

# **Division of Forestry**

**Equipment Operator 2**

**Physical Ability Test (PAT)**

**Knowledge of Safety Proficiency Test**

**Bulldozer Proficiency Test**

**Applicant Packet**

## Ohio Department of Natural Resources/Division of Forestry

## Applicant Packet

## State of Ohio Classification Specification

State of Ohio (DAS) Classification Specification	<b>Classification series:</b> Equipment Operator	<b>Series no.:</b> 5441
	<b>Major agencies:</b> All Agencies except Transportation	<b>Effective date:</b> 04/07/2002
<p><b>SERIES PURPOSE:</b> The purpose of the equipment operator occupation is to operate various types of motorized equipment to perform a variety of construction &amp; maintenance operations or to haul equipment &amp; supplies.</p> <p>At the lowest level, incumbents operate equipment such as dump trucks, wrecker snow plows, pickup trucks &amp; front-end loaders.</p> <p>At the higher levels, incumbents operate heavy motorized equipment, serve as lead worker over logging operations, or operate heaviest construction equipment to complete variety of operations associated with construction &amp; maintenance projects.</p> <p>Incumbents operating motorized equipment on highway maintenance &amp; construction projects for the Department of Transportation are to be classified within the Highway Maintenance Worker class series, 5321.</p>		
<p><b>CLASS TITLE:</b> Equipment Operator 1 <b>EFFECTIVE DATE:</b> 04/07/2002</p>		<p><b>CLASS NUMBER:</b> 54411</p>
<p><b>CLASS CONCEPT:</b> The developmental level class works under general supervision &amp; requires working knowledge of safety practices pertaining to &amp; skill in operation of motorized equipment in order to operate combination of motorized equipment such as dump truck, wrecker snow plow &amp; pickup truck to haul trash, mow grass, plow snow, spread salt, move &amp; load supplies, equipment, furniture &amp; other materials &amp; complete variety of related functions associated with construction, maintenance &amp; surplus property warehouse operations.</p>		
<p><b>CLASS TITLE</b> Equipment Operator 2 <b>EFFECTIVE DATE:</b> 04/07/2002</p>		<p><b>CLASS NUMBER</b> 54412</p>
<p><b>CLASS CONCEPT:</b> The full performance level class works under general supervision &amp; requires considerable knowledge of safety practices associated with &amp; skill in operation of heavy motorized equipment in order to operate heavy motorized equipment such as dozers, graders, dump trucks, to complete variety of construction &amp; maintenance operations or in Departments of Mental Health or Mental Retardation/Developmental Disabilities, drive tractor trailers &amp;/or tandem axle trucks with gross weight over 45,000 pounds to haul equipment &amp; supplies.</p>		
<p><b>CLASS TITLE</b> Equipment Operator 3 <b>EFFECTIVE DATE:</b> 04/07/2002</p>		<p><b>CLASS NUMBER</b> 54413</p>
<p><b>CLASS CONCEPT:</b> The advanced level class works under general supervision &amp; requires thorough knowledge of sawmill safety practices, logging &amp; timber stand improvement principles, practices &amp; techniques &amp; skill in operation &amp; maintenance of sawmill &amp; heavy equipment in order to serve as lead worker (i.e., provide work direction &amp; training) over lower-level equipment operators, as well as, participate in performance of logging &amp; sawmill operations &amp; related activities.</p>		
<p><b>CLASS TITLE</b> Equipment Operator 4 <b>EFFECTIVE DATE:</b> 04/07/2002</p>		<p><b>CLASS NUMBER:</b> 54414</p>
<p><b>CLASS CONCEPT:</b> The advanced level class works under general supervision &amp; requires thorough knowledge of safety practices pertaining to &amp; skill in operation of heaviest equipment for construction &amp; maintenance operations in order to operate heaviest motorized equipment such as cranes, large backhoes &amp; dozers, heavy crawlers &amp; gradalls to construct &amp; maintain roads &amp; bridges &amp; perform similar operations associated with construction &amp; maintenance projects &amp; in addition, operates cranes with 1,200 pound hammer &amp; F-5500 diesel backhoe &amp; front loader to excavate &amp; grade ditches, dig channels, load heavy materials &amp; clean waterways in Department of Administrative Services.</p>		

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<b>CLASS TITLE:</b> Equipment Operator 2	<b>CLASS NUMBER:</b> 54412	<b>BARGAINING UNIT:</b> 06
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**JOB DUTIES IN ORDER OF IMPORTANCE (These duties are illustrative only. Incumbents may perform some or all of these duties or other job-related duties as assigned.)**

Operates any combination of following motorized equipment (e.g., air compressor, truck mounted backhoe, 1 ton brush chipper, ditcher, ditch shaper, 6 to 10 ton dump truck, 10 ton tandem axel dump truck, forklift, 2 or 4 wheel drive front-end loader, 13,000 to 23,000 pound grader, 6 ton loader, mowers such as brush hog, rear flail, cutter bar & under 60 cubic inch push, side or rotary mount, 1/2 ton, 3/4 ton & 1 ton pickup truck or van, plow & spreader, tractor mounted auger, 5 to 8 ton roller, tractor, water pumps, stake truck, stump cutter, chain saws, weed eaters, spade & other hand tools) to haul trash, spread salt, cut & log timber, assist with wildfire suppression upon successful completion of Basic Firefighter Introduction to Fire Behavior Course (S-130/S-190), plow snow, mow grass & cut brush; clean & repair streets, move & load supplies, equipment, furniture & materials &/or complete other related construction & maintenance operations.

Performs general labor & maintenance functions (e.g., loads & unloads freight; maintains trails & forest; arranges stock in warehouse; repairs guardrails; digs ditches; moves equipment, furniture & supplies) or assists customers in warehouse & on phone by answering questions regarding availability, location & price of property; assists in preparing property & warehouse for public auctions & warehouse sales; inspects property upon arrival/departure & reviews accompanying paperwork for accuracy; assigns classification &/or control number to property.

**MAJOR WORKER CHARACTERISTICS**

Knowledge of safety practices pertaining to operation of light & heavy motorized equipment\*; arithmetic to include addition & subtraction. Skill in operation of various types of motorized equipment (e.g., dump truck, pickup truck, wrecker snow plow, front-end loader, forklift, tractor, chainsaws, log truck); sawmill equipment; hand tools. Ability to carry out simple instructions; read short sentences with concrete vocabulary; lift 100 pounds; recognize unusual or threatening safety conditions & take appropriate action; demonstrate physical fitness.

(\* )Developed after employment.

**MINIMUM CLASS QUALIFICATIONS FOR EMPLOYMENT**

Formal education in arithmetic that includes addition & subtraction & in reading & speaking common English vocabulary; 3 mos. trg. or 3 mos. exp. in operation of motorized equipment (e.g., dump truck, pickup truck, wrecker snow plow, forklift, front-end loader, chainsaws); valid commercial driver's license; In accordance with Section 124.11 (B) (2) of Revised Code, Director of Administrative Services has determined this classification to be unskilled labor class & therefore exempt from written examination. -Or equivalent of Minimum Class Qualifications For Employment noted above.

**TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT**

For positions in Department of Natural Resources, Division of Forestry Wildfire Program only, must successfully complete Basic Firefighter Introduction to Fire Behavior Course (S-130/S-190) within first year of employment.

**UNUSUAL WORKING CONDITIONS**

Works outside in all weather conditions; exposed to dust, mud, dirt, fumes, noise & dangerous machinery; may be required to work irregular hours &/or rotating shifts.

<b>POSITION DESCRIPTION</b>		AGENCY/DEPT ID <b>DNR150000</b>
DIVISION OR INSTITUTION <b>ODNR, DIVISION OF FORESTRY</b>	UNIT OR OFFICE <b>SCIOTO TRAIL STATE FOREST</b>	COUNTY OF EMPLOYMENT <b>ROSS</b>

<b>POSITION NUMBER 20051217</b>	<input type="checkbox"/> Reclassification <input type="checkbox"/> New Position <input checked="" type="checkbox"/> Update		Position Hyperlinked to <input type="checkbox"/> Agency Organizational Tree		
	USUAL WORKING TITLE OF POSITION <b>EQUIPMENT OPERATOR 2</b>		POSITION NO. AND TITLE OF IMMEDIATE SUPERVISOR <b>20051118 – FOREST MANAGER 3</b>		
	<input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary <input type="checkbox"/> Intermittent	<input checked="" type="checkbox"/> Classified <input type="checkbox"/> Unclassified	Overtime: <input checked="" type="checkbox"/> Eligible <input type="checkbox"/> Exempt If FLSA Exempt, exemption type:		Bargaining Unit <b>06</b> <i>Page 1 of 3</i>
	NORMAL WORKING HOURS (Explain unusual or rotating shift): <b>FROM: 8:00 A.M. to 4:30 P.M. (Hours will vary &amp; may require nights, weekends &amp; holidays)</b>				
	<b>JOB DESCRIPTION AND WORKER CHARACTERISTICS</b>				
	%	Job Duties in Order of Importance		Knowledge, Skills & Abilities	
	40	Operates heavy motorized equipment (e.g., excavators, 8-12 ton dozers, backhoe, over 23,000 lb grader, 8–10 ton roller, 25,000 to 35,000 pound dump truck, knuckleboom log loader, front end loader, skid steer, tractor trailers &/or tandem axle trucks {i.e., gross weight over 45,000 pounds}, etc.) to complete variety of construction & maintenance functions: operates bulldozer for forest fire line construction, trails, culverts, road bridges & ground maintenance, recreational areas & facilities, logging & merchandising operations; operates smaller equipment (e.g., trucks, tractors, trailers, snowplows, forklifts, APV's, mowers, stump grinder, chipper & chainsaw) for maintenance & construction projects; performs wildfire support as directed within training & physical capabilities; operates any & all equipment operated by lower-level equipment operators as needed; assists in training other staff.		<b>Knowledge of:</b> (10) Safety practices (operation of motorized equipment & wildfire control, Division of Forestry Health & Safety Manual*), (13b) Agency policies & procedures (ODNR/Division)*; (14) Government structure & process (state)*; (23) Law (ORC 1503)*; <b>Skilled in:</b> (29) Equipment Operation (motorized equipment) (8-12 Ton dozer, backhoe, dump truck, knuckleboom log loader, chainsaws), various tools, hand tools & firefighting equipment); <b>Ability to:</b> (30h) apply principles to solve practical, everyday problems, (31d) add, subtract, multiply & divide whole numbers, (32i) comprehend simple sentences with common vocabulary, (34c) cooperate with co-workers on group projects, (35a) Demonstrates physical fitness (lift 100 lbs – e.g., equipment, tools, parts).	
	25	Performs general repairs, improvements & maintains equipment (e.g., highway & non-highway vehicles, buildings & grounds, greases & oils machinery, performs routine maintenance {e.g., fluid & filter changes, hoses & belts} and other routine maintenance); implements fabrication; welds parts as needed; checks tires & lights; maintains accurate & concise maintenance records.		<b>Knowledge of:</b> (10) (operation motorized equipment, hand tools, welder, Division of Forestry Health & Safety Manual*), (13b) (ODNR/Division)*, (14) (state)*; <b>Skilled in:</b> (28) Skilled trade (machine trade*, welding), (29) (motorized equipment & welder, various power tools & hand tools); <b>Ability to:</b> (30h), (31d), (32i) maintain accurate records, (34c), (35a) (lift 100 lbs – e.g., equipment, tools, parts, tires).	
	List Position Numbers & Job Titles of Positions Directly Supervised:			SIGNATURE OF AGENCY REPRESENTATIVE	
				DATE	

<b>POSITION DESCRIPTION</b>		AGENCY/DEPT ID <b>DNR150000</b>
DIVISION OR INSTITUTION <b>ODNR, DIVISION OF FORESTRY</b>	UNIT OR OFFICE <b>SCIOTO TRAIL STATE FOREST</b>	COUNTY OF EMPLOYMENT <b>ROSS</b>

POSITION NUMBER <b>20051217</b>	<input type="checkbox"/> Reclassification <input type="checkbox"/> New Position <input checked="" type="checkbox"/> Update		Position Hyperlinked to <input type="checkbox"/> Agency Organizational Tree				
	USUAL WORKING TITLE OF POSITION <b>EQUIPMENT OPERATOR 2 (FTP)</b>		POSITION NO. AND TITLE OF IMMEDIATE SUPERVISOR <b>20051118- FOREST MANAGER 3</b>				
	<input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary <input type="checkbox"/> Intermittent	<input checked="" type="checkbox"/> Classified <input type="checkbox"/> Unclassified	Overtime: <input checked="" type="checkbox"/> Eligible <input type="checkbox"/> Exempt If FLSA Exempt, exemption type:	Bargaining Unit <b>06</b> <i>Page 2 of 3</i>			
	NORMAL WORKING HOURS (Explain unusual or rotating shift): <b>FROM: 8:00 A.M. to 4:30 P.M. (Hours will vary &amp; may require nights, weekends &amp; holidays)</b>						
	<b>JOB DESCRIPTION AND WORKER CHARACTERISTICS</b>						
JOB TITLE <b>EQUIPMENT OPERATOR 2</b>	JOB CODE <b>54412</b>	% <b>25</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Job Duties in Order of Importance</th> <th style="width: 85%;">Knowledge, Skills &amp; Abilities</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;">                     Performs general labor, maintenance, &amp; other related functions (e.g., buildings, trail {horse, hiking &amp; APV}, service roads &amp; grounds maintenance); performs basic electrical, structural, &amp; carpentry; performs various forestry operation duties (e.g. mows &amp; trims grass; cuts brush; sprays pesticides, herbicides; timber stand improvement projects &amp; property boundary maintenance); operates chainsaw for felling, bucking &amp; limbing of trees; uses various tools &amp; hand tools (e.g., drills, wrenches, hammers, shovels, saws &amp; etc.); purchases supplies (e.g. maintenance, grounds maintenance, equipment repairs, etc.), uses personal computer (e.g. enter activity report, fill out credit card forms, enter maintenance records, etc.);                 </td> <td style="vertical-align: top;"> <b>Knowledge of:</b> (10) (pertaining to operation of light &amp; heavy motorized equipment &amp; various tools, basic electricity &amp; carpentry, Division of Forestry Health &amp; Safety Manual*); <b>Skilled in:</b> (25b) word processing (Microsoft office – Outlook, Word, Excel)*, 28 (carpentry, welding &amp; electrical) (29) (motorized equipment, power tools &amp; hand tools, personal computer*); <b>Ability to:</b> 30h, 31d, 32l 34c, 35a (lift 100 lbs – e.g., equipment, tools, parts, tires).                 </td> </tr> </tbody> </table>	Job Duties in Order of Importance	Knowledge, Skills & Abilities	Performs general labor, maintenance, & other related functions (e.g., buildings, trail {horse, hiking & APV}, service roads & grounds maintenance); performs basic electrical, structural, & carpentry; performs various forestry operation duties (e.g. mows & trims grass; cuts brush; sprays pesticides, herbicides; timber stand improvement projects & property boundary maintenance); operates chainsaw for felling, bucking & limbing of trees; uses various tools & hand tools (e.g., drills, wrenches, hammers, shovels, saws & etc.); purchases supplies (e.g. maintenance, grounds maintenance, equipment repairs, etc.), uses personal computer (e.g. enter activity report, fill out credit card forms, enter maintenance records, etc.);	<b>Knowledge of:</b> (10) (pertaining to operation of light & heavy motorized equipment & various tools, basic electricity & carpentry, Division of Forestry Health & Safety Manual*); <b>Skilled in:</b> (25b) word processing (Microsoft office – Outlook, Word, Excel)*, 28 (carpentry, welding & electrical) (29) (motorized equipment, power tools & hand tools, personal computer*); <b>Ability to:</b> 30h, 31d, 32l 34c, 35a (lift 100 lbs – e.g., equipment, tools, parts, tires).
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List Position Numbers & Job Titles of Positions Directly Supervised:		SIGNATURE OF AGENCY REPRESENTATIVE	DATE				

<b>POSITION DESCRIPTION</b>		AGENCY/DEPT ID <b>DNR150000</b>
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<b>JOB DESCRIPTION AND WORKER CHARACTERISTICS</b>				
<b>%</b>	<b>Job Duties in Order of Importance</b>	<b>Knowledge, Skills &amp; Abilities</b>		
10	Assists with wildfire suppression; performs wildfire & prescribed fire support as directed within training & physical capability; works with hand tools and dozer in construction of fire line & performs mop-up duties in conformance with standards taught in Basic Firefighter/Introduction to Fire Behavior (S-130/S-190) Course.  <u><b>TRAINING AND DEVELOPMENT REQUIRED TO REMAIN IN THE CLASSIFICATION AFTER EMPLOYMENT:</b></u> For positions in Department of Natural Resources, Division of Forestry Wildfire Program only, must successfully complete Basic Firefighter Introduction to Fire Behavior Course (S-130/S-190) within first year of employment.  <u><b>UNUSUAL WORKING CONDITIONS:</b></u> Works outside, exposed to all degrees of inclement weather	<b>Knowledge of :</b> (10) Safety practices (operation of motorized equipment & wildfire control, Division of Forestry Health & Safety Manual*), (13b) Agency policies & procedures (ODNR/Division)*, (14) Government structure & process (state)* <b>Skilled in:</b> (29) Equipment Operation (motorized equipment) (8-12 Ton dozer, backhoe, knuckleboom log loader, chainsaws), various tools, hand tools & firefighting equipment); <b>Ability to:</b> (30h), (32i), (34c), (35a) (lift 100 lbs – e.g., equipment, tools, parts, tires).  <u><b>REQUIRES CLASS "A" COMMERCIAL DRIVER'S LICENSE WITH AIR BRAKES ENDORSEMENT</b></u>  <u><b>MUST HAVE SUCCESSFULLY COMPLETED THE BASIC FIREFIGHTER/INTRODUCTION TO FIRE BEHAVIOR COURSE (S-130/S-190) WITHIN FIRST YEAR OF EMPLOYMENT</b></u>  <b>Competencies:</b> Operating Vehicles, Mechanized Devices, or Equipment; Inspecting Equipment, Structures, or Materials; Getting Information  *Developed after employment		
<b>JOB CODE 54412</b>	<b>JOB TITLE EQUIPMENT OPERATOR 2</b>			
List Position Numbers & Job Titles of Positions Directly Supervised:		SIGNATURE OF AGENCY REPRESENTATIVE	DATE	

## Written Physical Abilities Test Course Description (OPTION A – No Interview)

As an applicant for the Equipment Operator 2 (EO2) position you will participate in the EO2 Physical Ability Test (PAT), Knowledge of Safety Practices Proficiency and Bulldozer Proficiency Tests. You will complete the course described below individually, one at a time, without others watching. You are permitted to bring pre-testing materials with you but must leave them in holding room once testing has started. You are not permitted to take any pre-testing materials with you to any of the testing locations.

**If at any time you feel that you are unable to safely perform any part of the proficiency tests; please notify the test administrator immediately. You will hear this repeated often during the testing.**

**If at any time during the proficiency tests the test administrator feels that you are operating any equipment in an unsafe matter he/she will stop the proficiency test immediately. If this happens all testing will stop, this will be considered a fail and you will not move forward in the hiring process.**

### Clothing Requirements:

- **DO NOT** wear tank tops, cutoff tops or any other shirt that may lead to embarrassing incidents while trying to pull, lift, carry, drag, etc.
- **DO NOT** wear jeans, shorts or pants that are ripped and/or worn which may lead to embarrassing incidents while trying to pull, lift, carry, and drag, etc.
- **DO** wear work boots or steel-toed shoes for the test.
- **DO** bring work gloves. You may choose not to wear them, but remember to bring them with you in the event you would like to use them.
- **DO** note that all clothing requirements above are also intended to protect against any safety related incidents as well as personally embarrassing incidents.

### Attachments

You will find the following attachments enclosed in your packet:

1. Equipment Operator 2 Physical Ability Test, Knowledge of Safety Proficiency and Bulldozer Proficiency Tests Acknowledgement Form
2. Waiver Form
3. Safe Lifting Poster
4. Testing date confirmation sheet
5. Bulldozer
  - a. Safety
  - b. Pre-start inspection
  - c. Operating the engine
  - d. Transporting the bulldozer

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All events listed below are timed for completion; the times will be specified below for each event. A stopwatch will be used to monitor both of the completion times. You are allowed a rest period if necessary between PAT events, the time limit will be the same for each event. If you feel the rest period is NOT needed, you, however, may move on to the next scheduled event after informing the test administrator and initialing the applicant-rating sheet for verification purposes. All events are pass/fail. If you do not pass one event the testing will end and you will be escorted back to the holding area to collect any items that you brought and you will then leave the testing location.

The day of the test and prior to each event, the test administrator will read aloud event instructions similar to what are provided below so memorizing the course descriptions is NOT necessary. In addition, pre-set markers will be provided to mark specific distances mentioned in the descriptions. You are NOT required to make distance/measurement determinations.

There are two (2) events to the EO2 PAT described below. NOTE: It may be helpful to follow along on the visual PAT course description.

**Event #1:** - The first event will require you to place the provided weight vest on you back, put on all provided protective equipment associated with chainsaw use, pick up the chainsaw, walk ½ mile and cut log in four (4) pieces (three cuts), (You will have 9 minutes total to walk ½ mile and 2 minutes for the chainsaw portion.) Prior to starting this event you will be asked to do a prestart inspection of the chainsaw and start it to make certain it is running properly. This will not be included in the timed portion of this test. Time will start for the ½ mile walk when the test administrator says go and will stop when you have reached the stop marker. When you have reached the ½ mile marker, you will see a pre-positioned log that you will cut into four pieces (pieces do not need to be cut in equal lengths, make three cuts). Time for the chainsaw event will start once the test administrator states go; you will then pick up the chainsaw, start it and then cut the prepositioned log/downed tree. When you have completed this entire event (walk & chainsaw exercise) you will then be given an optional rest period of no more than five (5) minutes. Please understand that pre-set markers will be laid out on the path so you will not be required to make that determination. This is a timed completion event so to pass you are required to finish the walk (½ mile) in 9 minutes and finish the chainsaw exercise in 2 minutes.

The vest weight is approximately 45 lbs. and the chainsaw weighs approximately 25-30lbs.

**Event #2:** - The second exercise requires you to place a tire in the bed of the provided pickup truck. The tire is 100 ft. away from the truck. This is a timed completion exercise so to pass you are required to complete the exercise in five (5) minutes. Completing the exercise means that you must move the tire from the start position 100 ft. away from the truck (you can move the tire anyway comfortable for you) and lift tire into bed of pickup truck and place where marked. You are not required to get in the truck.

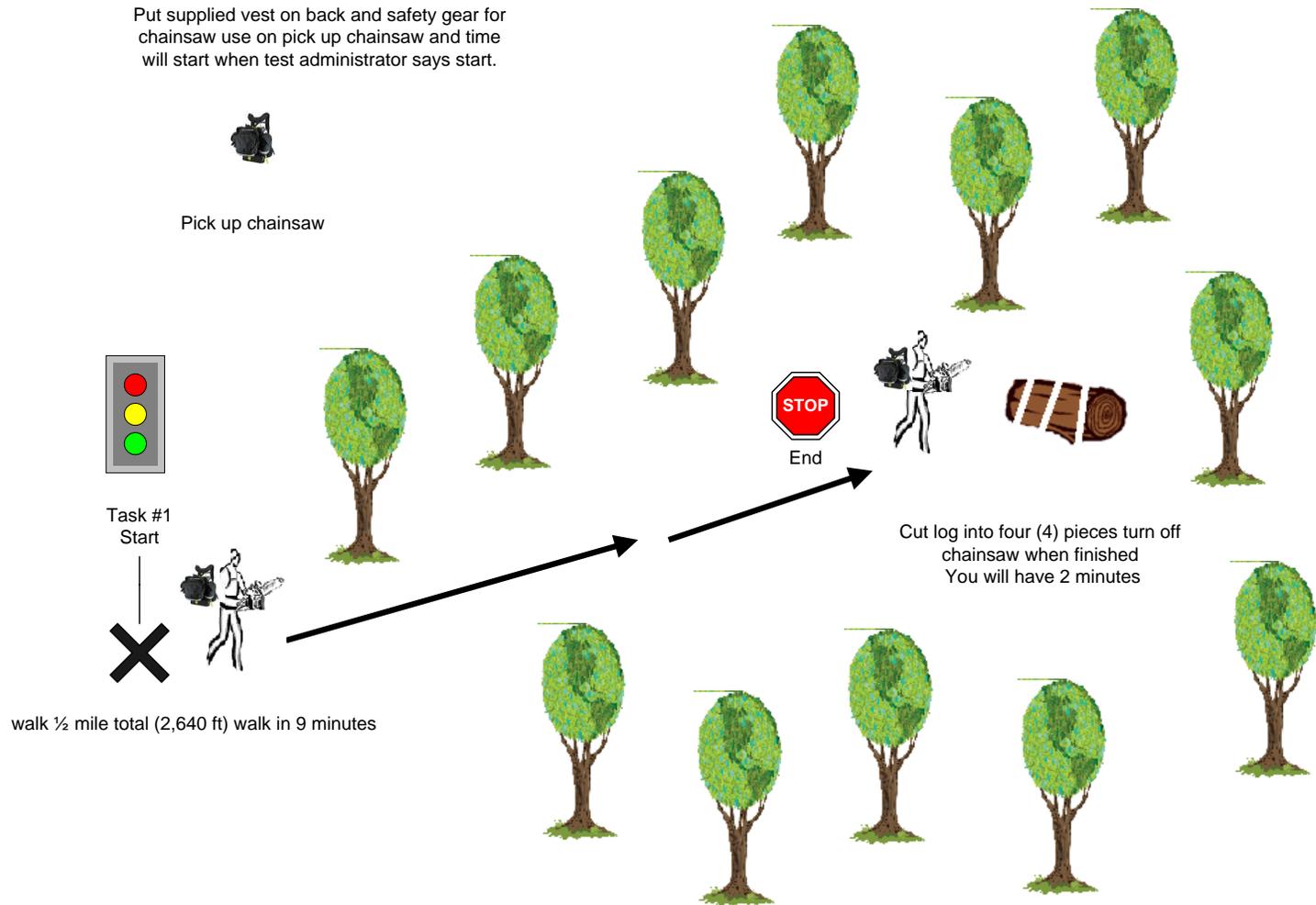
The tire (11R22.5) weighs approximately 50 lbs.

***The PAT is rated on a pass/fail basis.***

***You MUST successfully complete both events in order to pass the PAT. Anything else is considered a fail. . If you fail, the testing will stop and you will be escorted back to the holding area. You may withdraw from the PAT and hiring process at any time, but you will be asked to sign a Withdrawal Form before leaving the test.***

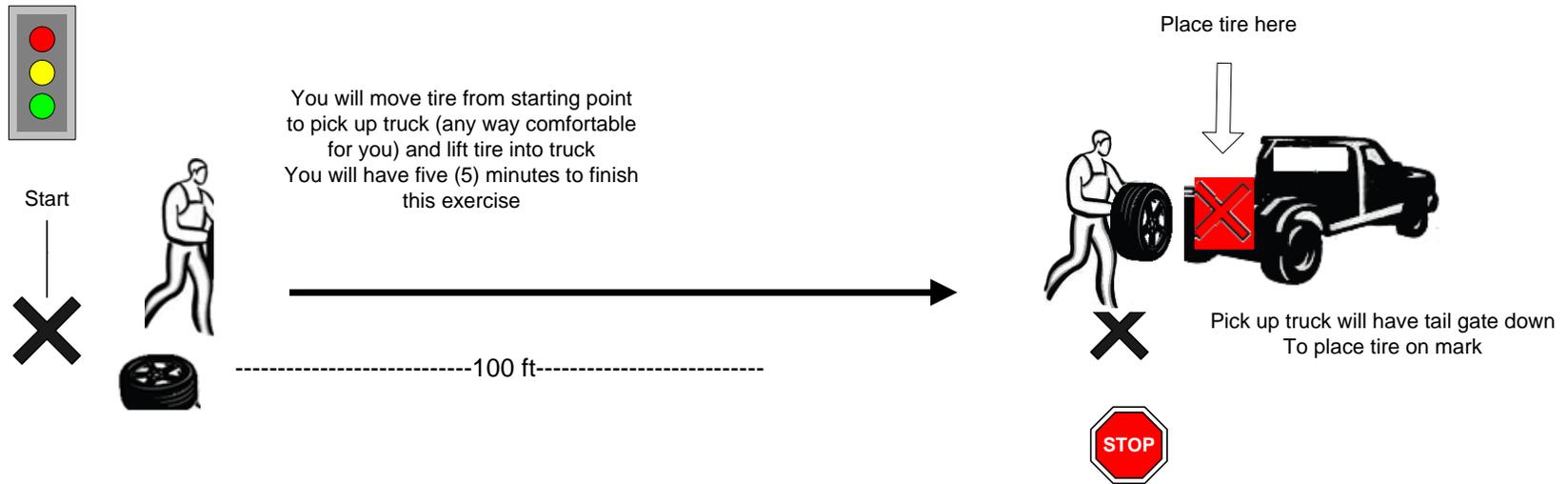
## Visual Course Set-Up Description Pack Test Assessment

NOTE: Distances are illustrative only, they are NOT to key



## Visual Course Set-Up Description Lifting Assessment

NOTE: Distances are illustrative only, they are NOT to key



## **Knowledge of Safety Proficiency Course Description**

You will be asked four safety scenarios. The test administrator will read all four scenarios and ask you to respond. All scenarios will deal with safety issues including hiking trail, working with other co-workers in the woods, the felling of trees and running heavy equipment. You must answer all scenarios correctly. This is also a pass/fail testing. If you fail to answer a scenario properly, the testing will stop and you will be escorted back to the holding area.

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**Written Bulldozer Proficiency Test Course Description (OPTION A – No Interview)**

As an applicant for the Equipment Operator 2 position you will participate in the EO2 Bulldozer Proficiency Test. You will complete the exercises described below individually, one at a time without others watching.

All events below are timed for completion; these will be specified at the time of the proficiency by the test administrator. A stopwatch will also be used to monitor both the completion times and limits.

**If at any time you feel you are unable to safely perform this activity, please notify the test administrator immediately.**

**If the test administrator feels that you are operating the equipment in an unsafe manner you will be asked to stop the equipment immediately. If the testing is stopped, this will be considered a fail and you will not move forward in the hiring process.**

On the day of the test and prior to each event, the test administrator will read aloud event instructions similar to what are provided below so memorizing the course descriptions is NOT necessary. In addition, pre-set markers will be provided to mark specific distances mentioned in the descriptions. You are NOT required to make distance/measurement determinations.

The EO2 Bulldozer Proficiency Test is described below. NOTE: It may be helpful to follow along on the visual Bulldozer Proficiency Test Course Description.

In this section of the proficiency, you will be asked to perform a series of maneuvers with the bulldozer. In order to pass, you will need to complete the exercises within the established time limits which will be described later in the instructions, point out some basic but critical information and have the skill in the operation of the bulldozer to accomplish the tasks listed below. All exercises are pass/fail. If you do not pass one event the testing will end and you will be escorted back to the holding area to collect any items that you brought.

You will start this section with a pre-trip inspection, proper safety checks, entering, and proper warm-up.

The first exercise will be for you to enter the bulldozer and level out the provided pile of material (i.e., gravel or dirt). This will be a timed exercise and you will have 5 minutes to complete this exercise. The time will start once you enter the bulldozer and stop when you exit the bulldozer.

The second exercise will be for you to enter the bulldozer and construct a 100 foot path. Markers will indicate the section so you will not need to make that determination yourself. You will have five (5) minutes to construct a 100 foot path and return dozer to the starting area.

After you have completed the path exercise, please properly shut down the bulldozer, allowing for an appropriate cool down period and safely exit the bulldozer.

You will then be given the following scenario: You are done for the day and you are getting the bulldozer ready to put on a trailer or transport to take to another state forest for use the next day. What would you do to make certain the dozer is ready for work the next day? **Once this has been completed a Division Operator will load the bulldozer on the provided trailer or transport and you will fasten it down properly.**

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**If at any time you feel you are unable to safely perform this activity, please notify the test administrator immediately.**

**If at any time during the Bulldozer Proficiency Test the test administrator feels that you are operating equipment in an unsafe manner, you will be asked to stop the equipment immediately. If the test is stopped, this will be considered as a fail and you will not move forward in the hiring process.**

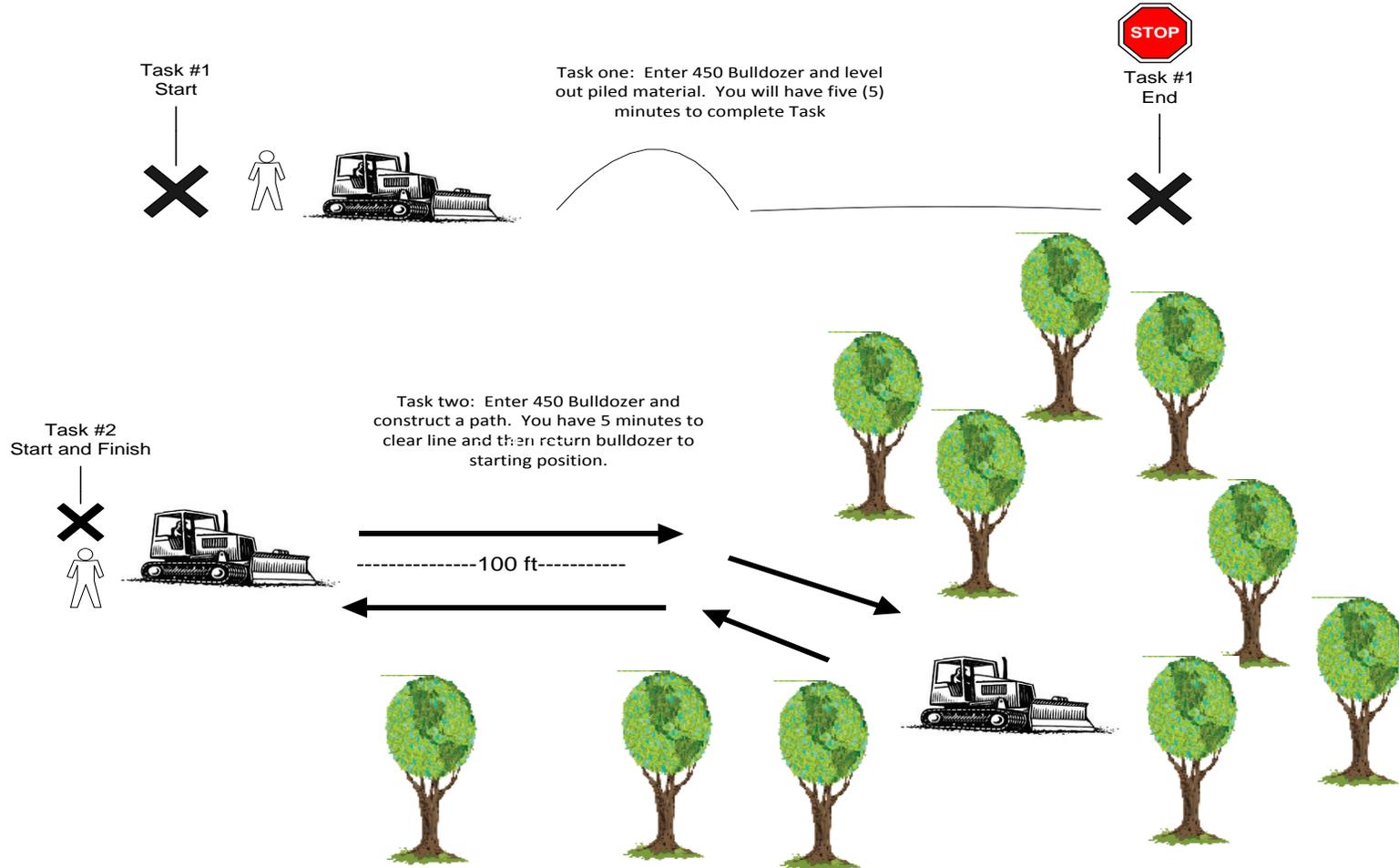
**The Bulldozer Proficiency is rated on a pass/fail basis. Meaning, you MUST successfully complete all events in order to pass. Anything else is considered a fail. If you fail, the testing will stop and you will be escorted back to the holding area.**

**Note: You may withdraw from the Bulldozer Proficiency Test and hiring process at any time, but you will be asked to sign a Withdrawal Form before leaving the test site.**

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## Visual Course Set-Up Description Bulldozer Proficiency

NOTE: Distances are illustrative only, they are NOT to key





# Safe Lifting



## GET A GRIP !

To Lift and Carry Safely,  
Use Your Head and Save Your Back



Stand close to the load.  
Squat to lower and lift.



Bend your knees.  
Not your back.

- Keep the weight as close to your body as possible. Let your legs push your body up slowly and smoothly.
- To put it down, don't twist your body. Shift your feet.
- Lower the load by bending your knees and letting your legs do the work.

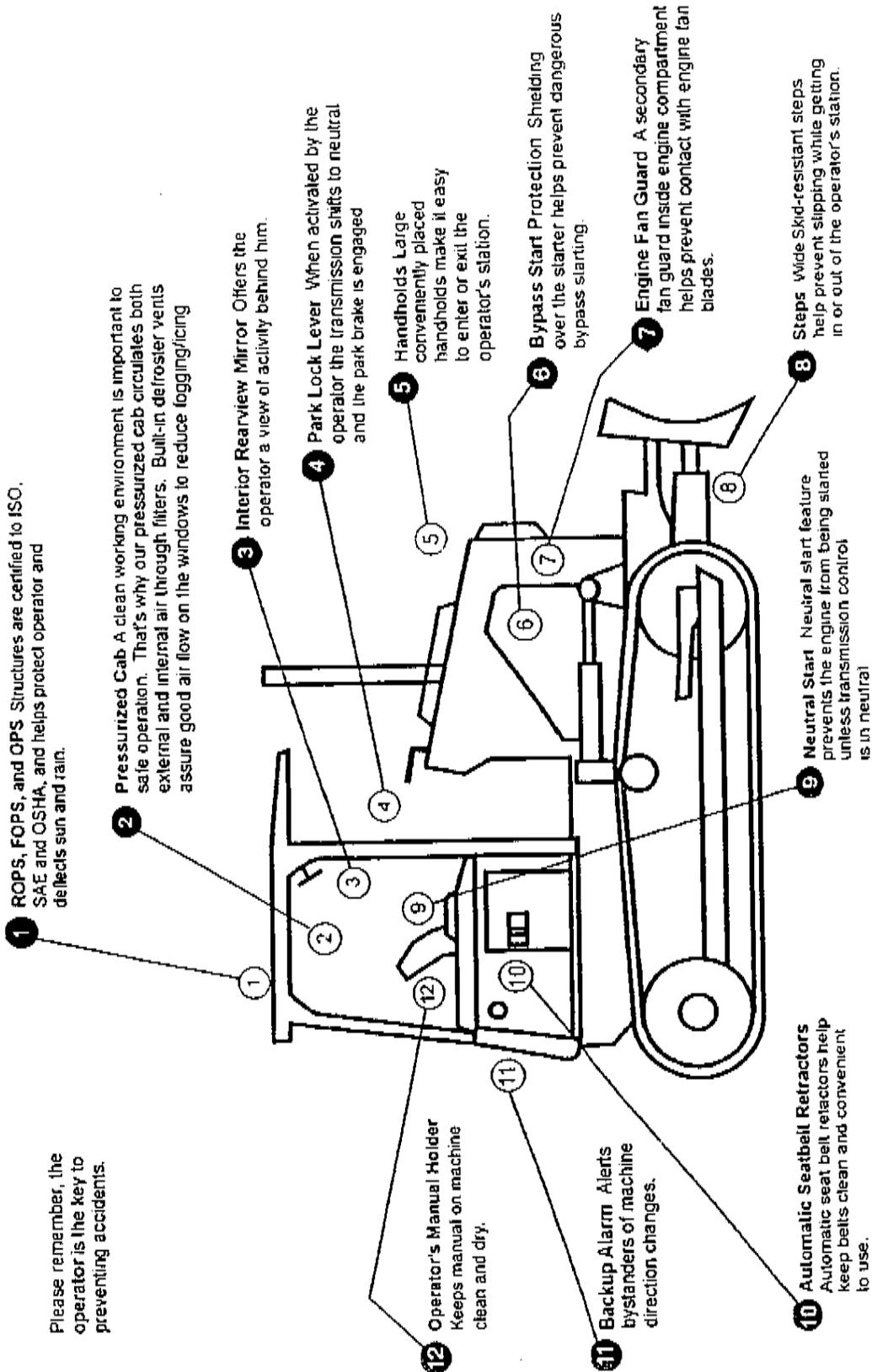


# Safety

## John Deere Crawler Safety Features

### JOHN DEERE CRAWLER SAFETY FEATURES

Please remember, the operator is the key to preventing accidents.



CE01032,759 -19-24APR99-1/1

T121132  
1121132 -19-20APR99

## Recognize Safety Information

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.



TX\_05\_PB46 -19-03DEC97-1/1

T81389 -JUN-07DEC98

## Understand Signal Words

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

**▲ DANGER**

**▲ WARNING**

**▲ CAUTION**

DX\_SIGNAL -19-03MAR93-1/1

TS187 -19-30SEP98

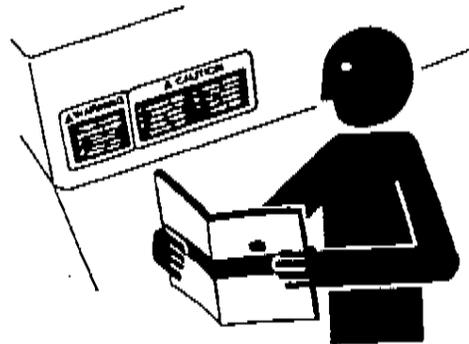
## Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your John Deere dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your John Deere dealer.



DX\_READ -19-03MAR93-1/1

TS201 -JUN-23AUG98

## Avoid Injury From Roll-Over Accidents

### Wear Your Seat Belt

**Do Not Attempt to Jump Clear of Tipping Machine--Serious or Fatal Crushing Injuries Will Result**

**Machine Will Tip Over Faster Than You Can Jump Free**

To avoid roll-overs:

Be careful when operating on a slope.

Avoid sharp turns.

Balance loads so weight is evenly distributed and load is stable.

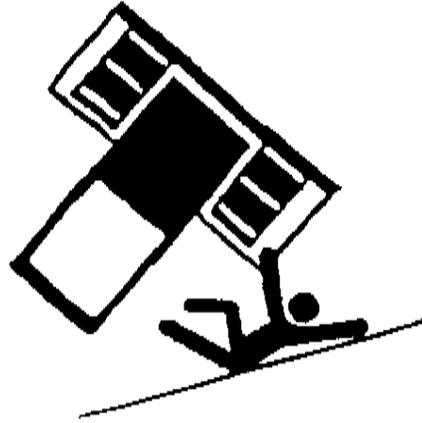
Carry tools and loads close to the ground to aid visibility and lower center of gravity.

Reduce speed before turning or swinging load.

Know capacity of machine. Do not overload.

Be careful when operating at the edge of an excavation, trench, or drop-off, and loading or unloading from a trailer.

Read and understand the operating instructions in the operator's manual.



**USE  
SEAT  
BELT**

TR35BAG -19-21NOV/94

TX,05,RR4660 -19-20DEC94-1/1

**Avoid Injury From:**

**Loading Machine on a Trailer, Fastening Machine to Trailer, Unloading Machine From Trailer**

**Always Use Caution When Loading and Unloading Machines on a Trailer**

**Always Know and Follow the Recommended Procedures for the Machine Because All Machines Are Not Loaded, Fastened and Unloaded the Same Way.**

**Always Keep Bystanders Clear of the Area**

To avoid injury:

Keep trailer bed clean.

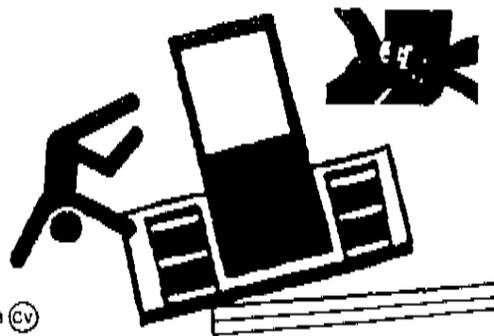
Park trailer on a firm, hard, level surface that will not give way under weight of machine.

Put chock blocks against truck wheels.

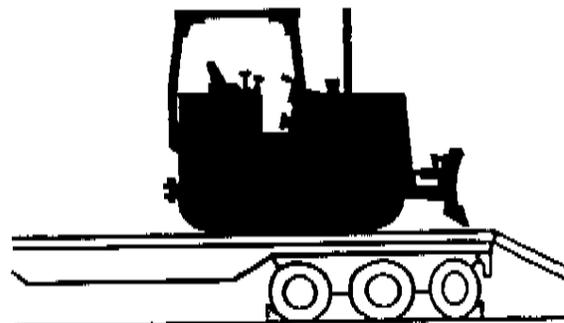
Use a ramp or loading dock. Ramps must be strong enough to adequately handle the load and have a low angle and correct height.

Fasten seat belt before starting engine.

Fasten chains or cables to machine tracks or track chain links. Do not place chains or cables against hydraulic lines or hoses.



T8513AB (CV)



T117639

T8513AB -JUN-28JUN95

T117639 -JUN-20OCT98

## **Avoid Injury From Backover Accidents**

**Before Moving Machine, Be Sure All Persons Are Clear of Area**

**Always Be Alert for Bystanders Moving Into the Work Area. Use Horn or Other Signal to Warn Bystanders Before Moving Machine**

**When Using a Signal Person, Keep Person In View at All Times, Be Sure Signal Person Is Clear Before Backing Up**



T7241AY -UN-21FEB90

To avoid backover accidents:

Always look around before you back up. Be sure that everyone is in the clear.

Keep bystanders away from pivot area of an articulated machine.

Keep reverse warning alarm in working condition.

Use a signal person when backing up if view is obstructed. Always keep signal person in view.

Learn the meaning of all flags, signs, and markings used on the job and who has the responsibility for signaling.

Keep windows, mirrors, and lights clean and in good condition.

Dust, heavy rain, fog, etc., can reduce visibility. As visibility decreases, reduce speed and use proper lighting.

Read and understand the operating instructions in this operator's manual.

TX.05.RR.491 -19-06SEP94-1/1

## Avoid Injury From Rollaway Accidents

To Prevent Rollaway, Always Make Sure Machine Is Properly Secured Before Leaving Operator's Seat

Death or Serious Injury May Result If You Attempt to Mount or Stop a Moving Machine

To avoid rollaways:

Select level ground, when possible, to park machine.

Place FNR lever in neutral and park lock lever in locked position.

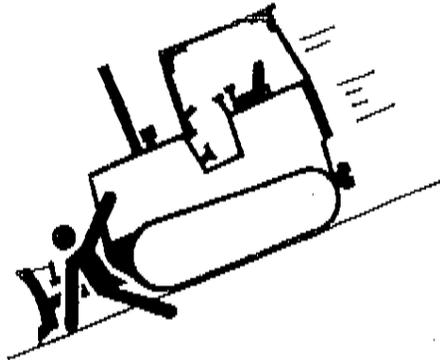
Lower all equipment to ground.

Stop the engine.

Park a reasonable distance from other machines.

Read and understand the operating instructions in this operator's manual.

T118019



T118019 -UN-01DEC98

CEB,OUO1032,1167 -19-24NOV98-1/1

## Inspect Machine

Inspect your machine carefully each day by walking around it before you start it. (See Pre-Start Inspection chapter.)



T6601AD -UN-18OCT88

T82,BHSA,CL -19-14MAR90-1/1

### Use Handholds and Steps

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump either on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.



T6981AH -UN-15JUN89

02T.05.K69 -19-14MAR90-1/1

### Prevent Machine Runaway

Avoid possible injury or death from machine runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear if normal circuitry is bypassed.

**NEVER** start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral or park.



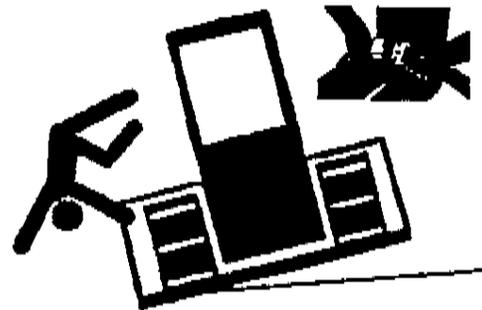
T6607AO -UN-16OCT88

TX.05.FF1682 -19-15JAN91-1/1

### Use Seat Belt Properly

Use a seat belt when you operate with a roll-over protective structure (ROPS) or cab to minimize chance of injury from an accident such as an overturn.

Do not use a seat belt if operating without a ROPS or cab.



T7860AQ -UN-09NOV92

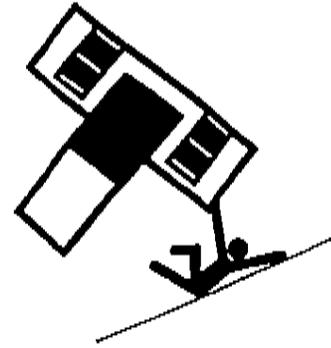
TX.05.RR2734 -19-08FEB93-1/1

## Operating on Slopes

Avoid side slope travel whenever possible. The danger of tipping is always present.

In steep slope operation, do not allow engine to overspeed. Select proper ground speed before starting down slope.

The grade of the slope you should attempt will be limited by such factors as ground condition and load being handled.



TR404AF -JUN-14FEB95

02T.05.M15 -19-07JAN91-1/1

## Avoid Power Lines

Keep away from power lines. Serious injury or death may result. Never move any part of the machine or load closer to power line than 3 m (10 ft) plus twice the line insulator length.

02T.05.M59 -19-12OCT88-1/1

## Keep Riders Off Machine

Only allow the operator on the machine. Keep riders off.

Riders on machine are subject to injury such as being struck by foreign objects and being thrown off of the machine. Riders also obstruct the operator's view resulting in the machine being operated in an unsafe manner.

02T.05.J44 -19-19JAN88-1/1

### Handle Fluids Safely—Avoid Fires

Handle fuel with care; it is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine. Fill fuel tank outdoors.

Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; they can ignite and burn spontaneously.



TS202 -UN-23AUG88



TS227 -UN-23AUG88

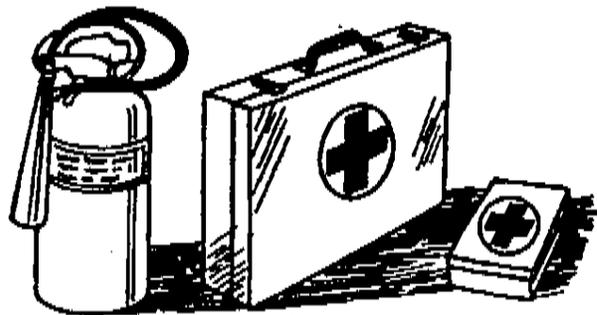
TX,05,FF1622 -19-14JUN80-1/1

### Prepare for Emergencies

Be prepared if a fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



TS291 -UN-23AUG88

DX,FIRE2 -19-03MAR93-1/1

### Handle Starting Fluid Safely

Starting fluid is highly flammable.

Keep all sparks and flame away when using it. Keep starting fluid away from batteries and cables.

To prevent accidental discharge when storing the pressurized can, keep the cap on the container and store in a cool, protected location.

Do not incinerate or puncture a starting fluid container.



TS1356 -UN-18MAR92

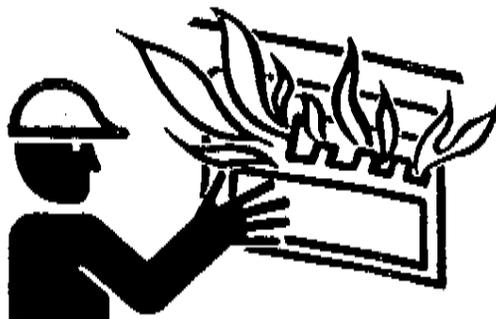
02T.05.M38 -18-22FEB90-1/1

### Clean Trash From Machine

Keep engine compartment, radiator, batteries, hydraulic lines, fuel tank, and operator's station clean.

Temperature in engine compartment may go up immediately after engine is stopped. **BE ON GUARD FOR FIRES DURING THIS PERIOD.**

Open access door(s) to cool the engine faster, and clean engine compartment.

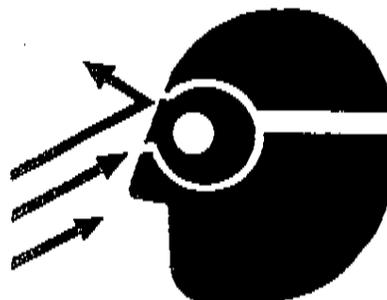


T6669AG -UN-18OCT88

02T.05.J33 -19-14MAR90-1/1

### Protect Against Flying Debris

When you drive connecting pins in or out, guard against injury from flying pieces of metal or debris; wear goggles or safety glasses.



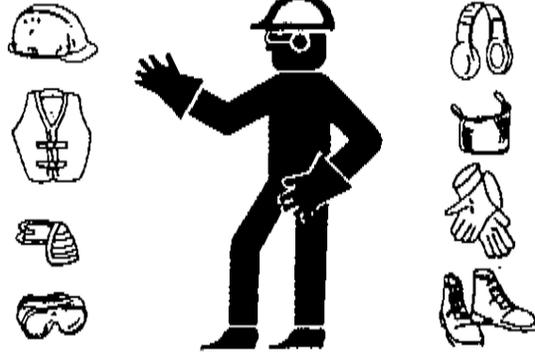
T6642DK -UN-18OCT88

02T.05.J45 -19-30MAY90-1/1

### Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.



DX.WEAR2 -19-03MAR93-1/1

TS206 -UN-23AUG88

### Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



DX.NOISE -19-03MAR93-1/1

TS207 -UN-23AUG88

### Warn Others Of Service Work

Unexpected machine movement can cause serious injury.

Before performing any work on the machine, attach a "DO NOT OPERATE" tag to the vandal cover latch.



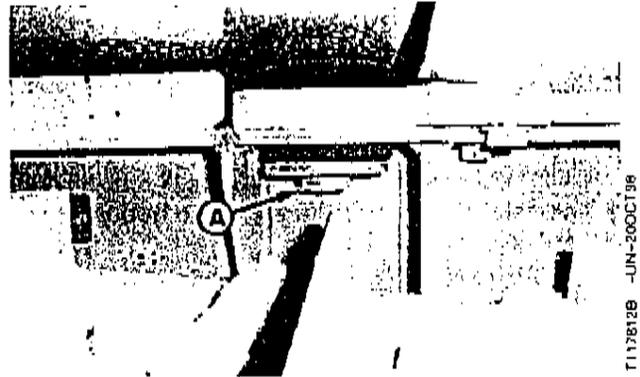
TX.10.FR2401 -19-03AUG92-1/1

T7447A0 -19-22APR91

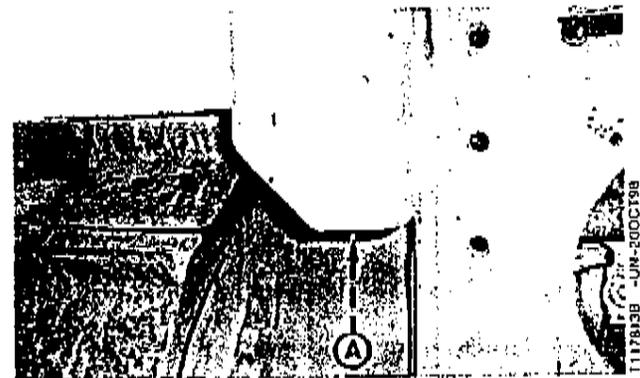
### Keep ROPS Installed Properly

Make certain all parts are reinstalled correctly if the roll-over protective structure (ROPS) is loosened or removed for any reason. Tighten mounting bolts to proper torque.

The protection offered by ROPS will be impaired if ROPS is subjected to structural damage, is involved in an overturn incident, or is in any way altered by welding, bending, drilling, or cutting. A damaged ROPS should be replaced, not reused.



Front ROPS Mounting Bolt



Rear ROPS Mounting Bolt

DX.ROPS3 -19-03/MAR93-1/1

T117812B -UN-200CT98

T117815B -UN-200CT98

### Handle Chemical Products Safely

Direct exposure to hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with John Deere equipment include such items as lubricants, coolants, paints, and adhesives.

A Material Safety Data Sheet (MSDS) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Check the MSDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

(See your John Deere dealer for MSDS's on chemical products used with John Deere equipment.)



TS1132 -UN-26NOV90

DX.MSDS.NA -19-03/MAR93-1/1

## Practice Safe Maintenance

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate or service machine while it is moving. Keep hands, feet and clothing from power-driven parts.

Before servicing machine:

- Park machine on a level surface.
- Lower equipment to the ground.
- Move FNR lever to neutral.
- Move park lock lever to lock position.
- Run engine at 1/2 speed no load for two minutes.
- Move engine speed control lever to slow idle position.
- Turn key switch to OFF to stop engine. (If maintenance must be performed with engine running, do not leave machine unattended.)
- Remove key from switch.
- Release hydraulic pressure by moving control lever until equipment does not move.
- Attach a "Do Not Operate" tag on the front console latch.
- Turn battery disconnect switch off.
- Allow engine to cool.

If maintenance procedure must be performed with engine running, do not leave machine unattended.

Support any machine element that must be raised for service work. Never work under a machine supported by a jack.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.



TS216 -UN-23AUC88

### Stay Clear Of Moving Parts

Entanglements in moving parts can cause serious injury.

To prevent accidents, use care when working around rotating parts.



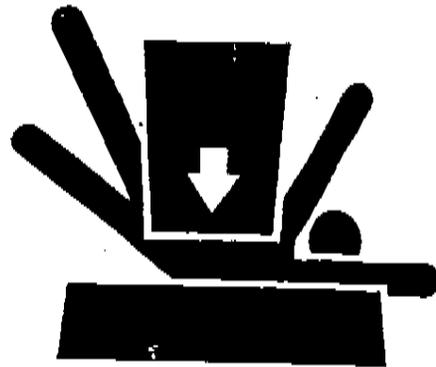
TX.05.RR.572 -19-12JUN90-1/1

T727DAS -UN-00JUN90

### Support Machine Properly

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



DX.LOWER -19-04JUN90-1/1

T5209 -UN-23AUG88

### Service Cooling System Safely

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.



DX.RCAP -19-04JUN90-1/1

T5281 -UN-23AUG88

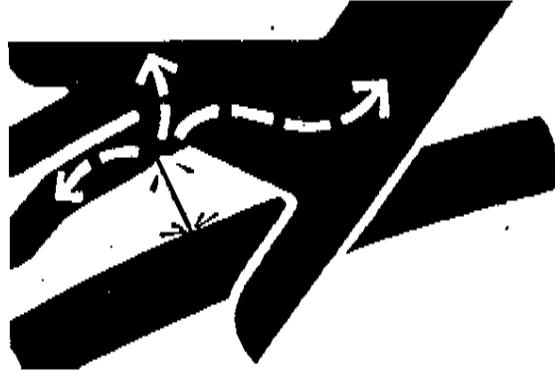
## Avoid High-Pressure Fluids

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source. Such information is available from Deere & Company Medical Department in Moline, Illinois, U.S.A.



X9811 -UH-23AUG68

DX,FLUID -19-03MAR93-1/1

## Dispose Of Waste Properly

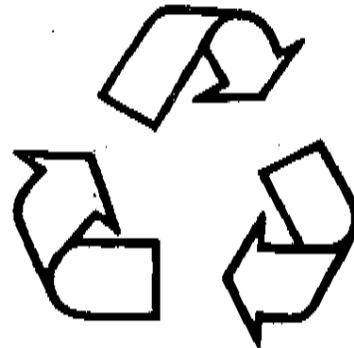
Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with John Deere equipment includes such items as oil, fuel, coolant, brake fluid, filters, and batteries.

Use leakproof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Air conditioning refrigerants escaping into the air can damage the Earth's atmosphere. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants.

Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center, or from your John Deere dealer.



TS1133 -UH-26NOV90

DX,DRAIN -19-03MAR93-1/1

### Remove Paint Before Welding Or Heating

Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



DX.PAINT -19-03MAR93-1

### Avoid Heating Near Pressurized Fluid Lines

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area.



TS953 -LIN-15JAN95

DX.TORCH -19-03MAR93-1/1

### Prevent Battery Explosions

Keep sparks, lighted matches, and open flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Do not charge a frozen battery; it may explode. Warm battery to 16°C (60°F).

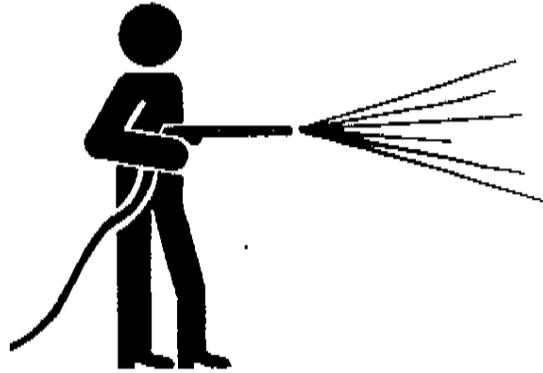


TS204 -LIN-23AUG88

DX.SPARKS -19-03MAR93-1/1

### Clean the Machine Regularly

Remove any grease, oil or debris build-up to avoid possible injury or machine damage.



02T.05.M40 -19-22FEB90-1/1

T6642EJ -UN-19OCT88

### Store Attachments Safely

Stored attachments such as buckets, hydraulic hammers, and blades can fall and cause serious injury or death.

Securely store attachments and implements to prevent falling. Keep playing children and bystanders away from storage area.



TX.05.RR.576 -19-26APR90-1/1

TS219 -UN-23AUG88

### Travel Safely

Know the location of bystanders before moving the machine.

Always keep the reverse warning alarm in working condition. It warns people when the machine starts to move in reverse.

Use a signal person when moving the machine in congested areas. Coordinate hand signals before starting the machine.



TX.05.OH.96 -19-02AUG89-1/1

T6564D -UN-20DEC88

# Safety Signs

## Safety Sign

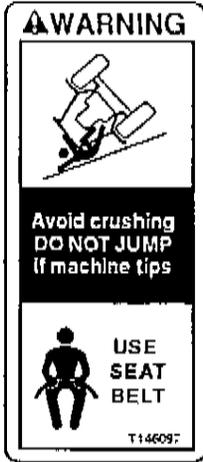


*A-Safety Decal—Start When Seating Only*



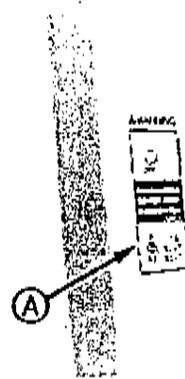
CEO, TX03768.2679 -19-1BFEB00-141

Safety Sign



T118045 -19-JUN09/98

A—Safety Decal—Use Seat Belt



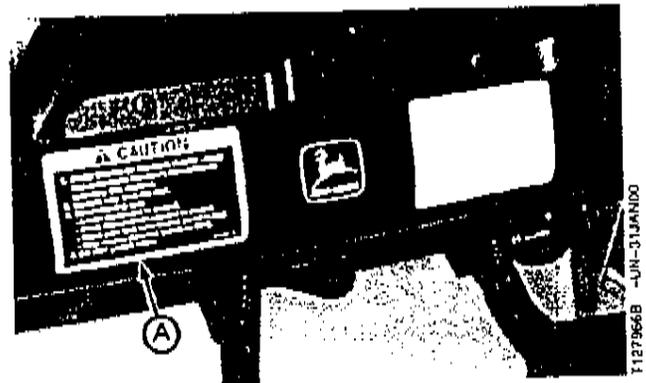
T118041B -19-05NOV98

TX,06 RR2914 -19-18FEB00-1/1

Safety Sign

<p><b>⚠ CAUTION</b></p> <p>1. <b>AVOID DEATH OR SERIOUS INJURY -</b> Read and understand Operator's Manual before operating this machine.</p> <p>2. Operate only from the seat.</p> <p>3. Before leaving seat:</p> <ul style="list-style-type: none"><li>- Lower equipment to ground.</li><li>- Place transmission selector in neutral.</li><li>- Place park lock lever in lock position (up).</li><li>- Stop engine (turn key switch to OFF).</li></ul> <p>4. <b>DO NOT</b> permit riders.</p>	<p><b>ENGINE START AND STOP PROCEDURE</b></p> <p><b>START and WARM UP</b> - At one-third speed setting, crank engine 20 seconds maximum. Allow 2 minutes between cranking periods. Use starting fluid as required but not before cranking. Warm up at half speed and <b>DO NOT</b> accelerate rapidly during warm up.</p> <p><b>STOPPING</b> - Operate at half speed <b>NO LOAD</b> 2 minutes before stopping. Set speed to low idle and stop engine.</p> <p><b>ENGINE STALL</b> - Remove load, restart immediately. Run 30 seconds at half speed before adding load.</p> <p>T11514</p>
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A—Safety Decal



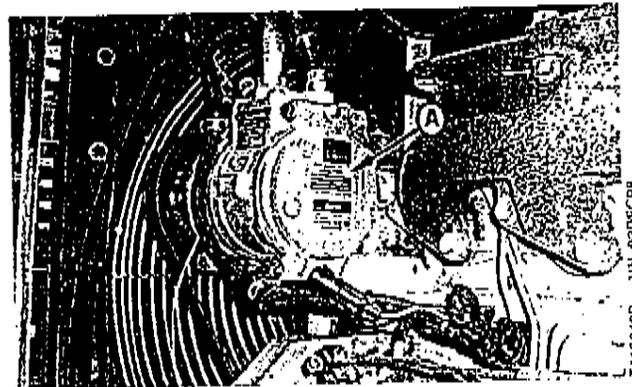
AG.0001032.1181 -19-18FEB00-1/1

Safety Sign

**⚠ CAUTION**

Pressurized refrigerant may penetrate eyes or cause burns. Wear goggles and protect skin.

A—Safety Decal— If Equipped

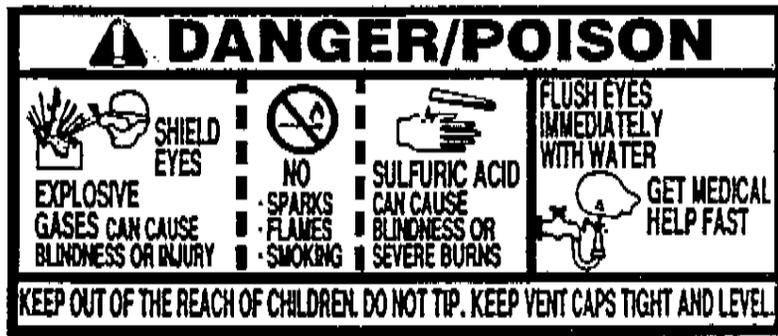


T118648 -19-02DEC98

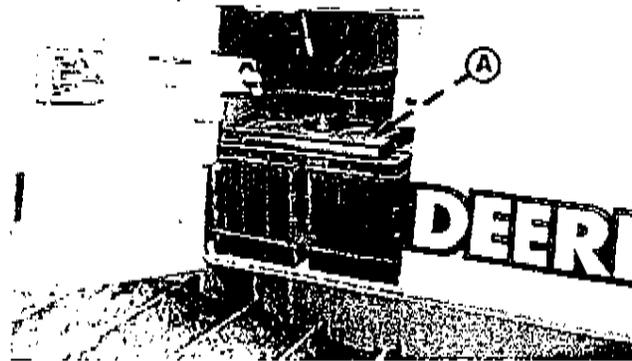
T118648B -UN-02DEC98

CED.0001032.1169 -19-18FEB00-1/1

Safety Sign



A-Safety Decal



T759JAC -19-30AUG91

T118436 -JUN-02DEC98

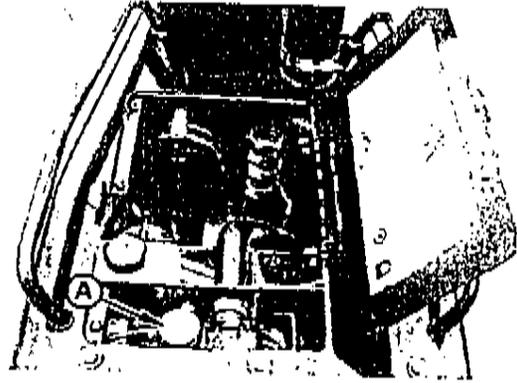
TX.06.RR7111 -19-18FEB00-1/1

Safety Signs

Safety Sign



A—Radiator Hot Decal



450H Shown

T118264 -19-30H098

T118267 -19M-20G017a

TX 06 RR212 413-184 E202-1 1

## EQUIPMENT OPERATOR 2 ACKNOWLEDGEMENT FORM

As an applicant for the Equipment Operator 2 (EO2) position and candidate for the EO 2 Physical Ability Test, Knowledge of Safety Proficiency and Bulldozer Proficiency Tests, you will be required to successfully demonstrate physical skills, which are essential functions of the position. Below are the specific statements from both the State of Ohio classification specifications and the Ohio Division of Forestry position description for an Equipment Operator 2:

State of Ohio Classification Specification:

- *“Performs general labor, maintenance & other related functions (e.g., loads & unloads materials; checks for damage; completes reports & other paperwork).”*
- *Skilled in equipment operations (e.g., chainsaws & hand tools)*
- *Ability to lift 100 pounds*
- *Ability to demonstrate physical fitness*

Ohio Division of Forestry position description:

- *Performs wildfire support as directed within training & physical capabilities*
- *Operates chainsaw for felling, bucking & limbing of trees*
- *Assists with wildfire suppression; performs wildfire & prescribed fire support as directed within training & physical capability; works with hand tools and dozer in construction of fire line & performs mop-up duties in conformance with standards taught in Basic Firefighter/Introduction to Fire Behavior (S-130/S-190) Course.*
- **Knowledge of safety practices (operation of motorized equipment & wildfire control)**
- **Skilled in equipment operations (motorized equipment & various tools & hand tools & firefighting equipment, chainsaws)**
- **Ability to demonstrate strength to lift 100 lbs.**
- **MUST HAVE SUCCESSFULLY COMPLETED THE BASIC FIREFIGHTER/INTRODUCTION TO FIRE BEHAVIOR COURSE (S-130/S-190)**
- **UNUSUAL WORKING CONDITIONS:** *Works outside in all weather conditions; exposed to dust, mud, dirt, fumes, noise & dangerous machinery.*

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I, (PRINT NAME) \_\_\_\_\_, have read and understand the foregoing description of physical skills that I may be asked to demonstrate.

By signing this document, I am truthfully representing to the Ohio Division of Forestry that I currently possess the abilities and experience sufficient to safely demonstrate these physical skills and that I have received and read the provided materials:

- Proper Lifting Poster
- Bulldozer Pre-trip inspection
- Bulldozer Safety Instructions
- Transporting the Bulldozer
- Operating the Engine
- Chainsaw inspection & Safety Sheet

\_\_\_\_\_(Candidate Signature) \_\_\_\_\_(Date)

## Operating the Engine

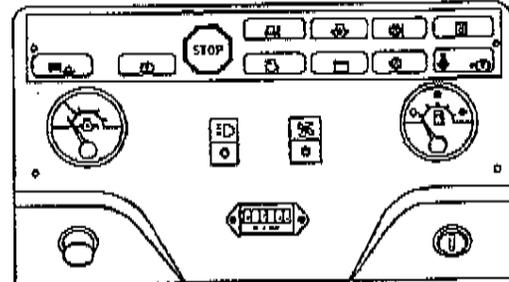
4. Immediately after starting engine, disconnect end of the negative cable from the machine frame and disconnect the other end of the negative cable from the negative terminal of the booster batteries.
5. Disconnect positive cable from booster batteries and machine batteries.

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### Check Instruments After Starting

**IMPORTANT:** If indicator lights do not go out or if gauges do not read in the safe zones after starting engine, **IMMEDIATELY STOP THE ENGINE.** Find and correct the cause.

Cold oil may cause hydraulic oil filter and transmission oil filter light to come on.



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### Engine Warm-Up

1. After engine starts, run at 1/2 speed for two minutes. Do not run at fast or slow idle.
2. Operate machine at less-than-normal loads and speeds until engine is at normal operating temperature.

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### **Cold Weather Warm-Up**

**NOTE:** *If hydraulic oil is cold, hydraulic functions move slowly. Do not attempt machine operations until hydraulic functions move at close-to-normal cycle times.*

In extremely cold conditions, an extended warming-up period will be necessary.

Avoid sudden operation of hydraulic functions until engine is thoroughly warmed up. Remove ice, snow, and mud from machine before operation.

1. Run engine at 1/2 speed for five minutes.
2. Cycle all hydraulic functions to distribute warmed oil until all functions operate freely.

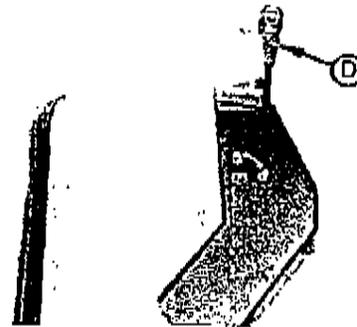
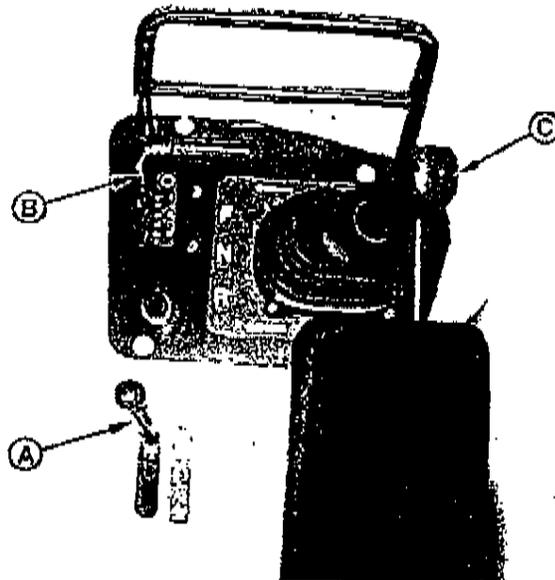
## Stopping the Engine

**IMPORTANT:** If engine stops when operating under load, move engine speed control lever to slow idle. Restart engine immediately. (Refer to Stalled Engine in this chapter for starting procedure.)

1. Park machine on a level surface.
2. Move FNR lever (C) to neutral.
3. Move park lock lever (D) to lock position.

**IMPORTANT:** To avoid damage to turbocharger (if equipped), run engine at 1/2 speed no load for two minutes.

4. Run engine at 1/2 speed no load for two minutes.
5. Move engine speed control lever (A) to slow idle position.
6. Turn key switch to OFF to stop engine.
7. Remove key from switch.
8. Release hydraulic pressure by moving control lever until equipment does not move.
9. Turn battery disconnect switch off.



A—Engine Speed Control Lever  
B—Transmission Speed Control Lever  
C—FNR Lever  
D—Park Lock Lever

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# Pre-Start Inspection

## Inspect Machine Daily Before Starting

1. Check engine coolant level in coolant recovery tank.
2. Check engine oil level.
3. Drain sediment from fuel/water separator.
4. Check hydraulic system oil level.
5. Check transmission oil level.
6. Check air cleaner dust unloader valve.
7. Check track sag.
8. Grease dozer linkage.

**ELECTRICAL SYSTEM:** Check for worn or frayed wires and loose or corroded connections.

**EQUIPMENT, SHEET METAL, TRACKS, HARDWARE:** Check for bent, broken, loose or missing parts.

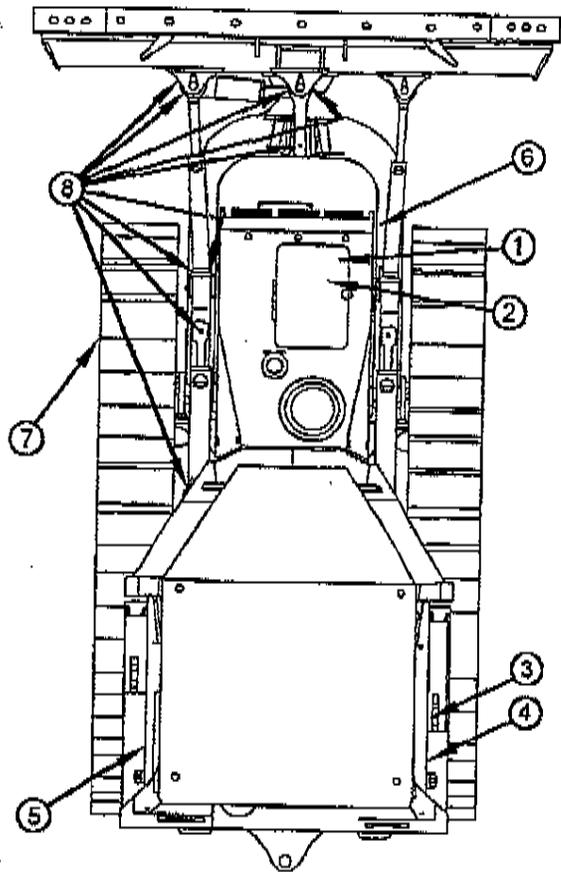
**HYDRAULIC SYSTEM:** Check for leaks, missing or loose clamps, kinked hoses, and lines or hoses that rub against each other or other parts.

**LUBRICATION:** Check lubrication points shown on Periodic Maintenance Chart.

**PROTECTIVE DEVICES:** Check guards, shields, ROPS or cab, covers, seat belt, reverse warning alarm.

**FIRE PREVENTION:** Clean machine of debris.

**SAFETY:** Walk around machine to clear all persons from machine area.



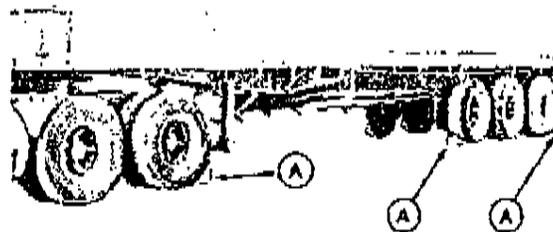
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# Transporting

## Loading and Unloading Machine on a Trailer

1. Keep the trailer bed clean.
2. Put chock blocks (A) against truck wheels.
3. Use a ramp or loading dock. Ramps must be strong enough, have a low angle, and be of correct height.
4. If machine is equipped with roll-over protective structure (ROPS) or cab, fasten seat belt before starting engine.
5. Load and unload the machine on a level surface.



**⚠ CAUTION:** Prevent possible injury from unexpected machine movement. Whenever possible, back the machine onto the trailer to prevent possible tipping.

6. Drive the machine onto the ramps squarely.
7. The centerline of the machine should be over the centerline of the trailer.
8. Lower all equipment onto blocks.
9. Move FNR lever to neutral.
10. Move park lock lever to lock position.

**IMPORTANT:** To avoid damage to turbocharger (if equipped), run engine at 1/2 speed no load for two minutes.

11. Run engine at 1/2 speed no load for two minutes.
12. Move engine speed control lever to slow idle position.
13. Turn key switch to OFF. Stop engine.
14. Remove key from switch.
15. Release hydraulic pressure by moving control lever until equipment does not move.
16. Turn battery disconnect switch off.

17. Cover exhaust opening to prevent entry of wind and water.

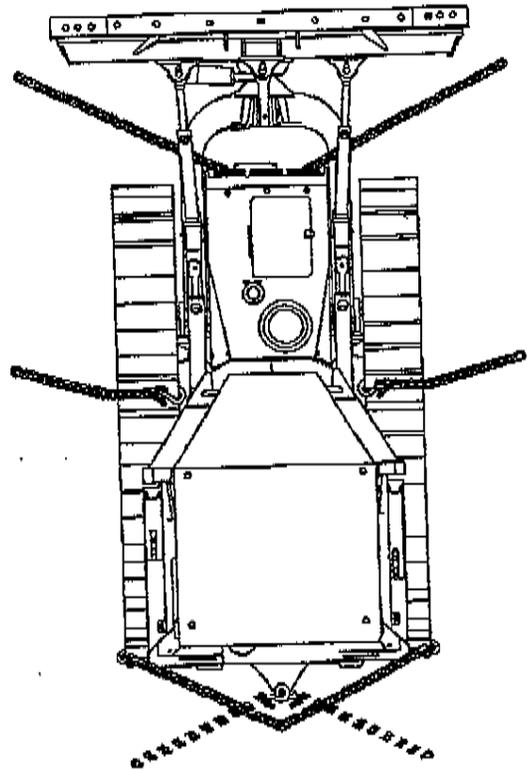
**IMPORTANT:** Fasten chains or cables to machine frame or track chain links. Do not place chains or cables over or against hydraulic lines or hoses.

18. Fasten each corner of the machine to the trailer with a chain or cable.

- Front: Use towhook eye on bottom of the machine frame front end.
- Side: Use inside edge of track shoe.
- Rear: Use outer edge of track shoe or drawbar (if equipped).

#### Unloading the Machine from the Trailer

1. Park the trailer on a level surface.
2. Place chocks against all trailer wheels.
3. Clean the trailer bed. Remove chains from the trailer bed. Uncover engine exhaust pipe.
4. Use long ramps to unload the machine.
5. Fasten seat belt.
6. Start the machine and run the engine at low idle for several minutes.
7. Raise the blade approximately 1 ft.
8. Release the park brake.
9. Shift to 1st. gear and drive slowly off the trailer.



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**OHIO DIVISION OF FORESTRY  
PHYSICAL ABILITY TEST (PAT)  
KNOWLEDGE OF SAFETY AND BULLDOZER PROFICIENCY TESTS  
WAIVER**

I, intending to be legally bound, hereby, for myself, my heirs, executors and administrators, voluntarily assume all risks of accident or injury and release and forever discharge the State of Ohio, Ohio Department of Natural Resources, and its employees, officers and agents, from any and all liability for personal injury or property damage of any kind sustained at \_\_\_\_\_ State Forest during the Physical Ability Test & Knowledge of Safety and Bulldozer Proficiency tests held on \_\_\_\_\_ (date) whether such personal injury or property damage is caused by the negligence of the State of Ohio, Ohio Department of Natural Resources, or its employees, officers, or agents, or otherwise.

I further covenant and agree to indemnify and hold harmless the State of Ohio, and the Ohio Department of Natural Resources and its employees, officers and agents, from all loss and expense, including but not limited to, damages, legal expenses and cost of defense, in any manner arising from my use of the State Forest.

\_\_\_\_\_  
Participant (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Participant (name printed legibly)