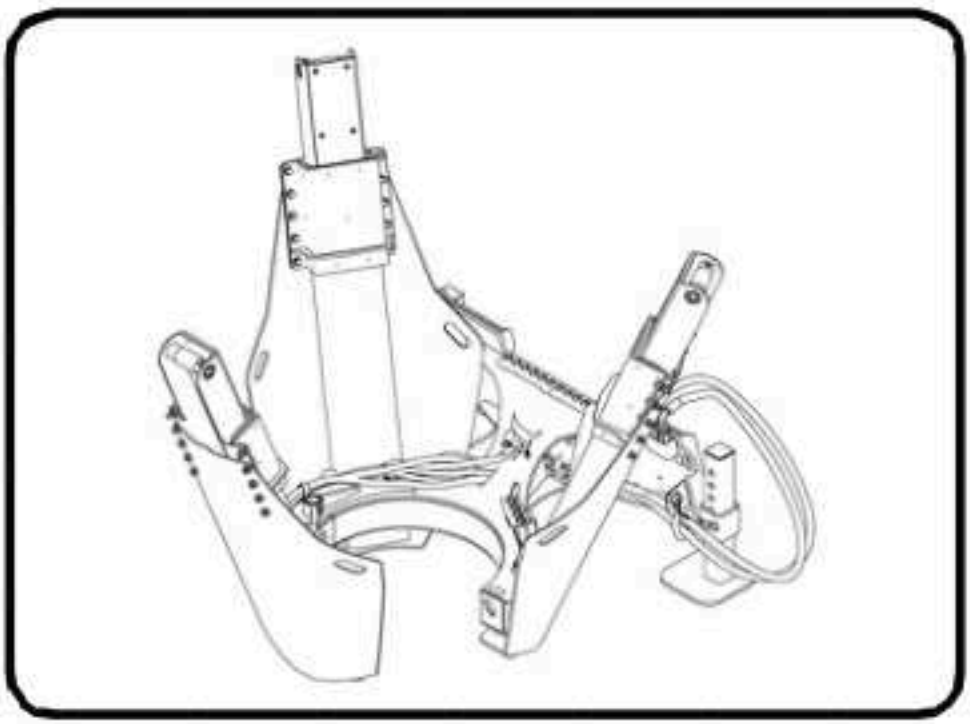
Bobcat®

Service Manual
Tree Spade

TS24T Convertible S/N A9SK00101 & Above
TS24T (Bobcat Only) S/N A9U200101 & Above
TS24M Convertible S/N A9SN00101 & Above
TS24M (Bobcat Only) S/N A9U500101 & Above
TS24C Convertible S/N A9UW00101 & Above
TS24C (Bobcat Only) S/N A9VC00101 & Above
TS28T Convertible S/N A8WG00101 & Above
TS28T (Bobcat Only) S/N A9U800101 & Above
TS28M Convertible S/N A9RT00101 & Above
TS28M (Bobcat Only) S/N A9UB00101 & Above
TS28C Convertible S/N A9V000101 & Above
TS28C (Bobcat Only) S/N A9VE00101 & Above
TS32T Convertible S/N A9TS00101 & Above
TS32T (Bobcat Only) S/N A9UE00101 & Above
TS32M Convertible S/N A9TV00101 & Above
TS32M (Bobcat Only) S/N A9UH00101 & Above
TS32C Convertible S/N A9V300101 & Above
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TS36T Convertible S/N A9SA00101 & Above
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TS36M Convertible S/N A9TZ00101 & Above
TS36M (Bobcat Only) S/N A9UP00101 & Above
TS36C Convertible S/N A9V600101 & Above
TS36C (Bobcat Only) S/N A9VJ00101 & Above
TS44 Convertible S/N A9SG00101 & Above
TS44 (Bobcat Only) S/N A9UT00101 & Above
TS44C Convertible S/N A9V900101 & Above
TS44C (Bobcat Only) S/N A9VL00101 & Above



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Chart (Cont'd)

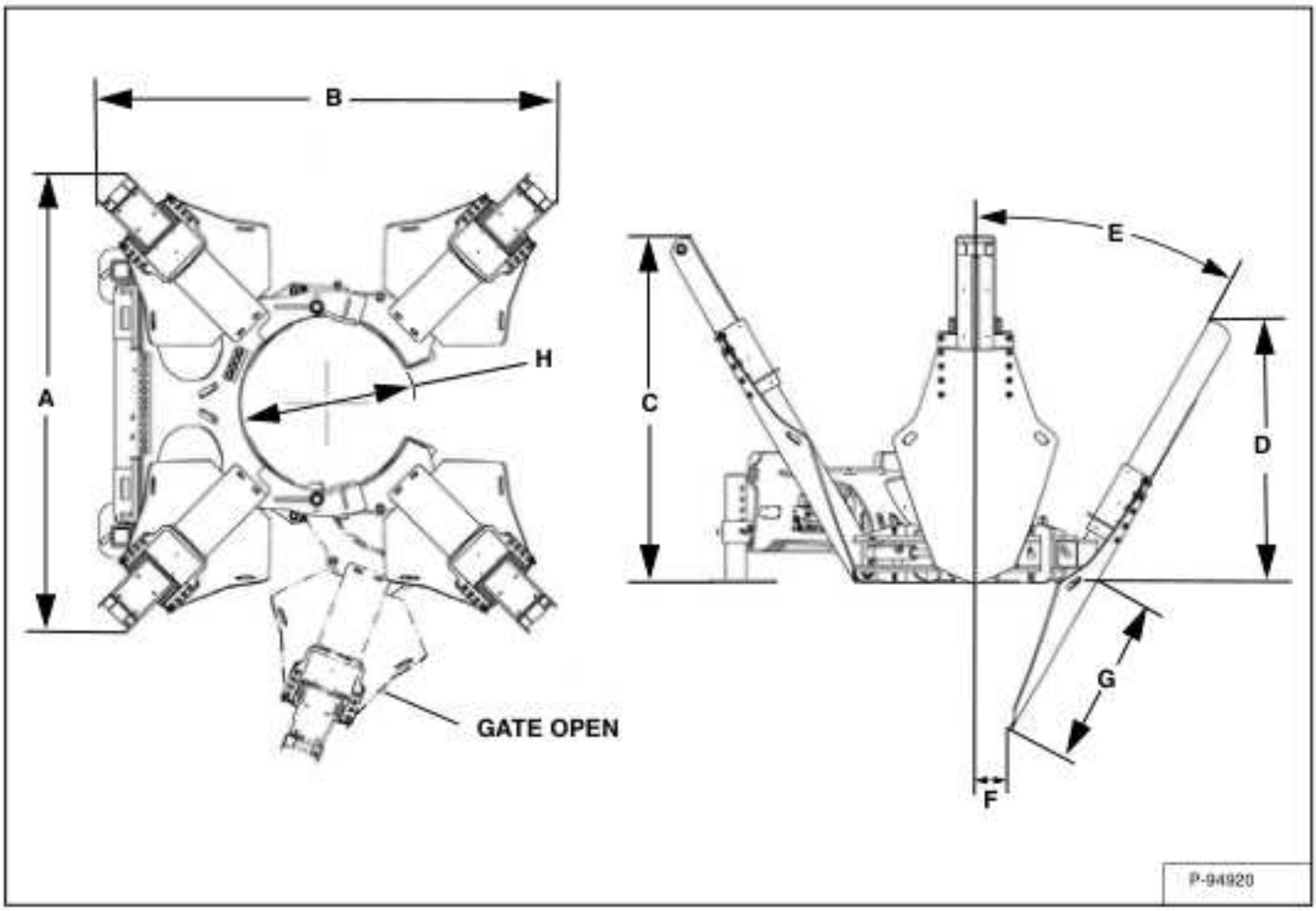
TROUBLESHOOTING THE TREE SPADE		
PROBLEM	**CAUSE**	**CORRECTION**
Tree spade will not penetrate soil.	Soil is too dry or hard for proper digging of tree spade.	Schedule digging when soil moisture is appropriate.
	Soil contains rocks or debris.	Reposition tree spade away from rocks and debris.
	Tree roots are too large for blades to cut.	Follow recommended tree size guidelines when operating the tree spade.
	Inadequate down pressure on tree spade.	Rear stabilizers are required when using the tree spade.
	Blades are dull or worn.	Sharpen blades.
Soil sticks to blades.	Soil conditions are too wet.	Schedule digging when soil conditions are appropriate.
Root ball of tree crumbles or breaks when digging.	Dull or worn blades will not cut tree roots.	Sharpen blades.
	Soil conditions are too dry.	Schedule digging when soil conditions are appropriate.
	Digging too large of tree for tree spade size.	Follow recommended tree size guidelines when operating tree spade.
Root ball falls out bottom of tree spade.	Soil conditions are too dry.	Schedule digging when soil conditions are appropriate.
	Improper model choice of tree spade.	Choose a Bobcat tree spade model with more blade closure.
Excessive wear or damage to the slide surface.	Uneven down pressure on blades of tree spade when digging.	Position the loader so it is level side to side when digging. Then use the loader tilt function to level the tree spade.
	Loose or exposed screw fasteners on nylon wear pads.	Tighten or replace screw fasteners if needed.
Tree spade will not dig root ball sizes as specified.	Soil conditions are too hard.	Schedule digging when soil conditions are appropriate.
	Operator not relieving down pressure of blades when digging.	Keep frame in contact with the ground. Retract blade to remove down pressure from tip prior to extending the next blade.
	Inadequate down pressure on tree spade.	Rear stabilizers are required when using the tree spade.

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(TS44) TREE SPADE SPECIFICATIONS

Dimensions

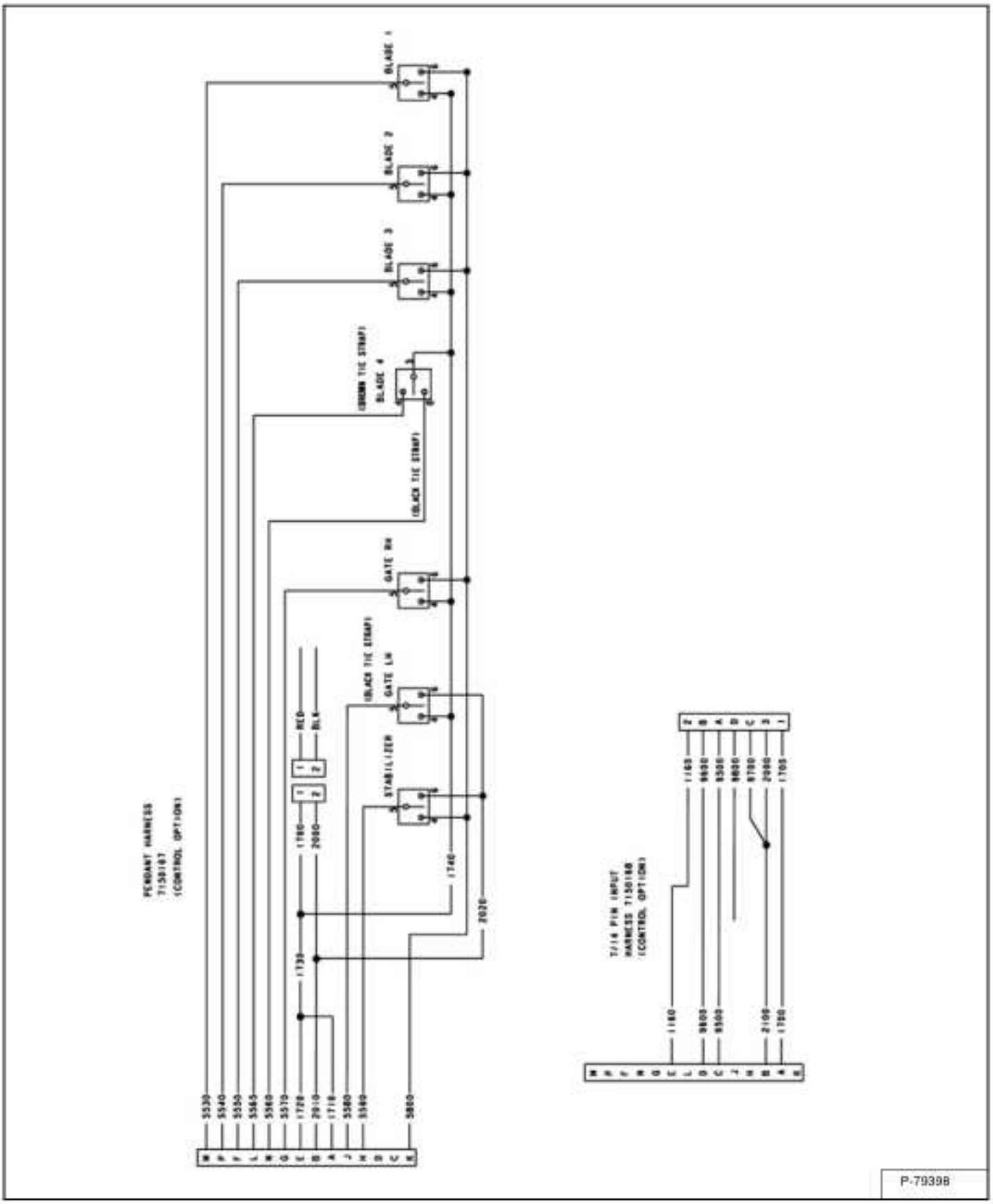
- All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specifications conform to **SAE & ISO** standards and are subject to change without notice.



TREE SPADE		
	TS44M	TS44C
Overall Width (A)	77.7 in. (1974 mm)	85.1 in. (2162 mm)
Overall Length (B)	78.5 in. (1994 mm)	85.1 in. (2162 mm)
Height, Blade Raised (C)	66.6 in. (1692 mm)	64.2 in. (1631 mm)
Height, Blade Lowered (D)	50.5 in. (1283 mm)	48.8 in. (1240 mm)
Tower Angle (E)	25°	30°
Bottom Opening Radius (F)	9.4 in. (239 mm)	5.6 in. (142 mm)
Blade Travel from Base (G)	31.0 in. (787 mm)	33.3 in. (846 mm)
Base Inside Diameter (H)	32.3 in. (820 mm)	32.3 in. (820 mm)

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ELECTRICAL SCHEMATIC - PENDANT CONTROL AND 7/14-PIN CONTROL HARNESS



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