

SECTION 3 PREVENTIVE MAINTENANCE

3-1. GENERAL

3-1.1 This section provides basic preventive maintenance and specific lubrication information for the Series 2000 tractors and decks covered in this manual. Refer to the appropriate Tables 3-1 through 3-14 and Figures 3-1 through 3-9.

LUBRICATION GUIDE



WARNING

The service life and reliability of any machine depends upon the care it is given. Proper lubrication is a very important part of that care. The lubrication schedules provided in this section reflect the minimal requirements to maintain the equipment. More frequent inspections and maintenance is preferable.

Using the lubrication illustrations (Figures 3-1 through 3-9) as a guide, make certain that all lubrication fittings are installed and functioning.

Be sure all fittings are free from dirt and paint so the lubricant is certain to enter the bearing.

Using a pressure lubricating gun, always force the lubricant through the full length of each bearing until it emerges at the end, carrying with it the worn lubricant and any dirt that may have entered the bearing.

Miscellaneous working parts not provided with lubrication fittings should be oiled regularly with a good grade of lubricating oil.

Always lubricate the tractor thoroughly before taking it to a remote location for a prolonged period of time.

Lubricant is cheap. Use plenty of it. Worn parts can be expensive to replace.

Keep your supply of lubricating oil and grease stored in clean containers, and covered to protect from dust and dirt.

Keep the lubricating gun nozzle clean and wipe dirt from the grease fittings before lubricating.

The symbols in the illustrations indicate the method of application and the hourly intervals to apply the lubricant.



Use a pressure lubricating gun and apply 251H EP grease (or equivalent No. 2 multi-purpose lithium grease) sufficient to flush out the old grease and dirt. Lubricate at the hourly intervals indicated on the symbols.



Dipstick, use to check engine and transmission oil before each use.

Table 3-1. Model 2130 Maintenance

Operation to be performed	Before each use	10 hours or once a month	30 hours or three times a season	50 hours or twice a season	100 hours or yearly	Before storage
Clean grille, engine air inlet screen, dash intake screen and side panel screens		More often under dirty conditions X				
Check engine oil level	X					
Fill fuel tank	X					
Change engine oil & oil filter	After first 5 hours				More often under dirty conditions X	
Check transmisson oil level	X					
Clean & re-oil foam air precleaner		X				
Check battery electrolyte level		X				
Grease front axle pivot bolt		X				
Grease steering knuckles		X				
Retorque rear wheel lug nuts		After first 10 hours X				
Clean cooling fins & external surfaces			X			
Service air cleaner paper cartridge					More often under dirty conditions	
Check spark plug					X	X
Grease steering gear housing			X			
Grease front wheel bearings			X			X
Drain fuel						X
Pivot bar adjustment bolts				X		
Deck spindles				X		
Spindle belt idler arm				X		
Lubricate all foot and lift control pivot points		X				



Maintenance information for optional equipment may be found in the manual which is included with that specific piece of equipment.

Table 3-2. Model 2130 Lubrication

Point of Lubrication	Check at Hours	Change at Hours	Capacity	Anticipated Air Temperature	
				Above + 32°F	Below + 32°F
Engine crankcase	Check before each use	100	Approx. 4 pints	<i>Cub Cadet</i> Engine Oil SAE 10W30 or 10W40	<i>Cub Cadet</i> Engine Oil SAE 5W20 or 5W30
Six speed transaxle and clutch assembly	Check before each use	Add as needed	Approx. 6 qts.	<i>Cub Cadet</i> Drive System Oil NOTE: <i>Cub Cadet</i> Drive System Oil is specially formulated for this application. If any other oil is used <i>Cub Cadet</i> will not be responsible for substandard performance. Failures due to use of improper fluid are not covered by warranty. For maximum protection, use <i>Cub Cadet</i> Drive System Oil.	
Steering knuckles and front axle pivot bolt	10			Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease and apply two strokes (minimum) or sufficient grease to flush out old grease and dirt.	
Front wheel bearings	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Steering gear housing	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Deck spindles	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Spindle belt idler arm	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Foot and lift control pivot points	10			Use a liberal amount of high grade lubricating oil.	

**CHECK OIL LEVEL
BEFORE EACH USE**



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Table 3-3. Model 2135 Maintenance

Operation to be performed	Before each use	10 hours or once a month	30 hours or three times a season	50 hours or twice a season	100 hours or yearly	Before storage
Clean grille, engine air inlet screen, dash intake screen and side panel screens		More often under dirty conditions X				
Check engine oil level	X					
Fill fuel tank	X					
Change engine oil & oil filter	After first 5 hours				More often under dirty conditions X	
Check transmisson oil level	X					
Replace transmisson oil filter		After first 10 hours X		After first 50 hours X	Every 100 hours thereafter X	
Clean & re-oil foam air precleaner		X				
Check battery electrolyte level		X				
Grease front axle pivot bolt		X				
Grease steering knuckles		X				
Retorque rear wheel lug nuts		After first 10 hours X				
Clean cooling fins & external surfaces			X			
Service air cleaner paper cartridge					More often under dirty conditions	
Check spark plug					X	X
Grease steering gear housing			X			
Grease front wheel bearings			X			X
Drain fuel						X
Pivot bar adjustment bolts				X		
Deck spindles				X		
Spindle belt idler arm				X		
Lubricate all foot and lift control pivot points		X				



Maintenance information for optional equipment may be found in the manual which is included with that specific piece of equipment.

Table 3-4. Model 2135 Lubrication

Point of Lubrication	Check at Hours	Change at Hours	Capacity	Anticipated Air Temperature	
				Above + 32°F	Below + 32°F
Engine crankcase	Check before each use	100	Approx. 4 pints	<i>Cub Cadet</i> Engine Oil SAE 10W30 or 10W40	<i>Cub Cadet</i> Engine Oil SAE 5W20 or 5W30
Hydro transmission and transaxle with filter	Check before each use	Add as needed	Approx. 6 qts.	<i>Cub Cadet</i> Drive System Oil NOTE: <i>Cub Cadet</i> Drive System Oil is specially formulated for this application. If any other oil is used <i>Cub Cadet</i> will not be responsible for substandard performance. Failures due to use of improper fluid are not covered by warranty. For maximum protection, use <i>Cub Cadet</i> Drive System Oil.	
Steering knuckles and front axle pivot bolt	10			Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease and apply two strokes (minimum) or sufficient grease to flush out old grease and dirt.	
Front wheel bearings	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Steering gear housing	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Deck spindles	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Spindle belt idler arm	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Foot and lift control pivot points	10			Use a liberal amount of high grade lubricating oil.	

**CHECK OIL LEVEL
BEFORE EACH USE**

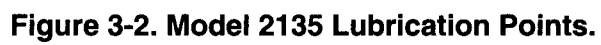


Table 3-5. Model 2140 Maintenance

Operation to be performed	Before each use	10 hours or once a month	30 hours or three times a season	50 hours or twice a season	100 hours or yearly	Before storage
Clean grille, engine air inlet screen, dash intake screen and side panel screens		More often under dirty conditions X				
Check engine oil level	X					
Fill fuel tank	X					
Change engine oil & oil filter	After first 25 hours				More often under dirty conditions X	
Check valve clearance	After first 25 hours					
Check transmisson oil level	X					
Clean & re-oil foam (air filter) wrapper		X				
Check battery electrolyte level		X				
Grease front axle pivot bolt		X				
Grease steering knuckles		X				
Retorque rear wheel lug nuts		After first 10 hours X				
Clean cooling fins & external surfaces			X			
Service air cleaner paper cartridge					More often under dirty conditions	
Check spark plug					X	X
Grease steering gear housing			X			
Grease front wheel bearings			X			X
Drain fuel						X
Pivot bar adjustment bolts				X		
Deck spindles				X		
Spindle belt idler arm				X		
Lubricate all foot and lift control pivot points		X				

 NOTE

Maintenance information for optional equipment may be found in the manual which is included with that specific piece of equipment.

Table 3-6. Model 2140 Lubrication

Point of Lubrication	Check at Hours	Change at Hours	Capacity	Anticipated Air Temperature		
				Above +30°F	0° to +30°F	Below 0°F
Engine crankcase	Check before each use	100	Approx. 2 pints	<i>Cub Cadet</i> Engine Oil SAE 30	<i>Cub Cadet</i> Engine Oil SAE 5W30 or 10W30	<i>Cub Cadet</i> Engine Oil SAE 5W20 or 5W30
Six speed transaxle and clutch assembly	Check before each use	Add as needed	Approx. 6 qts.	<i>Cub Cadet</i> Drive System Oil NOTE: <i>Cub Cadet</i> Drive System Oil is specially formulated for this application. If any other oil is used <i>Cub Cadet</i> will not be responsible for substandard performance. Failures due to use of improper fluid are not covered by warranty. For maximum protection, use <i>Cub Cadet</i> Drive System Oil.		
Steering knuckles and front axle pivot bolt	10			Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease and apply two strokes (minimum) or sufficient grease to flush out old grease and dirt.		
Front wheel bearings	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Steering gear housing	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Deck spindles	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Spindle belt idler arm	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Foot and lift control pivot points	10			Use a liberal amount of high grade lubricating oil.		

**CHECK OIL LEVEL
BEFORE EACH USE**



**CHECK OIL
LEVEL BEFORE
EACH USE**

Table 3-7. Model 2145 Maintenance

Operation to be performed	Before each use	10 hours or once a month	30 hours or three times a season	50 hours or twice a season	100 hours or yearly	Before storage
Clean grille, engine air inlet screen, dash intake screen and side panel screens		More often under dirty conditions X				
Check engine oil level	X					
Fill fuel tank	X					
Change engine oil & oil filter	After first 25 hours				More often under dirty conditions X	
Check valve clearance	After first 25 hours					
Check transmisson oil level	X					
Replace transmisson oil filter		After first 10 hours X		After first 50 hours X	Every 100 hours thereafter X	
Clean & re-oil foam (air filter) wrapper		X				
Check battery electrolyte level		X				
Grease front axle pivot bolt		X				
Grease steering knuckles		X				
Retorque rear wheel lug nuts		After first 10 hours X				
Clean cooling fins & external surfaces			X			
Service air cleaner paper cartridge					More often under dirty conditions	
Check spark plug					X	X
Grease steering gear housing			X			
Grease front wheel bearings			X			X
Drain fuel						X
Pivot bar adjustment bolts				X		
Deck spindles				X		
Spindle belt idler arm				X		
Lubricate all foot and lift control pivot points		X				



Maintenance information for optional equipment may be found in the manual which is included with that specific piece of equipment.

Table 3-8. Model 2145 Lubrication

Point of Lubrication	Check at Hours	Change at Hours	Capacity	Anticipated Air Temperature		
				Above +30°F	0° to +30°F	Below 0°F
Engine crankcase	Check before each use	100	Approx. 2 pints	<i>Cub Cadet</i> Engine Oil SAE 30	<i>Cub Cadet</i> Engine Oil SAE 5W30 or 10W30	<i>Cub Cadet</i> Engine Oil SAE 5W20 or 5W30
Hydro transmission and transaxle with filter	Check before each use	Add as needed	Approx. 6 qts.	<i>Cub Cadet</i> Drive System Oil NOTE: <i>Cub Cadet</i> Drive System Oil is specially formulated for this application. If any other oil is used <i>Cub Cadet</i> will not be responsible for substandard performance. Failures due to use of improper fluid are not covered by warranty. For maximum protection, use <i>Cub Cadet</i> Drive System Oil.		
Steering knuckles and front axle pivot bolt	10			Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease and apply two strokes (minimum) or sufficient grease to flush out old grease and dirt.		
Front wheel bearings	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Steering gear housing	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Deck spindles	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Spindle belt idler arm	50			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Foot and lift control pivot points	10			Use a liberal amount of high grade lubricating oil.		

**CHECK OIL LEVEL
BEFORE EACH USE**

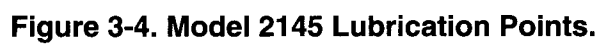


Table 3-9. Model 2160 Maintenance

Operation to be performed	Before each use	10 hours or once a month	30 hours or three times a season	50 hours or twice a season	100 hours or yearly	Before storage
Clean grille, engine air inlet screen, dash intake screen and side panel screens		More often under dirty conditions X				
Check engine oil level	X					
Fill fuel tank	X					
Change engine oil & oil filter	After first 5 hours			More often under dirty conditions X		
Check transmission oil level	X					
Clean & re-oil foam air precleaner		X				
Check battery electrolyte level		X				
Grease front axle pivot bolt		X				
Grease steering knuckles		X				
Retorque rear wheel lug nuts		After first 10 hours X				
Clean cooling fins & external surfaces			X			
Service air cleaner paper cartridge					More often under dirty conditions	
Check spark plugs					X	X
Grease steering gear housing			X			
Grease front wheel bearings			X			X
Drain fuel						X
Pivot bar adjustment bolts				X		
Lubricate all foot and lift control pivot points		X				

 NOTE

Maintenance information for optional equipment may be found in the manual which is included with that specific piece of equipment.

Table 3-10. Model 2160 Lubrication

Point of Lubrication	Check at Hours	Change at Hours	Capacity	Anticipated Air Temperature		
				Above +40°F	0° to + 40°F	Below 0°F
Engine crankcase	Check before each use	50	Approx. 3 pints 8 ounces	<i>Cub Cadet</i> Engine Oil SAE 30	<i>Cub Cadet</i> Engine Oil SAE 5W30 or 10W30	<i>Cub Cadet</i> Engine Oil SAE 5W20 or 5W30
Six speed transaxle and clutch assembly	Check before each use	Add as needed	Approx. 6 qts.	<i>Cub Cadet</i> Drive System Oil NOTE: <i>Cub Cadet</i> Drive System Oil is specially formulated for this application. If any other oil is used <i>Cub Cadet</i> will not be responsible for substandard performance. Failures due to use of improper fluid are not covered by warranty. For maximum protection, use <i>Cub Cadet</i> Drive System Oil.		
Steering knuckles and front axle pivot bolt	10			Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease and apply two strokes (minimum) or sufficient grease to flush out old grease and dirt.		
Front wheel bearings	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Steering gear housing	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Foot and lift control pivot points	10			Use a liberal amount of high grade lubricating oil.		

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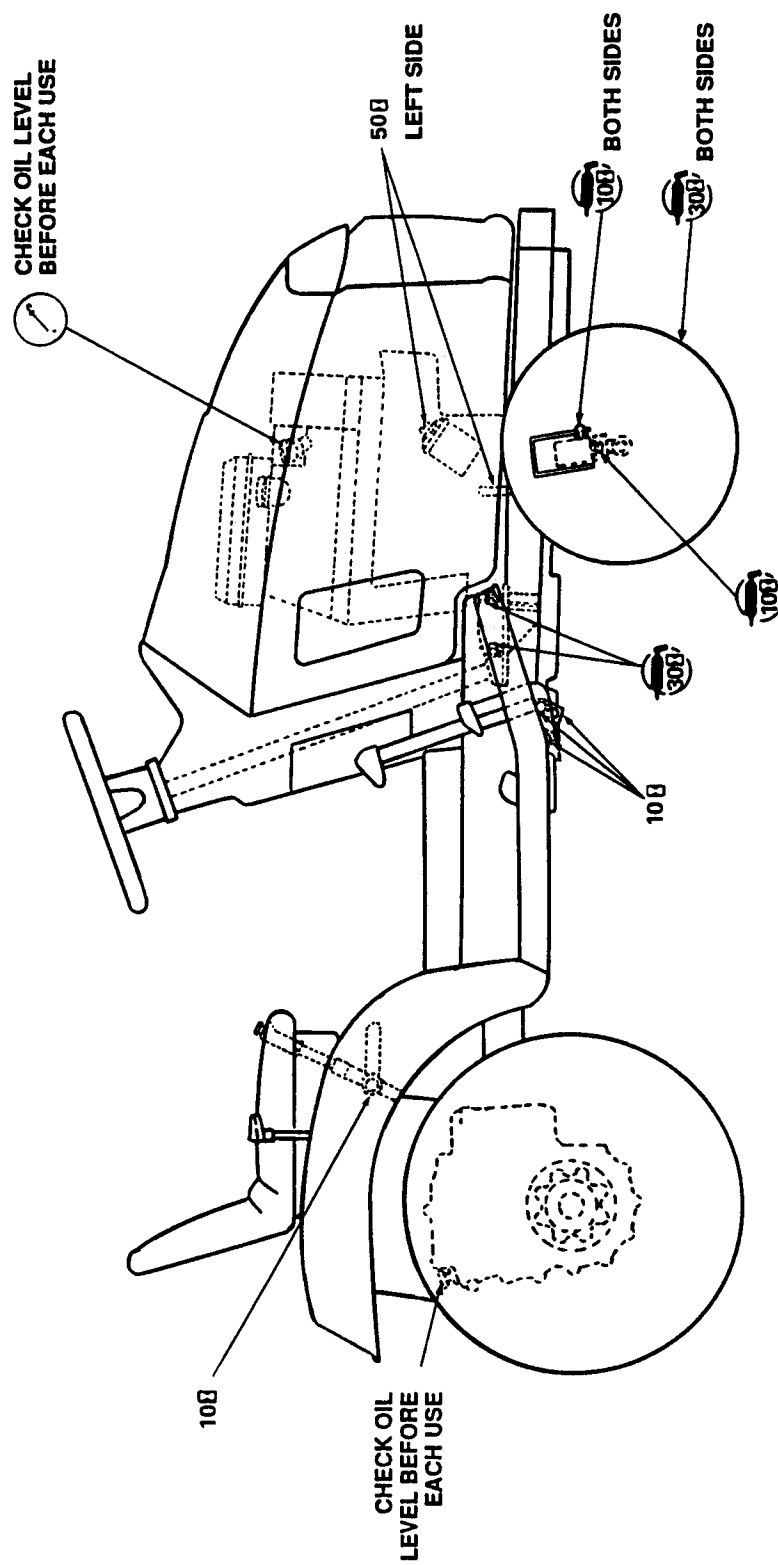


Figure 3-5. Model 2160 Lubrication Points.

Table 3-11. Model 2165 Maintenance

Operation to be performed	Before each use	10 hours or once a month	30 hours or three times a season	50 hours or twice a season	100 hours or yearly	Before storage
Clean grille, engine air inlet screen, dash intake screen and side panel screens		More often under dirty conditions X				
Check engine oil level	X					
Fill fuel tank	X					
Change engine oil & oil filter	After first 5 hours			More often under dirty conditions X		
Check transmisson oil level	X					
Replace transmisson oil filter		After first 10 hours X		After first 50 hours X	Every 100 hours thereafter X	
Clean & re-oil foam air precleaner		X				
Check battery electrolyte level		X				
Grease front axle pivot bolt		X				
Grease steering knuckles		X				
Retorque rear wheel lug nuts		After first 10 hours X				
Clean cooling fins & external surfaces			X			
Service air cleaner paper cartridge					More often under dirty conditions	
Check spark plugs					X	X
Grease steering gear housing			X			
Grease front wheel bearings			X			X
Drain fuel						X
Pivot bar adjustment bolts				X		
Lubricate all foot and lift control pivot points		X				

 NOTE

Maintenance information for optional equipment may be found in the manual which is included with that specific piece of equipment.

Table 3-12. Model 2165 Lubrication

Point of Lubrication	Check at Hours	Change at Hours	Capacity	Anticipated Air Temperature		
				Above +40°F	0° to + 40°F	Below 0°F
Engine crankcase	Check before each use	50	Approx. 3 pints 8 ounces	<i>Cub Cadet</i> Engine Oil SAE 30	<i>Cub Cadet</i> Engine Oil SAE 5W30 or 10W30	<i>Cub Cadet</i> Engine Oil SAE 5W20 or 5W30
Hydro transmission and transaxle with filter	Check before each use	Add as needed	Approx. 6 qts.	<i>Cub Cadet</i> Drive System Oil NOTE: <i>Cub Cadet</i> Drive System Oil is specially formulated for this application. If any other oil is used <i>Cub Cadet</i> will not be responsible for substandard performance. Failures due to use of improper fluid are not covered by warranty. For maximum protection, use <i>Cub Cadet</i> Drive System Oil.		
Steering knuckles and front axle pivot bolt	10			Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease and apply two strokes (minimum) or sufficient grease to flush out old grease and dirt.		
Front wheel bearings	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Steering gear housing	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.		
Foot and lift control pivot points	10			Use a liberal amount of high grade lubricating oil.		

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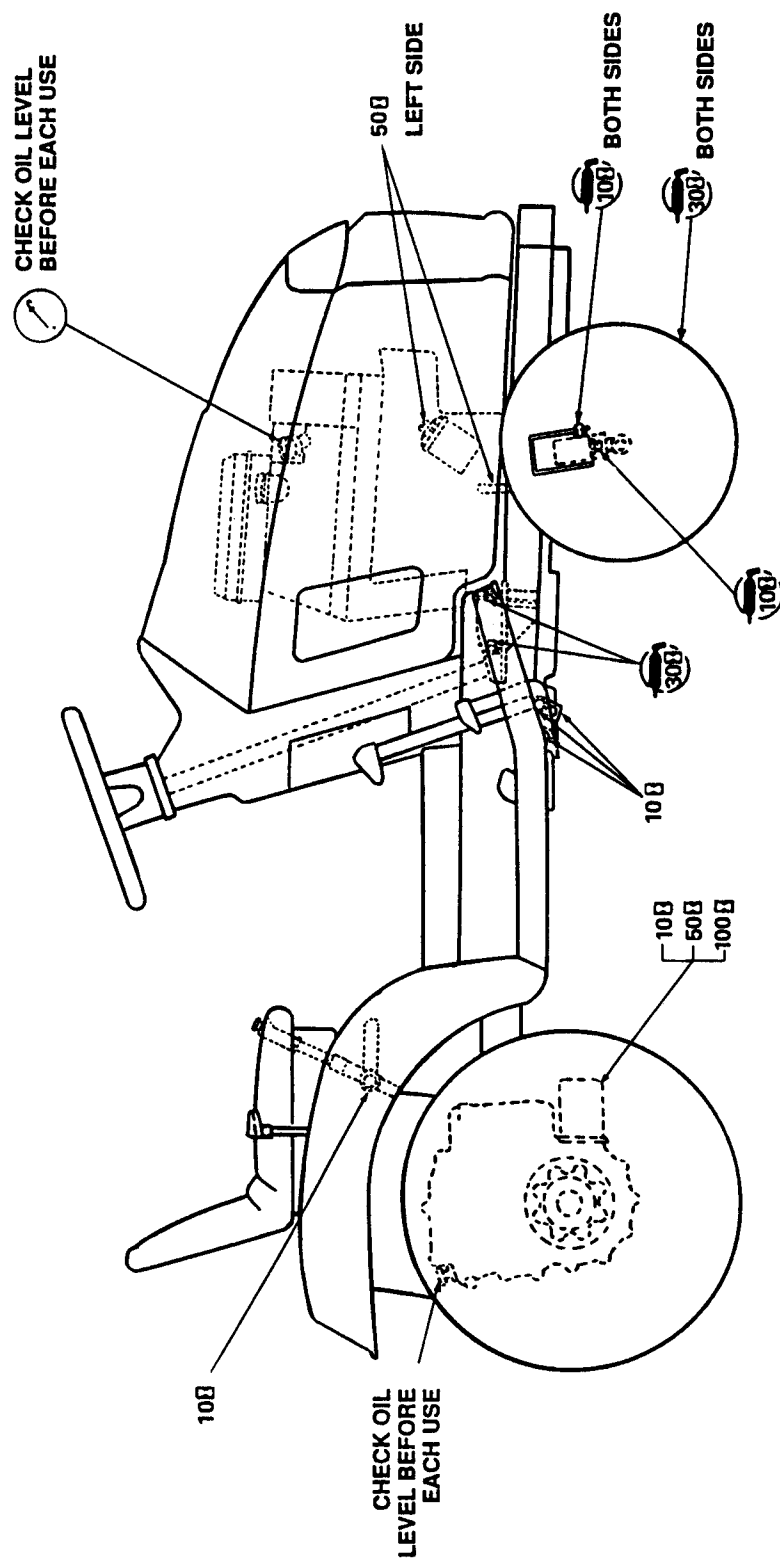


Figure 3-6. Model 2165 Lubrication Points.

Table 3-13. Model 2185 Maintenance

Operation to be performed	Before each use	10 hours or once a month	30 hours or three times a season	50 hours or twice a season	100 hours or yearly	Before storage
Clean grille, engine air inlet screen, dash intake screen and side panel screens		More often under dirty conditions X				
Check engine oil level	X					
Fill fuel tank	X					
Change engine oil & oil filter	After first 5 hours				More often under dirty conditions X	
Check transmisson oil level	X					
Replace transmisson oil filter		After first 10 hours X		After first 50 hours X	Every 100 hours thereafter X	
Clean & re-oil foam air precleaner		X				
Check battery electrolyte level		X				
Grease front axle pivot bolt		X				
Grease steering knuckles		X				
Retorque rear wheel lug nuts		After first 10 hours X				
Clean cooling fins & external surfaces			X			
Service air cleaner paper cartridge					More often under dirty conditions	
Check spark plugs					X	X
Grease steering gear housing			X			
Grease front wheel bearings			X			X
Drain fuel						X
Pivot bar adjustment bolts				X		
Lubricate all foot and lift control pivot points		X				



Maintenance information for optional equipment may be found in the manual which is included with that specific piece of equipment.

Table 3-14. Model 2185 Lubrication

Point of Lubrication	Check at Hours	Change at Hours	Capacity	Anticipated Air Temperature	
				Above + 32°F	Below + 32°F
Engine crankcase	Check before each use	100	Approx. 4 pints	<i>Cub Cadet</i> Engine Oil SAE 10W30 or 10W40	<i>Cub Cadet</i> Engine Oil SAE 5W20 or 5W30
Hydro transmission and transaxle with filter	Check before each use	Add as needed	Approx. 6 qts.	<i>Cub Cadet</i> Drive System Oil NOTE: <i>Cub Cadet</i> Drive System Oil is specially formulated for this application. If any other oil is used <i>Cub Cadet</i> will not be responsible for substandard performance. Failures due to use of improper fluid are not covered by warranty. For maximum protection, use <i>Cub Cadet</i> Drive System Oil.	
Steering knuckles and front axle pivot bolt	10			Use 251H EP grease or equivalent No. 2 multi-purpose lithium grease and apply two strokes (minimum) or sufficient grease to flush out old grease and dirt.	
Front wheel bearings	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Steering gear housing	30			Two strokes (minimum) of the lubricator using 251H EP grease or equivalent No. 2 multi-purpose lithium grease.	
Foot and lift control pivot points	10			Use a liberal amount of high grade lubricating oil.	

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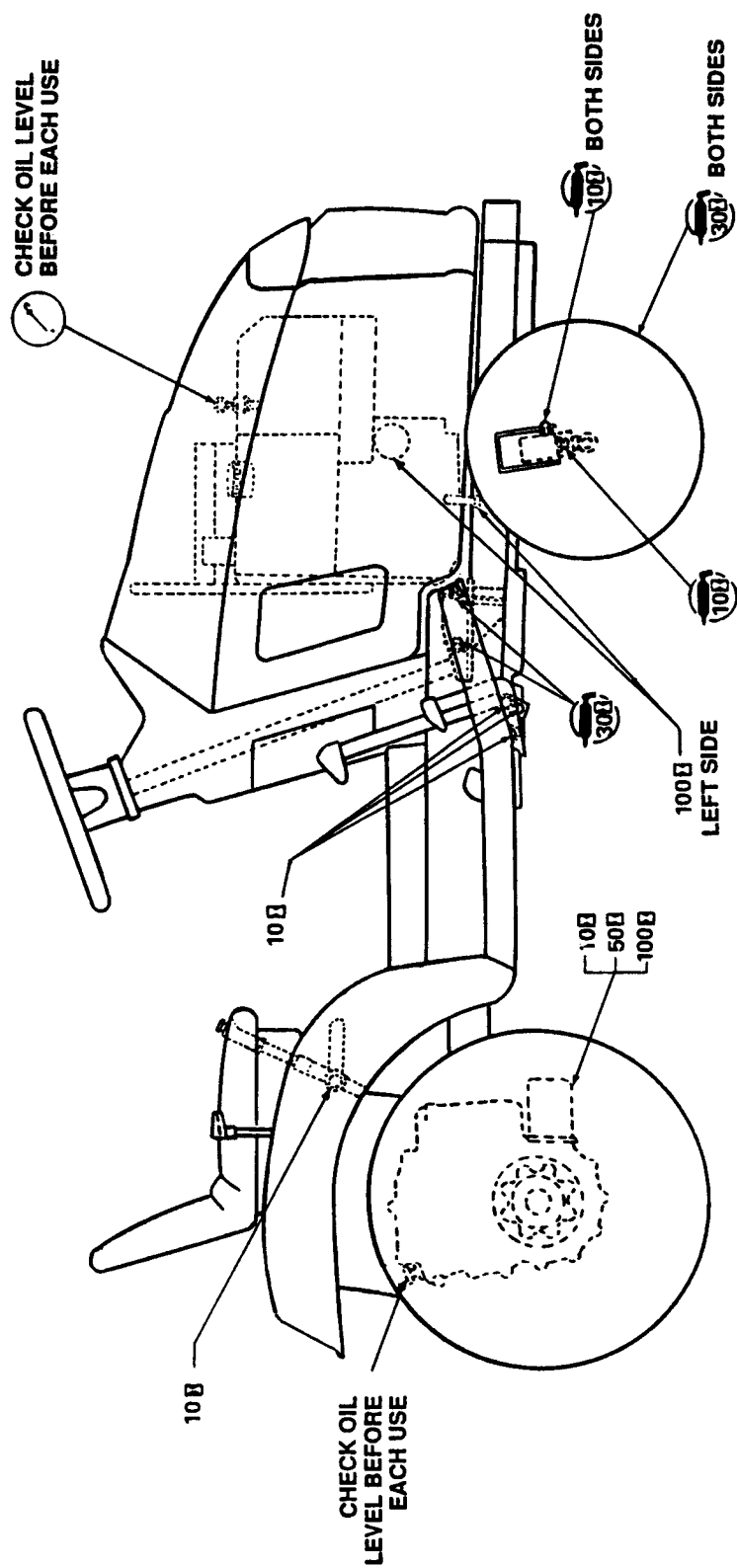


Figure 3-7. Model 2185 Lubrication Points.

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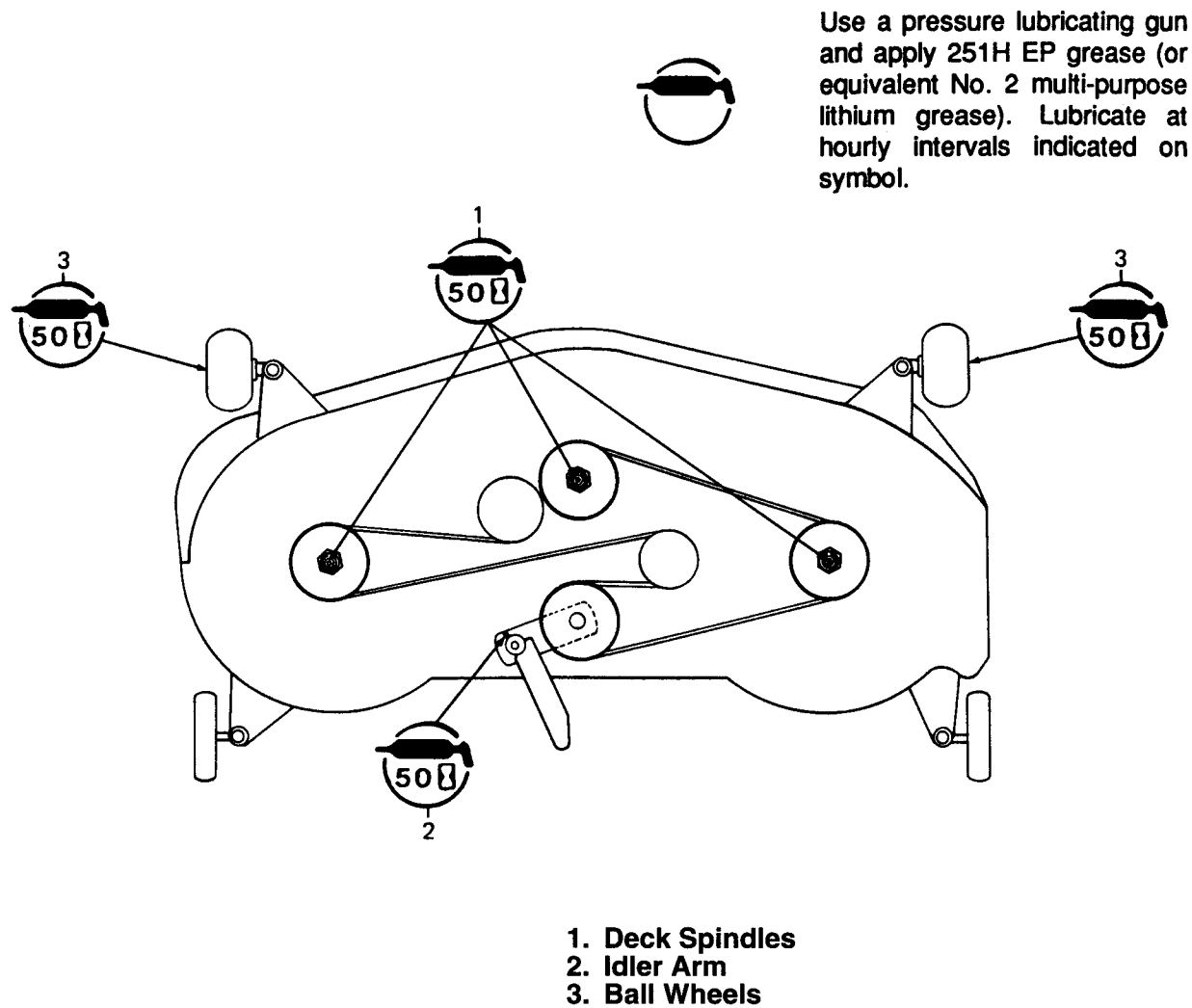


Figure 3-8. Model 190-300 46" Mower Deck.

LUBRICATION GUIDE

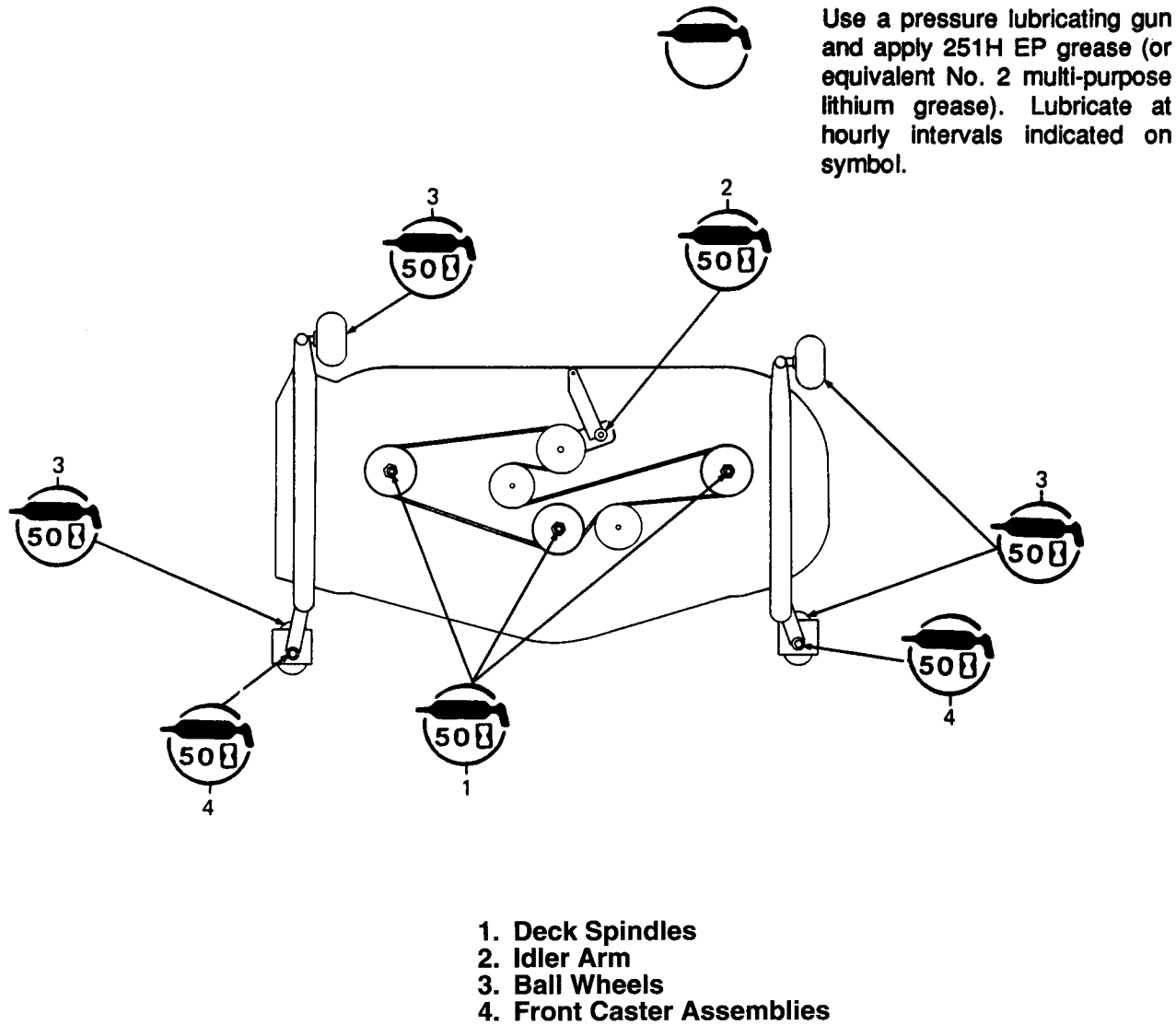


Figure 3-9. Model 190-301 48" Mower Deck.