fuel level.

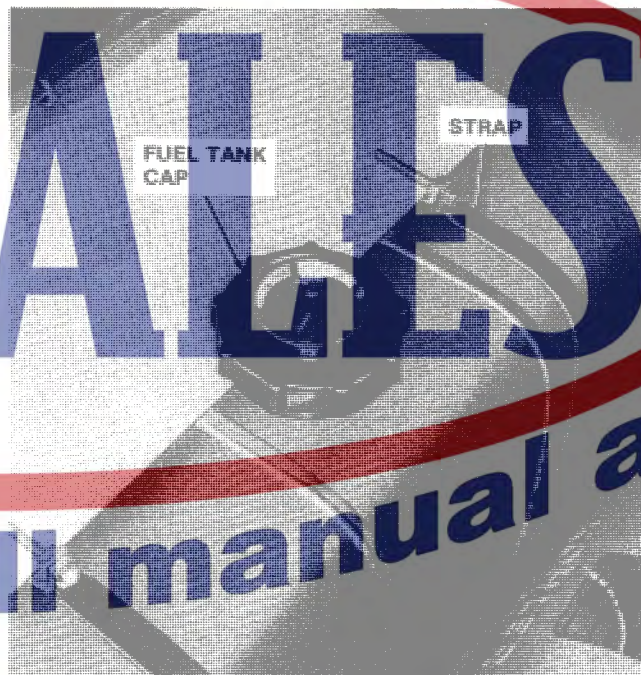


Figure 11. Fuel Tank Cap

CAUTION: Before adding fuel, allow engine to cool if it is extremely hot and turn off all electrical systems including headlights. Do not permit smoking in the area. Keep flames and sparks away from the area. Refuel in well ventilated area.

3. Add fuel as required taking care not to spill any gasoline on any electrical devices or connections. Use clean regular grade of leaded or non-leaded gasoline with an octane rating of at least 85. Do not add oil to the gasoline.
4. Wipe off any spilled fuel with rags. Allow spilled fuel and vapors to dissipate before turning on any portion of the electrical system or attempting to start the engine. Dry rags in a well ventilated area.

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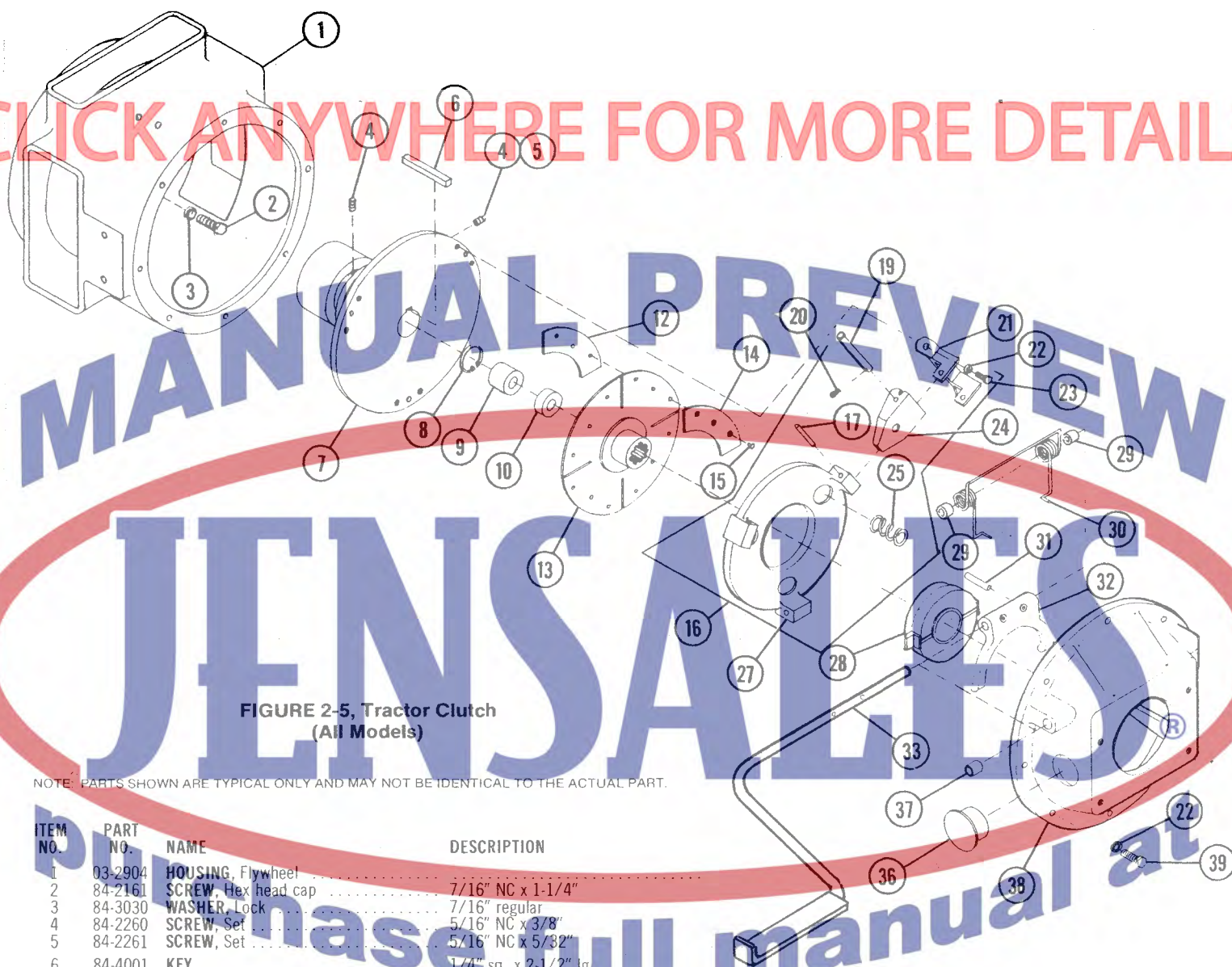


FIGURE 2-5, Tractor Clutch
(All Models)

NOTE: PARTS SHOWN ARE TYPICAL ONLY AND MAY NOT BE IDENTICAL TO THE ACTUAL PART.

ITEM NO.	PART NO.	NAME	DESCRIPTION
1	03-2904	HOUSING, Flywheel	
2	84-2161	SCREW, Hex head cap	7/16" NC x 1-1/4"
3	84-3030	WASHER, Lock	7/16" regular
4	84-2260	SCREW, Set	5/16" NC x 3/8"
5	84-2261	SCREW, Set	5/16" NC x 5/32"
6	84-4001	KEY	1/4" sq. x 2-1/2" lg.
(6)	84-4061	KEY	#15, Woodruff
7	09-4012	FLYWHEEL, 3-groove	1-1/8" bore
8	84-1125	RING, Snap	Int. 1-1/8"
9	80-0009	BUSHING, Flywheel	1-1/8" x 1/2" x 1/2" Kohler
10	82-0050	SEAL	5" I.D. x 1-1/8" O.D. x 3/8" Kohler

CLUTCH COMPONENTS ITEMS 12 THROUGH 28

12	09-9116	SEGMENT, Clutch, Friction	(thick)
13	09-9102	DISC, Clutch	(Includes items #12, 14, 15)
14	09-9117	SEGMENT, Clutch	(thin)
15	09-9105	RIVET, Clutch	
16	09-9103	PRESSURE PLATE ASSEMBLY	(Includes items 17-27)
17	09-9107	PIN, Pressure plate clutch	
19	09-9112	PIN, Clutch lever pivot	W/groove
20	09-9113	RING, Clutch pivot pin snap	
21	09-9110	BRACKET, Lever, Clutch release	
22	84-3010	WASHER, Lock	5/16" regular
23	84-2010	SCREW, Hex head cap	5/16" NF x 1/2"
24	09-9109	LEVER, Clutch release	
25	09-9106	SPRING, Clutch	1-1/4" lg.
27	09-9108	PLATE, Clutch	Casting only
28	09-9101	BEARING, Throwout	
29	83-0023	SPACER	5/8" x 33/64" x 3/8"
30	83-0017	SPRING, Double torsion	
31	84-4002	PIN, Drive	7/32" dia. x 1-1/4" lg.
32	03-7501	THROWOUT, Clutch	
33	03-7109	SHAFT, Clutch Pedal	20-1/4"
36	03-2903	PLUG, Housing, plastic	
37	80-0025	BUSHING	1/2" I.D. x 5/8" O.D. x 1/2" lg.
38	09-4016	HOUSING, Clutch	w/bushing
39	84-2030	SCREW, Hex head cap	5/16" NF x 7/8"

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