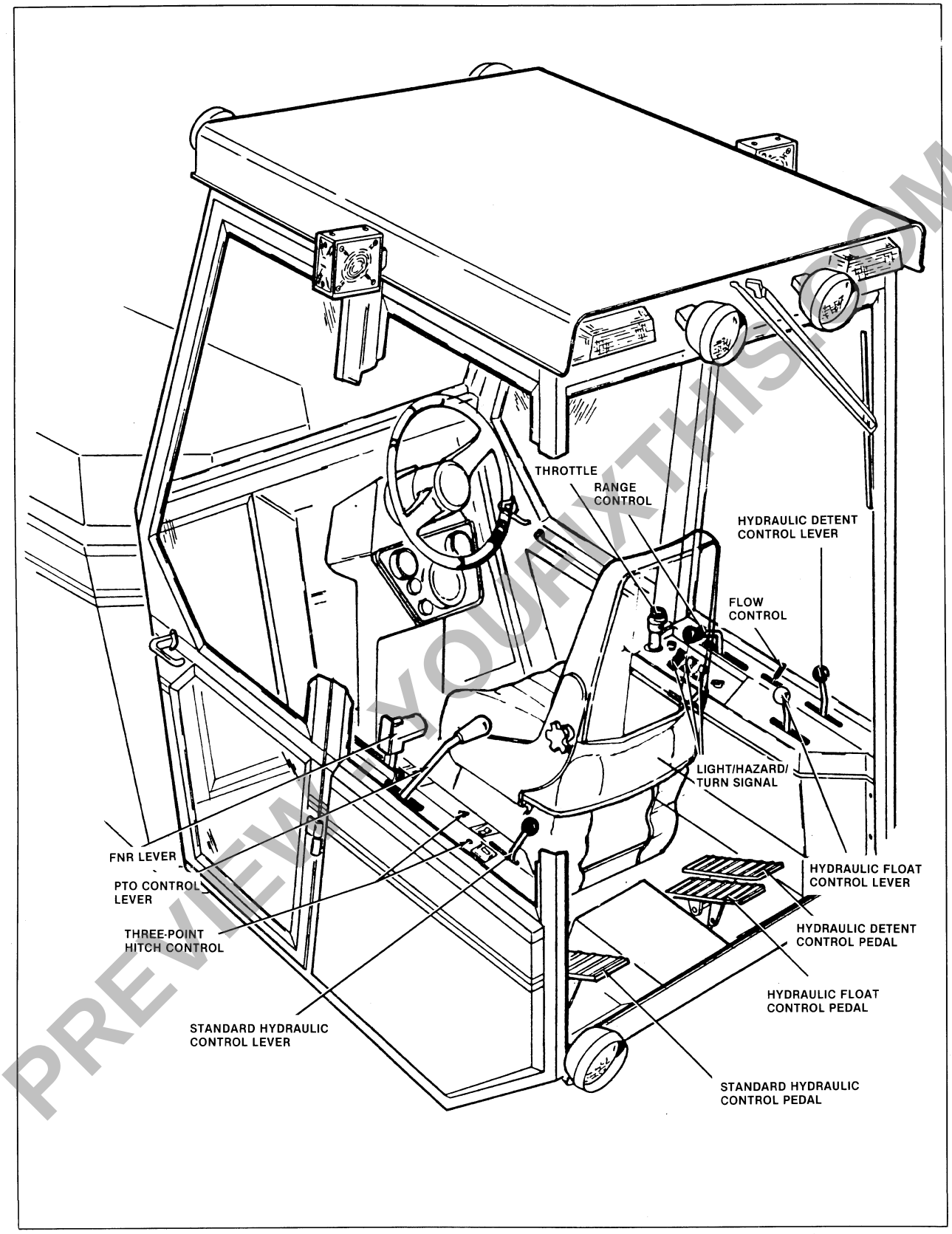


Cab Controls (Engine Forward Configuration)

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3 Lubrication and Maintenance

Service intervals recommended in this manual are based on operation under average conditions. When operating the tractor in severe heat, dust or humidity, service the tractor more frequently.

LUBRICATION AND MAINTENANCE CHART

	AS REQUIRED	DAILY (10 HOURS)	WEEKLY (50 HOURS)	100 HOURS	200 HOURS	400 HOURS	YEARLY (1 000 HOURS)	LUBRICANT[6]	NO. OF POINTS	LUBRICATION POINT[7]
Check engine oil level		•						A		
Check hydraulic/hydrostatic reservoir sight glass level		•								
Check radiator sight glass level		•								
Check PTO clutch/splitter box sight glass level		•								
Clean radiator, grill and oil cooler	•									
Check batteries					•					
Check air conditioner compressor belt tension					•					
Check transmission oil level					•					
Check differential oil level					•					
Check drop axle oil level					•					
Check brake fluid level					•			F		
Check PTO dropbox oil level					•					
Lubricate main drivelines					•			B	9	1
Lubricate steering cylinder pins				•				B	4	2
Lubricate frame pivots				•				B	2	3
Lubricate oscillating cradle pivots				•				B	2	4
Drain water separator		•								
Lubricate three-point hitch and rockshaft					•[1]			B	4	5
Lubricate PTO drivelines					•[1]			B	7	6
Lubricate window and door hinges	•							B	6	7
Clean air cleaner filters	•									
Check air cleaner tube connections			•							
Check air intake filters	•									
Change engine oil and filter			•[2]		•			A		
Change fuel and water separator filters					•					
Check alternator/fan/water pump belt							•			
Change hydraulic/hydrostatic oil filters					•					
Change coolant							•			
Change transmission oil			•[3]			•		C		
Change drop axle oil			•[3]			•		D	4	
Change PTO clutch/splitter box oil			•[3]			•		E		
Change PTO dropbox oil			•[3]			•		E		
Change hydraulic/hydrostatic oil							•	E		
Adjust parkbrake	•									
Adjust PTO clutch control	•									
Drain contamination from fuel tanks					•					
Check wheel bolt torque					•[4]					
Check clamp bolt torque					•[5]					
Torque axle mounting bolts					•					
Change air intake filters							•			
Check air conditioner moisture and level indicator	•									

1 **Lubricate more frequently under continuous use.**
2 **Change oil and filter after the first 50 hours of operation and every 200 hours thereafter.**
3 **Change oil after the first 50 hours of operation and every 400 hours thereafter.**
4 **Torque wheel bolts after the first half hour of operation and every 200 hours thereafter.**
5 **Torque clamp bolts every 10 hours until 50 hours, every 50 hours until 400 hours, and every 400 thereafter.**
6 **See Table 2, Lubricant Brand Equivalency Chart.**
7 **See Lubrication Points illustrations, following.**

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4 Troubleshooting

Engine

	No fuel/lift pump lever UP	Low idle speed	Overloaded engine/tractor	Loose belt	Linkage maladjusted	Improper coolant/oil	Incorrect/dirty fuel	Defective radiator/thermostat	Cold start malfunctioning	Low/defective battery	Fuel filter/lines plugged	Plugged air cleaner	Plugged radiator	Collapsed hose	Defective gauge	Defective/worn water pump	Air in fuel system	Leaking fuel lines	Improper injection pump timing	Worn/defective fuel pump	Worn/plugged/defective injectors	Incorrect valve adjustment	Defective turbocharger	Low compression/worn parts	Faulty fuel shutoff solenoid/wiring
Cranks, doesn't start	•										•							•	•	•	•				•
Hard to start/won't start			•				•		•	•		•					•		•		•	•			•
Starts then stalls		•	•				•										•			•					
Misfires							•										•	•	•		•	•		•	
Running hot			•	•		•		•					•	•	•	•			•						
Running too cold								•							•										
Low oil pressure						•									•									•	
Rough idle for warm engine		•															•		•	•	•				
Surges at idle		•									•						•			•					
Fuel knock			•				•										•		•		•				
Won't reach rated speed			•		•		•								•				•						
Low power			•		•	•	•				•	•					•		•		•	•	•		
Excessive smoke under load								•				•					•		•		•		•		

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6 Specifications and Schematics

AIR CLEANER

Type . . . . . Dual element, dry type with dump valve, air intake restriction gauge

AIR CONDITIONER

Charge . . . . . 2.5 kg (5 lb 8 oz)

Oil Level . . . . . 200 mL (7 oz)

AXLES

Type . . . . . Hypoid differential with outboard drop axle final drive

Differential Ratio 3.73:1

Lubrication . . . . . SAE 80W90 GL5

Oil Capacity
Differential . . . . . 2.3 L (2.4 qt US)
Drop Axle . . . . . 1.7 L (1.8 qt US)

Drop Axle Ratio 3.18:1

Total Ratio 11.68:1

BRAKES

Type . . . . . 305 mm (12 in.) disc and caliper self-adjusting, driveline mounted

Meets or Exceeds . . . . . ASAE S 365T (SAE J1041)

Caliper . . . . . Single piston, floating hydraulically actuated by pedal

Parkbrake . . . . . Integral with road brake, self-adjusting, actuated by over-center lever

CAB

Type . . . . . Independent module type with rollover protective structure (ROPS ASAE S383)

Seat Belt . . . . . SAE J141, SAE J385

CAPACITIES

Cooling System . . . . . 22 L (22.6 qt US)

Differentials (each) . . . . . 2.3 L (2.4 qt US)

Drop Axles (each) . . . . . 1.7 L (1.8 qt US)

Engine Crankcase (with filter) . . . . 9.5 L (10 qt US)

Fuel Tanks . . . . . 148 L (39 gal US)

Hydraulic/Hydrostatic System . . 32 L (8.5 gal US)

PTO Dropbox . . . . . 2 L (2 qt US)

PTO Clutch/Splitter Box . . . . . 3.0 L (3 qt US)

Transmission . . . . . 8.7 L (9 qt US)

CLUTCH (PTO)

Type . . . . . 152 mm (6 in.) 7-plate wet type, safety start switch

COOLING SYSTEM

Capacity . . . . . 22 L (22.6 qt US)

Radiator . . . . . 3 426 cm^2 (1 531 $in.^2$)

Fan . . . . 500 mm (20 in.) dia, 6-blade sucker type, belt driven

Pressure Cap . . . . . 48 kPa (7 psi)

DIMENSIONS

Wheelbase . . . . . 2 185 mm (86 in.)

Overall Length . . . . . 4 039 mm (159 in.)

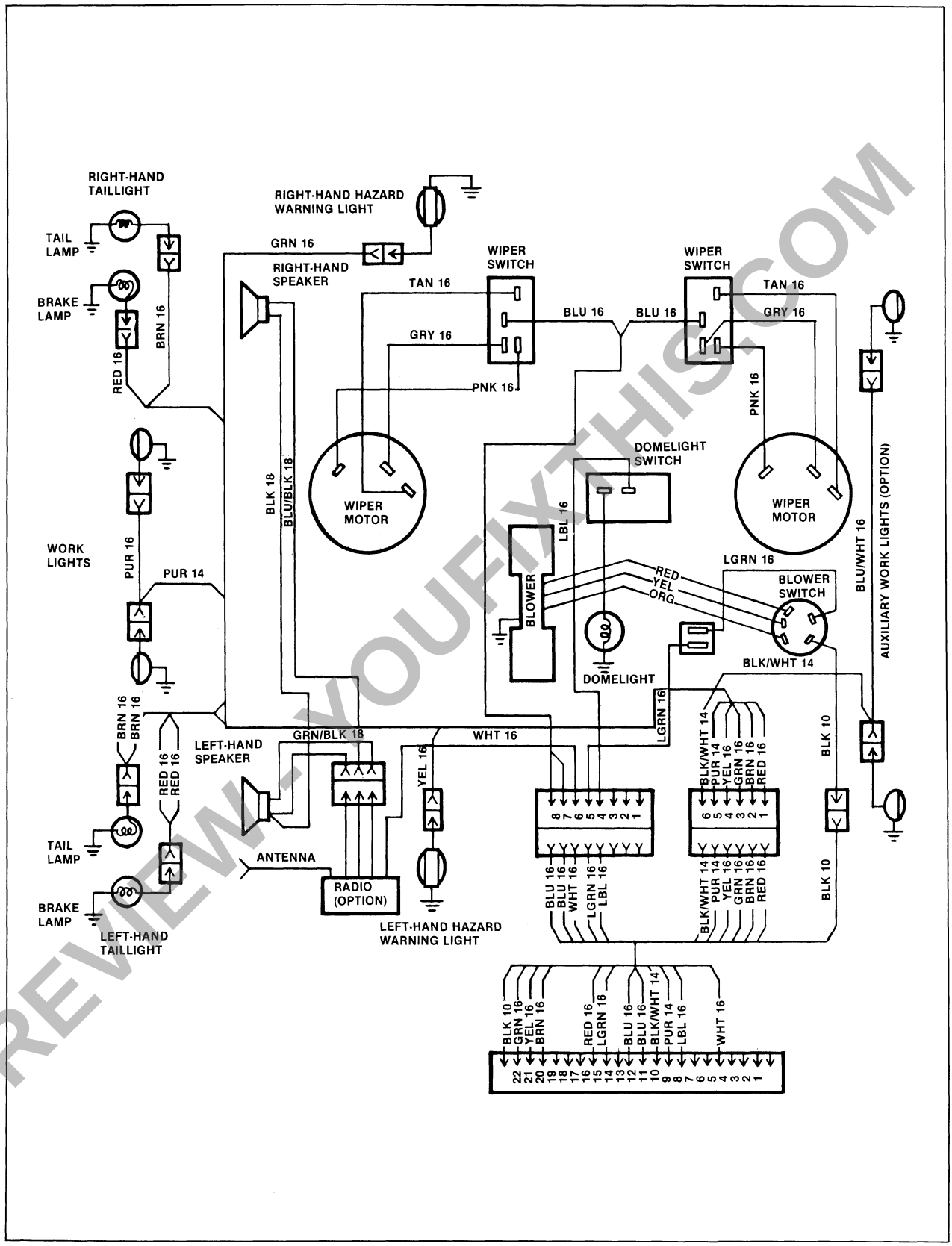
Overall Height . . . . . 2 839 mm (112 in.)

Cab Width . . . . . 1 150 mm (44.85 in.)

Ground Clearances (with 16.9 × 28 R1 Tires)
Drop Axle Bottom . . . . . 533 mm (21 in.)
Differential . . . . . 660 mm (26 in.)
Articulation Pins . . . . . 622 mm (24.5 in.)

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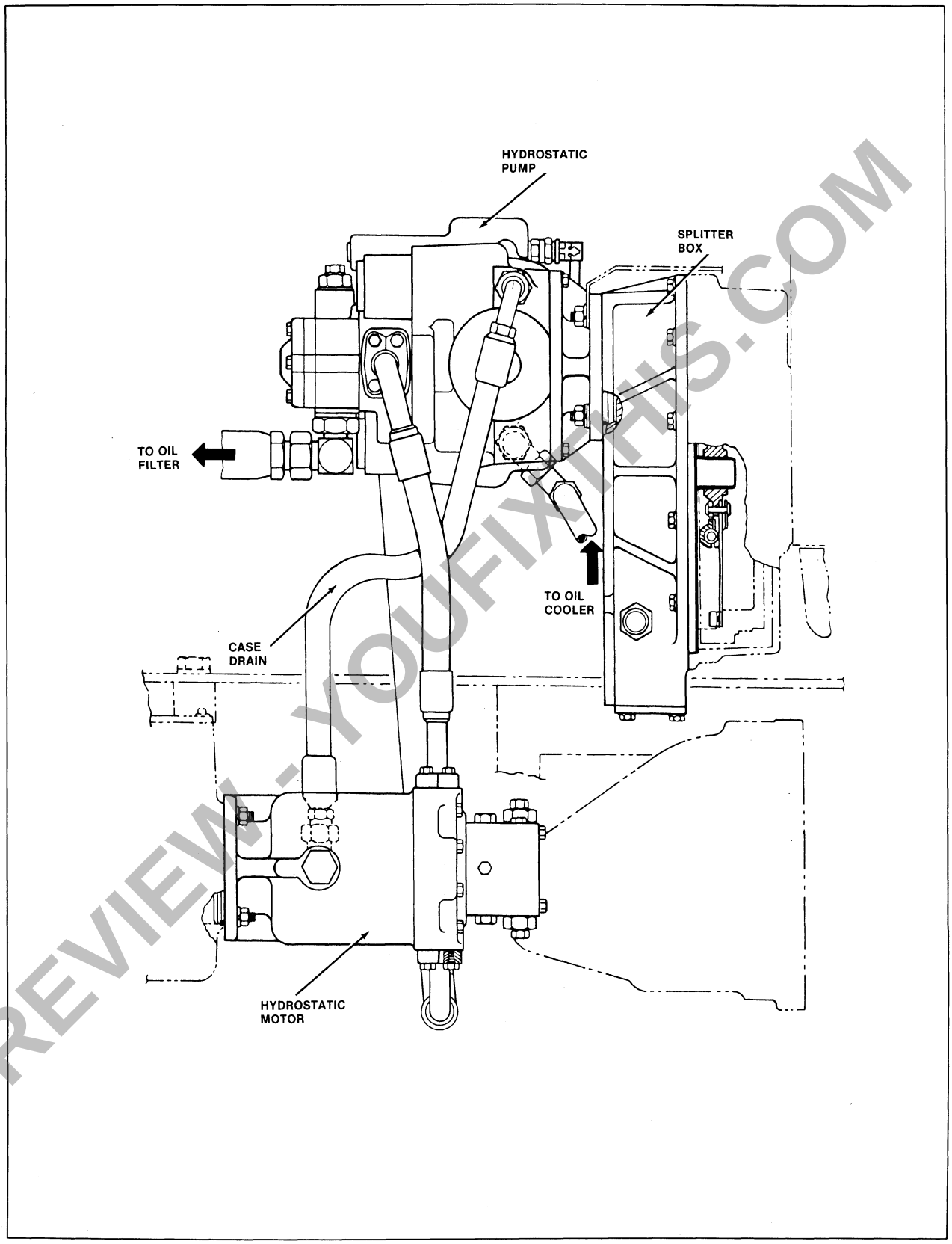
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Roof Wiring Schematic

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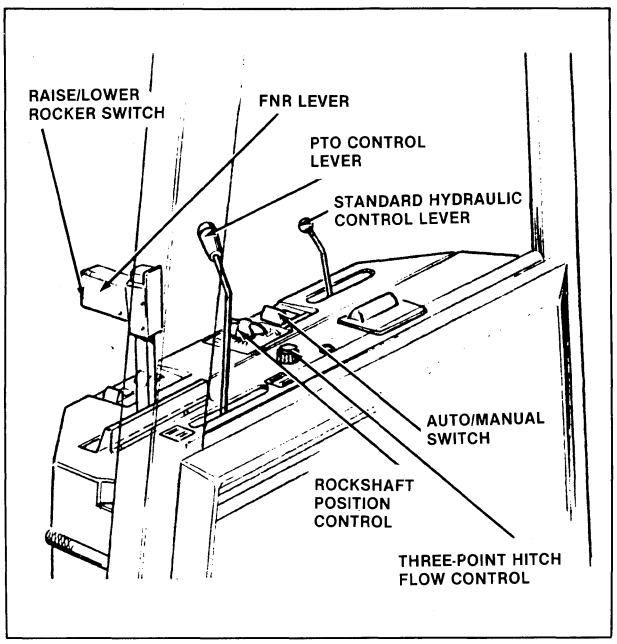
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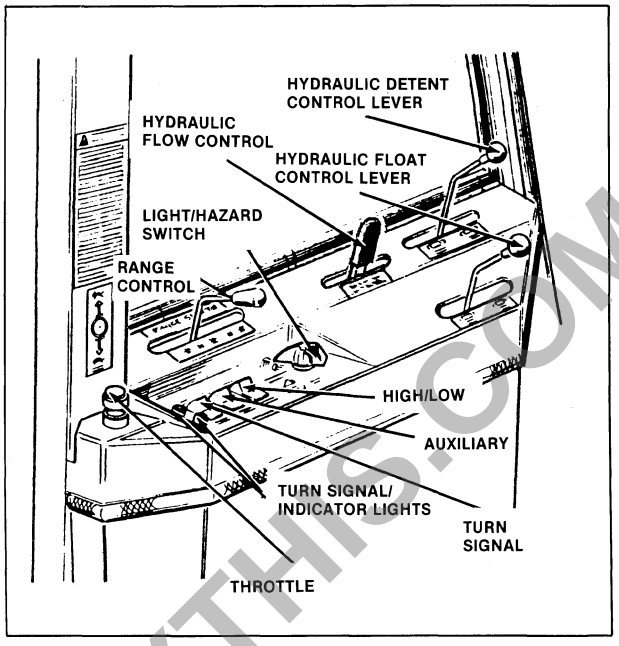
Hydrostatic System Schematic

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Cab Left-Hand Side



Cab Right-Hand Side

CAB RIGHT-HAND SIDE

Throttle: Depress button and pull knob UP to increase engine speed; depress button and push knob DOWN to decrease. Fine adjust by turning knob.

Light/Hazard Switch: Controls turn signal, auxiliary lights and high/low beam. The lights operate independently of the key. Rotate clockwise through five positions:

1. Off
2. Hazard warning lights and dashlights
3. Hazard warning lights, taillights, front work lamps, dashlights
4. Hazard warning lights, front work lamps, rear work lamps, dashlights
5. Front work lamps, rear work lamps, dashlights

High/Low: Press rocker switch to actuate high/low beam on front work lamps.

Auxiliary (Option): Press rocker switch for auxiliary work lamps.

Turn Signal Indicator Lights: Put lightswitch in second position and move paddle switch left or right to indicate turn.

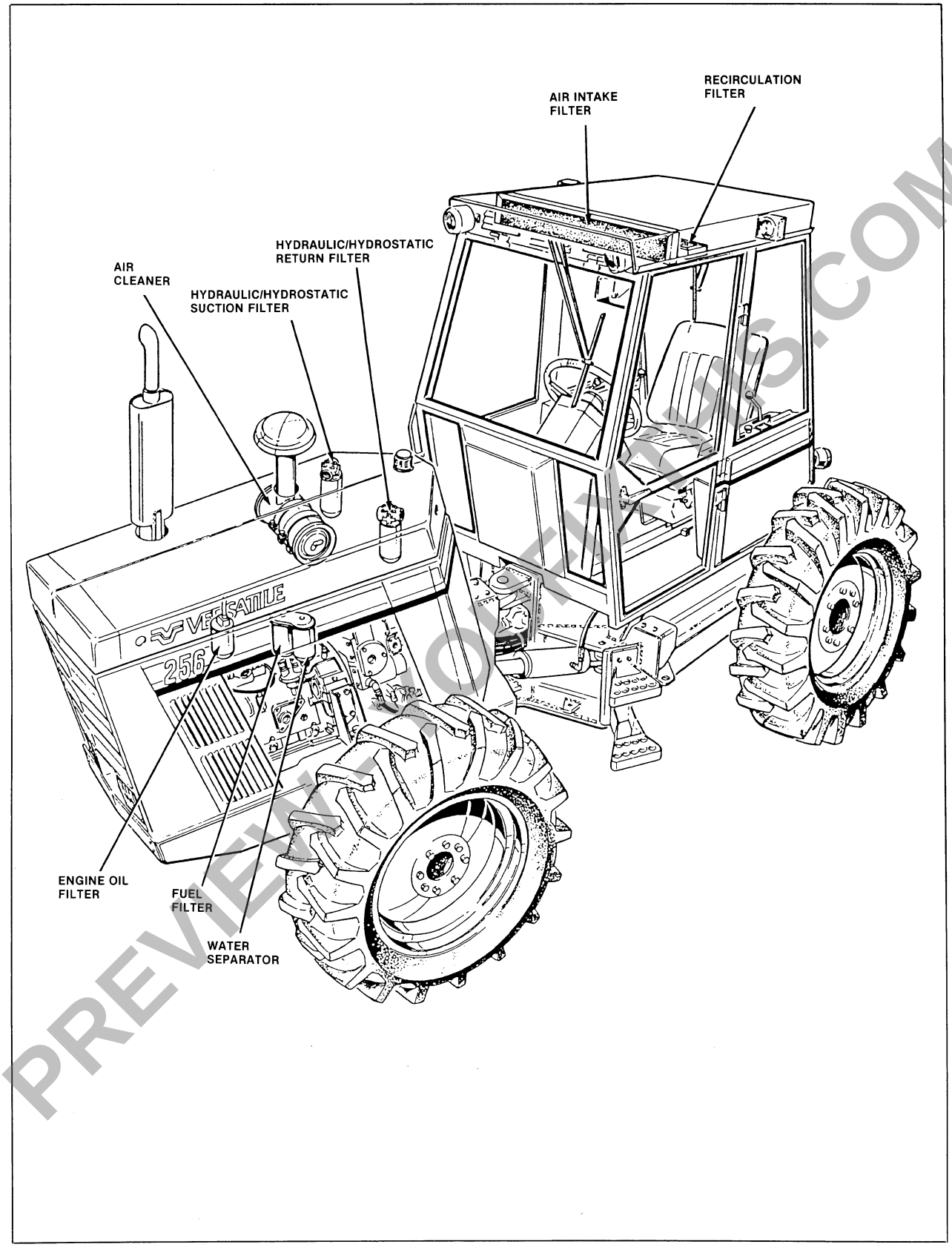
Range Control: Provides neutral, first, second and third ranges.

Hydraulic Detent Control: Push blue lever away from operator to lower implement and manually return lever to neutral to stop. Lever will automatically return to neutral when lowering limit is reached. Pull lever toward operator to raise implement and release to return to neutral. Use control pedal in engine rear configuration.

Hydraulic Float Control: Push tan lever away from operator to lower implement; push to furthest position for float. Pull lever toward operator to raise implement. Use control pedal in engine rear configuration.

Hydraulic Flow Control: Push small blue lever away from operator to increase implement speed; pull toward operator to decrease. Operative only when hydraulic detent control is used.

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