

J.E. LOVE Co.®

TREE SEEDLING HARVESTER

**J. E. LOVE COMPANY
P. O. BOX 188
GARFIELD, WA 99130
(509) 635-1321
FAX: (509) 635-1434**

LOVE TREE SEEDLING HARVESTER GENERAL SPECIFICATIONS

The J. E. Love Company manufactures complete seedling harvesting systems at operating rates of 100,000 to 150,000 seedlings per hour. The tractor driver operates the tractor and the basic harvesting functions from the tractor driver's seat. The manpower required to handle the cleaned seedlings varies with the handling system option and is from two to six people. Our equipment will accomplish the complete removal of forest tree seedlings from the nursery bed, remove the soil from the roots, deliver the seedlings to handling systems, and provide work stations for manual placement of seedlings into various containers. A standard agricultural row crop or utility tractor with large diameter tires with a minimum of 60 PTO horsepower and a minimum ground speed of 15 to 20 feet per minute (0.17 to 0.34 mph) is required. The seedling containers are furnished by the nursery and therefore are not part of the equipment specified by J. E. Love Company.

To specify a LOVE Tree Seedling Harvester requires that the buyer select on option from each of the categories of a Basic Machine which is a tractor drawn chassis and hydraulic package, a Pickup Unit mounted in the chassis which is the belt gathering package, and a Handling System which is the seedling handling and/or packaging package.

Two (2) Parts Catalog/Operator's Manuals, a Hydraulic Fluid Selection Manual, and a Parts Price List are furnished as standard with each Harvester.

Freight:

F.O.B. point is Garfield, WA. Freight to be prepaid and added, weight approximately 8500 LBS.

Small business Classification:

SIC# 352-3522

Federal ID Number:

91-0597706

Washington State Registration Number:

382-000-284

March 27, 2001



LEFT FRONT VIEW, BASIC MACHINE PACKAGE



RIGHT FRONT VIEW, BASIC MACHINE PACKAGE

BASIC MACHINE PACKAGE

B720002 72" Basic Hydraulic Harvester

The basic harvester is comprised of the Chassis, Hydraulic Pumps, Tank, and Controls components. Standard harvesters are designed for 72" (wheel center) nursery beds. All tractor connections are quick attach; the pump connection is standard 6-B spline quick disconnect for 540 rpm PTO and the electrical connection is by four (4) pole trailer plug. A 21-spline adapter for 1000 rpm PTO is furnished. Electrical control box, located on the tractor fender, is removable (one fastener) and can be stored with the harvester when the tractor is not connected to the harvester. No operator's seat or station on the Harvester Chassis; the tractor operator from the normal tractor operator's station controls all harvesting operations. Electro-Hydraulic controls mounted on the tractor within easy reach of the tractor driver allow he or she to make on-the-go adjustments while operating the tractor. Independent control of pickup frame height, undercutting blade position and depth. All three functions controlled by the tractor driver. Remote guidance of pickup frame so tractor driver can shift unit to line up with seedling rows. Manpower requirement: One (1).

The chassis is of two (2) wheel, tractor drawn design, with 11.24 x 24 8-ply rib implement high floatation tires, individual height control of the carrier wheels are adjusted from the tractor seat through the use of hydraulic cylinders for cutting blade depth control and slope adjustments, pivoting "U"-shaped full width cutting blade is rotated in and out of cutting position by hydraulic cylinders controlled from the tractor driver's station. The "U"-shaped cutting blade is hydraulically driven in an oscillating motion. The belt pickup package is remotely raised and lowered through the use of a hydraulic cylinder. The dual hydraulic pumps are driven by the tractor PTO (1000 rpm) through a gear speed increaser; the 40-gallon hydraulic tank mounts on the right harvester mainframe rail for better visibility by the operator of the seedling rows. Full flow 10-micron pressure filtration is standard. Electrical solenoid valves (12 volt DC) are used to control the hydraulic cylinders; all hydraulic functions are supplied by the self-contained hydraulic system. Tractor requirement: 60 PTO horsepower at 540 rpm, 0.17 to 0.34 mph minimum ground speed.

PICKUP UNIT PACKAGE

B721014 Heavy Duty 8 Row Pickup Package, Oscillating Root Cleaning System.

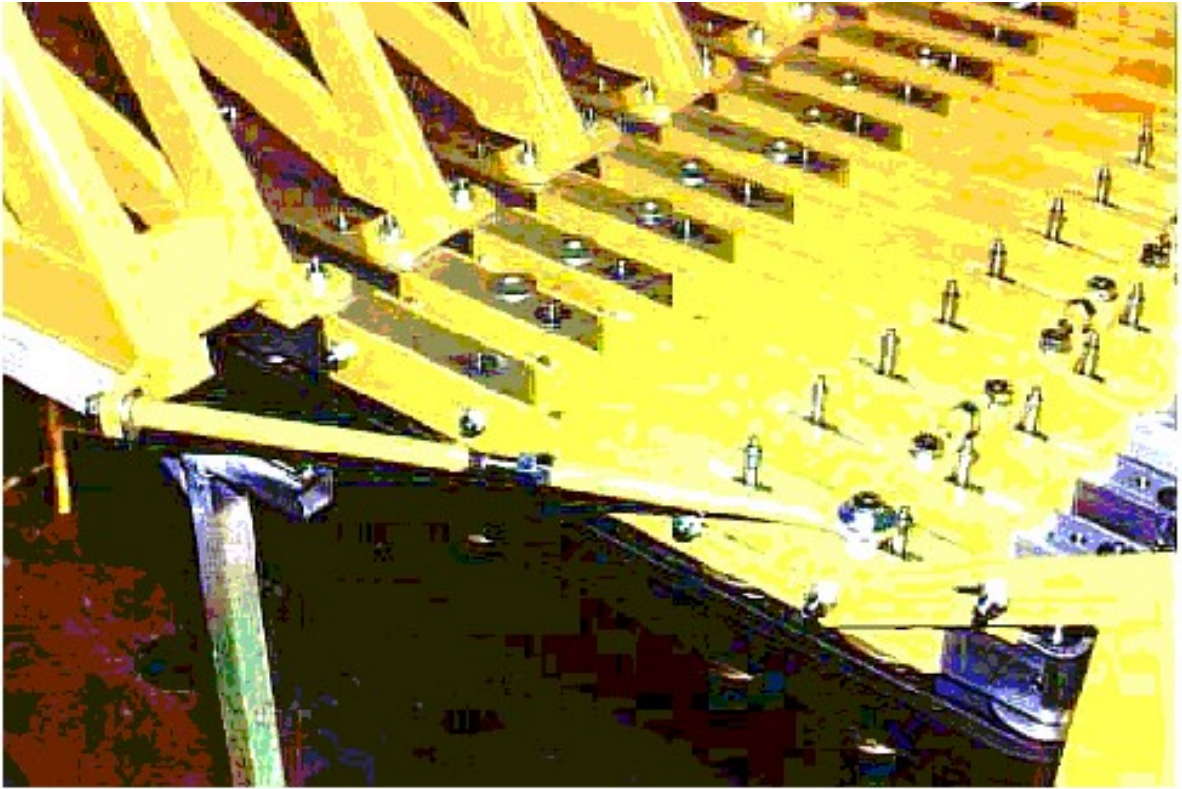
Belt style pickup system consisting of two (2) wide mating belts per row, adjustable belt speed, hydraulically driven. Universal joint drives, sheave scraper at each sheave, all idler sheaves are needle bearing, relubricable. Three idler assemblies at each belt carrier nose, row compression bolts for added seedling grip and side stabilizers are added to the standard B721001 package. Patented gradual contact, adjustable speed, balanced motion oscillating mycarta beater Root Cleaning System with 48" beaters and Timken bearings. Removable guarding of root shaker drives components. Manpower requirement: None.



OVERALL VIEW OF PICKUP UNIT IN OPERATION



FRONT VIEW OF PICKUP UNIT IN OPERATION



PICKUP UNIT DETAIL SHOWING HEAVY DUTY FEATURES



SHIELDS AND GUARDING

J.E. LOVE Co.®

TREE SEEDLING HARVESTER OPTIONAL PACKAGES

PICKUP PACKAGE CODES:

B721001	PICKUP UNIT, SEALED BEARINGS (B721005 + B721004)
B721008	H-DUTY 8-ROW PICKUP UNIT, OSCILLATING W/BALL BEARING 48" BEATER ROOT CLEANING SYSTEM
B721009	H-DUTY 7-ROW PICKUP UNIT, OSCILLATING W/BALL BEARING 48" BEATER ROOT CLEANING SYSTEM
B721010	H-DUTY 8-ROW PICKUP UNIT, OSCILLATING W/BALL BEARING 57" BEATER ROOT CLEANING SYSTEM
B721011	HEAVY DUTY PICKUP UNIT, SEALED BEARINGS - LESS ROOT CLEANING SYSTEM
B721012	H-DUTY 8-ROW PICKUP UNIT, SEALED BEARINGS - ROTARY ROOT CLEANING SYSTEM
B721013	H-DUTY 8-ROW PICKUP UNIT, OSCILLATING W/TIMKEN BEARING 57" BEATER ROOT CLEANING SYSTEM
B721014	H-DUTY 8-ROW PICKUP UNIT, OSCILLATING W/TIMKEN BEARING 48" BEATER ROOT CLEANING SYSTEM

HANDLING SYSTEM CODES:

B722000	BULK, MANUAL TRANSFER, FABRIC CONVEYOR - RH
B722001	SLING HANDLING & PACKAGING SYSTEM
B722002	ROLLER TRACK PACKAGE SYSTEM
B722003	SLING PACKAGING ONLY SYSTEM
B722004	SORTING CONVEYOR ONLY, TRAILER SYSTEM
B722005	BASIC TRAILER ONLY, NO HANDLING AIDS
B722006	SIDE CONVEYOR AUTOMATIC BULK SYSTEM
B722007	BAG BANDING TRAILER SYSTEM, LESS BANDER
B722008	BULK, MANUAL TRANSFER, MESH CONVEYOR - LH
B722009	BAG SEWING TRAILER SYSTEM LESS SEWING MACHINE
B722010	BULK, MANUAL TRANSFER, MESH CONVEYOR - RH
B722011	BULK, MANUAL TRANSFER, FABRIC CONVEYOR - LH
B722012	SORTING & UNLOAD CONVEYOR, LONG TRAILER
B722013	ROLLER TRACK, ALBERTA CONTAINER SYSTEM

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