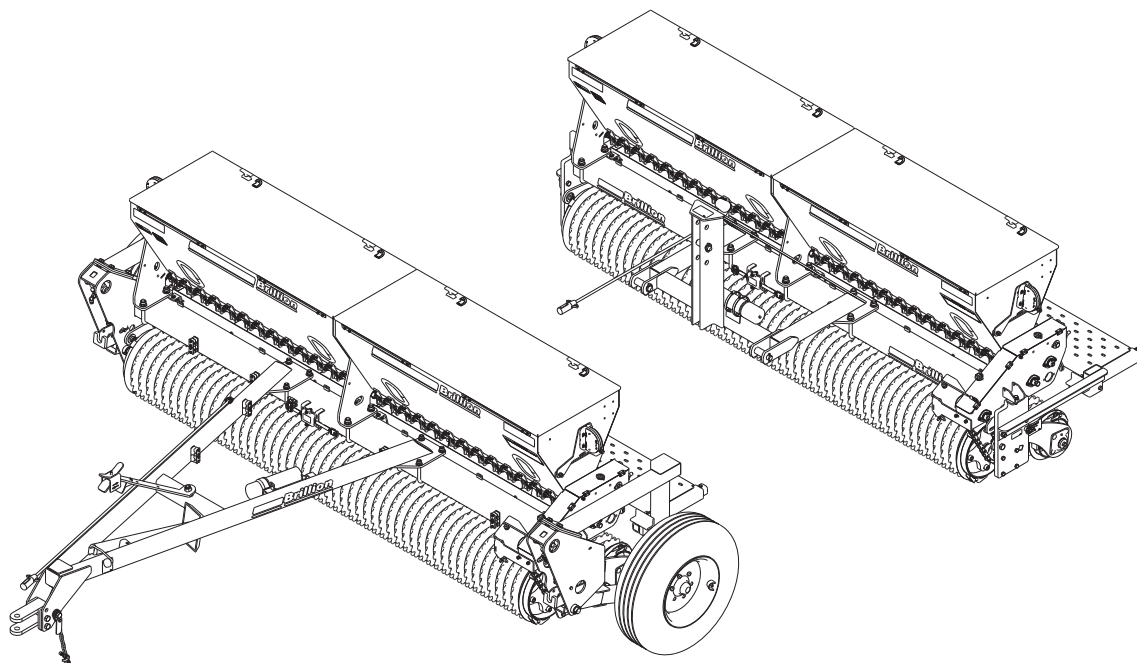




**High Capacity
Sure Stand Seeder
Models SS2081/SS2101/SS2121
SSP2081/SSP2101/SSP2121
Operator's Manual**



LANDOLL COMPANY, LLC

1900 North Street

Marysville, Kansas 66508

(785) 562-5381

800-428-5655 ~ **WWW.LANDOLL.COM**

Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone: 800-423-4320 or 785-562-5381

Fax: 888-527-3909

Order online: dealer.landoll.com

DATA PLATE

The Data Plate, which lists the model and serial number of the equipment, is located on the right side of the Sure Stand Seeder.

SERIAL NUMBER NOMENCLATURE

The following information will help decode the Landoll serial number.

ASD2100100 = xxmyysssss

xx	= model series (i.e. "AS" for all AG Seeders)
m	= month of manufacture (ex. "D" means April. The letter I is not used.)
yy	= last digits of the year manufactured (ex. "21" means 2021)
sssss	= Sequential number used to track warranty and service information.

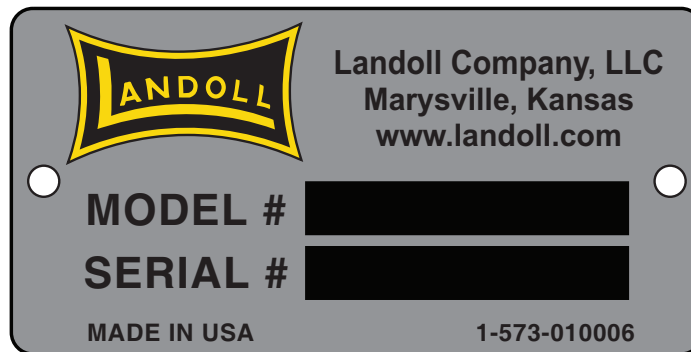


Figure: Data Plate

Manuals for High Capacity Sure Stand Seeder, Models SS2081/SS2101/SS2121 and SSP2081/SSP2101/SSP2121

Manual Number	Manual Type
1P126	Operator's Manual
1P125	Parts Manual



DANGER

DO NOT operate or perform any maintenance tasks on this equipment until you have completed the following:

- 1. Receive proper training to operate this equipment safely.**
- 2. Read and understand the operator's manual.**
- 3. Be thoroughly trained on inspection and repair procedures.**

Failure to comply with this warning may result in serious injury or possibly death.

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Safety Information

Introduction

The implement described in this manual has been designed with care and built by skilled workers using quality materials and processes. Proper assembly, maintenance of this machine will provide you with satisfactory use for seasons to come.



DANGER

Read this entire manual before attempting to assemble, adjust or operate this machine. Failure to comply with this warning can result in personal injury or death, damage to the machine or its components and inferior operation.

Description of Unit

The Brillion Sure Stand Agriculture Seeder provides precision seed metering and accurate seed depth placement, offering optimum germination. The SS2 Series Seeder offers more capacity by utilizing a Larger Seed Box with Micro-Meters, spaced 4-1/4" for an even better distribution of small seed varieties. Micro-Meters can be adjusted to permit precise metering with an infinite range of settings. Units are available in 3-PT Hitch and Drawbar.

Using this Manual

This manual will familiarize you with safety, assembly, operation, adjustment, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

- The information in this manual is current at time of printing. Some parts may change to assure top performance.
- Location reference: Right and Left designations in this manual are determined by facing the direction the machine will travel during field operation, unless otherwise stated.

Owner Assistance

If customer service or repairs are needed, contact your Brillion dealer. Implement parts should only be replaced with Brillion parts. Have the Serial Number and complete Model Number available when ordering parts from your Brillion dealer. If items covered in this manual are not understood, contact your local Brillion dealer.

Warranty Registration

To be eligible for Warranty, registration must be on file at Landoll Company, LLC. It is the responsibility of the dealer to register the machine within 10 days of purchase or lease on the Dealer Portal. Check with the dealer to verify the machine has been registered.

NOTE: IMPROPER ASSEMBLY, MODIFICATION, OR MAINTENANCE OF YOUR LANDOLL MACHINE CAN VOID YOUR WARRANTY.

Enter your product information below for quick reference. Refer to the Data Plate as shown. **See Figure 1-1.**

MODEL NUMBER

SERIAL NUMBER

DATE OF PURCHASE

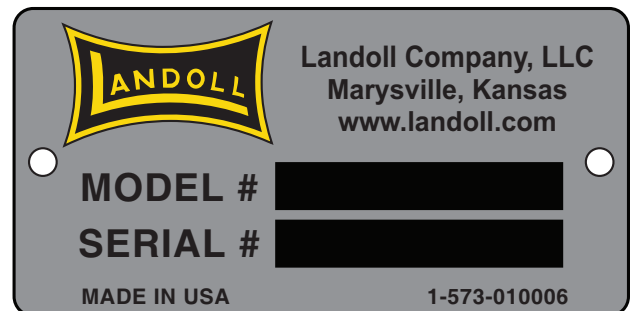


Figure 1-1: Data Plate

Safety

NOTE

Investigation has shown that nearly 1/3 of all farm accidents are caused by careless use of machinery. Insist that all people working with you or for you abide by all safety instructions.

Understanding Safety Statements

You will find various types of safety information on the following pages and on the machine decals (signs) attached to the vehicle. This section explains their meaning.

NOTICE

Special notice - read and thoroughly understand.



CAUTION

Proceed with caution. Failure to heed caution may cause injury to person or damage product.



WARNING

Proceed with caution. Failure to heed warning will cause injury to person or damage product.



DANGER

Proceed with extreme caution. Failure to heed notice will cause injury or death to person and/or damage product.

NOTE

You should read and understand the information contained in this manual and on the machine decals before you attempt to operate or maintain this equipment.

- Examine safety decals and be sure you have the correct safety decals for the machine. **See Figures 1-3.**
- Order replacement decals through your Brillion dealer.
- Keep these signs clean so they can be observed readily. It is important to keep these decals cleaned more frequently than the machine. Wash with soap and water or a cleaning solution as required.
- Replace decals that become damaged or lost. Also, be sure that any new machine components installed during repair include decals which are assigned to them by the manufacturer.

- When applying decals to the machine, be sure to clean the surface to remove any dirt or residue. Where possible, sign placement should protect the sign from abrasion, damage, or obstruction from mud, dirt, oil etc.



DANGER

- **Do not allow extra riders on the tractor or a machine. Riders could be struck by foreign objects or thrown from the machine.**
- **Never allow children to operate equipment.**
- **Keep bystanders away from the machine during operation.**

High Power Magnet

The Brillion Elite Mini Monitor uses very powerful Neodymium Magnets. Read all the warnings before operating the machine.



WARNING

1. Neodymium Magnets are brittle; they can be broken or can splinter in a collision. One should wear gloves and protective glasses when handling these magnets, because splinters and/or spacers could disengage and fly from the magnets.
2. Normal Neodymium Magnets will lose their magnetic properties if heated above 175°F (80° C).
3. The strong magnetic fields of Neodymium Magnets can damage items such as televisions, computer monitors, credit cards, bank cards, computers, diskettes and other data carriers, video tapes, mechanical watches, hearing aides, loud speakers and VCRs. Pace-Makers may be damaged or switch to "Test Mode" in the presence of a strong magnetic force, if a Pace-Maker or other electrical body implant is in use, Keep a Minimum of 3 Feet Distance.
4. Children should not be allowed to handle Neodymium Magnets as they can be dangerous. Small magnets pose a choking hazard and should never be swallowed or inserted into any part of the body.
5. Under no circumstances should you try to cut, saw or drill the Neodymium Magnet! Not only would the magnet break, but the resulting dust from the magnet is very flammable. Neodymium Magnets should never be burned, as burning them will create toxic fumes.

Transporting Safety

IMPORTANT

It is the responsibility of the owner/operator to comply with all state and local laws.

- When transporting the machine on a road or highway, use adequate warning symbols, reflectors, lights and slow moving vehicle sign (purchased separately), as required. Slow moving tractors and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- Do not tow an implement that, when fully loaded, weighs more than 1.5 times the weight of the towing vehicle.
- Carry reflectors or flags to mark tractor and implement in case of breakdown on the road.
- Do not transport at speeds over 20 MPH under good conditions. Never travel at a speed which does not allow adequate control of steering and stopping. Reduce speed if towed load is not equipped with brakes.
- Avoid sudden stops or turns because the weight of the machine may cause the operator to lose control of the tractor.
- Use caution when towing behind articulated steering tractors; fast or sharp turns may cause the machine to shift sideways.
- Keep clear of overhead power lines and other obstructions when transporting. Know transport height and width of your machine. **Refer to “Specifications” on Pages 6-1 through 6-3.**

Safety Instructions for Towing Vehicles

The maximum travel speed is the lesser of

- the road conditions;
- The maximum specified ground speed;
 - for towing operations as indicated in this manual or SIS;
 - of the towed vehicle as indicated in its operator’s manual, SIS, or information sign;
- The maximum ground speed of the towed equipment combination shall be limited to the lowest specified ground speed of any of the towed machines. This speed is the ground speed limitation.

EXAMPLE: If the tractor is capable of 25 mph, the first implement has a SIS for 19 mph, and the last implement’s operator’s manual states its specified ground speed is 15 mph, the towed equipment combination ground speed limitation is 15 mph.

Attaching, Detaching and Storage

- Do not stand between the tractor and the implement when attaching or detaching the implement unless both are not moving.
- Before applying pressure to the hydraulic system, be sure all connections are tight and that hydraulic lines and hoses are not damaged.
- Completely raise machine and install transport locks. If desired to store lowered and on unpaved surface, place hardwood blocks under roller to keep off ground.
- Block implement so it will not roll when unhitched from the tractor.
- Relieve pressure in hydraulic lines before uncoupling hydraulic hoses from tractor.
- Use the Safety Chain to help control drawn machinery should it separate from the tractor drawbar.

NOTE

*To relieve hydraulic pressure: Depending on tractor hydraulic system, some can be relieved by actuating control lever after engine is stopped. If tractor has electric over hydraulic controls, it may be necessary to move the control lever to the float position. **Refer to Tractor’s Operator’s Manual.***

Wear protective gloves and safety glasses or goggles when working with hydraulic systems.

Maintenance Safety

- Block the machine so it will not roll when working on or under it.
- Transport Locks installed.
- Do not make adjustments or lubricate machine while it is in motion.
- Make sure all moving parts have stopped and all system pressure is relieved.
- Understand the procedure before doing the work. Use the proper tools and equipment.

Protective Equipment

- Wear protective clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- Because prolonged exposure to loud noise can cause hearing impairment or hearing loss, wear suitable hearing protection, such as earmuffs or earplugs.

Prepare for Emergencies

- Keep a First Aid Kit and Fire Extinguisher handy.
- Keep emergency numbers for doctor, ambulance, hospital and fire department near the phone.

Tire Safety

Tire changing can be dangerous and should be performed by trained personnel using correct tools and equipment.

- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side, not in front of or over the tire assembly. Use a safety cage if available.
- When removing and installing wheels use wheel-handling equipment adequate for the weight involved.

Chemical Safety

Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil and property.

- Read chemical manufacturer's instructions and store or dispose of unused chemicals as specified. Handle chemicals with care and avoid inhaling smoke from any type of chemical fire.
- Store or dispose of unused chemicals as specified by the chemical manufacturer.

High Pressure Fluid Safety

Escaping fluid under pressure can be nearly invisible and have enough force to penetrate the skin causing serious injury. Use a piece of cardboard, rather than hands, to search for suspected leaks.

- Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.
- Avoid the hazard by relieving pressure before disconnecting hydraulic lines.

NOTE

*To relieve hydraulic pressure: Depending on tractor hydraulic system, some can be relieved by actuating control lever after engine is stopped. If tractor has electric over hydraulic controls, it may be necessary to move the control lever to the float position. **Refer to Tractor's Operator's Manual.***

Wear protective gloves and safety glasses or goggles when working with hydraulic systems.

Safety Chain

1. Use the Safety Chain to help control drawn machinery should it separate from the Tractor Drawbar.
2. Use a chain with a strength rating equal to or greater than the gross weight of towed machinery, in accordance with ASAE S338.2 specifications. If two or more machines are pulled in tandem, a larger chain may be required. Chain capacity must be greater than the total weight of all towed machines.

A second chain should be used between each machine.

3. Attach the chain to the Tractor Drawbar Support or specified anchor location. Never attach the chain to an intermediate support. Allow only enough slack in the chain to permit turning. The distance from Hitch Pin to attachment point or intermediate support point should not exceed 9 inches. **See Figure 1-2.** If the distance from the Drawbar Pin to either the front or rear chain attachment point exceeds 9 inches, intermediate chain support is required. **See Tractor Operator's Manual.**
4. Replace chain if any links or end fittings are broken, stretched or damaged.
5. Do not use a Safety Chain for towing.

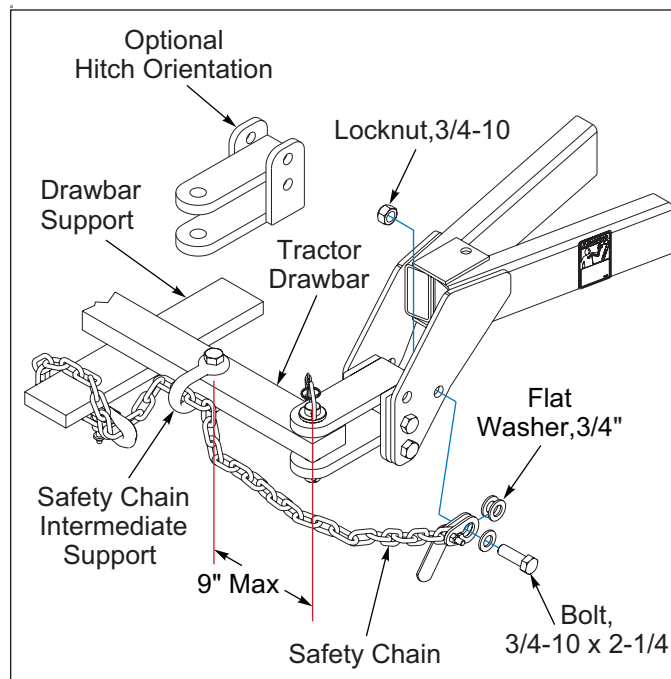


Figure 1-2: Safety Chain

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Table provided for general use.

[illegible]

Decals

Brillion

ITEM 1 - 4K036

Brillion

ITEM 2 - 4K037

Brillion
A LANDOLL PRODUCT

ITEM 3 - 170509

Brillion
A LANDOLL PRODUCT

ITEM 4 - 170510

Brillion

ITEM 5 - 4K039

Sure-Stand

ITEM 6 - 4K387

ITEM 7

SS208

6K579

SS210

6K578

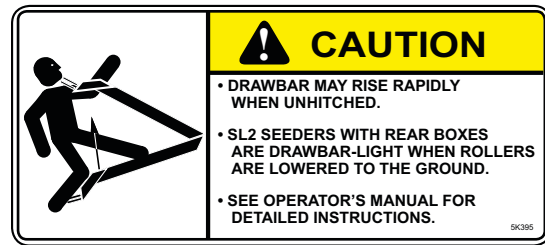
SS212

6K577

ITEM 8 - 528933

ITEM 9 - 528934

ITEM 10 - 528938



ITEM 11 - 5K395

CALIBRATION OF SEED BOX

Machine May Be Calibrated for Unlisted Seed as Follows:

1. Disengage Clutch (electrical power is required). Otherwise, remove or disengage chain from 37 Tooth Sprocket.
2. Place machine & lock in transport position.
3. Place a canvas or tarp under machine to collect seed.
4. Turn 15/16 Hex on Transmission shaft (211) revolutions clockwise (422 if 22 Tooth Driver is used). 42 Turns May be used if results are adjusted as shown in Step #5.
5. Weigh seed for approximate planting rate. Multiply weight by 5 (10 for 22 Tooth Driver) if only 42 Turns were used.

PLANTING RATES FOR SEED METER IN POUNDS PER ACRE

1. Rates are for 11-Tooth Driver. Double these rates for 22-Tooth Driver.
2. Rates are intended as a guide only. Variations in size and cleanliness will affect rates. Check acreage & pounds of seed used for best results.

Indicator Setting	1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A 29A 30A 31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A 42A 43A 44A 45A 46A 47A 48A 49A 50A 51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A 62A 63A 64A 65A 66A 67A 68A 69A 70A 71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A 82A 83A 84A 85A 86A 87A 88A 89A 90A 91A 92A 93A 94A 95A 96A 97A 98A 99A 100A 101A 102A 103A 104A 105A 106A 107A 108A 109A 110A 111A 112A 113A 114A 115A 116A 117A 118A 119A 120A 121A 122A 123A 124A 125A 126A 127A 128A 129A 130A 131A 132A 133A 134A 135A 136A 137A 138A 139A 140A 141A 142A 143A 144A 145A 146A 147A 148A 149A 150A 151A 152A 153A 154A 155A 156A 157A 158A 159A 160A 161A 162A 163A 164A 165A 166A 167A 168A 169A 170A 171A 172A 173A 174A 175A 176A 177A 178A 179A 180A 181A 182A 183A 184A 185A 186A 187A 188A 189A 190A 191A 192A 193A 194A 195A 196A 197A 198A 199A 200A 201A 202A 203A 204A 205A 206A 207A 208A 209A 210A 211A 212A 213A 214A 215A 216A 217A 218A 219A 220A 221A 222A 223A 224A 225A 226A 227A 228A 229A 230A 231A 232A 233A 234A 235A 236A 237A 238A 239A 240A 241A 242A 243A 244A 245A 246A 247A 248A 249A 250A 251A 252A 253A 254A 255A 256A 257A 258A 259A 260A 261A 262A 263A 264A 265A 266A 267A 268A 269A 270A 271A 272A 273A 274A 275A 276A 277A 278A 279A 280A 281A 282A 283A 284A 285A 286A 287A 288A 289A 290A 291A 292A 293A 294A 295A 296A 297A 298A 299A 300A 301A 302A 303A 304A 305A 306A 307A 308A 309A 310A 311A 312A 313A 314A 315A 316A 317A 318A 319A 320A 321A 322A 323A 324A 325A 326A 327A 328A 329A 330A 331A 332A 333A 334A 335A 336A 337A 338A 339A 340A 341A 342A 343A 344A 345A 346A 347A 348A 349A 350A 351A 352A 353A 354A 355A 356A 357A 358A 359A 360A 361A 362A 363A 364A 365A 366A 367A 368A 369A 370A 371A 372A 373A 374A 375A 376A 377A 378A 379A 380A 381A 382A 383A 384A 385A 386A 387A 388A 389A 390A 391A 392A 393A 394A 395A 396A 397A 398A 399A 400A 401A 402A 403A 404A 405A 406A 407A 408A 409A 410A 411A 412A 413A 414A 415A 416A 417A 418A 419A 420A 421A 422A 423A 424A 425A 426A 427A 428A 429A 430A 431A 432A 433A 434A 435A 436A 437A 438A 439A 440A 441A 442A 443A 444A 445A 446A 447A 448A 449A 450A 451A 452A 453A 454A 455A 456A 457A 458A 459A 460A 461A 462A 463A 464A 465A 466A 467A 468A 469A 470A 471A 472A 473A 474A 475A 476A 477A 478A 479A 480A 481A 482A 483A 484A 485A 486A 487A 488A 489A 490A 491A 492A 493A 494A 495A 496A 497A 498A 499A 500A 501A 502A 503A 504A 505A 506A 507A 508A 509A 510A 511A 512A 513A 514A 515A 516A 517A 518A 519A 520A 521A 522A 523A 524A 525A 526A 527A 528A 529A 530A 531A 532A 533A 534A 535A 536A 537A 538A 539A 540A 541A 542A 543A 544A 545A 546A 547A 548A 549A 550A 551A 552A 553A 554A 555A 556A 557A 558A 559A 560A 561A 562A 563A 564A 565A 566A 567A 568A 569A 570A 571A 572A 573A 574A 575A 576A 577A 578A 579A 580A 581A 582A 583A 584A 585A 586A 587A 588A 589A 590A 591A 592A 593A 594A 595A 596A 597A 598A 599A 600A 601A 602A 603A 604A 605A 606A 607A 608A 609A 610A 611A 612A 613A 614A 615A 616A 617A 618A 619A 620A 621A 622A 623A 624A 625A 626A 627A 628A 629A 630A 631A 632A 633A 634A 635A 636A 637A 638A 639A 640A 641A 642A 643A 644A 645A 646A 647A 648A 649A 650A 651A 652A 653A 654A 655A 656A 657A 658A 659A 660A 661A 662A 663A 664A 665A 666A 667A 668A 669A 670A 671A 672A 673A 674A 675A 676A 677A 678A 679A 680A 681A 682A 683A 684A 685A 686A 687A 688A 689A 690A 691A 692A 693A 694A 695A 696A 697A 698A 699A 700A 701A 702A 703A 704A 705A 706A 707A 708A 709A 710A 711A 712A 713A 714A 715A 716A 717A 718A 719A 720A 721A 722A 723A 724A 725A 726A 727A 728A 729A 730A 731A 732A 733A 734A 735A 736A 737A 738A 739A 740A 741A 742A 743A 744A 745A 746A 747A 748A 749A 750A 751A 752A 753A 754A 755A 756A 757A 758A 759A 760A 761A 762A 763A 764A 765A 766A 767A 768A 769A 770A 771A 772A 773A 774A 775A 776A 777A 778A 779A 780A 781A 782A 783A 784A 785A 786A 787A 788A 789A 790A 791A 792A 793A 794A 795A 796A 797A 798A 799A 800A 801A 802A 803A 804A 805A 806A 807A 808A 809A 810A 811A 812A 813A 814A 815A 816A 817A 818A 819A 820A 821A 822A 823A 824A 825A 826A 827A 828A 829A 830A 831A 832A 833A 834A 835A 836A 837A 838A 839A 840A 841A 842A 843A 844A 845A 846A 847A 848A 849A 850A 851A 852A 853A 854A 855A 856A 857A 858A 859A 860A 861A 862A 863A 864A 865A 866A 867A 868A 869A 870A 871A 872A 873A 874A 875A 876A 877A 878A 879A 880A 881A 882A 883A 884A 885A 886A 887A 888A 889A 890A 891A 892A 893A 894A 895A 896A 897A 898A 899A 900A 901A 902A 903A 904A 905A 906A 907A 908A 909A 910A 911A 912A 913A 914A 915A 916A 917A 918A 919A 920A 921A 922A 923A 924A 925A 926A 927A 928A 929A 930A 931A 932A 933A 934A 935A 936A 937A 938A 939A 940A 941A 942A 943A 944A 945A 946A 947A 948A 949A 950A 951A 952A 953A 954A 955A 956A 957A 958A 959A 960A 961A 962A 963A 964A 965A 966A 967A 968A 969A 970A 971A 972A 973A 974A 975A 976A 977A 978A 979A 980A 981A 982A 983A 984A 985A 986A 987A 988A 989A 990A 991A 992A 993A 994A 995A 996A 997A 998A 999A 1000A
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ITEM 12
6K588 - Seed Chart SS2081

CALIBRATION

Machine May Be Calibrated for Unlisted Seed as Follows:

1. Disengage Clutch (electrical power is required). Otherwise, remove or disengage chain from 37 Tooth Sprocket.
2. Place machine & lock in transport position.
3. Place a canvas or tarp to catch seed.
4. Turn 15/16 Hex on Transmission shaft (211) revolutions clockwise (422 if 22 Tooth Driver is used). 42 Turns May be used if results are adjusted as shown in Step #5.
5. Weigh seed for approximate planting rate. Multiply weight by 5 (10 for 22 Tooth Driver) if only 42 Turns were used.

PLANTING RATES FOR SEED METER (FRONT BOX) IN POUNDS PER ACRE

1. Rates are for 11 Tooth Driver. Double these values for 22 Tooth Driver.
2. Rates are intended as a guide only. Variations in size and cleanliness will affect rates. Check acreage & pounds of seed used for best results.

Indicator Setting	1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A 29A 30A 31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A 42A 43A 44A 45A 46A 47A 48A 49A 50A 51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A 62A 63A 64A 65A 66A 67A 68A 69A 70A 71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A 82A 83A 84A 85A 86A 87A 88A 89A 90A 91A 92A 93A 94A 95A 96A 97A 98A 99A 100A 101A 102A 103A 104A 105A 106A 107A 108A 109A 110A 111A 112A 113A 114A 115A 116A 117A 118A 119A 120A 121A 122A 123A 124A 125A 126A 127A 128A 129A 130A 131A 132A 133A 134A 135A 136A 137A 138A 139A 140A 141A 142A 143A 144A 145A 146A 147A 148A 149A 150A 151A 152A 153A 154A 155A 156A 157A 158A 159A 160A 161A 162A 163A 164A 165A 166A 167A 168A 169A 170A 171A 172A 173A 174A 175A 176A 177A 178A 179A 180A 181A 182A 183A 184A 185A 186A 187A 188A 189A 190A 191A 192A 193A 194A 195A 196A 197A 198A 199A 200A 201A 202A 203A 204A 205A 206A 207A 208A 209A 210A 211A 212A 213A 214A 215A 216A 217A 218A 219A 220A 221A 222A 223A 224A 225A 226A 227A 228A 229A 230A 231A 232A 233A 234A 235A 236A 237A 238A 239A 240A 241A 242A 243A 244A 245A 246A 247A 248A 249A 250A 251A 252A 253A 254A 255A 256A 257A 258A 259A 260A 261A 262A 263A 264A 265A 266A 267A 268A 269A 270A 271A 272A 273A 274A 275A 276A 277A 278A 279A 280A 281A 282A 283A 284A 285A 286A 287A 288A 289A 290A 291A 292A 293A 294A 295A 296A 297A 298A 299A 300A 301A 302A 303A 304A 305A 306A 307A 308A 309A 310A 311A 312A 313A 314A 315A 316A 317A 318A 319A 320A 321A 322A 323A 324A 325A 326A 327A 328A 329A 330A 331A 332A 333A 334A 335A 336A 337A 338A 339A 340A 341A 342A 343A 344A 345A 346A 347A 348A 349A 350A 351A 352A 353A 354A 355A 356A 357A 358A 359A 360A 361A 362A 363A 364A 365A 366A 367A 368A 369A 370A 371A 372A 373A 374A 375A 376A 377A 378A 379A 380A 381A 382A 383A 384A 385A 386A 387A 388A 389A 390A 391A 392A 393A 394A 395A 396A 397A 398A 399A 400A 401A 402A 403A 404A 405A 406A 407A 408A 409A 410A 411A 412A 413A 414A 415A 416A 417A 418A 419A 420A 421A 422A 423A 424A 425A 426A 427A 428A 429A 430A 431A 432A 433A 434A 435A 436A 437A 438A 439A 440A 441A 442A 443A 444A 445A 446A 447A 448A 449A 450A 451A 452A 453A 454A 455A 456A 457A 458A 459A 460A 461A 462A 463A 464A 465A 466A 467A 468A 469A 470A 471A 472A 473A 474A 475A 476A 477A 478A 479A 480A 481A 482A 483A 484A 485A 486A 487A 488A 489A 490A 491A 492A 493A 494A 495A 496A 497A 498A 499A 500A 501A 502A 503A 504A 505A 506A 507A 508A 509A 510A 511A 512A 513A 514A 515A 516A 517A 518A 519A 520A 521A 522A 523A 524A 525A 526A 527A 528A 529A 530A 531A 532A 533A 534A 535A 536A 537A 538A 539A 540A 541A 542A 543A 544A 545A 546A 547A 548A 549A 550A 551A 552A 553A 554A 555A 556A 557A 558A 559A 560A 561A 562A 563A 564A 565A 566A 567A 568A 569A 570A 571A 572A 573A 574A 575A 576A 577A 578A 579A 580A 581A 582A 583A 584A 585A 586A 587A 588A 589A 590A 591A 592A 593A 594A 595A 596A 597A 598A 599A 600A 601A 602A 603A 604A 605A 606A 607A 608A 609A 610A 611A 612A 613A 614A 615A 616A 617A 618A 619A 620A 621A 622A 623A 624A 625A 626A 627A 628A 629A 630A 631A 632A 633A 634A 635A 636A 637A 638A 639A 640A 641A 642A 643A 644A 645A 646A 647A 648A 649A 650A 651A 652A 653A 654A 655A 656A 657A 658A 659A 660A 661A 662A 663A 664A 665A 666A 667A 668A 669A 670A 671A 672A 673A 674A 675A 676A 677A 678A 679A 680A 681A 682A 683A 684A 685A 686A 687A 688A 689A 690A 691A 692A 693A 694A 695A 696A 697A 698A 699A 700A 701A 702A 703A 704A 705A 706A 707A 708A 709A 710A 711A 712A 713A 714A 715A 716A 717A 718A 719A 720A 721A 722A 723A 724A 725A 726A 727A 728A 729A 730A 731A 732A 733A 734A 735A 736A 737A 738A 739A 740A 741A 742A 743A 744A 745A 746A 747A 748A 749A 750A 751A 752A 753A 754A 755A 756A 757A 758A 759A 760A 761A 762A 763A 764A 765A 766A 767A 768A 769A 770A 771A 772A 773A 774A 775A 776A 777A 778A 779A 780A 781A 782A 783A 784A 785A 786A 787A 788A 789A 790A 791A 792A 793A 794A 795A 796A 797A 798A 799A 800A 801A 802A 803A 804A 805A 806A 807A 808A 809A 810A 811A 812A 813A 814A 815A 816A 817A 818A 819A 820A 821A 822A 823A 824A 825A 826A 827A 828A 829A 830A 831A 832A 833A 834A 835A 836A 837A 838A 839A 840A 841A 842A 843A 844A 845A 846A 847A 848A 849A 850A 851A 852A 853A 854A 855A 856A 857A 858A 859A 860A 861A 862A 863A 864A 865A 866A 867A 868A 869A 870A 871A 872A 873A 874A 875A 876A 877A 878A 879A 880A 881A 882A 883A 884A 885A 886A 887A 888A 889A 890A 891A 892A 893A 894A 895A 896A 897A 898A 899A 900A 901A 902A 903A 904A 905A 906A 907A 908A 909A 910A 911A 912A 913A 914A 915A 916A 917A 918A 919A 920A 921A 922A 923A 924A 925A 926A 927A 928A 929A 930A 931A 932A 933A 934A 935A 936A 937A 938A 939A 940A 941A 942A 943A 944A 945A 946A 947A 948A 949A 950A 951A 952A 953A 954A 955A 956A 957A 958A 959A 960A 961A 962A 963A 964A 965A 966A 967A 968A 969A 970A 971A 972A 973A 974A 975A 976A 977A 978A 979A 980A 981A 982A 983A 984A 985A 986A 987A 988A 989A 990A 991A 992A 993A 994A 995A 996A 997A 998A 999A 1000A
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ITEM 13
6K589 Seed Chart SS2101

CALIBRATION

Machine May Be Calibrated for Unlisted Seed as Follows:

1. Disengage Clutch (electrical power is required). Otherwise, remove or disengage chain from 37 Tooth Sprocket.
2. Place machine & lock in transport position.
3. Place a canvas or tarp to catch seed.
4. Turn 15/16 Hex on Transmission shaft (211) revolutions clockwise (422 if 22 Tooth Driver is used). 42 Turns May be used if results are adjusted as shown in Step #5.
5. Weigh seed for approximate planting rate. Multiply weight by 5 (10 for 22 Tooth Driver) if only 42 Turns were used.

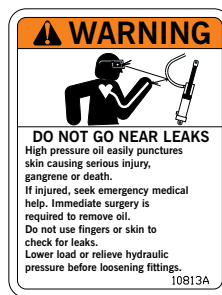
PLANTING RATES FOR SEED METER (FRONT BOX) IN POUNDS PER ACRE

1. Rates are for 11 Tooth Driver. Double these values for 22 Tooth Driver.
2. Rates are intended as a guide only. Variations in size and cleanliness will affect rates. Check acreage & pounds of seed used for best results.

Indicator Setting	1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A 22A 23A 24A 25A 26A 27A 28A 29A 30A 31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A 42A 43A 44A 45A 46A 47A 48A 49A 50A 51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A 62A 63A 64A 65A 66A 67A 68A 69A 70A 71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A 82A 83A 84A 85A 86A 87A 88A 89A 90A 91A 92
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ITEM 15
8J309



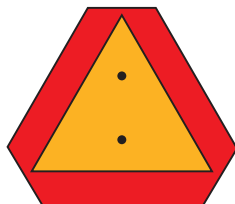
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ITEM 17
2K123



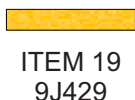
ITEM 18
9J301



ITEM 20
70260977 (AFT. 06/2026)
2P151 (BEF. 06/2026)



ITEM 21
9J302



ITEM 19
9J429



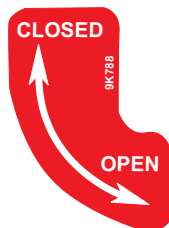
ITEM 22 - 235621



ITEM 23 - 9K740



ITEM 24 - 192069



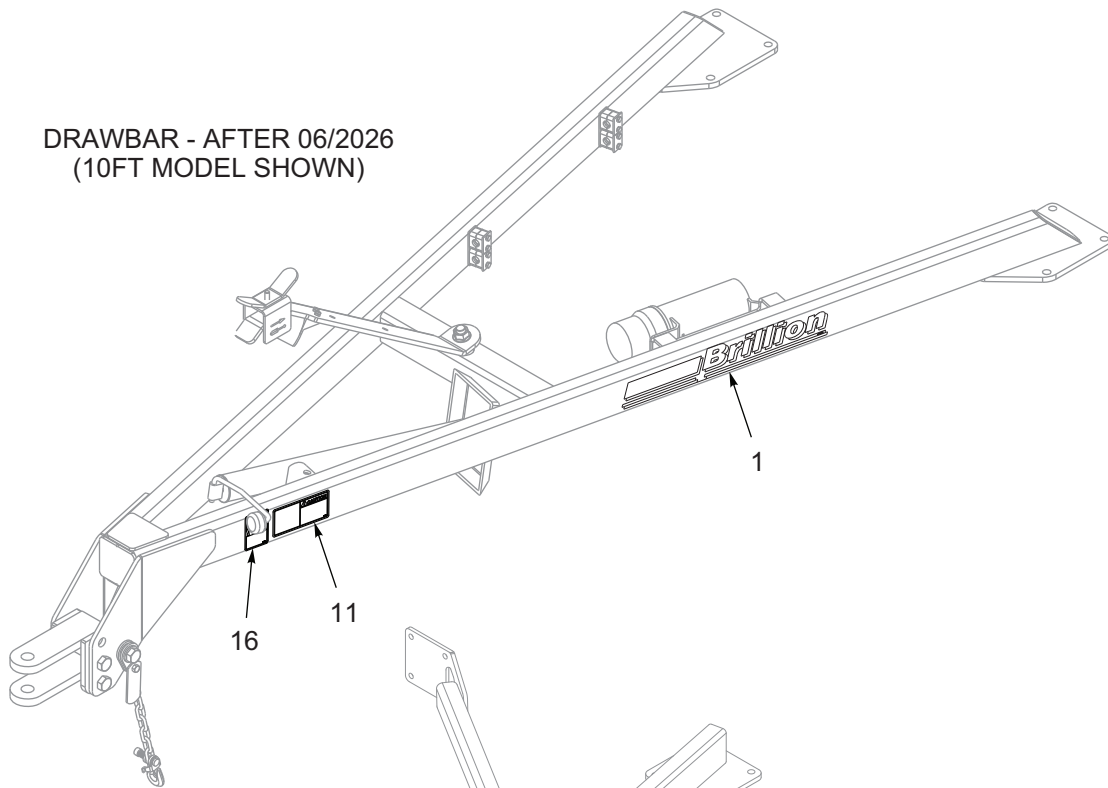
ITEM 25
9K788



ITEM 26
1-573-010006

Figure 1-4: Decals (2 of 2)

DRAWBAR - AFTER 06/2026
(10FT MODEL SHOWN)



12FT - BEFORE 06/2026

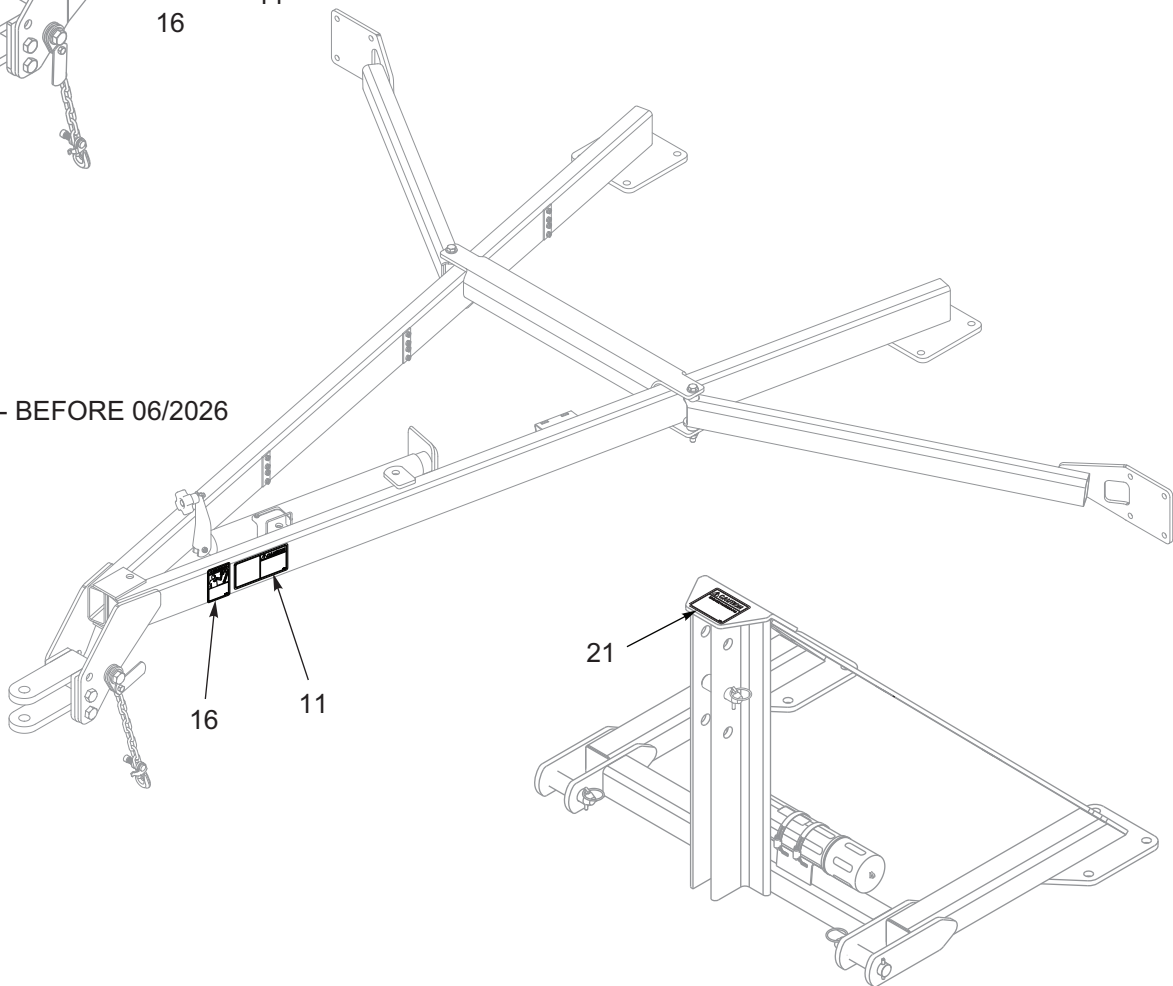
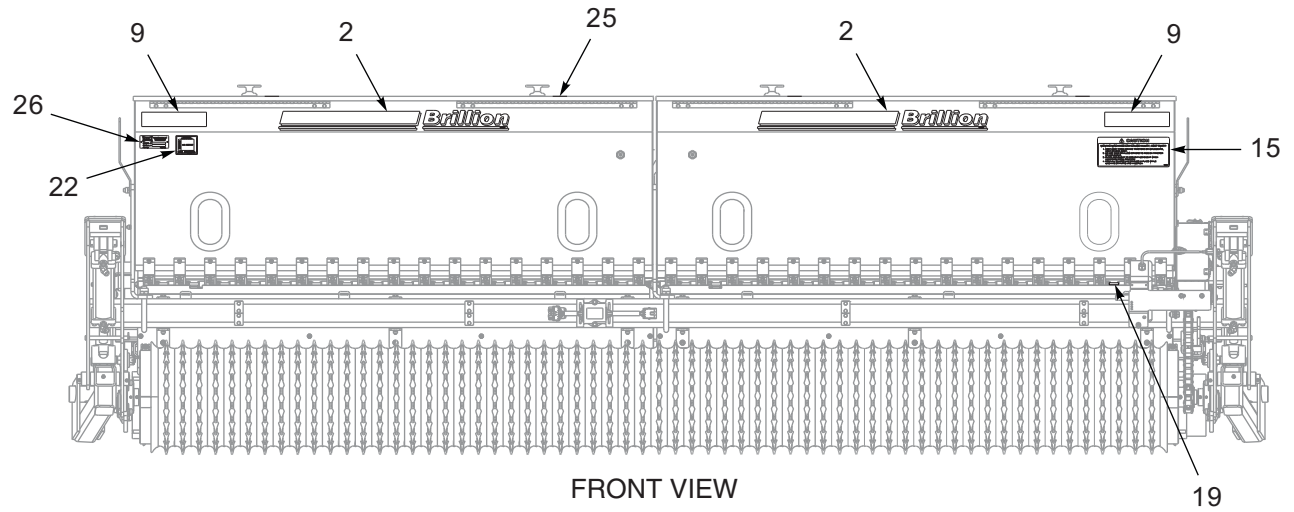
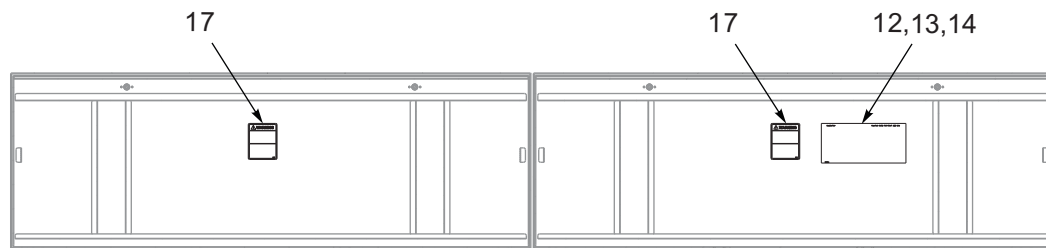


Figure 1-5: Decal Placement - Hitch

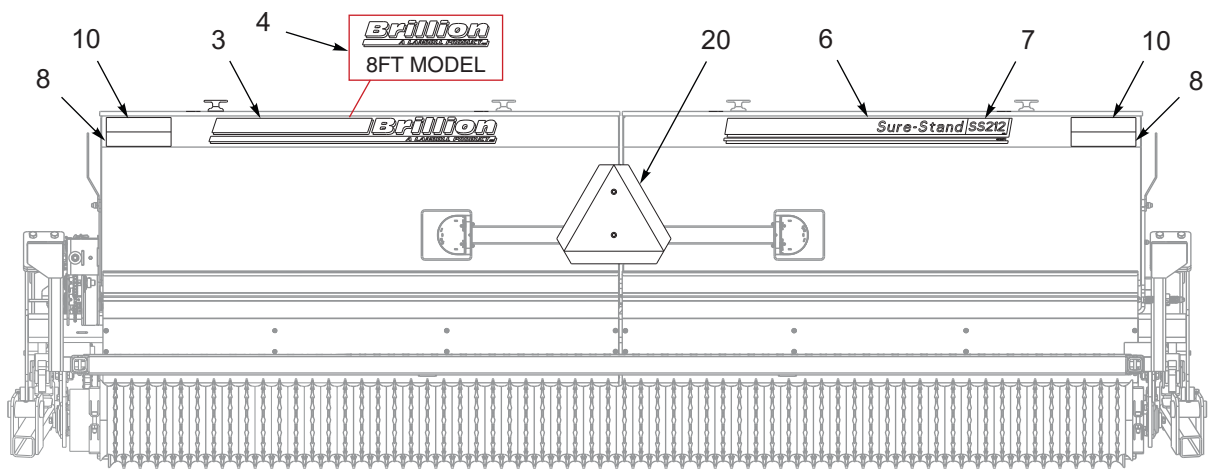
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FRONT VIEW



INSIDE LIDS



REAR VIEW

12FT MODEL SHOWN

3-POINT

18

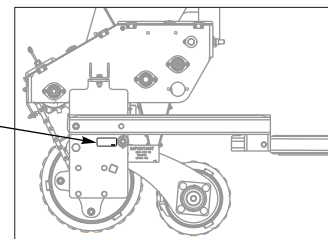


Figure 1-6: Decal Placement (AFTER 06/2026)

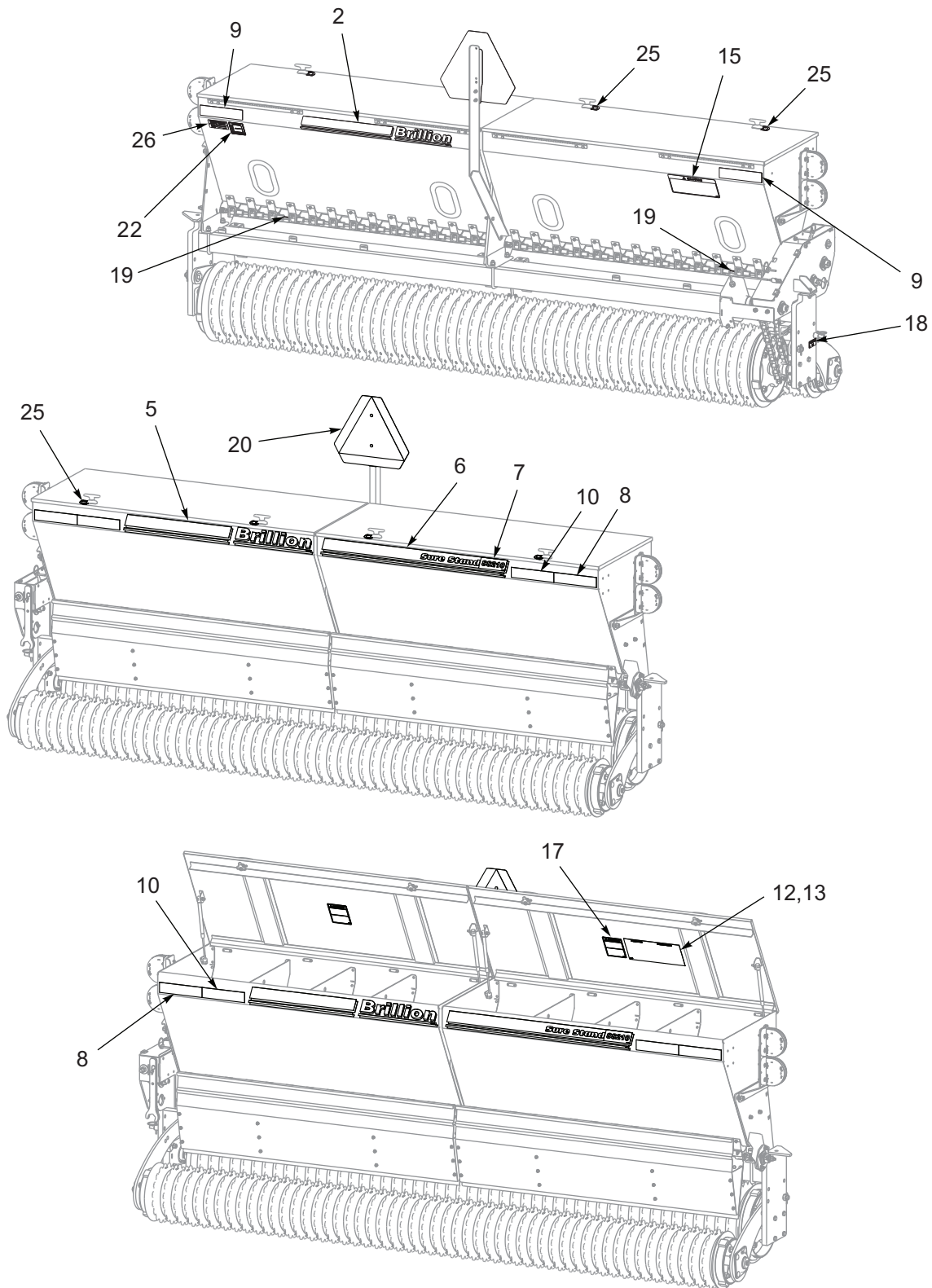


Figure 1-7: Decal Placement - 8FT and 10FT (BEFORE 06/2026)

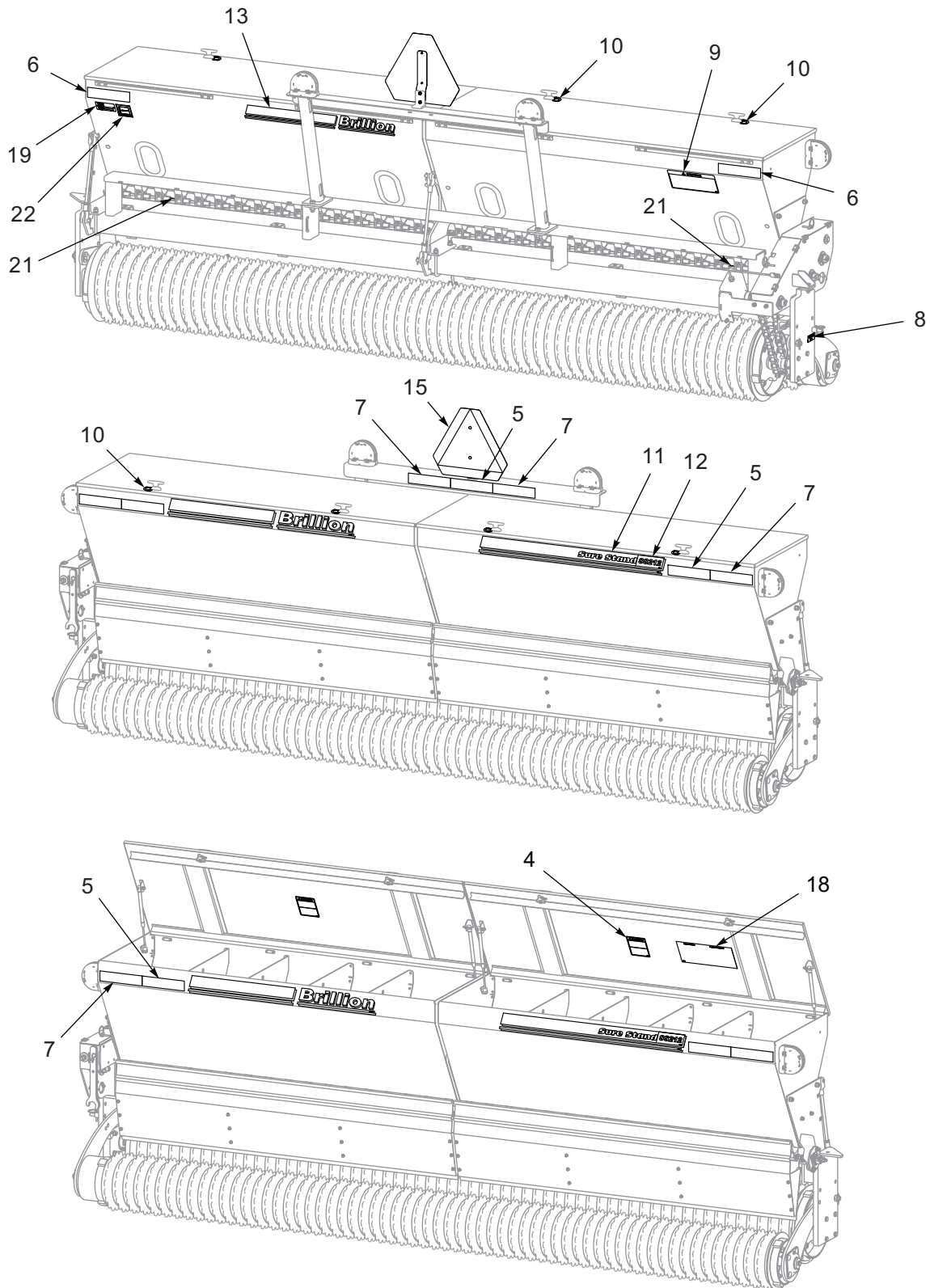


Figure 1-8: Decal Placement - 12FT (BEFORE 06/2026)

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Table provided for general use.

[illegible]

Assembly



CAUTION

Do not work on or under this machine unless securely blocked and supported by a hoist or tractor or by other sufficient means!



WARNING

Do not attempt to lift heavy parts manually. Use a hoist or a forklift to move these parts into position.

NOTE

Refer to the repair parts manual 1P125 for identification of parts and for the approximate relationship of the parts assembly. Your exact Seeder Model may vary slightly from the illustration.

To ensure alignment of assemblies, leave the nuts loose until completion of final assembly. Use lock washers or flat washers as specified. Spread all cotter pins.

After completion of final assembly, tighten all nuts evenly to prevent misalignment, distortion or binding. Tighten all screws and nuts to the recommended torques.

IMPORTANT

- If pre-assembled parts or fasteners are temporarily removed, remember where they go. It is best to keep parts separated.
- Check that all working parts move freely, bolts are tight and cotter pins spread.
- Refer to the Torque Table for proper torque valves. Note the different torque requirements for bolts with lock nuts. See Page 5-1.

“Left” and “Right” refer to directions seen as if standing behind the machine and facing in the direction of forward travel.

IMPORTANT

All harnesses must be firmly attached to machine frame members, so they don't sag or become torn loose by field debris. Use the tie wraps provided.

Check to be sure the harnesses at center of machine is slack enough so as not to be stretched or interfered with while rotating frame from transport to field working position and vice versa.

3-PT Hitch Seeder Assembly (After 06/2026)

When shipped, seeder comes assembled except for Lights and 3-PT Hitch.

1. Support Seeder Assembly with a hoist or by similar means capable of supporting its weight without tipping.
2. Center 3-PT Hitch Assembly in relationship with the Seed Box Center Bracket. Attach 3-PT Hitch to Seeder Frame Tube with 5/8-11 U-Bolts, Lock Washers, and Nuts. **See Figure 2-3.**
3. Install Manual Holder to 3-PT Hitch with Hose Clamps.



CAUTION

Do not disengage pin unless seeder is fully attached to a tractor. Seeder may be rear-heavy and tip backward on frame.

4. Be sure Parking Pin is locking Rear Roller down and raise the Seeder. **See Figure 2-1.**
5. On the right side of the Seeder Frame, in a similar position as the Parking Pin, remove the 5/8-11 Shipping Bolt that also locks the Rear Roller down. **See Figure 2-2.**

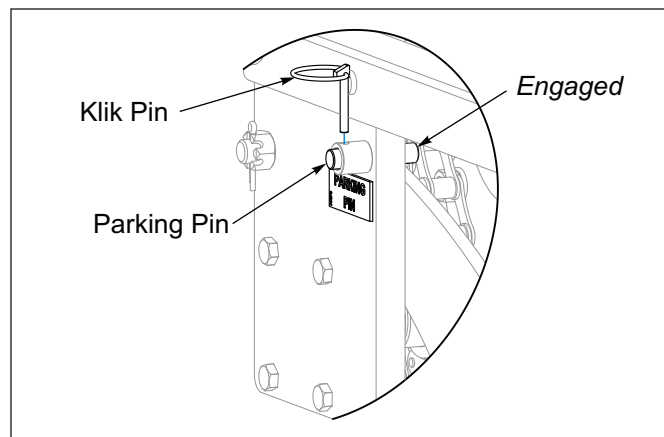


Figure 2-1: Parking Pin Engaged

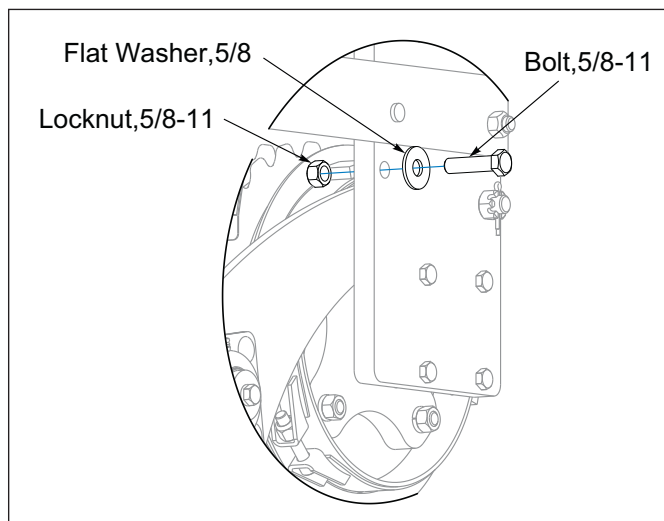


Figure 2-2: Shipping Bolt

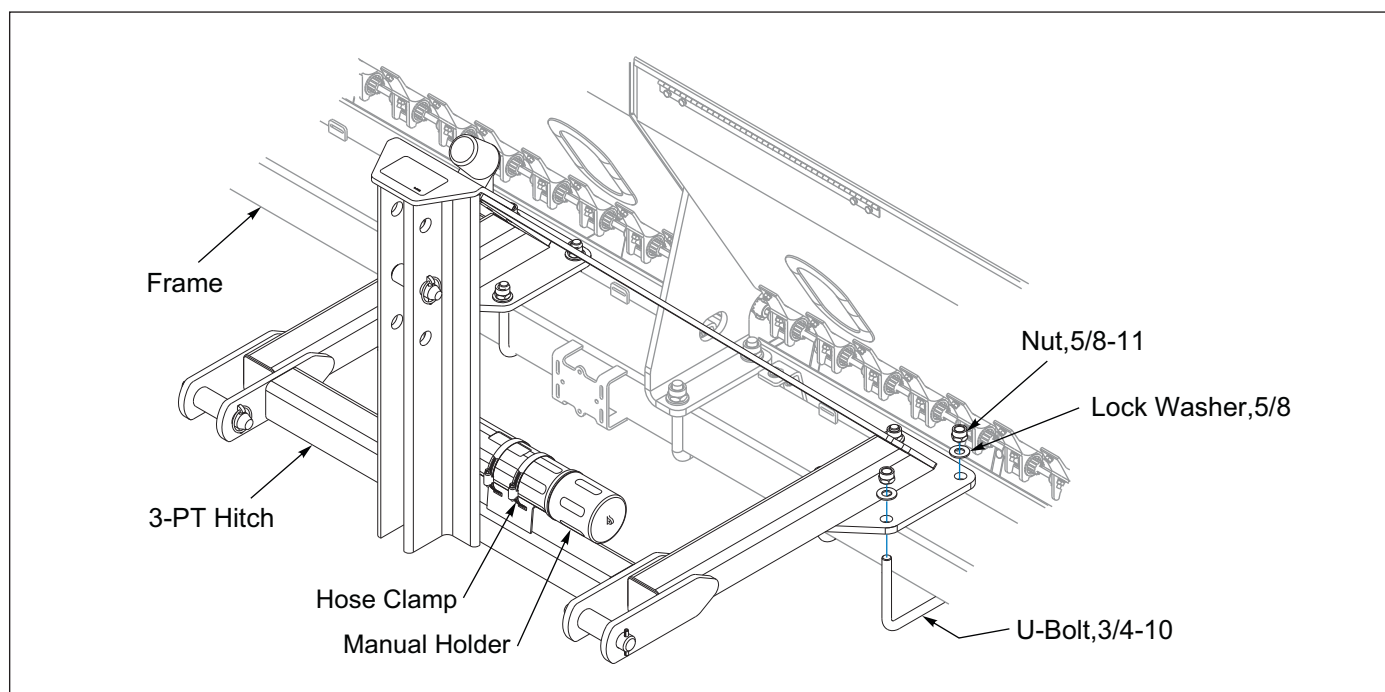


Figure 2-3: Attach 3-PT Hitch

3-PT Hitch Seeder Assembly (Before 06/2026)

When shipped, seeder comes assembled except for Lights and 3-PT Hitch.

1. Support Seeder Assembly with a hoist or by similar means capable of supporting its weight without tipping.
2. Center 3-PT Hitch Assembly in relationship with the Seed Box Center Bracket. Attach 3-PT Hitch to Seeder Frame Tube with 5/8-11 U-Bolts, Lock Washers, and Nuts. **See Figure 2-7.**
3. Install Manual Holder to 3-PT Hitch with Hose Clamps.
4. 8FT and 10FT Seeders, install SMV Support to Seed Box Center Bracket with 3/8-16 x 1-1/2 Bolts and Locknuts. **See Figure 2-4.**

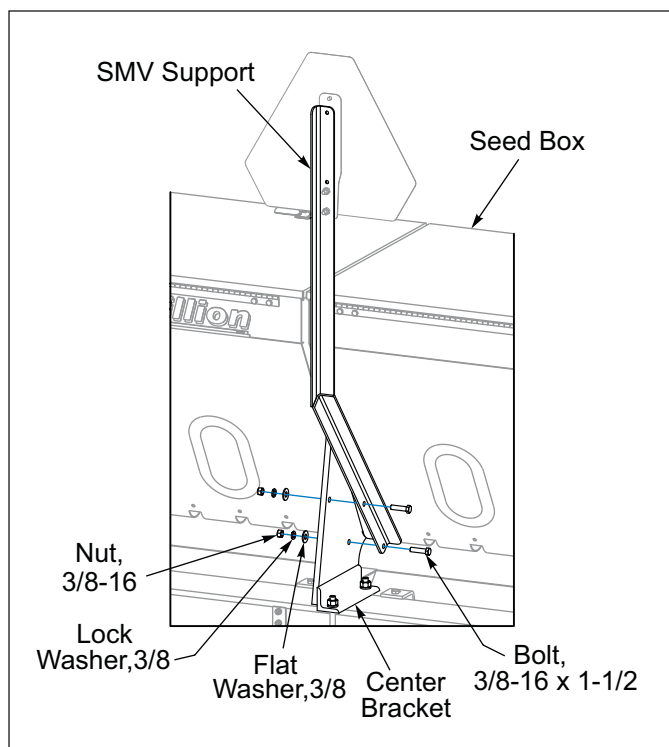


Figure 2-4: SMV Mount



CAUTION

Do not disengage pin unless seeder is fully attached to a tractor. Seeder may be rear-heavy and tip backward on frame.

5. Be sure Parking Pin is locking Rear Roller down and raise the Seeder. **See Figure 2-5.**

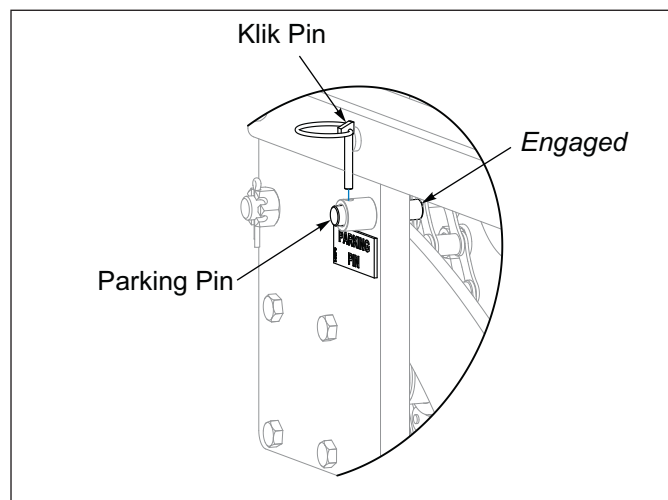


Figure 2-5: Parking Pin Engaged

6. On the right side of the Seeder Frame, in a similar position as the Parking Pin, remove the 5/8-11 Shipping Bolt that also locks the Rear Roller down. **See Figure 2-6.**

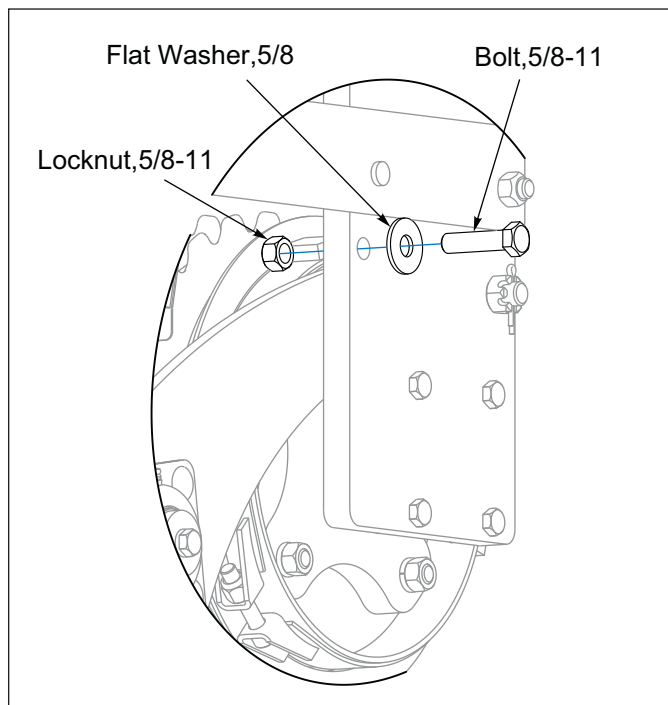


Figure 2-6: Shipping Bolt

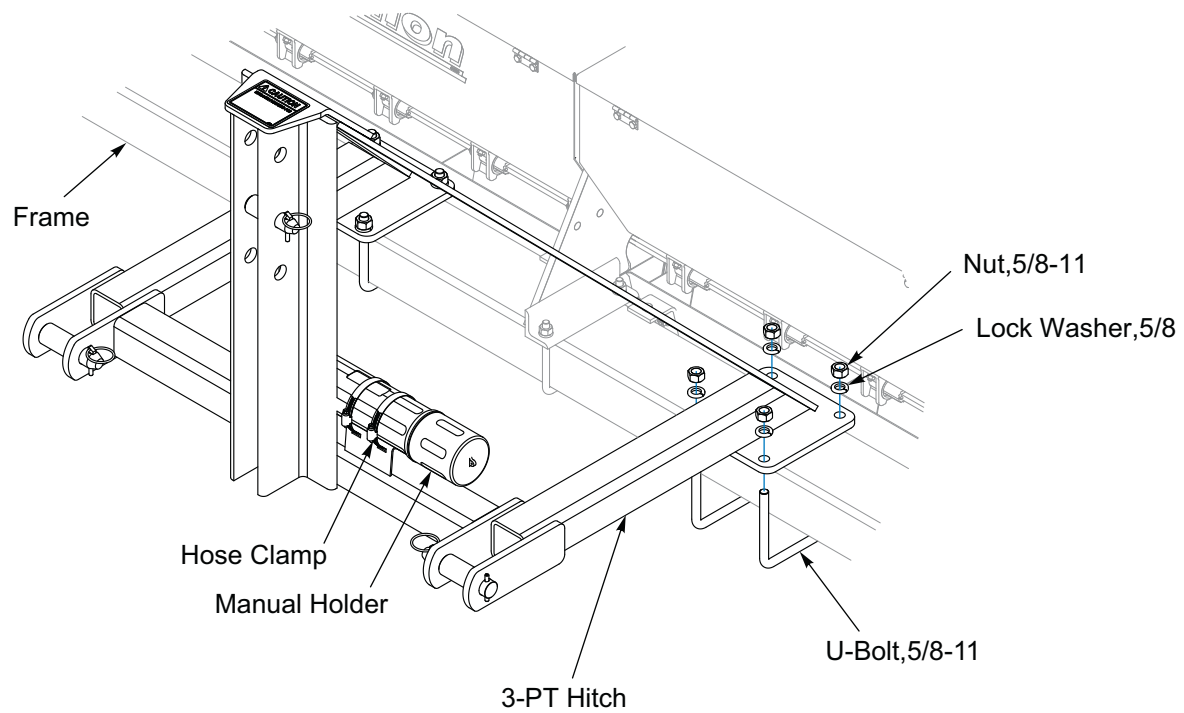


Figure 2-7: Attach 3-PT Hitch

Pull Type Seeder Assembly (After 06/2026)

When shipped, Seeder comes assembled except for Hub and Spindle Assemblies, Tire and Wheels Assemblies and Drawbar.

1. Untie the two rolled up Drawbar Hydraulic Hoses near the center of the Frame Tube. Ensure the hoses are not interfering with where the Drawbar is to be attached.
2. Center Drawbar in relationship with the Seed Box Center Bracket. Attach Drawbar to Seeder Frame Tube with 5/8-11 U-Bolts, Flat Washers and Locknuts. **See Figure 2-8.**
3. Attach the Hose Holder to the Drawbar with 3/4-10 x 6 Bolts and Flange Locknuts.
4. Install Manual Holder to Drawbar with 1/4-20 x 1 Bolts, Flat Washers and Nuts.
5. Apply anti-seize to Spindles and insert a Hub and Spindle Assembly into each Wheel Arm. Secure with 1/2-13 x 3 Bolts and Locknuts. **See Figure 2-13.**

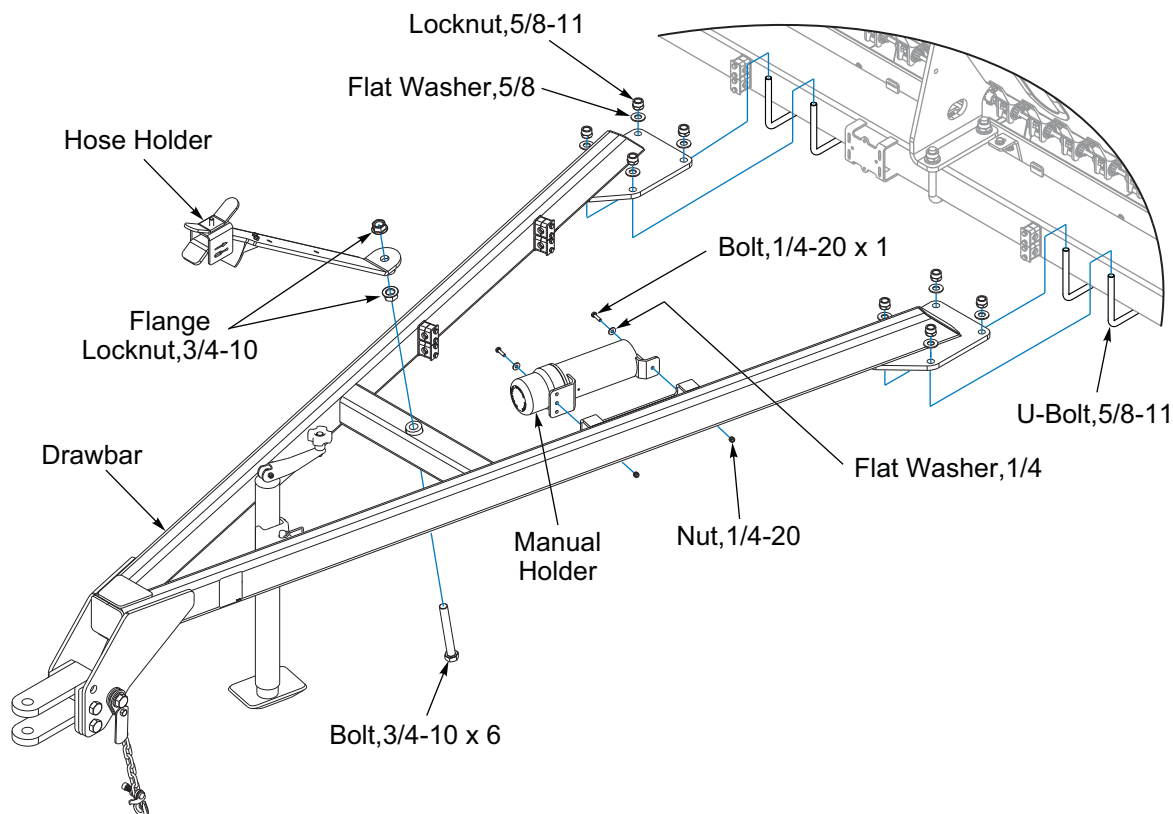


Figure 2-8: Drawbar Installation (After 06/2026)

Pull Type Seeder Assembly (Before 06/2026)

When shipped, Seeder comes assembled except for Lights, Hub and Spindle Assemblies, Tire and Wheels Assemblies and Drawbar.

8FT and 10FT Assembly

1. Untie the two rolled up Drawbar Hydraulic Hoses near the center of the Frame Tube. Ensure the hoses are not interfering with where the Drawbar is to be attached.
2. Center Drawbar in relationship with the Seed Box Center Bracket. Attach Drawbar to Seeder Frame Tube with 5/8-11 U-Bolts, Lock Washers, and Nuts. **See Figure 2-10.**
3. Attach the Hose Holder to the Drawbar with 5/8-11 x 1-1/2 Bolt, Lock Washer, and Nut.
4. Install Manual Holder to Drawbar with Hose Clamps.
5. Install SMV Support to Seed Box Center Bracket with 3/8-16 x 1-1/2 Bolts and Locknuts. **See Figure 2-9.**
6. Apply anti-seize to Spindles and insert a Hub and Spindle Assembly into each Wheel Arm. Secure with 1/2-13 x 3 Bolts and Locknuts. **See Figure 2-13.**

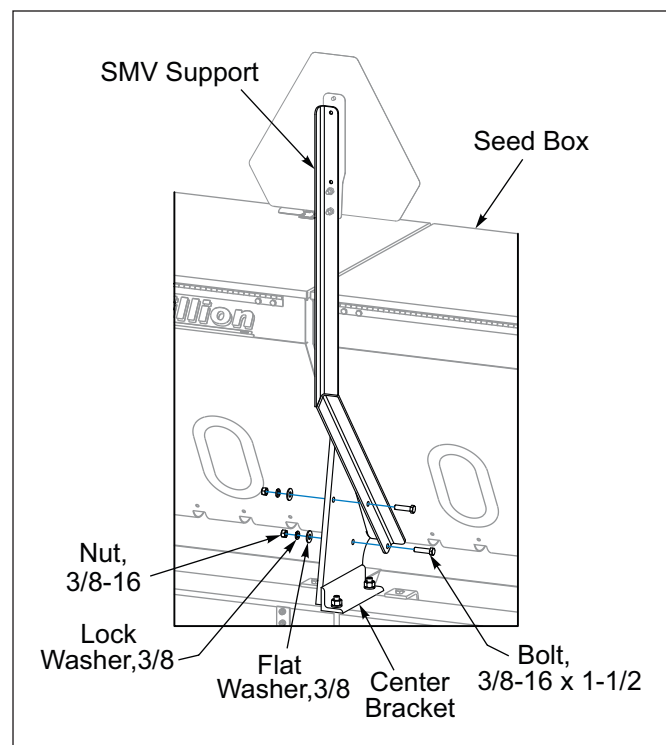


Figure 2-9: SMV Mount

12FT Assembly

When shipped, Seeder comes assembled except for Lights, Hub and Spindle Assemblies, Tire and Wheels Assemblies and Drawbar.

1. Untie the two rolled up Drawbar Hydraulic Hoses near the center of the Frame Tube. Ensure the hoses are not interfering with where the Drawbar and Drawbar Braces are to be attached. Remove Drawbar Braces shipping bands so that the Braces can pivot outward to clear the Seeder Frame Tube.
2. Center Drawbar in relationship with the Seed Box Center Bracket. Attach Drawbar to Seeder Frame Tube with 5/8-11 U-Bolts, Lock Washers and Nuts. Align Braces with the front of the Seeder Frame Tube and insert the Hydraulic Hoses through the Brace Bracket opening. Attach Braces to Seeder Frame Tube with 1/2-13 U-Bolts, Flat Washers, and Locknuts. **See Figure 2-11.**
3. Attach the Hose Holder to the Drawbar with 5/8-11 x 1-1/2 Bolt, Lock Washer, and Nut.
4. Install Manual Holder to Drawbar with Hose Clamps.
5. Apply anti-seize to Spindles and insert a Hub and Spindle Assembly into each Wheel Arm. Secure with 1/2-13 x 3 Bolts and Locknuts. **See Figure 2-13.**

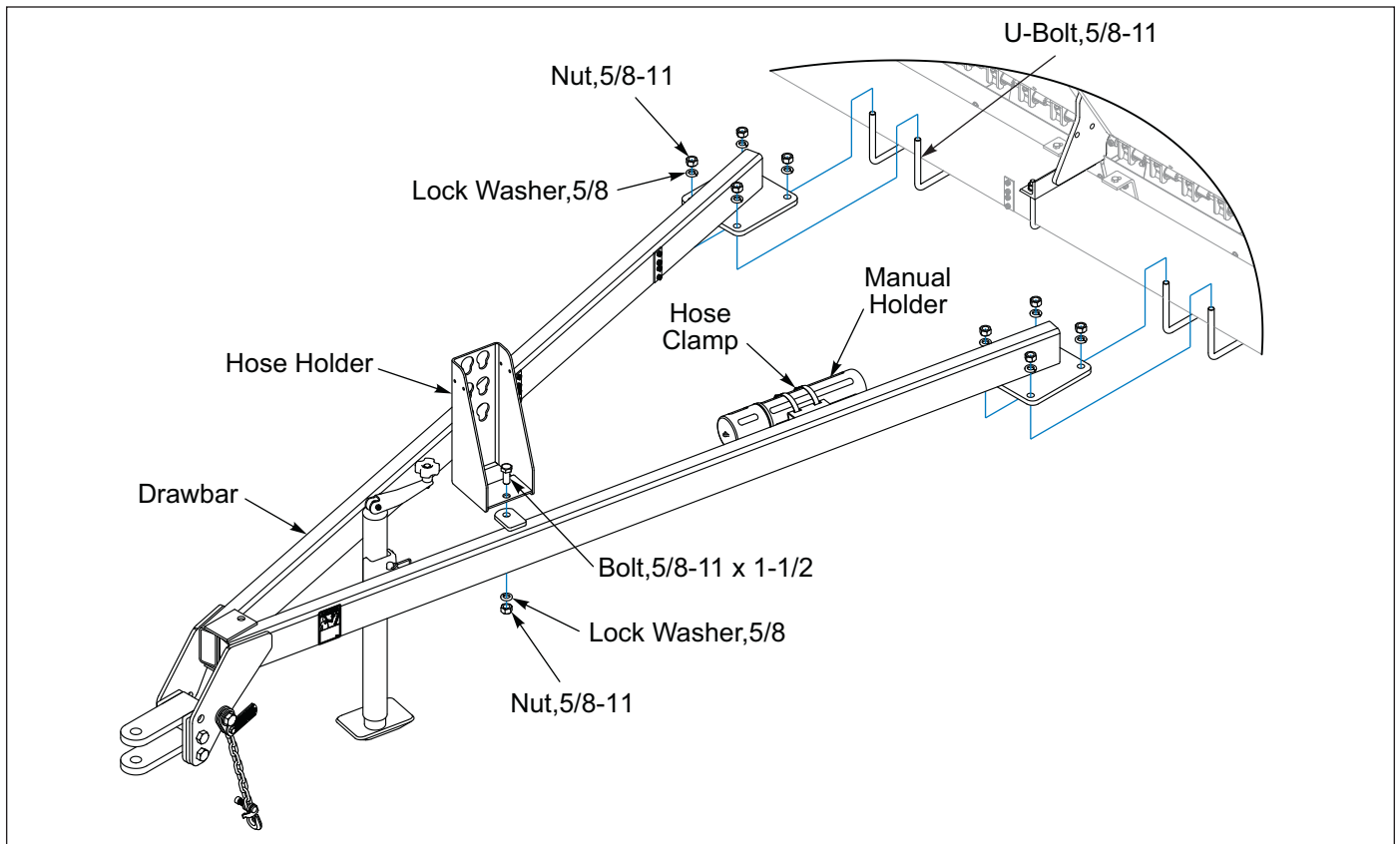


Figure 2-10: Drawbar Installation (Before 06/2026)

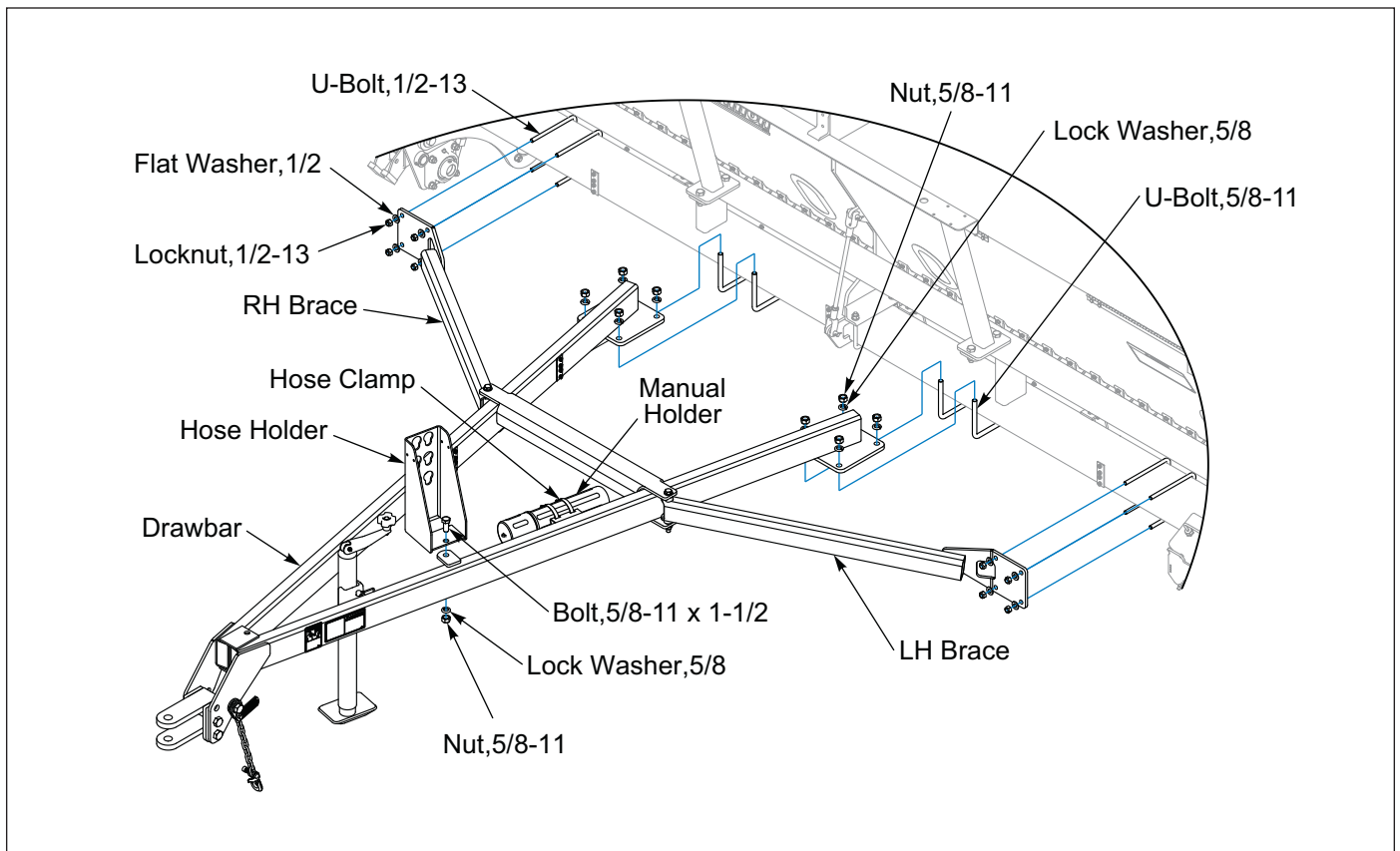


Figure 2-11: 12FT Drawbar (Before 06/2026)

Tire and Wheel Installation



WARNING

Use a torque wrench to assure proper torque. Insufficient torque can cause stud breakage and damage the wheel pilots. Over torque can stress the Bolts and strip the threads.

NOTE

The tire/wheel assembly is mounted with the valve stem facing outward from Hub and Spindle.

IMPORTANT

Torque will drop after the first 10 hours of operation. Check the Wheel Bolts for proper torque after this interval and re-tighten them.

- The 8FT Seeder uses 9.5L-15, 8 Ply Rating Tires and should be inflated to 44 PSI. The 10FT and 12FT Seeder uses 11L-15, 12 Ply Rating Tires and should be inflated to 52 PSI.
- Install a Tire and Wheel Assembly onto each Hub with 1/2-20 x 1 Wheel Bolts and tighten Wheel Bolts to 50 Ft-Lbs using the shown tightening sequence. **See Figures 2-12 and 2-13.** Then tighten to a full torque

of 80-85 Ft-Lbs.

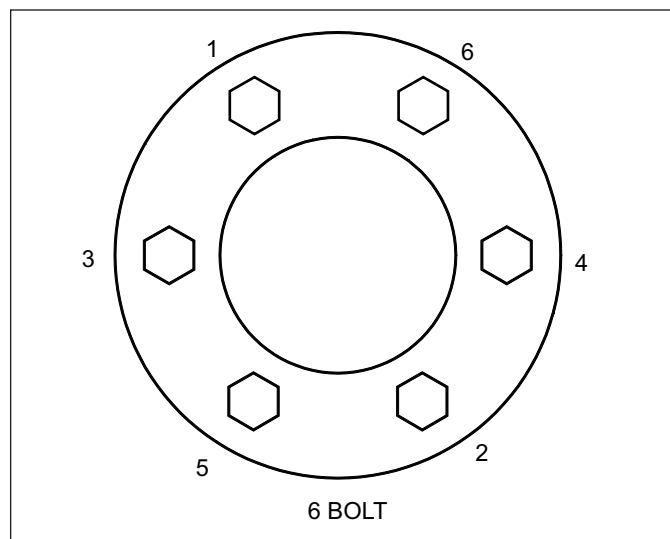


Figure 2-12: Tightening Sequence

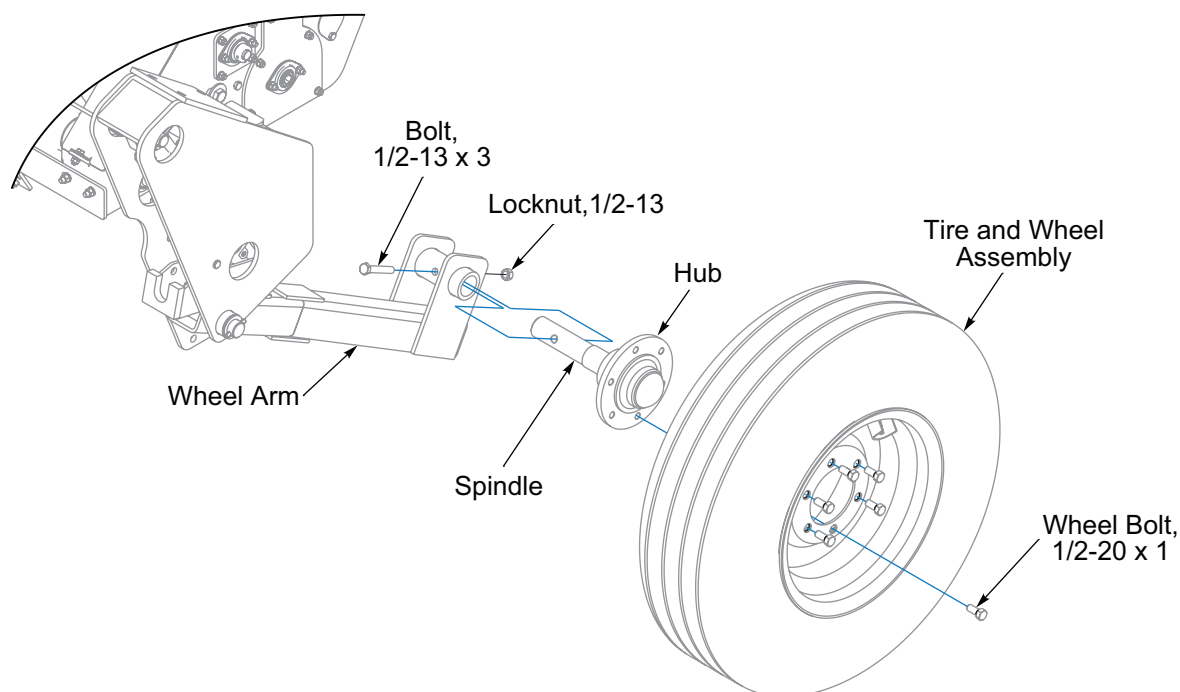


Figure 2-13: Tire and Wheel Installation

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Table provided for general use.

NOTES:

Hydraulic Installation



WARNING

Escaping fluid under pressure can be nearly invisible and have enough force to penetrate the skin causing serious injury. Using a piece of cardboard, rather than your hands, to search for suspected leaks. (See Figure 2-14.) Wear protective gloves and safety glasses or goggles when working with hydraulic systems.

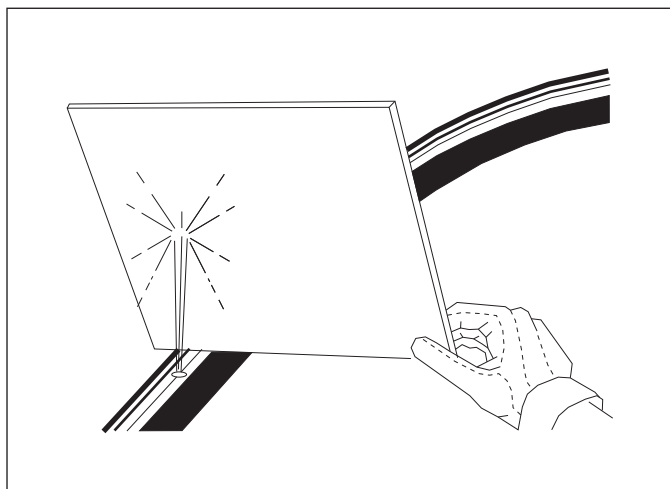


Figure 2-14: Leak Detection

Tightening Procedure for JIC 37 degree Swivel Female Nuts.

1. Check Fitting Flare and seat for defects.
2. Lubricate the connection.
3. Install Hydraulic Hoses without twists.
4. Hand Tighten until connections bottoms.
5. Using 2 wrenches to prevent twisting, rotate the Swivel Nut 2 wrench flats (1/3 turn).
6. For reassembly, follow the same procedure but tighten only 1 wrench flat (1/16 turn).

Tightening Procedure for Swivel O-Ring Fittings.

1. Lubricate O-Ring and install the Fitting until the Metal Washer which backs up the O-Ring contacts the face of the boss.
2. Orient the Fitting by turning counterclockwise up to 1 turn.
3. Tighten the Locknut using 50-60 Ft-Lbs of torque. **See "Hydraulic Fitting Torque Specifications" on Page 5-2.**

Hydraulic Assembly

1. Restrictors installed in Cylinder Ports, connect 45 Degree Fitting so they are free to swivel. Connect top Hydraulic Hose to the Cylinder Base and bottom Hydraulic Hose to the Cylinder Rod End. Position the Hydraulic Hoses so that the Cylinder Base End points downward and the Cylinder Rod End points upward. Merge Hydraulic Hoses together and Tie Wrap them together about 12 inches from the Hose End. **See Figure 2-15.** Be sure that the Hoses cannot sag and make contact with the Front Roller Wheels.

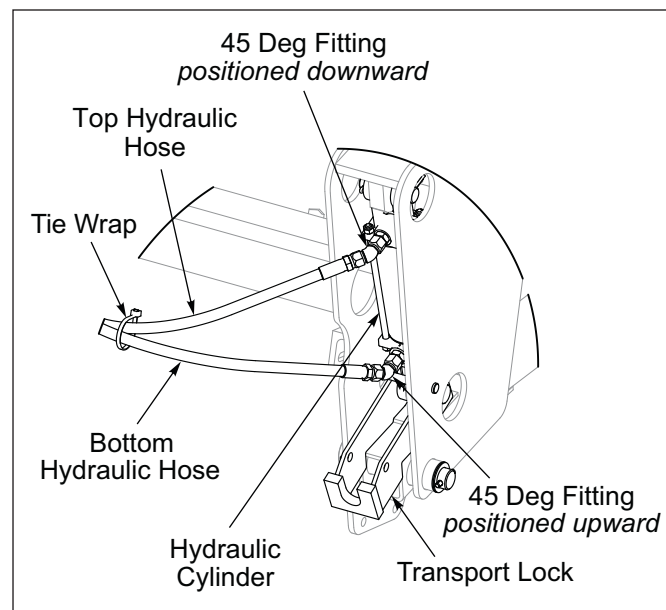


Figure 2-15: Cylinder Fittings Positioning

2. Route the Drawbar Hydraulic Hoses along Drawbar toward the Tractor. Secure Hoses to Drawbar with Hose Clamp Pairs, Top Plate and 1/4-20 x 1-1/2 Bolt. **See Figures 2-16 and 2-17.**

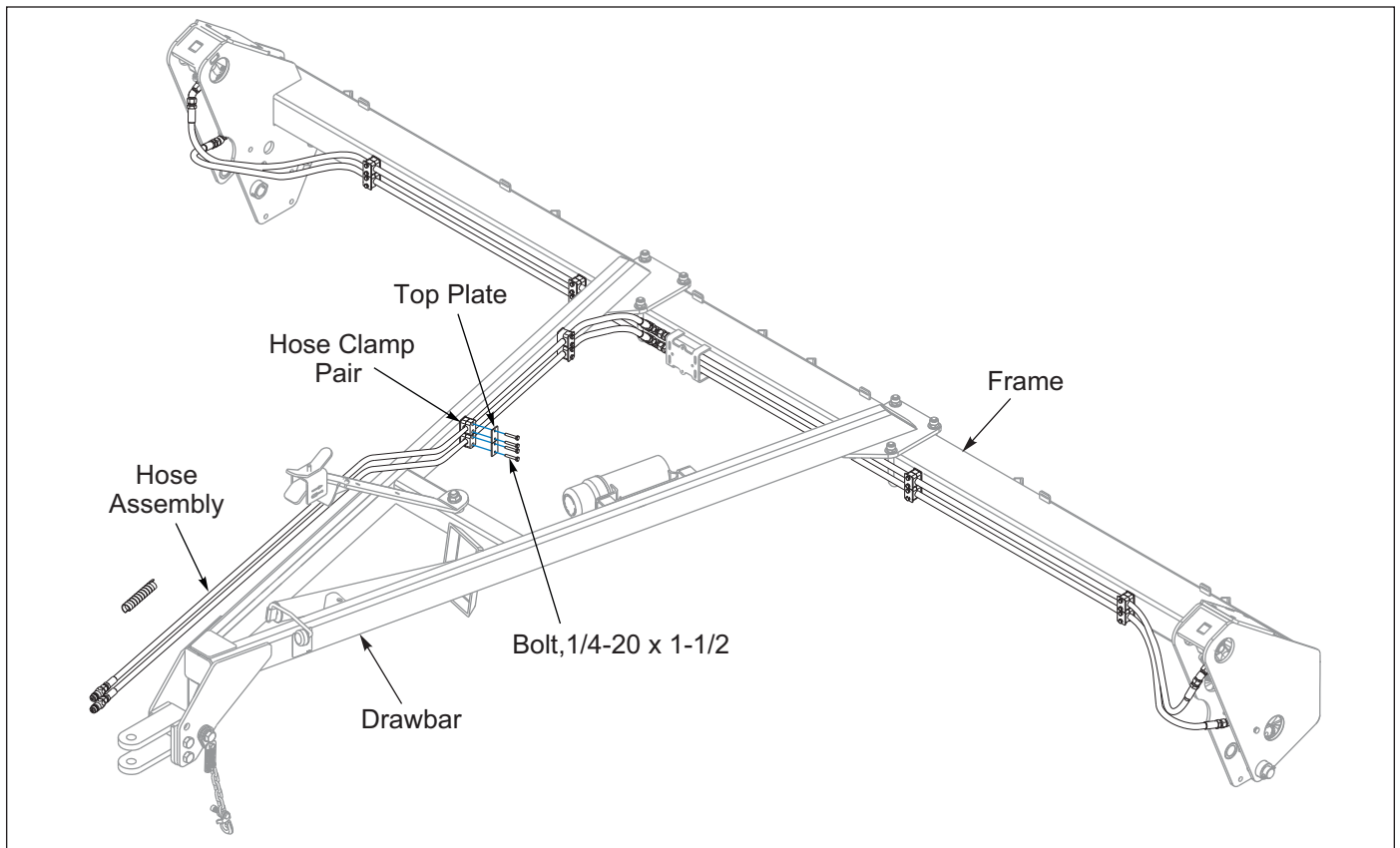


Figure 2-16: Drawbar Hydraulics (After 06/2026)

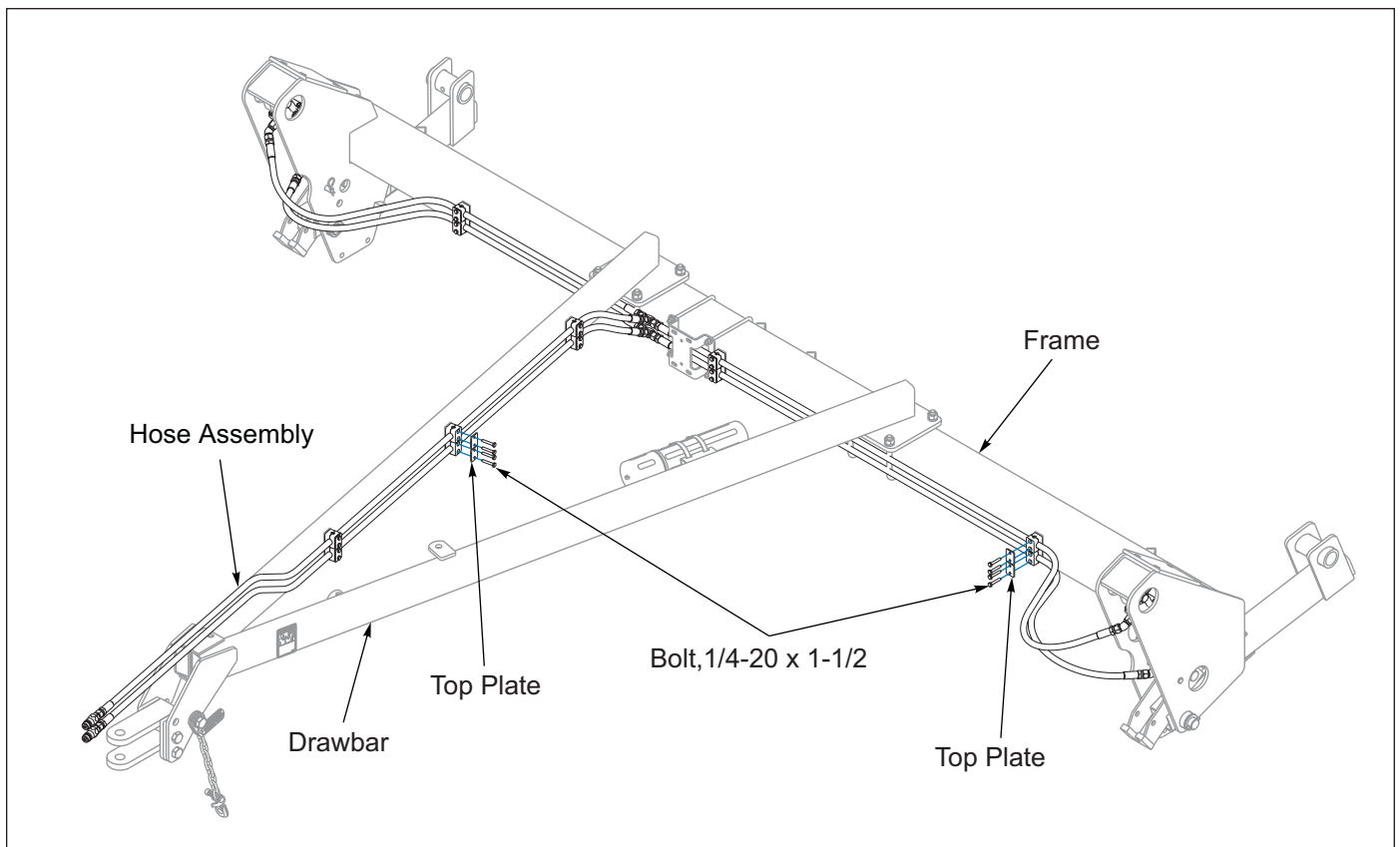


Figure 2-17: Drawbar Hydraulics (Before 06/2026)

Purge the Hydraulic Lift System

The Hydraulic system is not filled with oil and should be purged of air before transporting and field operations.

Lift Circuit approximate oil requirement: 0.4 gallons.

1. Carefully Hitch the Seeder to the Tractor and connect the Hydraulic Lift Hoses.
2. Check to make sure the tractor hydraulic reservoir is full of the manufacturer's recommended oil.
3. Slowly raise the machine until both Lift Cylinders are fully extended. Lower and raise the Seeder to verify that both Cylinders are working throughout the stroke. Fully extend the Lift Cylinders and continue to hold the lever until both Cylinder Rod movement stops. Raise/Lower Seeder 5 times to purge air from the system.
4. Do Not loosen any Hydraulic Hoses or Fittings.
5. Recheck Tractor Reservoir to make sure it is within operating limits.
6. Raise the Seeder and install Transport Locks. **See Figure 2-18.**
7. Remove from the RH and LH Frame End Plate the 5/8-11 Shipping Bolts that locks the Rear Roller Arms Down. **See Figure 2-19.**

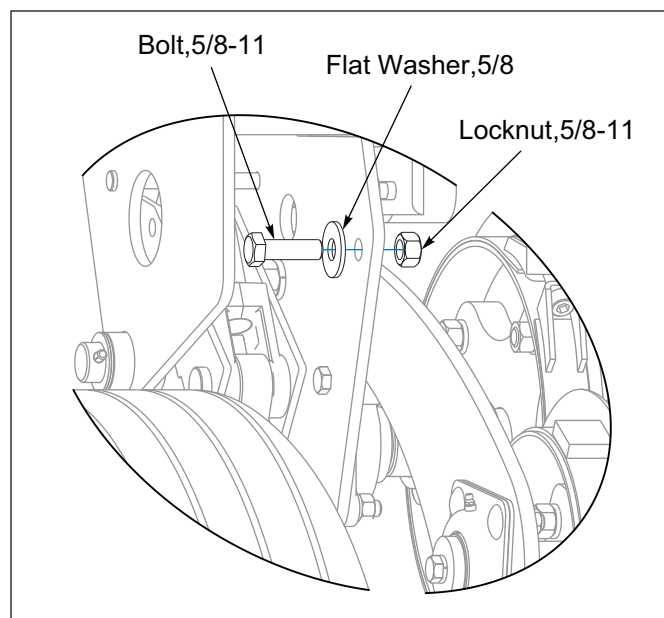


Figure 2-19: Shipping Bolt

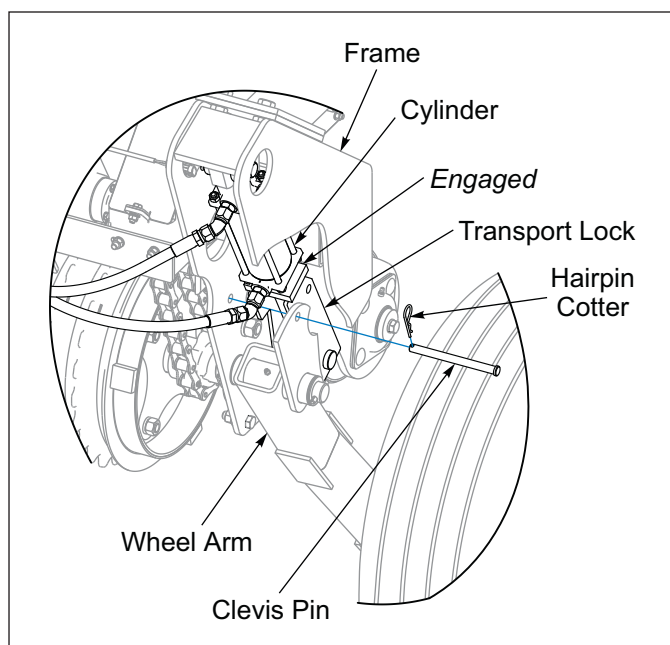


Figure 2-18: Transport Lock Engaged

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Table provided for general use.

NOTES:

Warning Lamp Installation, 8FT, 10FT, 12FT (Aft. 06/2026)

The Seeder comes with Lamp Harness, Light Brackets, Flasher Control Module, Light Bar with Red Lamps, and SMV installed on Frame.

After 06/2026, the Flasher Control Module Bracket is welded to the frame. **See Figure 2-20.**

NOTE

12FT Drawbar model is shown, all other models similar.

1. Attach an Amber Lamp to each of the outside Light Brackets with 3/8-16 x 1-1/2 Bolts and Locknuts. **See Figure 2-21.**

IMPORTANT

Cords are marked Yellow Tape for Left and Green Tape for Right.

2. Ensure the Lamp Harness is connected to the Flasher Control Module 6-Prong Connector.
3. Connect the 2-Prong Connector to the Amber Lamps and verify the 3-Prong Connector is connected to the Red Lamps.
4. Lay out the 7-Pin Harness along the 3-PT Hitch or Drawbar with the 4-Prong Connector towards Seeder. 3-PT Hitch, route the 4-Prong Connector Cord through the Frame Loop to the Module. Drawbar, route the 7-Pin Harness along the Drawbar, through the Hose Support up to the Tractor. Connect 7-Pin Harness 4-Prong Connector to the Flasher Control Module.
5. Bundle and secure excess Cords to the Module Bracket with Tie Wraps. Along the Seeder Frame, secure Harness Cords with Tie Wraps to the frame end plate slots, Slotted Tabs and Hydraulic Hoses. Bundle and secure 7-Pin Harness to the Drawbar Hydraulic Hoses or 3-PT Hitch Frame Slots allowing enough Harness length to reach the Tractor Socket.

NOTE

If equipped with optional Electrical Clutch, install, route and secure Electric Clutch Harness with the Warning Lamp Harness.

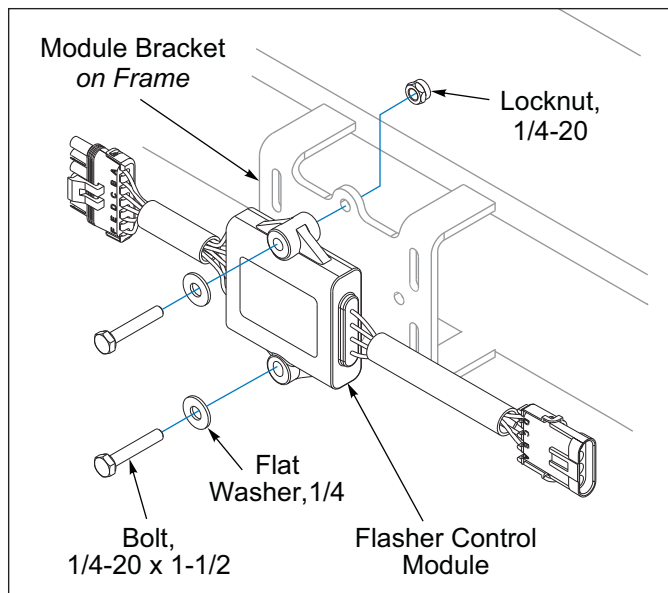
IMPORTANT

All wires must be firmly attached to Machine Frame members or Hydraulic Hoses so they do not sag or become torn loose by field debris.

6. If not installed, secure the SMV sign to the SMV Welded Bracket located on the center of the Light Bar with 1/4-20 Bolts, Flat Washers, and Locknuts.
7. If not installed, attach the Connector Holder to the Drawbar Hose Support or 3-PT Hitch. See Parts Manual for hardware. **See Figure 2-21.**

NOTE

The 7-Pin Plug on the other end of the 7-Pin Harness connects to the Tractor Socket when in use. When not in use, it can be stored in the Connector Holder on the Drawbar Hose Holder or 3-PT Hitch. Allow enough harness length to reach Tractor Socket and roll or fold up excess and secure to Drawbar Hydraulic Hoses or 3-PT Hitch.



**Figure 2-20: Flasher Control Module and Bracket
(After 06/2026)**

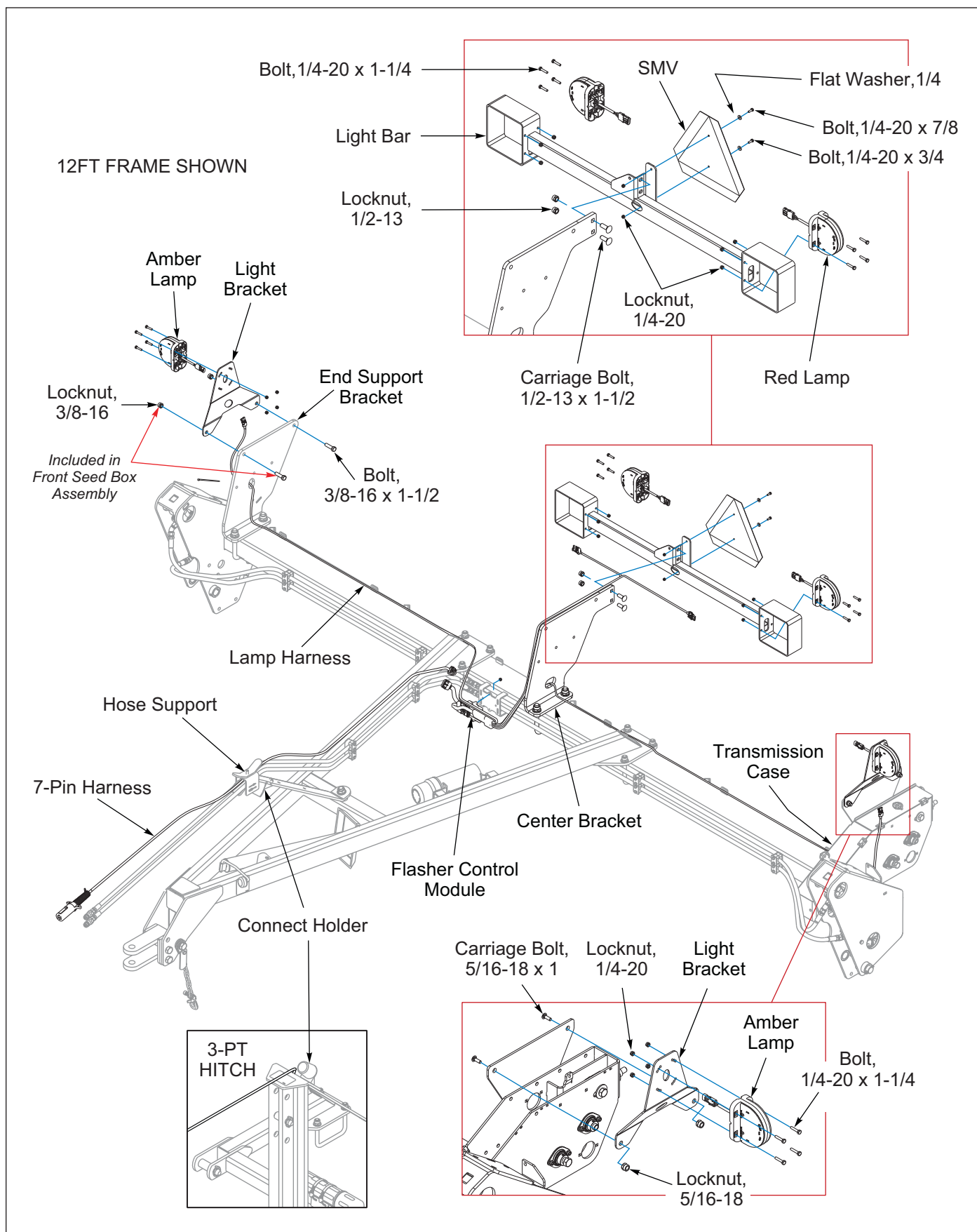


Figure 2-21: Warning Lamp Installation (After 06/2026)

Warning Lamp Installation, 8FT, 10FT (Before 06/2026)

NOTE

10FT Drawbar model is shown, 10FT 3-PT, 8FT Drawbar and 8FT 3-PT models similar.

1. Attach Amber Lamps to the upper portion of the Light Bracket located at the ends of the Seed Box with 1/4-20 x 1-1/4 Bolts and Locknuts. **See Figure 2-23.**
2. Attach Red Lamps below the Amber Lamps with 1/4-20 x 1-1/4 Bolts and Locknuts. Ensure Red Lamp lenses faces rearward.
3. Attach the Flasher Control Module to the Module Bracket with 1/4-20 x 1-1/2 Bolts and Locknuts. **See Figure 2-22.**

IMPORTANT

Cords are marked Yellow Tape for Left and Green Tape for Right.

4. Lay out the Lamp Harness along the Seeder Frame, Cords with Yellow Tape Left and Cords with Green Tape Right. Connect the Harness to the Flasher Control Module 6-Prong Connector.
5. Route the left and right cords along the front of the Frame Tube up to the outer Light Brackets. Connect the 2-Prong Connector to the Amber Lamps and the 3-Prong Connector to the Red Lamps.
6. Lay out the 7-Pin Harness along the 3-PT Hitch or Drawbar with the 4-Prong Connector towards the Seeder. 3-PT Hitch, route the 4-Prong Connector Cord through the Frame Loop to the Module. Drawbar, route the 7-Pin Harness along the Drawbar, through the Hose Support up to the Tractor. Connect 7-Pin Harness 4-Prong Connector to the Flasher Control Module.
7. Bundle and secure excess cord to the Module Bracket with Tie Wraps. Along the Frame, secure Harnesses with Tie Wraps to the Frame End Plate Slots, Slotted Tabs and Hydraulic Hoses. Secure the Lamp cords to the ends of the Seed Box with Adhesive Mounts and Tie Wraps. Bundle and secure 7-Pin Harness to the Drawbar Hydraulic Hoses or 3-PT Hitch Frame Slots allowing enough Harness length to reach the Tractor Socket.

NOTE

Install, route and secure Electric Clutch Harness with the Warning Lamp Harness.

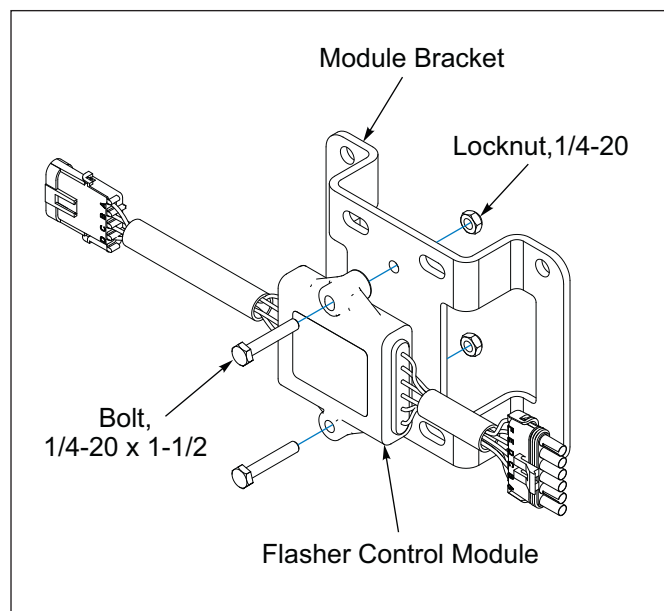
IMPORTANT

All Harnesses must be firmly attached to Machine Frame members or Hydraulic Hoses so they do not sag or become torn loose by field debris.

8. Attach the SMV sign to the SMV Support using 5/16-18 x 1 Bolts, Flat Washers, and Locknuts.
9. Attach the Connector Holder to the Drawbar Hose Holder or 3-PT Hitch with 1/4-20 x 1 Bolts, Flat Washers, and Locknuts.

NOTE

The 7-Pin Plug on the other end of the 7-Pin Harness connects to the Tractor Socket when in use. When not in use, it can be stored in the Connector Holder on the Drawbar Hose Holder or 3-PT Hitch. Allow enough Harness length to reach Tractor Socket and roll or fold up excess and secure to Drawbar Hydraulic Hoses or 3-PT Hitch.



**Figure 2-22: Flasher Control Module and Bracket
(Before 06/2026)**

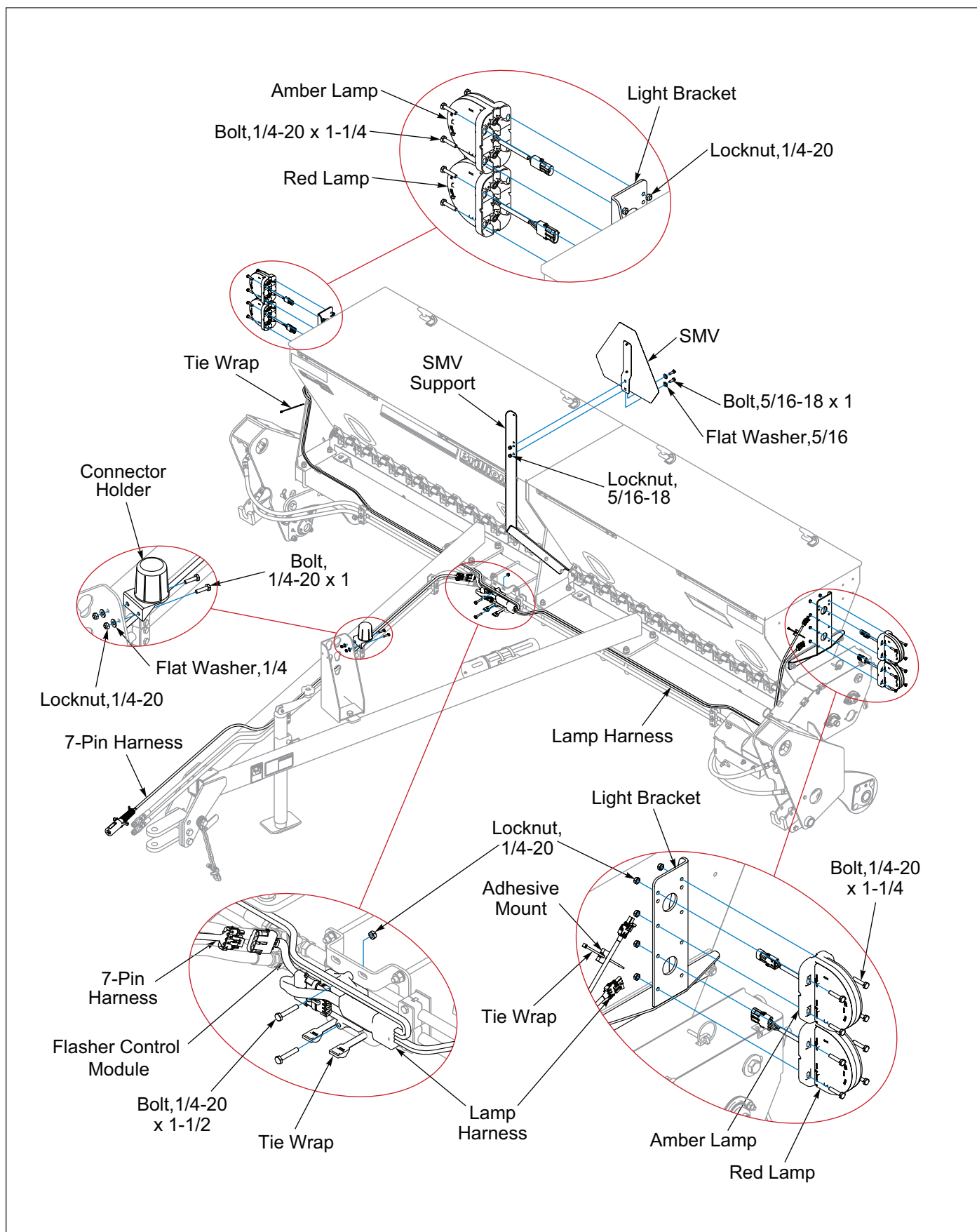


Figure 2-23: Warning Lamp Installation, 8FT and 10FT (Before 06/2026)

Warning Lamp Installation, 12FT (Before 06/2026)

NOTE

12FT 3-PT model is shown, Drawbar model similar.

1. Place a Red Lamp at each end of the Light Bar and insert the Red Lamp Cord into the Light Bar cutout. Secure Red Lamp to Light Bar with 1/4-20 X 1-1/4 Bolts and Locknuts. **See Figure 2-25.**
2. Attach Amber Lamps to the outer ends of the seed boxes using 1/4-20 x 1 1/4 Bolts and Locknuts.
3. Attach the Flasher Control Module to the Module Bracket with 1/4-20 x 1-1/2 Bolts and Locknuts. **See Figure 2-24.**

IMPORTANT

Cords are marked Yellow Tape for Left and Green Tape for Right.

4. Lay out the Lamp Harness along the Seeder Frame Tube, Cords with Yellow Tape Left and Cords with Green Tape Right. Connect the Harness to the Flasher Control Module 6-Prong Connector.
5. Route the left and right cords along the front of the Frame Tube. Route the 3-Prong Connector Cords into the Light Bar vertical tube openings up to the Red Lamps and connect. Continue routing the 2-Prong Connector Cord along the front of the frame, up the outer Light Bracket to the Amber Lamps and connect.
6. Lay out the 7-Pin Harness along the 3-PT Hitch or Drawbar with the 4-Prong Connector towards Seeder. 3-PT Hitch, route the 4-Prong Connector Cord through the Frame Loop to the Module. Drawbar, route the 7-Pin Harness along the Drawbar, through the Hose Support up to the Tractor. Connect 7-Pin Harness 4-Prong Connector to the Flasher Control Module.
7. Bundle and secure excess cord to the Module Bracket with Tie Wraps. Along the Frame, secure Harnesses with Tie Wraps to the slots within the Frame and Harness Mounting Strips. Secure the Amber Lamp cords to the ends of the Seed Box with Adhesive Mounts and Tie Wraps. Bundle and secure 7-Pin Harness to the Drawbar Hydraulic Hoses or 3-PT Hitch Frame Slots allowing enough Harness length to reach the Tractor Socket.

NOTE

If equipped with optional Electrical Clutch, install, route and secure Electric Clutch Harness with the Warning Lamp Harness.

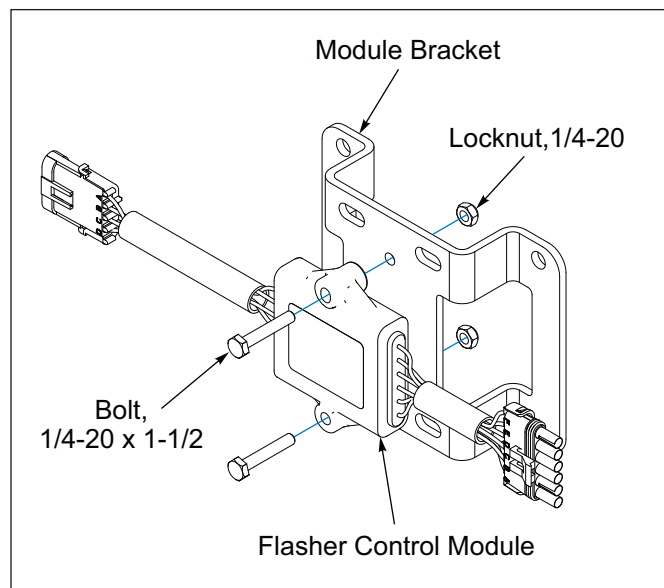
IMPORTANT

All Harnesses must be firmly attached to Machine Frame members or Hydraulic Hoses so they do not sag or become torn loose by field debris.

8. Attach the SMV sign to the SMV Mount located on the Center on the Light Bar with 5/16-18 x 1" Bolts, Flat Washers, and Locknuts.
9. Attach the Connector Holder to the 3-PT Hitch or Drawbar Hose Holder with 1/4-20 x 1 Bolts, Flat Washers, and Locknuts.

NOTE

The 7-Pin Plug on the other end of the 7-Pin Harness connects to the Tractor Socket when in use. When not in use, it can be stored in the Connector Holder on the Drawbar Hose Holder or 3-PT Hitch. Allow enough Harness length to reach Tractor Socket and roll or fold up excess and secure to Drawbar Hydraulic Hoses or 3-PT Hitch.



**Figure 2-24: Flasher Control Module and Bracket
(Before 06/2026)**

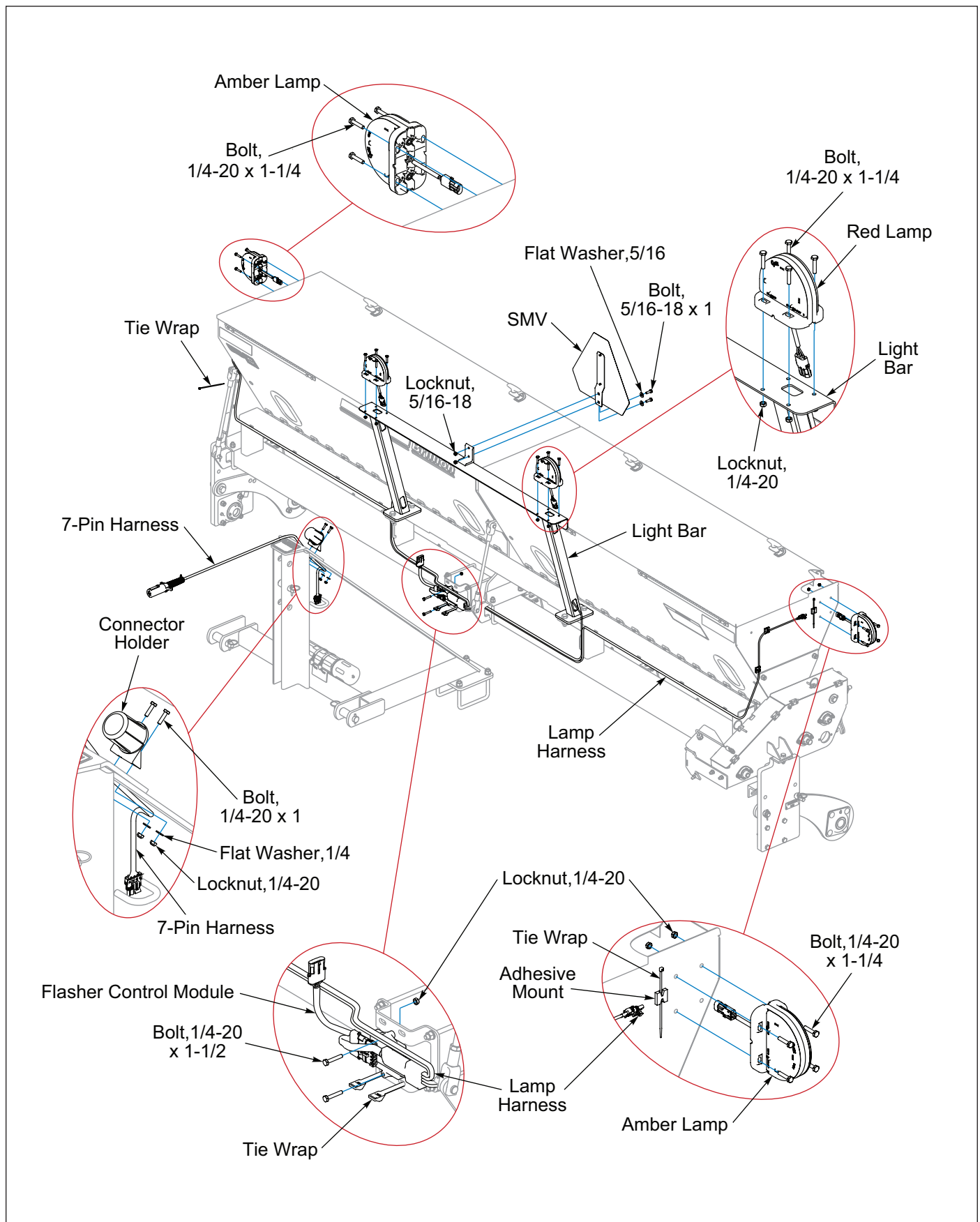


Figure 2-25: Warning Lamp Installation, 12FT (Before 06/2026)

Latch Installation

Large Seed Box Cover with Latches and Gas Springs.

1. Place the Gasket on Latch Base and place on Seed Box Cover.
2. Install slotted screws to secure Latch to Cover.
3. Thread the nut onto latch rod, then slide on Internal Tooth Washer, Pawl, the other Internal Tooth Washer and then thread on the other nut. Hand tighten only.

Close the Cover and turn Latch to see if Pawl fits snug up against seed box lip. If it does not, open Cover and adjust nuts accordingly. When properly adjusted, securely tighten latch nuts.

Cover Gas Spring Installation

NOTE

Gas Spring rod end must be down for proper functionality.

1. Snap Gas Spring rod end onto Seed Box Gas Spring Bracket.
2. Swing Gas Spring base end up to Cover Ball Stud and snap in place.

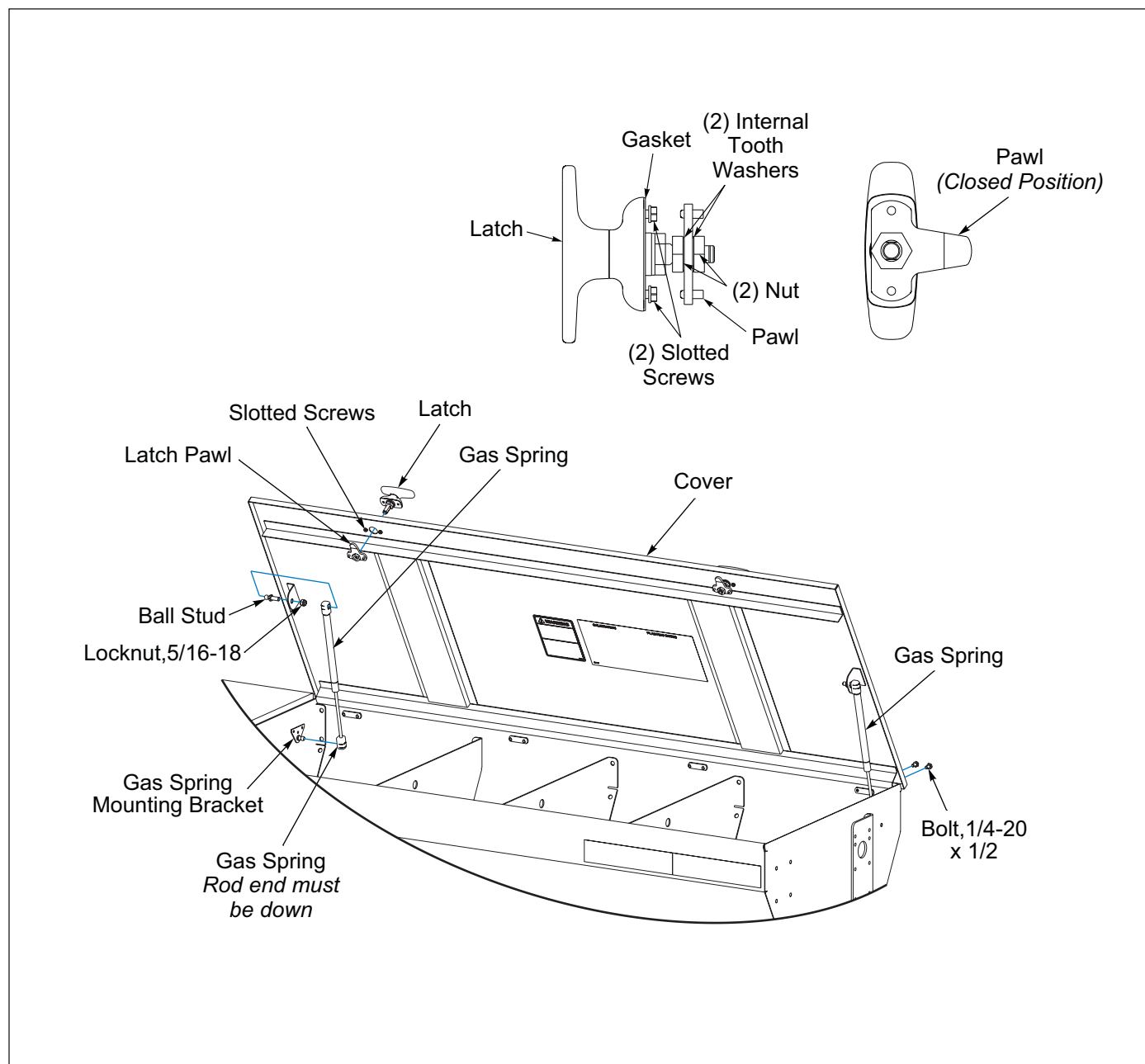


Figure 2-26: Latch Installation

Electric Clutch Kit - Optional

IMPORTANT

At no time use high pressure water or air to clean the Electric Clutch as damage could occur.

1. Verify that the Electric Clutch has 1/8" clearance between the Clutch Housing and Rubber Bumper Stop. Improper clearance may prevent the Clutch from engaging or disengaging. **See Figure 2-27.**

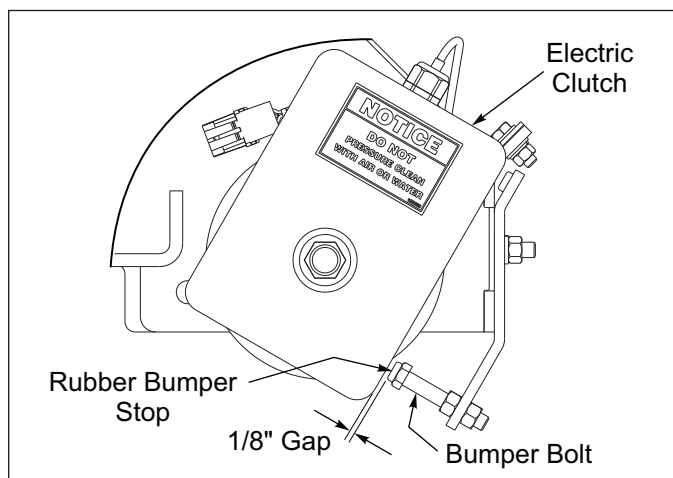


Figure 2-27: Clutch Detail

2. Connect Clutch Harness or Seeder Harness 2-Pin Connector to Clutch Lead and route along Frame and Drawbar/3-PT Hitch. Secure to Frame and Drawbar/3-PT Hitch or to Hydraulic Hoses and Warning Lamp Harness with tie wraps. **See Figure 2-28.**

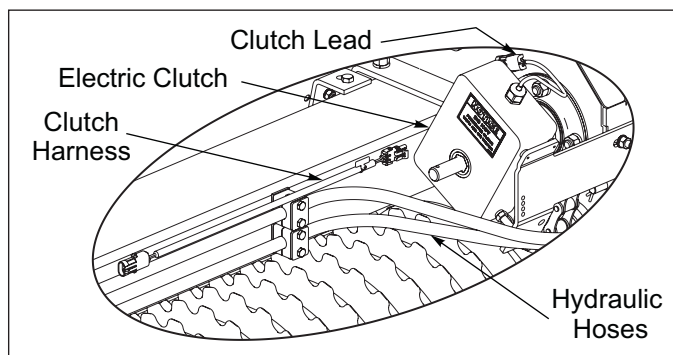


Figure 2-28: Clutch Harness

3. Install Clutch Switch Box or Monitor on Tractor in a convenient location with Hook and Loop Tape or Brackets included or another type of mount (not included).
4. **Clutch Switch Box:** Connect Clutch Harness to Clutch Switch Box Cord. Connect Clutch Switch Box Cord with Ring Terminals to tractor power source. **See Figure 2-29.** Ring Terminals can be removed and replaced with a different power source connector.

Brillion Elite Mini Monitor: Connect the Elite Mini Tractor Harness 14-Pin Connector to Brillion Elite

Mini Monitor, 3-Pin Power Plug to 12 Volt Tractor Convenience Outlet and 6-Pin Connector to the 240" Extension Harness. 4-Pin Connector is not used at this time. Connect 240" Extension Harness to Seeder Harness. Secure Harnesses with tie wraps.

5. Check Electric Clutch Operation. The Electric Clutch will disengage when power is applied. (Clutch will make a clicking sound). Set Seeder on the ground and drive a short distance while toggling the Seeder Clutch to "**ON/SEED**" and "**OFF/NO SEED**". The Seed Shaft will stop rotating when Monitor or Toggle Switch is set to "**OFF/NO SEED**".
6. Set Monitor or Toggle Switch to "**ON/SEED**" position when Seeder is not used to shut off power to prevent possible overheating of Clutch Coil.

Electric Clutch Attributes:

- The Electric Clutch is controlled by a Touch Screen Monitor or a Toggle Switch Box mounted to the Tractor.

Brillion Elite Mini Monitor: Touch Screen Monitor provides the user the ability to turn the Seeder Clutch "**ON**" or "**OFF**".

Clutch Switch Box: Toggle Switch on the Switch Box, turns the Seeder Clutch to "**SEED**" or "**NO SEED**".

Console w/Clutch Control: Toggle Switch on the Console, turns the Seeder Clutch to "**SEED**" or "**NO SEED**".

- The Electric Clutch is disengaged when power (12 Volts) is applied. If there is a power failure or electrical problem, the Seeder will continue to operate, so the machine must be raised to stop seeding.
- Seed Shafts will not rotate when the machine is backed up.
- The Clutch Switch Box contains a 5 Amp Time-Delay Fuse.
- The Electric Clutch must be disengaged (power applied) when Seed Shafts are turned manually for Calibration.

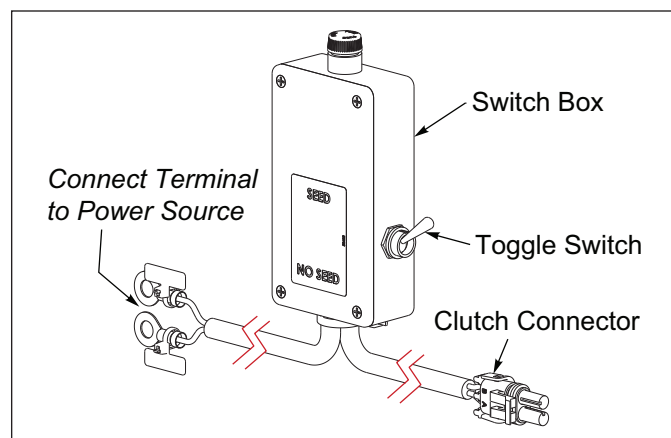


Figure 2-29: Switch Box Assembly

Brillion Elite Mini Monitor - Optional

IMPORTANT

The Brillion Elite Mini Monitor System by Loup utilizes a MUX communication line. Sensors must be learned into the Monitor. Location of each pre-learned Smart Shaft Sensor or Bin Level Sensor is important for proper Monitor display. Each Sensor utilizes 3 wires (+, -, MuxBus) to connect to the system. The Sensors do not require specific Harness connection points. Each Sensor is identified in the Monitor by its own signal.



WARNING

High Power Magnet is use. See "High Power Magnet" on Page 1-2.

IMPORTANT

All Harnesses must be firmly attached to Machine Frame members so they do not sag or become torn loose by field debris.

Refer to Brillion Elite Mini Monitor Electrical Schematic. See Figure 2-33.

1. Lay out the Seeder Harness on the front of the Seeder ensuring that the Electric Clutch 2-Pin Connector is on the left side. The Seeder Harness 24" Branch connects to the LH Bin Level Sensor.
2. Remove Seeder Clutch. Install Actuator Assembly onto the Quill Shaft outer diameter, securing with Actuator Assembly Set Screw. Reinstall Clutch. See **Figure 2-34**. Install Pick-up Switch Bracket to the Transmission Input Shaft Bearing Flangette Hardware. Assemble Smart Shaft Sensor onto the Pick-Up Switch Bracket with sensor provided hardware and #8-32 Flange Locknuts. Adjust the Smart Shaft Sensor so that it is 1/8" Max away from the Actuator Assembly. See **Figure 2-30**. Connect Ground Speed Smart Shaft Sensor to the Center Seeder Harness.
3. Front RH side Seed Box between the 2nd and 3rd Seed Meter Assembly, place 1-1/4 x 1/4 x 1/16 Magnet on the Seed Shaft. Secure with Magnet Collar. See **Figure 2-35**. Remove the 3rd and 4th Seed Meter front 1/4-20 x 3/4 Round Head Machine Screws that mounts the Seed Meter to the Seed Box and replace them with 1/4-20 x 1 Round Head Machine Screws. Place a 1/4 Flat Washer on each side of the Sensor Mount and install it on the 1/4-20 x 1 Machine Screws. Secure with Lock Washers and Nuts. Install a Smart Shaft Sensor to the Sensor Mount with sensor provided hardware and #8-32

Flange Locknuts. Adjust the Smart Shaft Sensor so that it is 1/8" Max away from the Magnet Collar on the Seed Shaft. See **Figure 2-32**. Connect the Smart Seed Shaft Sensor to the Seeder Harness.

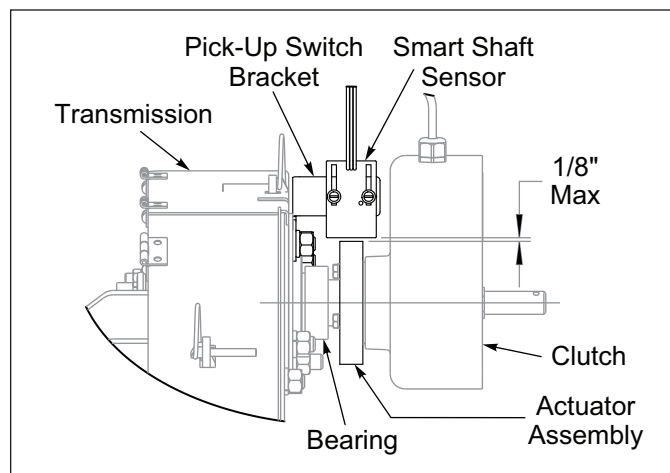


Figure 2-30: Ground Speed Sensor Detail

4. Unused Seeder Harness RH 3-Pin Connector needs to be sealed with a 3-Pin Shroud and Cavity Plugs to protect the Harness from the environment.
5. The Seeder RH and LH ends only, remove the .803 Knockouts in the Seed Box. *Do Not remove the Knockouts in the Seed Boxes at the center of the Seeder.*
6. On the inside at either end of the Seed Box, install a Bin Level Sensor Bracket with the Seed Box Mounting 3/8-16 Hardware. See **Figure 2-36**. Determine the desired level for the alarm to be indicated on the Brillion Elite Mini Monitor and assemble the Bin Level Sensors to Bin Level Sensor Brackets with sensor provided hardware and #8-32 Flange Locknuts. If more adjustment is needed, the Bin Level Sensor Brackets can also be raised or lowered to the desired seed level. Install Cord Grips from the inside of the Seed Box out and secure with supplied Locknut on the outside of the Seed Box. To get the Sensor Connector outside the Seed Box, feed the terminals through the Cord Grip. Install the terminals into the 3-Pin Shroud labeled "A", "B" and "C" as follows "A" White, "B" Black, "C" Green. See **Figure 2-31**. Inside the Seed Box, provide enough cord slack to the Bin Level Sensor Cord to allow for future adjustments of the Sensor. Secure the Bin Level Cord by tightening the Cord Grip Compression Nut. Connect both Bin Level Sensors to the Seeder Harness.

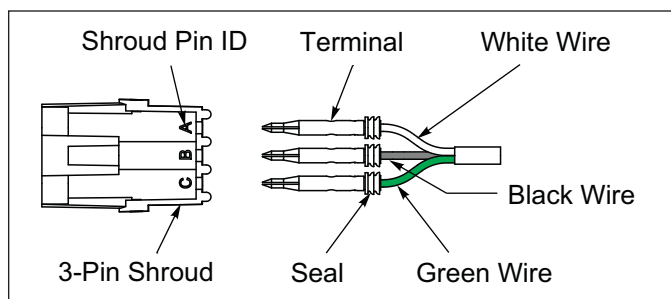


Figure 2-31: Bin Level Sensor Wire Detail

7. Connect the 240" Extension Harness to the Seeder Harness. Route the 240" Extension Harness along the Seeder Frame and down the Drawbar/3-PT Hitch to the Tractor.
8. Install Brillion Elite Mini Monitor on Tractor. See **"Brillion Elite Mini Monitor Tractor Installation - Optional"** on Page 2-26.
9. If not already installed, install Smart Clutch Relay into Elite Mini Tractor Harness 3-Pin Connectors.
10. Connect the Elite Mini Tractor Harness 14-Pin Connector to Brillion Elite Mini Monitor, 3-Pin Power Plug to 12 Volt Tractor Convenience Outlet and 6-Pin Connector to the 240" Extension Harness. 4-Pin Connector is not used at this time.
11. Bundle and secure all Harnesses along the Seeder Frame and Drawbar/3-PT Hitch with Tie Wraps.
12. Program Bin Level Sensors and Smart Shaft Sensors if not already pre-programmed. See **"Brillion Elite Mini Monitor"** on Page 4-1.

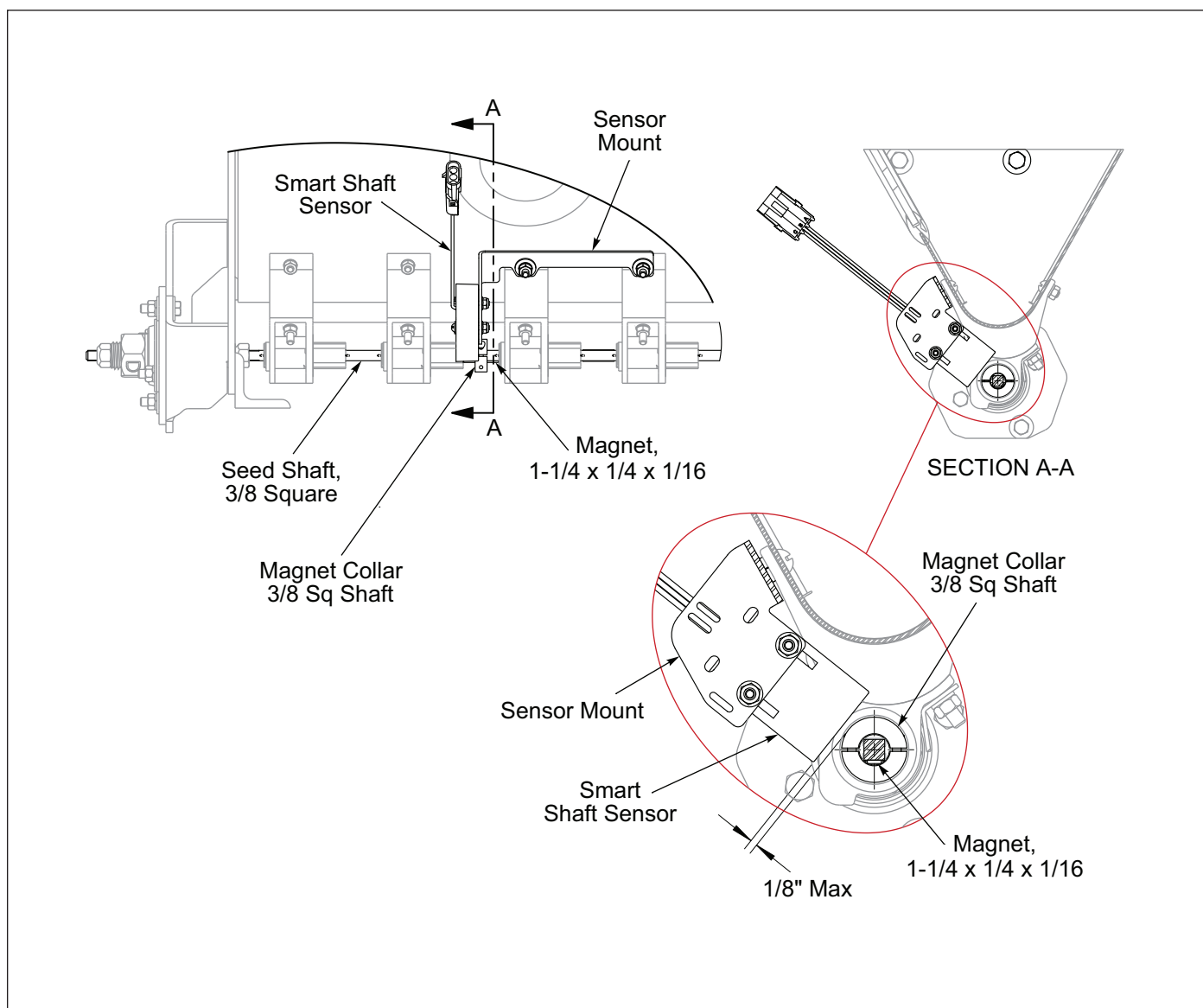


Figure 2-32: Seed Box Smart Shaft Sensor Detail

Brillion Elite Mini Monitor Electrical Schematic

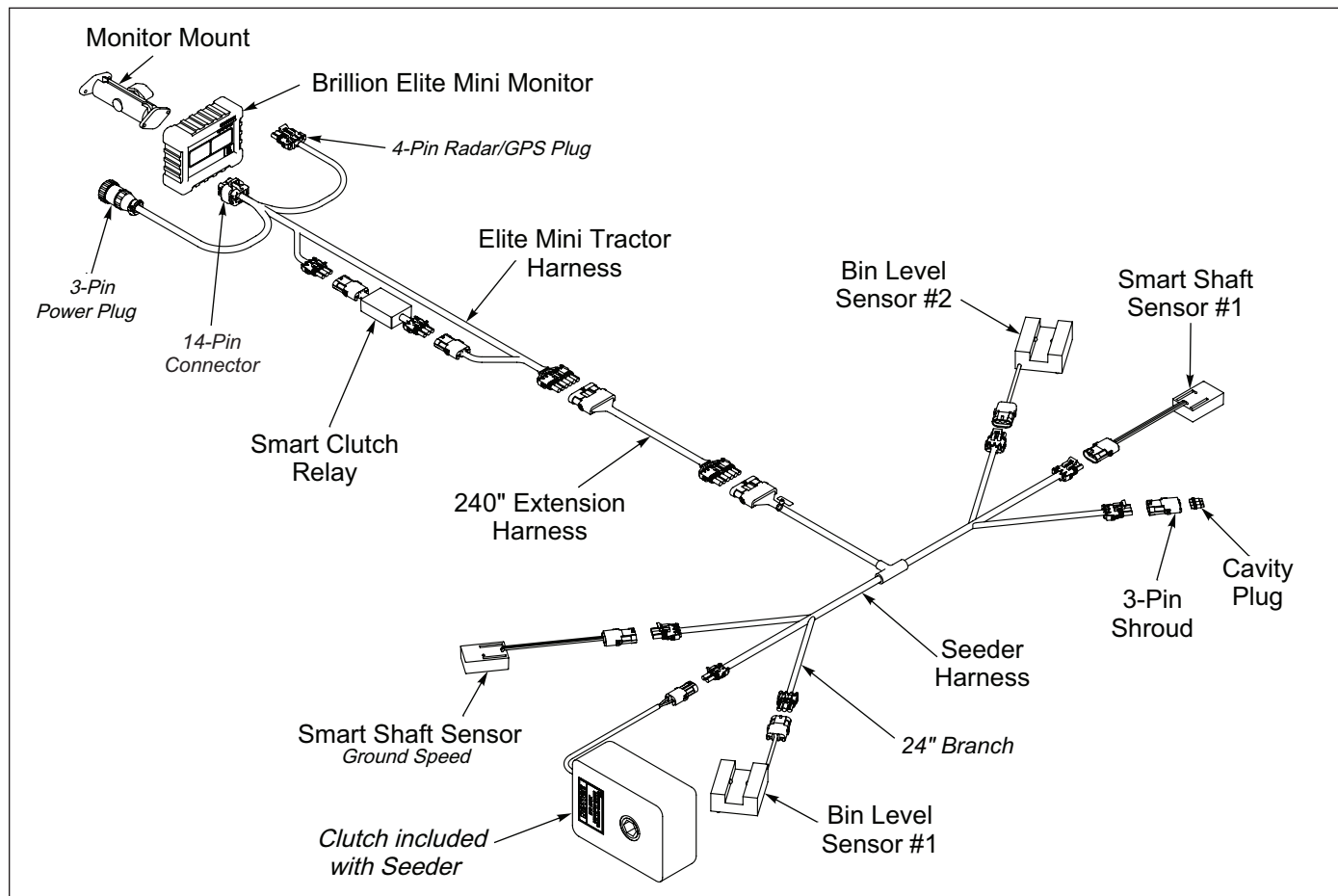


Figure 2-33: Brillion Elite Mini Monitor Electrical Schematic

Brillion Elite Mini Monitor - Ground Speed Sensor

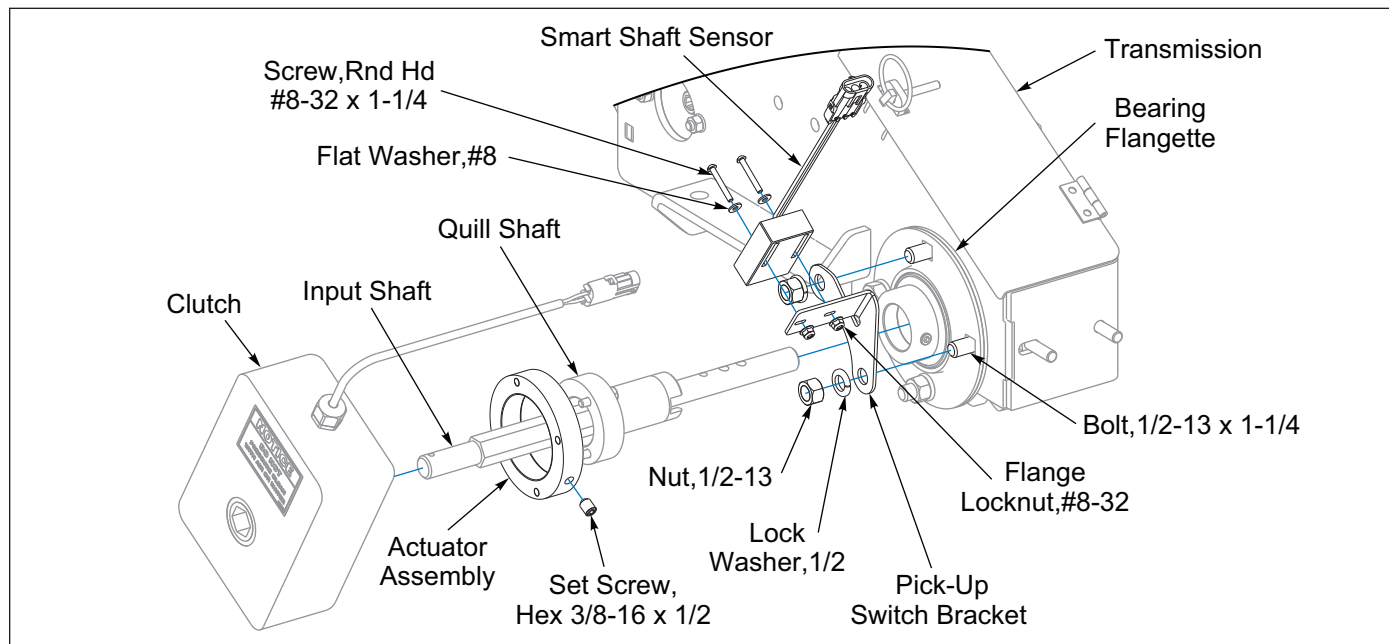


Figure 2-34: Brillion Elite Mini Monitor - Ground Speed Sensor

Brillion Elite Mini Monitor - Seed Box Seed Shaft Sensor

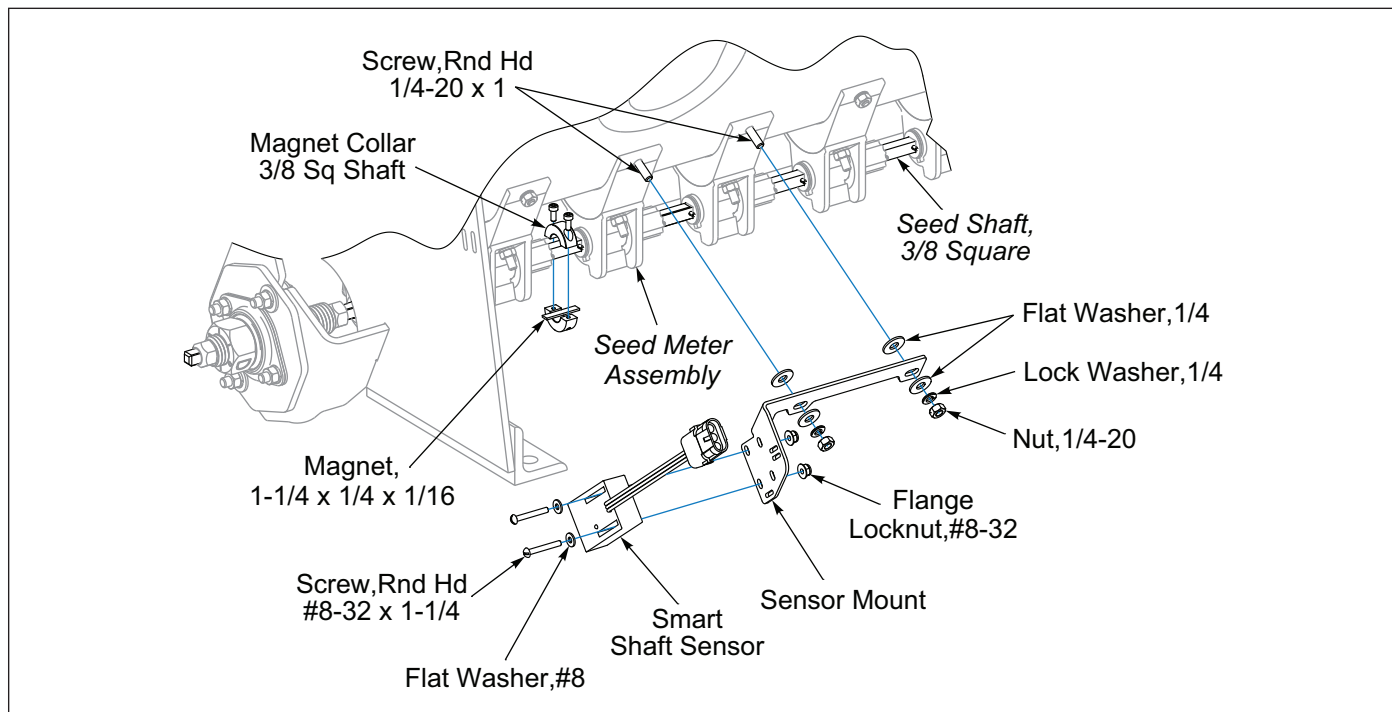


Figure 2-35: Brillion Elite Mini Monitor - Seed Box Seed Shaft Sensor

Brillion Elite Mini Monitor - Bin Level Sensor

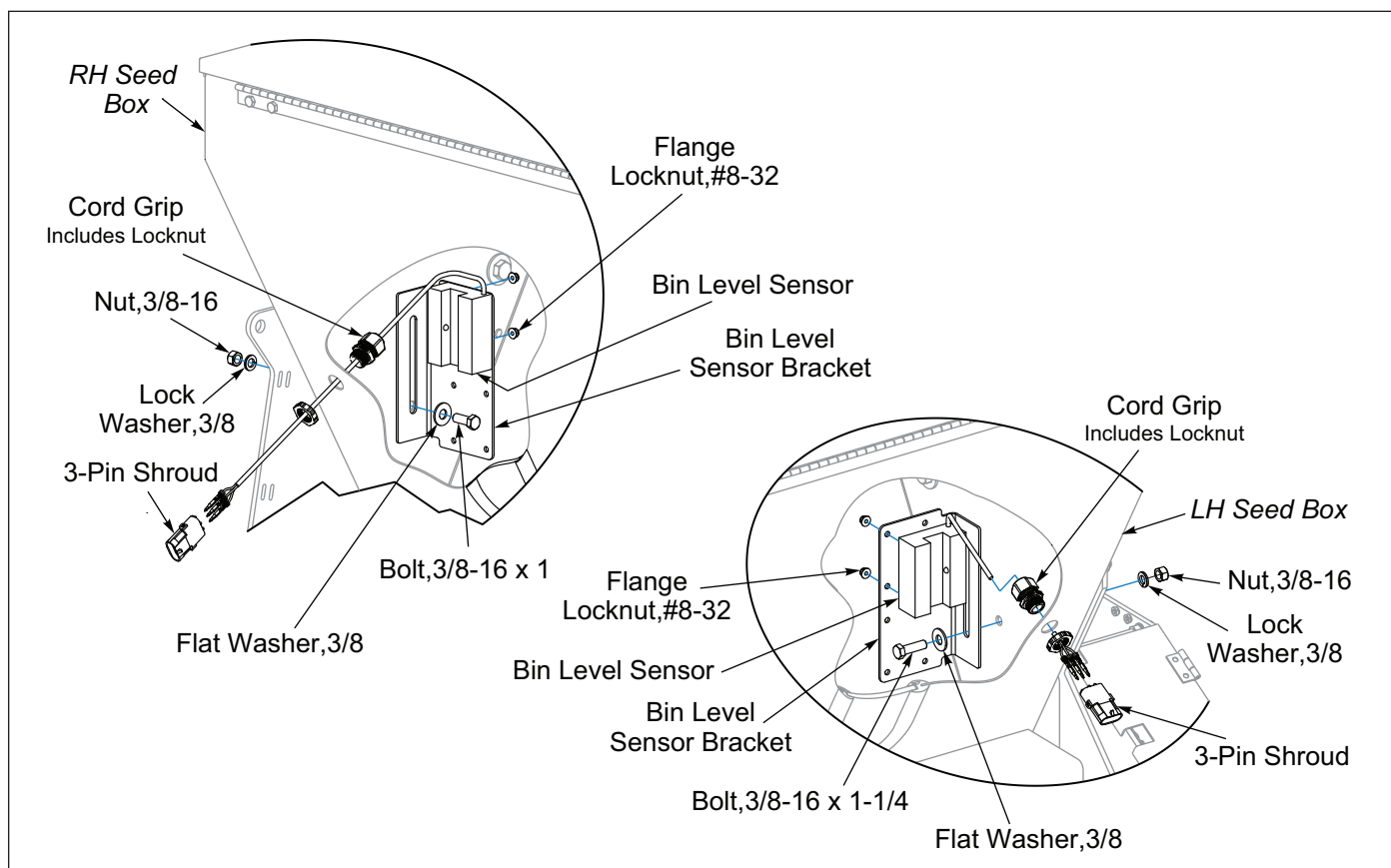


Figure 2-36: Brillion Elite Mini Monitor - Bin Level Sensor Bracket

Brillion Elite Mini Monitor Tractor Installation - Optional

1. Mount Angle Bracket onto Tractor where convenient for the operator. **See Figure 2-37.**
2. Attach Straight Bracket to Angle Bracket with 1/2-13 x 1-1/2 Bolt and Flanged Locknut.
3. Attach the Brillion Elite Mini Monitor to the Monitor Mount with Metric Machine Screws, provided with Monitor.
4. Attach the Monitor Mount to the Straight Bracket with #10-24 x 1 Machine Screws, Flat Washers, Lock Washers, and Nuts, provided with Monitor Mount.
5. With the Brillion Elite Mini Tractor Harness, plug the 14-Pin Connector into the Monitor, the 3-Pin Power Connector into the Tractor Convenience Outlet and the 6-Pin Connector into the 240" Extension Harness.
6. Check clutch operation: Clutch will engage when power is applied. (Clutch will make a clicking sound). **See "Brillion Elite Mini Monitor" on Page 4-1.**

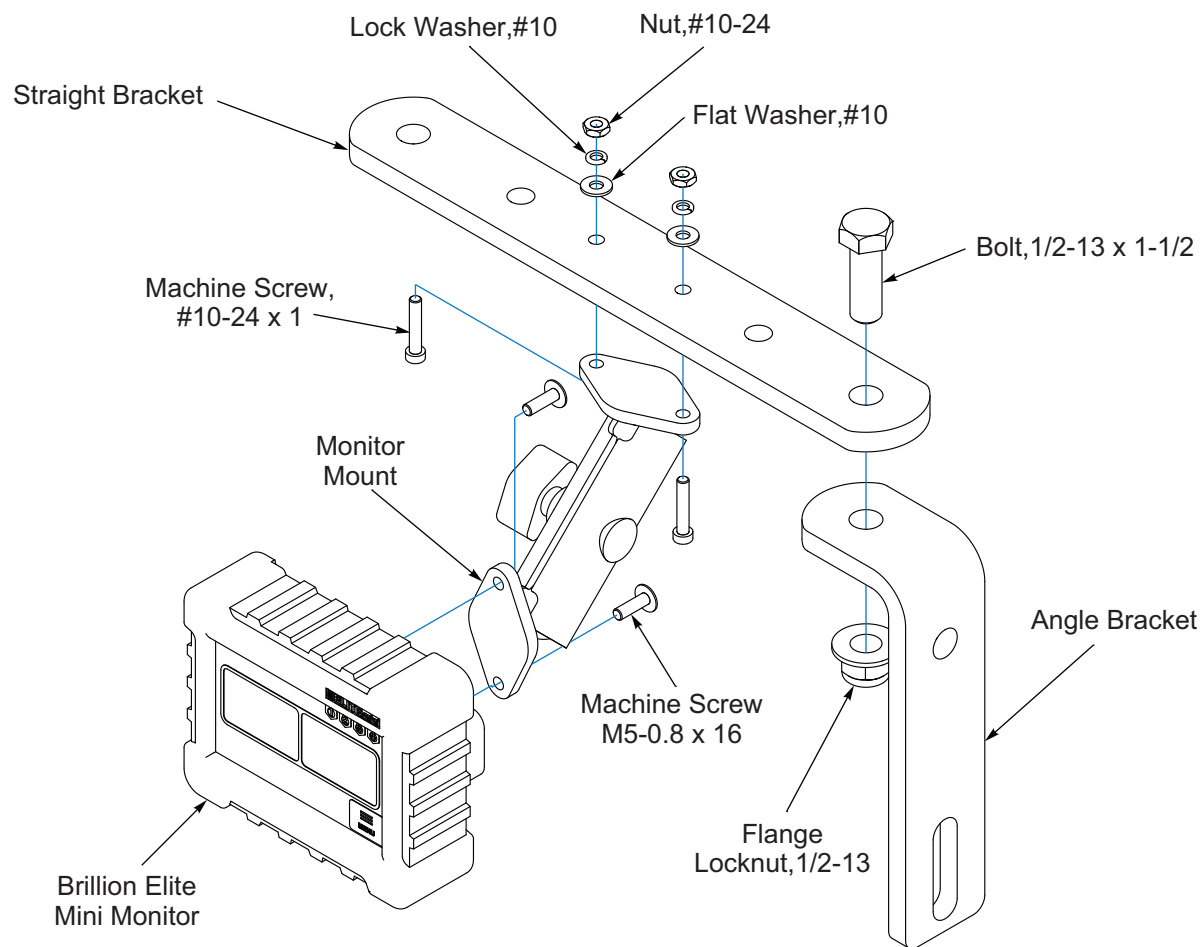


Figure 2-37: Brillion Elite Mini Monitor Tractor Installation - Optional

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Table provided for general use.

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Acre Meter Kit, 5K275 - Optional

Not Used with Brillion Elite Mini Monitor

NOTE

The Acre Meter Kit consists of three main parts, the Acre Meter, the Pick-Up Switch and the Magnet Wheel Assembly. The Acre Meter Assembly is mounted on the left side of the Front Seed Box. Acre Meter models may vary.

IMPORTANT

Alignment of the Pick-Up Switch and the Magnet Wheel Assembly is critical. Improper alignment will cause the Acre Meter to record acres erratically or not at all.

1. Use the Acre Meter Bracket as a guide and drill two 13/32" holes into the left Seed Box.
2. Attach the Acre Meter Bracket to the Seed Box with 3/8-16 x 1 Bolts, Lock Washers, and Nuts. **See Figure 2-40.**
3. Attach the Pick-Up Switch Bracket to the Support Bracket with #10-24 x 3/4 Machine Screws, Flat Washers, Lock Washers, and Nuts. Do not tighten screws at this time.
4. Attach the Pick-Up Switch to the top of the Switch Bracket with #8-32 x 1-1/4 Machine Screws, Flat Washers, Lock Washers, and Nuts. Do not tighten screws at this time.
5. Press the Magnetic Wheel Assembly onto the Clutch Shaft until it is vertically centered with the Pick-Up Switch.
6. Adjust the Pick-Up Switch and Pick-Up Switch Bracket so the centerline of the Magnet Wheel Assembly and Pick-Up Switch are horizontally and vertically aligned with maximum 1/8" between the Magnet Wheel Assembly and Pick-Up Switch. **See Figures 2-38.** Tighten all screws.

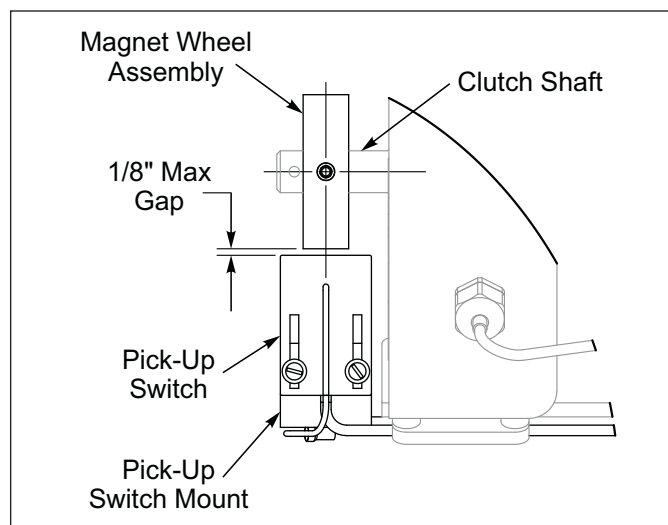


Figure 2-38: Pick-Up Switch Positioning

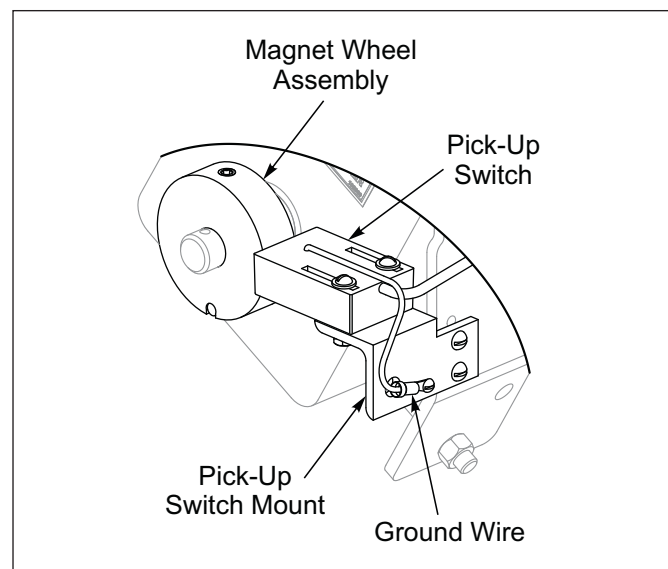


Figure 2-39: Pick-Up Switch Ground Wire

7. Attach the short Pick-Up Switch ground wire to the small hole in the Switch Bracket with a #6-32 x 1/2" machine screw, removing paint under the wire connector to assure a good electrical ground connection. **See Figures 2-39.**
8. Plug the Extension Harness into the Acre Meter cord. (After 06/01/2025, connect the Extension Harness to Channel 1 of the Acre Meter.)
9. Route the wire from the Acre Meter down the front of the Seed Box to the Pick-Up Switch and connect the mating plugs.
10. Securely fasten the wire to the Seed Box and transmission drive using the adhesive mounting bases and wire ties to prevent wire from becoming entangled or rubbing moving parts.
11. Program the Acre Meter. **See "Electronic Acre Meter Kit - Optional" on Page 3-15.**

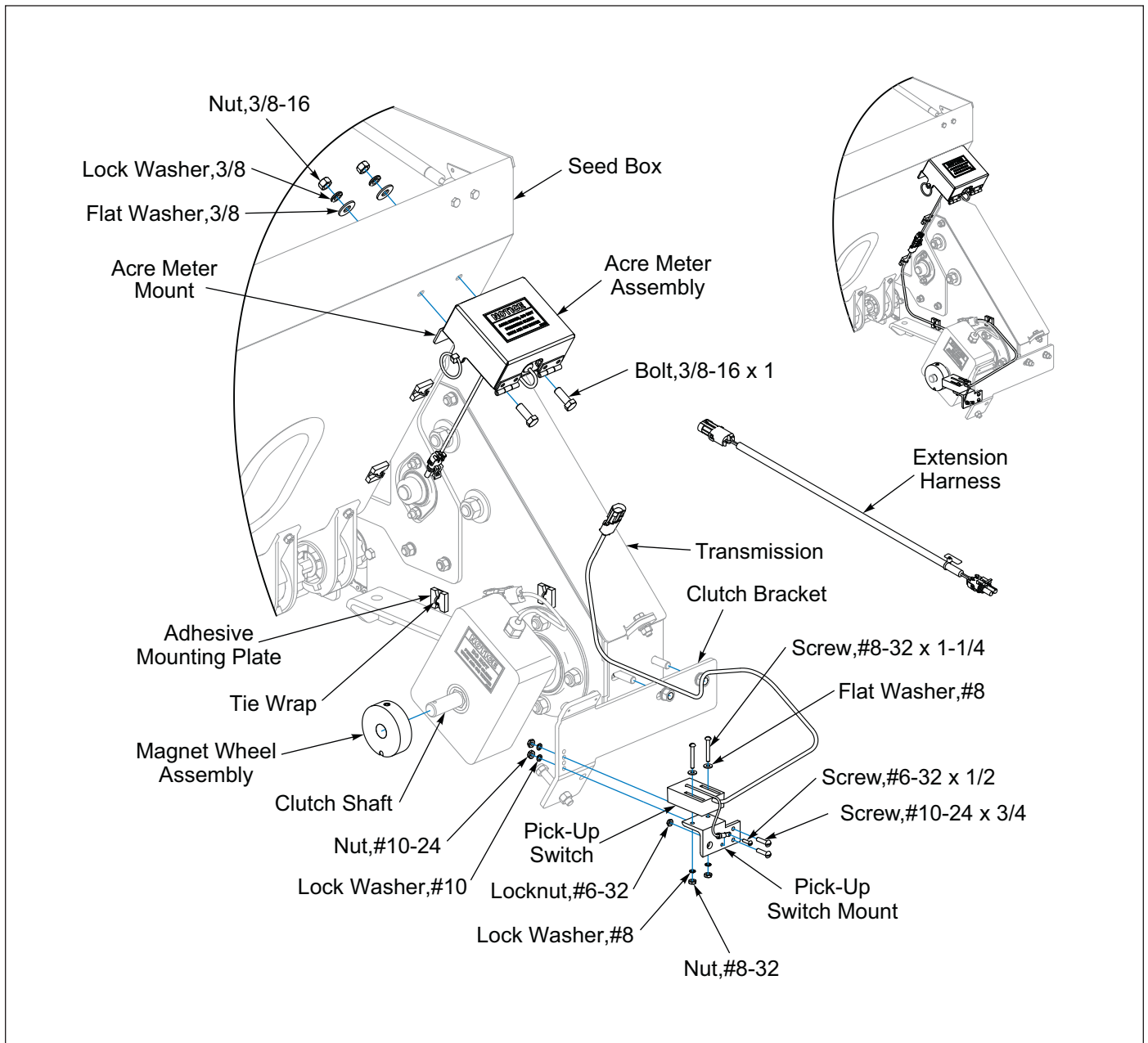


Figure 2-40: Electronic Acre Meter Kit

Console w/Clutch Control Installation - Optional

Mount Console with Clutch Control on Tractor.

1. Route Console Harness with 9-Pin Connector to the Seeder Harness.
2. Attach 3-Pin Power Plug to Tractor.
3. Secure console harness with tie wraps.
4. Route Seeder Harness along front frame of seeder. Ensure Connector plug labeled "Electric Clutch Power" is on the left side.
5. On left side connect plug labeled "Electric Clutch Power" to the Electric Clutch lead. **See Figure 2-41.**
6. Connect plug labeled "Left Front Seed Shaft Sensor" to the left front Seed Shaft Sensor. Seal the plug end using a 3-Pin Tower and Cavity Plug to protect it from the environment.
7. Repeat for the right side.
8. Secure all Harnesses and Wires with cable tie and tie wraps.

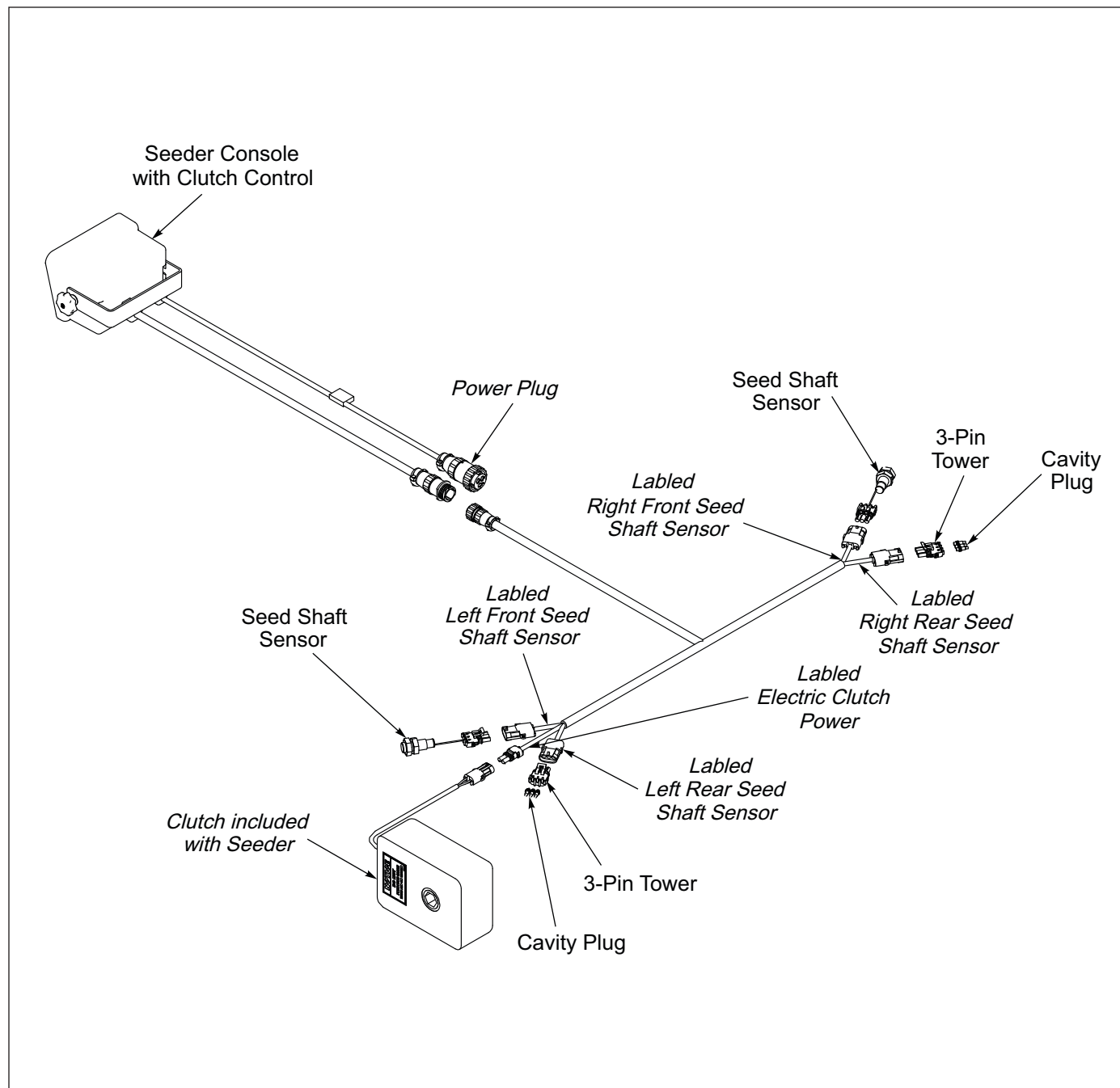


Figure 2-41: Console w/Clutch Control Electrical Schematic

Console w/Clutch Control - Seed Shaft Sensor - Optional

1. Remove the two #10 x 24 x 3/4 Self Tapping Screws from the Magnet Wheel Assembly. Position the rounded half of the Magnet Wheel Assembly on the seed shaft. Ensure it fits squarely onto shaft. Mount magnet half to the rounded half. Ensure it fits squarely onto shaft. **See Figure 2-43.**
2. Fasten the two halves together using two #10-24 x 3/4 Self Tapping Screws. *Do not over tighten.*
3. Identify the seed cups on either side of the Magnet Wheel Assembly and remove the 1/4-20 hardware.
4. Insert Sensor into Shaft Sensor Bracket slot.
5. Insert a 1/4-20 x 3/4 Machine Screw into each seed cup. Align the Shaft Sensor Bracket with the two existing 1/4-20 x 1" screws. Secure with existing Lock Washers and Nuts.
6. Slide/Position Seed Shaft Sensor so it is 1/8" from the magnet. **See Figure 2-42.** Tighten both retaining Locknuts.

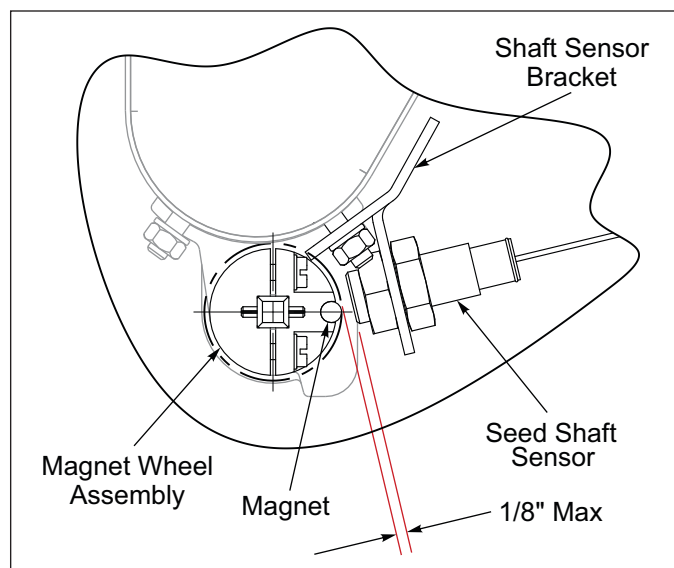


Figure 2-42: Console w/Clutch Control - Seed Shaft Sensor Detail

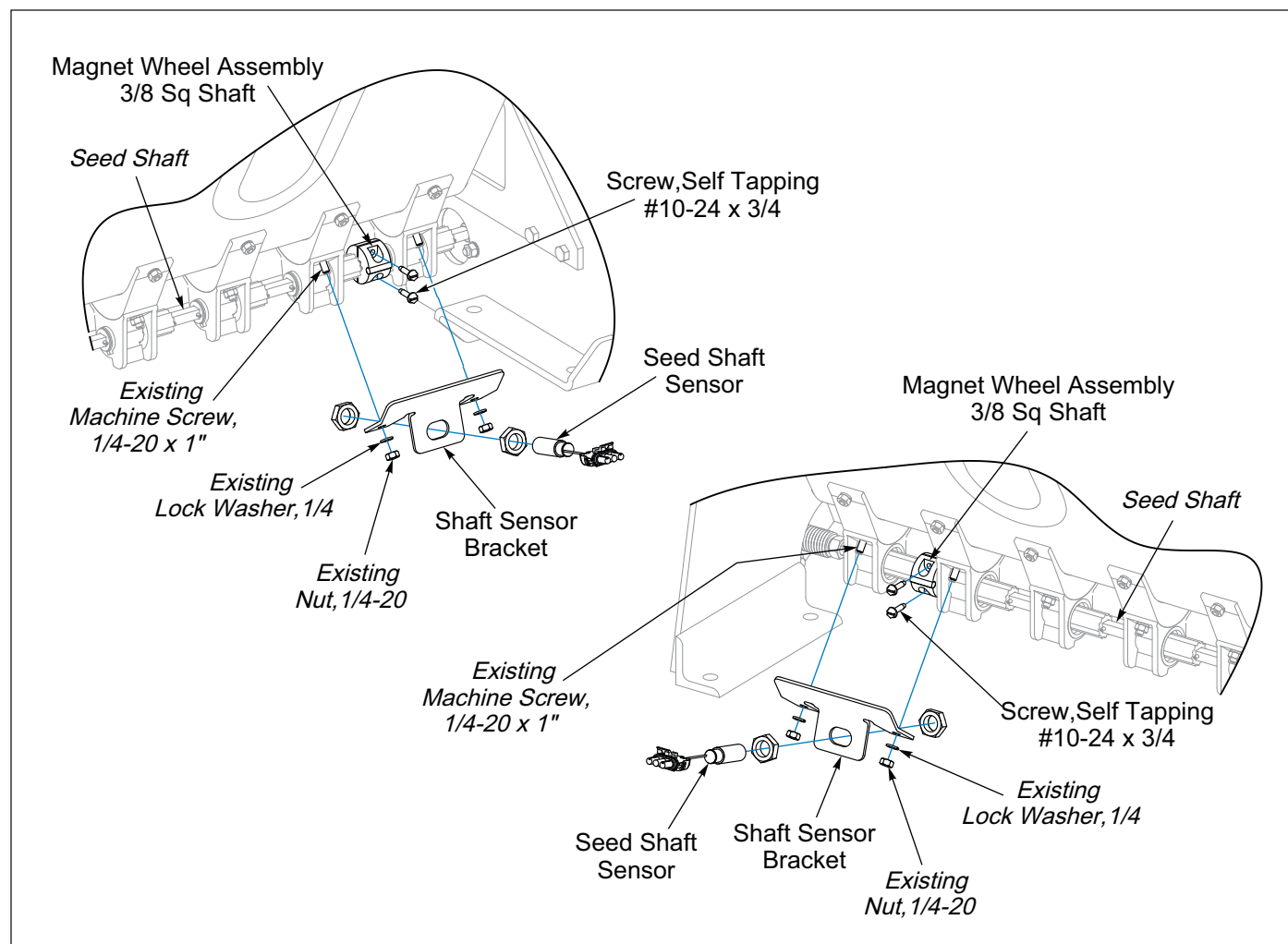


Figure 2-43: Console w/Clutch Control - Seed Shaft Sensor

Console w/Clutch Control Tractor Installation - Optional

1. Mount Angle Bracket onto Tractor where convenient for the operator. **See Figure 2-44.**
2. Attach Straight Bracket to Angle Bracket with 1/2-13 x 1-1/2 Bolt and Flange Locknut.
3. Attach the Console to the Straight Bracket with 1/4-20 x 1 Bolt, Flat Washers, and Locknut.
4. Plug Console 3-Pin Power Cord into the Tractor Convenience Outlet and 9-Pin Cord into the Seeder Harness.
5. Check clutch operation: Clutch will disengage when power is applied. (Clutch will make a clicking sound). Set seeder on the ground and drive a short distance while turning switch on and off. The seed shaft will stop rotating when switch is turned to "NO SEED" position. **See "Seed Box Seed Rate Adjustment" on page 3-9.**

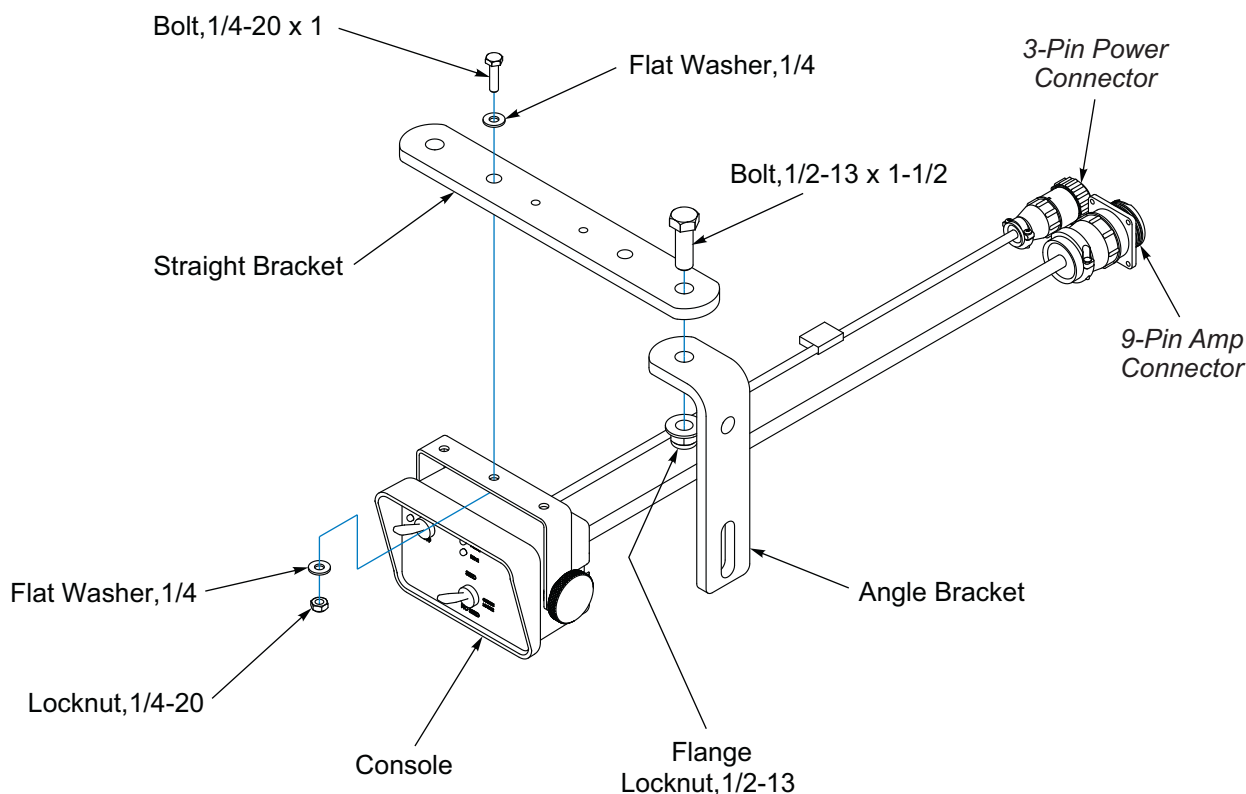


Figure 2-44: Console w/Clutch Control Tractor Installation - Optional

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Table provided for general use.

NOTES:

Scraper Kit, Tube Mounted - Optional

IMPORTANT

Cannot be used with Coil Tine Track Remover Kit.

NOTE

If Seeder has been used, check Front Roller Assembly Wheels that they are tight to one another before installing Scraper Kit. See “Front and Rear Roller Adjustment” on Page 4-5.

1. Lower implement onto level ground.
2. Position and assemble the Brackets with the 4-Hole Plate approximately as dimensioned on the front of the Seeder Frame Tube. See Figures 2-50 and 2-51. Secure with 1/2-13 x 4-1/2 x 7-1/2 U-Bolts and Flange Locknuts.

NOTE

Scraper Brackets should be positioned per application. Use Figures 2-50 and 2-51 only as a reference.

- **12FT Machines with Drawbar Braces:**
Mount the Brackets with the 4-Hole Plate to the Drawbar Brace Plates with the Drawbar Brace Hardware. See Figure 2-46.
- **3rd Bracket:**
10FT and 12FT Models require a 3rd Bracket that is to be installed on the Seeder Frame Tube left of center in a place that clears the Drawbar or 3-PT Hitch. See Figure 2-47.

NOTE

S-Tine Tire Track Remover Kit can be used with Scraper Kit. Do Not mount the outer Brackets with the 4-Hole Plate to the front of the Seeder Frame Tube. Attach the outer Scraper Bracket Angle to the Tire Track Remover Kit S-Tine Bracket Tube with a 1/2-13 x 4-9/16 x 3-1/4 U-Bolt and Flange Locknuts. See Figure 2-48.

3. Attach the Scraper Brackets to the Bracket Tube with a 1/2-13 x 4-9/16 x 3-1/4 U-Bolt and Flange Locknuts. Do Not tighten at this time. See Figure 2-45.

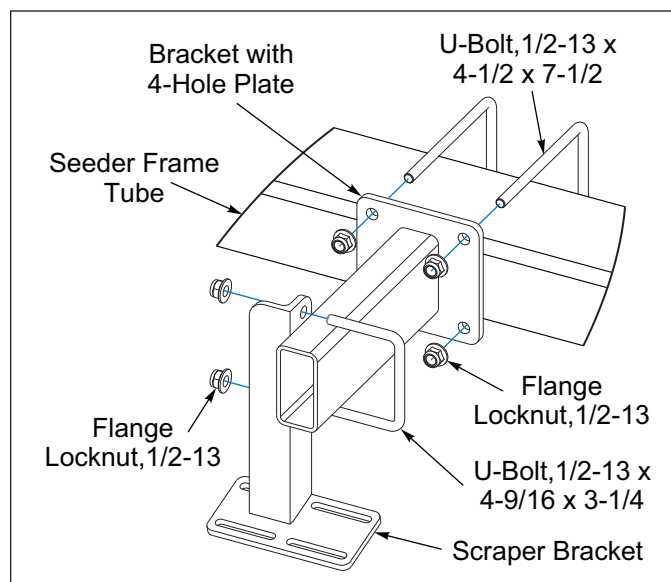


Figure 2-45: Scraper Brackets

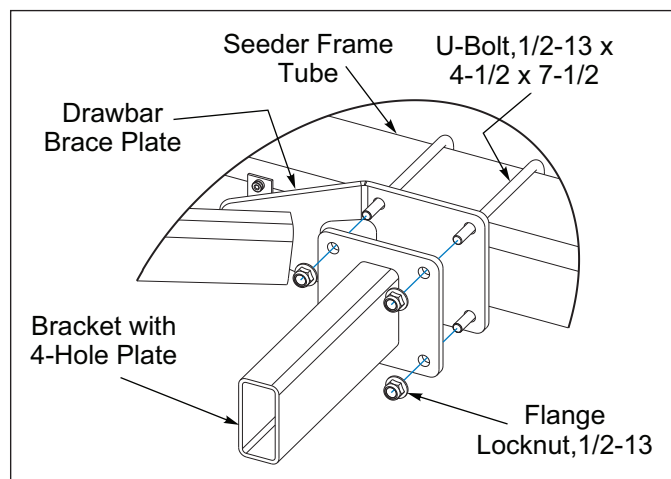


Figure 2-46: 12FT Drawbar with Braces

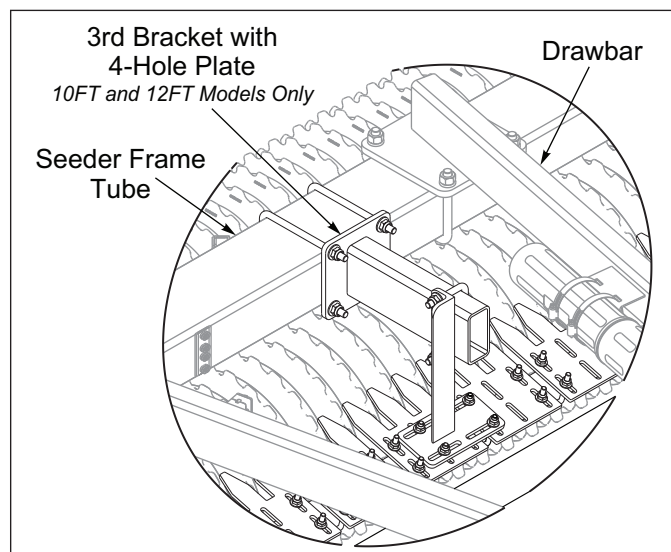


Figure 2-47: 3rd Bracket Placement - 10' & 12'

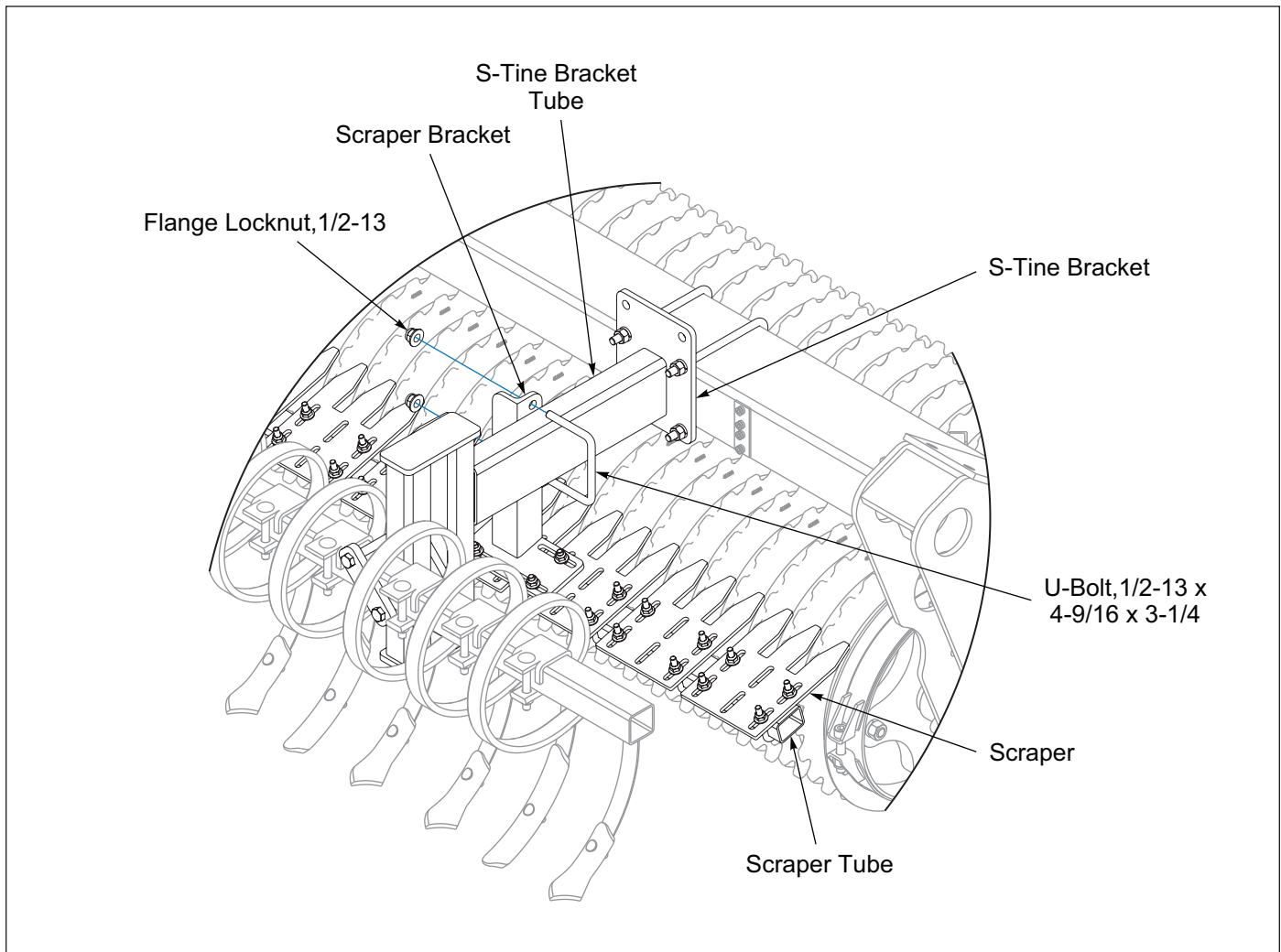


Figure 2-48: Tube Mounted Scrapers with S-Tine Tire Track Remover

4. Center Scraper Tube with the Seeder Front Roller.
5. Center the Scrapers between the Roller Wheels and attach them to the top of the Scraper Tube in the outer slots with 3/8-16 U-Bolts and Flange Locknuts. Attach the Single Scrapers to the end of the Scraper Tube as needed.
6. Align the Scraper Brackets Slotted Plate to the appropriate Scrapers and attach with the Scraper 3/8-16 Hardware. **See Figure 2-49.** It may be necessary to use the center pair and an outer pair of slots in the Scraper to attach the Scraper Bracket to the Scraper and Tube Assembly. **See Figures 2-50 and 2-51.**
7. Move the Scraper Bracket on the Bracket with 4-hole Plate Tube until the Scrapers are close enough to the Roller Wheels to be functional but without interference, about 3/16" to 1/4" gap between the Scraper and Roller Wheel.
8. Tighten all 1/2-13 Hardware. Adjustment may be required after use.

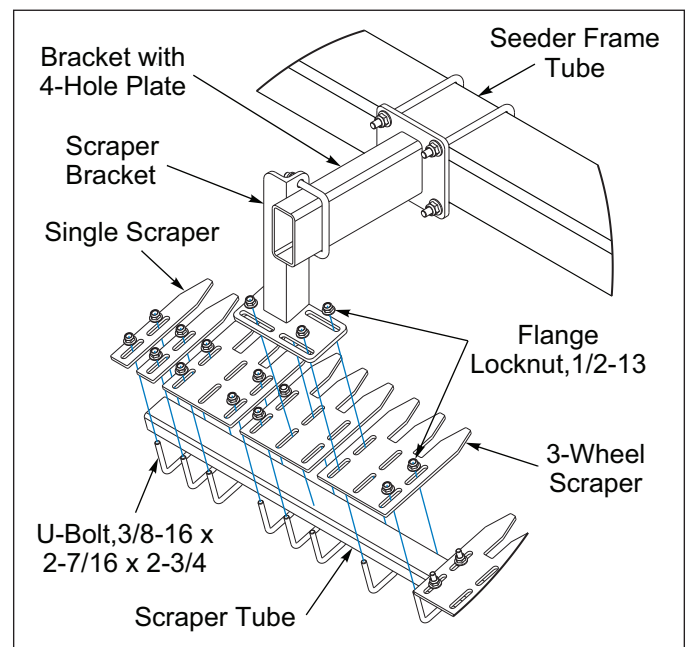


Figure 2-49: Scraper Assembly

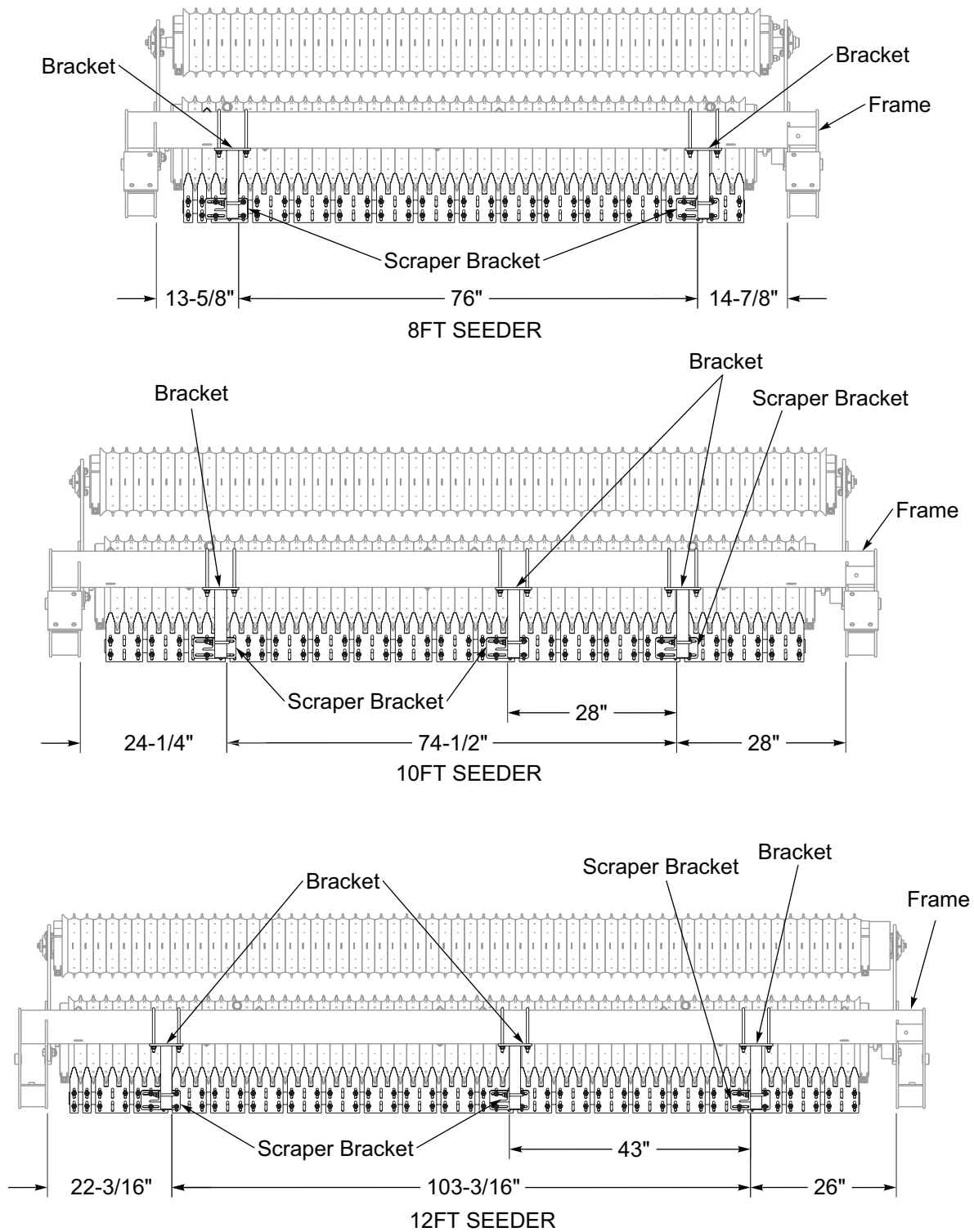


Figure 2-50: Scraper Mounting Dimensions - Pull-Type

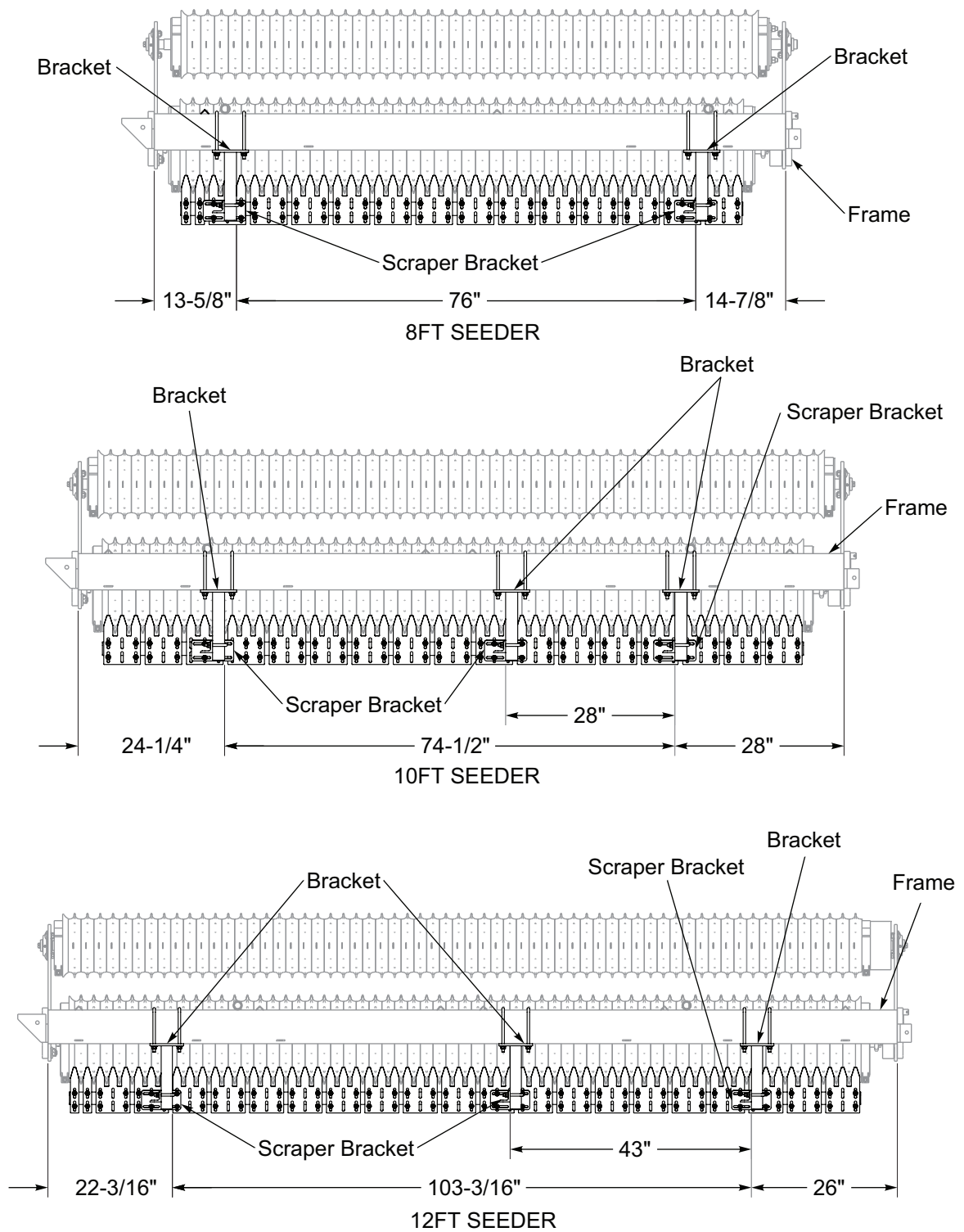


Figure 2-51: Scraper Mounting Dimensions - 3PT Hitch

S-Tine Tire Track Remover Kit - Optional

IMPORTANT

S-Tines should not be operated any deeper than necessary to remove Tractor Tire Tracks. Wet soil will stick to the Front Roller Wheels. As the S-Tine draft load is increased the S-Tines may deflect back and make contact with the Front Roller and break.

NOTE

S-Tine Tire Track Remover Kit includes six S-Tines. Additional S-Tines can be purchased and installed or fewer S-Tines can be used.

*S-Tine Brackets and S-Tines should be positioned per application. Use **Figure 2-54** only as a reference.*

1. Center and position the S-Tine Brackets in relationship with the center of the Drawbar or 3-PT Hitch to the front of the Seeder Frame Tube. **See Figure 2-54.** Secure S-Tine Brackets to the Seeder Frame Tube with 1/2-13 x 7-1/2 x 4-1/2 U-Bolts, Lock Washers, and Nuts. **See Figure 2-53.**
2. Center the Tooth Tube between the S-Tine Brackets and attach with Straps, 1/2-13 x 6 Bolts, Lock Washers, and Nuts.
3. Attach the S-Tines onto the Tooth Tube in the desired position to cover the Tractor Tire Tracks with Clamps, 7/16-14 x 3-1/2 Carriage Bolts and Locknuts.
4. Assemble the Points to the S-Tines. The suggested pattern is to assemble the Reversible Point onto the center S-Tine and a Duck Foot Point on the S-Tine on either side of the center S-Tine with 3/8-16 x 1-3/4 Plow Bolt and Flange Locknut. **See Figure 2-52.**

NOTE

*Scraper Kit can be used with the S-Tine Tire Track Remover. Attach the outer Scraper Bracket Angle to the S-Tine Bracket Tube. Outer Scraper Kit Brackets with the 4-Hole Plate are not used. **See Figure 2-48.** It may be necessary to adjust the Scraper Brackets on the Scraper Assembly for proper positioning of the Scrapers to the Front Roller Wheels.*

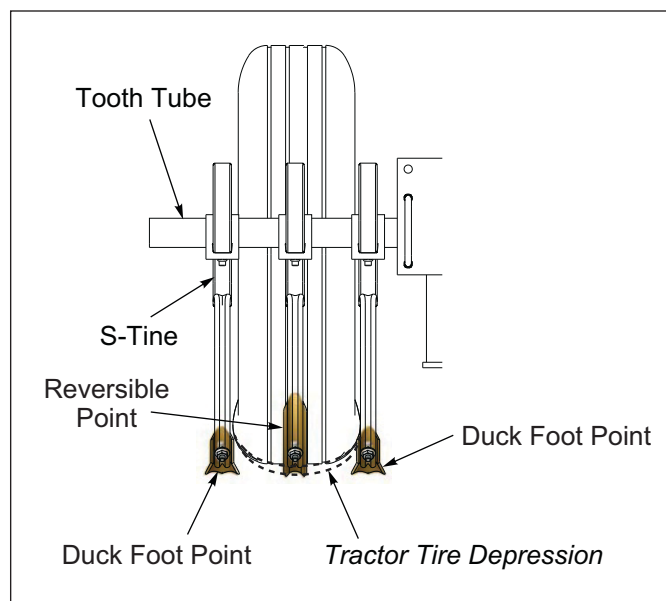


Figure 2-52: S-Tine Point Position

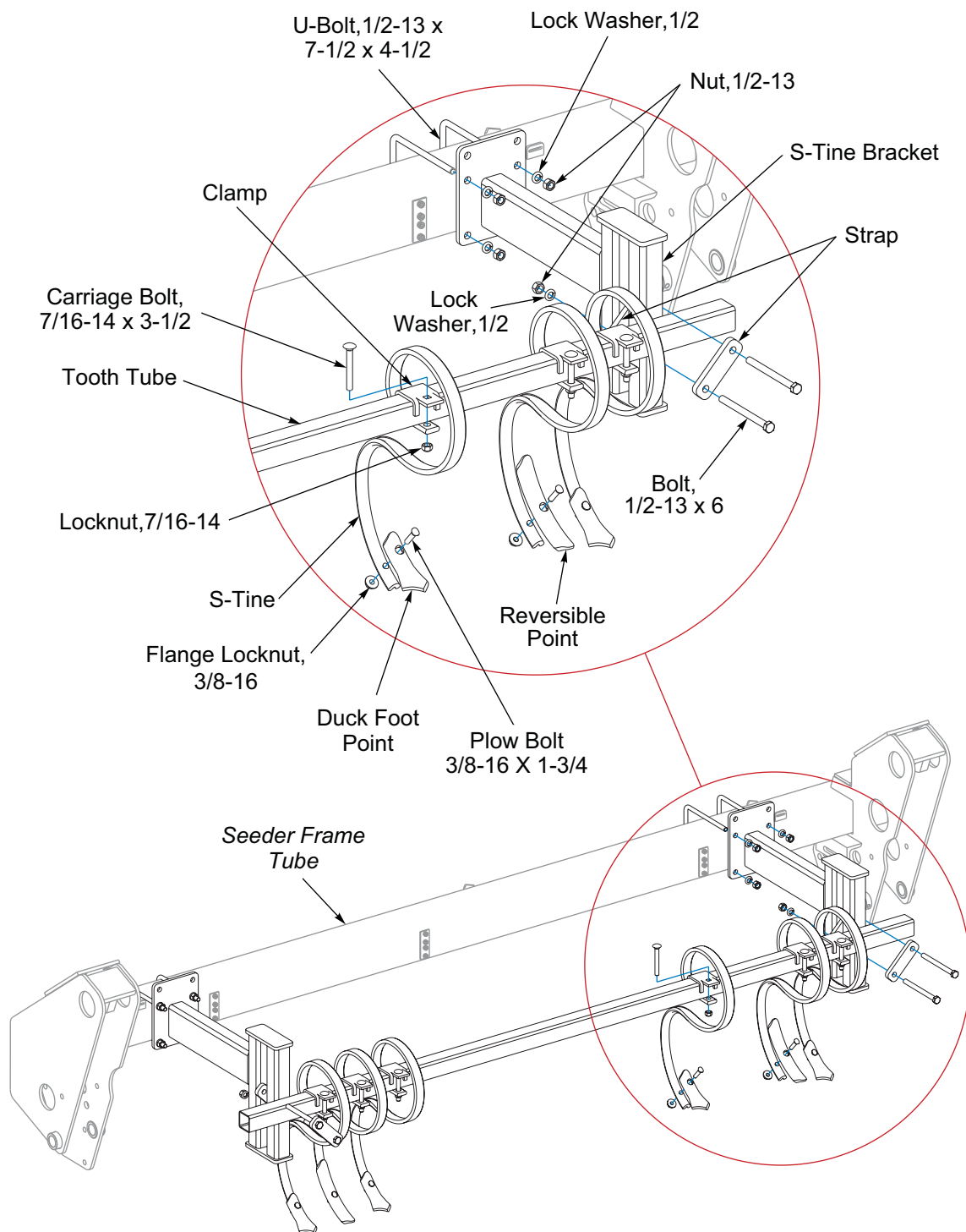


Figure 2-53: S-Tine Track Remover Kit - Optional

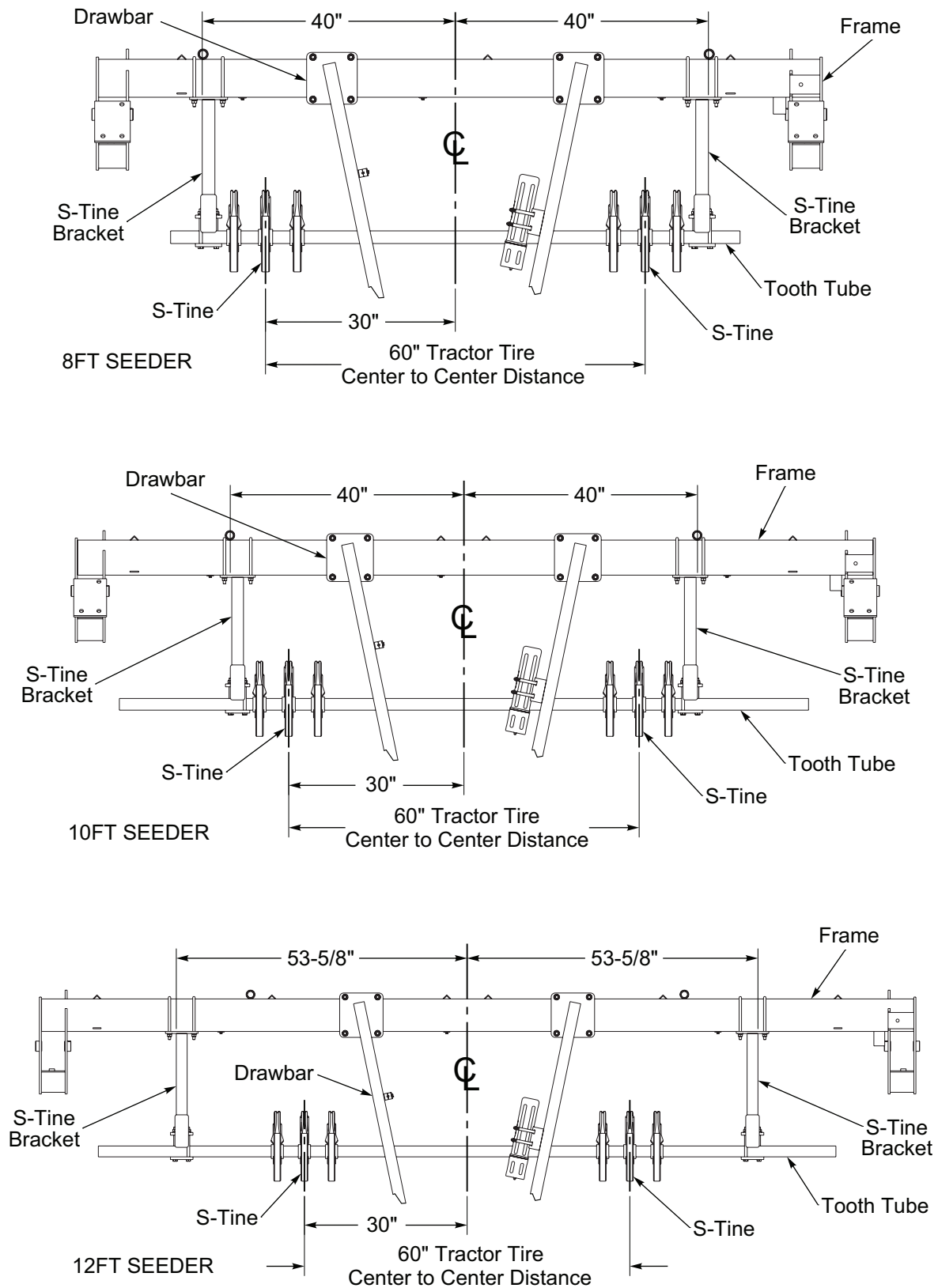


Figure 2-54: S-Tine Mounting Dimensions

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Table provided for general use.

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Coil Tine Track Remover Kit - Optional

IMPORTANT

Cannot be used with the Scraper Kit

1. Slide the Coil Tines onto the Round Bar so that the straight leg is frontward. **See Figure 2-55.**
2. Mount an Arm Weldment and a Coil Tine to the Round Bar second hole from the right end and the third hole from the left end with 3/8-16 x 3 Bolts, Flat Washers, Lock Washers, and Nuts.
3. Mount the Coil Tines to the Round Bar with 3/8-16 x 2-1/2 Bolts, Flat Washers, Lock Washers, and Nuts.
4. Position the Brackets on the Seeder Frame Tube and attach with 1/2-13 U-Bolts, Lock Washers, and Nuts. **Do not** tighten at this time.
5. Attach the Adjusting Angles to Brackets with Lock Screws. Secure the Adjusting Angles vertically to the Brackets with a 1/2 x 1-1/4 Clevis Pin and Hairpin Cotter.
6. Attach the Arm Weldment to the Adjusting Angles with 1/2-13 x 1-3/4 Bolts and Locknuts. Tighten the Locknuts to allow free side to side swinging.
7. Center each Coil Tine Track Remover Assemble behind the Tractor Tires. Tighten the Bracket U-Bolts on the Seeder Frame Tube.
8. On each Coil Tine Track Remover Assembly, attach a Chain End Link to an Adjusting Angle with 3/8 x 1-1/4 Bolt, Flat Washer, Lock Washer, and Nut. Drape the chain across to the adjacent Adjusting Angle and place the Chain in the Adjusting Angle Slot ensure that the chain is supported off the soil surface.

The vertical position can be changed by removing the Clevis Pins and Lock Screws and moving the Adjusting Angles up or down.

To inactivate the Coil Tines, remove the 1/2 x 1-1/4 Clevis Pins and loosen the Lock Screws. Swing the Coil Tine Bar Assembly upward and sideways. Hold Coil Tine Bar Assembly in place by wrapping the Chain under the Round Bar and placing the Chain into the Adjusting Angle Slot. Re-tighten the Lock Screws. Insert Clevis Pin into Adjusting Angle for storage.

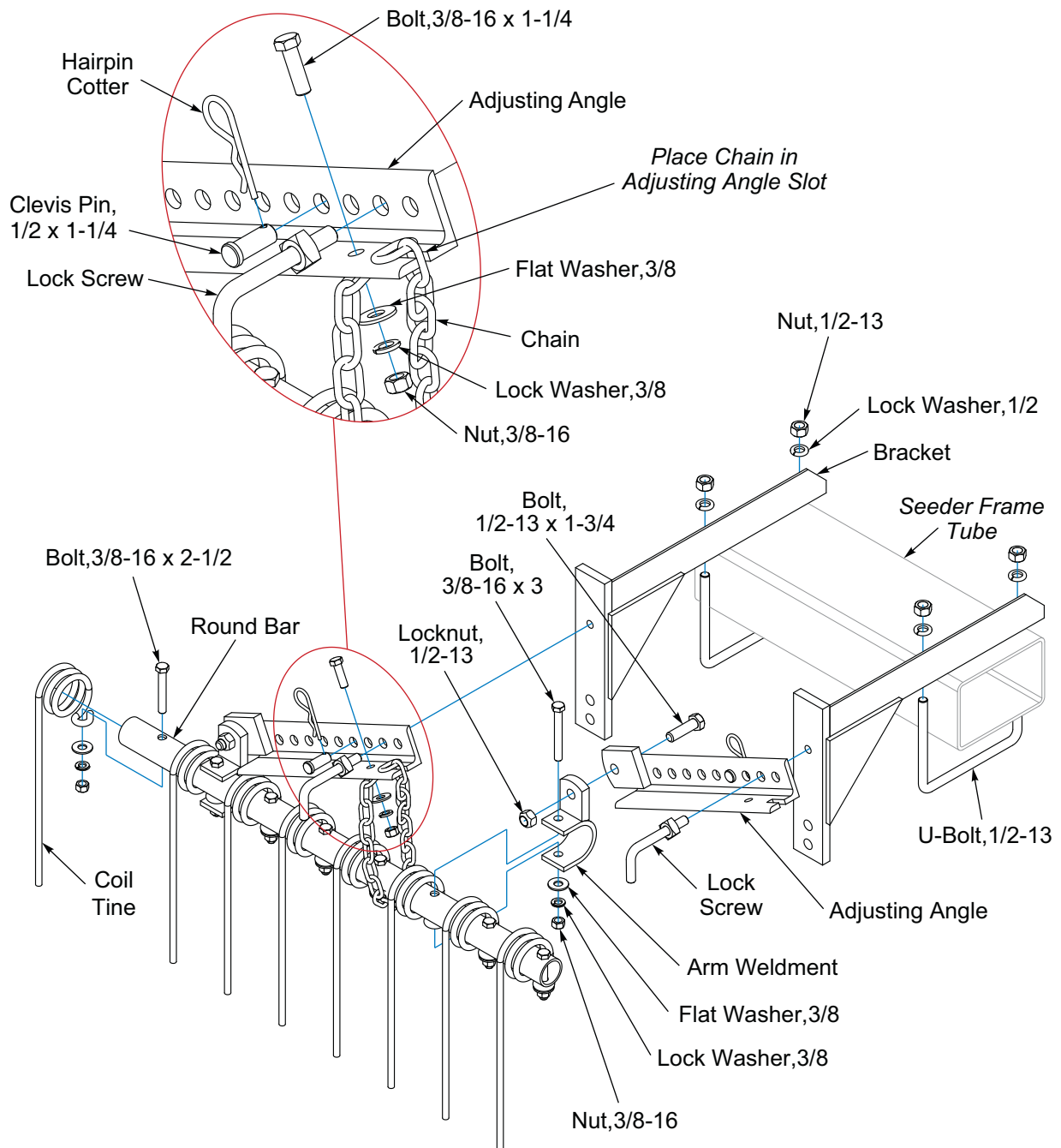


Figure 2-55: Coil Tine Setup

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Table provided for general use.

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Operation

**DANGER**

Never allow anyone to ride on the seeder at any time. Allowing a person to ride on the machine can inflict serious personal injury or death to that person.

**DANGER**

Always lock the tractor drawbar in the center position when transporting the unit. Failure to do so can result in serious injury or death and cause damage to the equipment.

**WARNING**

All hydraulically elevated equipment must have cylinder lockouts installed or be lowered to the ground, when servicing or when equipment is idle. Failure to take preventative measures against accidental lowering can result in serious personal injury.

**DANGER**

When transporting the unit, place cylinder lockouts in the transport lock position after fully extending the cylinders. Insert the lockout pins to secure the cylinder lockouts. Failure to lockout the cylinders can cause the unit to settle during transport, which can result in serious injury or death and cause damage to the equipment.

**CAUTION**

When transporting farm implements on public roads, it is the responsibility of the operator to abide by state and local laws concerning wide loads, speed, safety emblems and safety lighting equipment. Drive at safe speeds, particularly when rounding corners, crossing rough ground or driving on hillsides, to prevent tipping the tractor.

Tractor Preparation

The Sure Stand Seeder is available as a Pull-type or 3-PT mounted version.

- A Pull Type seeder is equipped to be pulled by a tractor with a drawbar, no clevis.
- A 3-PT mounted seeder is compatible with CAT 2 Free Link, CAT 2 Quick Coupler and CAT 3 Narrow Quick Coupler.

Tractor Preparation for Attaching 3-PT Hitch Seeder

1. Brillion 8, 10, and 12 Foot 3-PT Seeders are designed to be pulled with Category 2 Free Link and Category 2 or 3N Quick Hitch Coupler. **See Figure 3-1.** Be sure Tractor's Hitch Capacity is not exceeded by the Laden Mass of the Seeder. **Refer to Tractor Operator's Manual.**
2. Be sure Tractor is properly ballasted. A minimum 25% of Tractor and Equipment Laden Mass must be on Tractor Front Wheels in transport position to maintain stability. Calculate the Loaded Seeder Mass. **See "Specifications" on page 6-1..** (Seeder weight plus the seed box capacity with desired seed.) **Refer to Tractor Operator's Manual.**
3. Check the Tractor tire inflation levels to ensure that they are properly inflated for the additional Laden Seeder Mass. **Refer to the Tractor Operator's Manual.** Be sure not to over ballast and exceed Tractor Tire Capacity.
4. Set Tractor 3-PT Lower Links to allow lateral (torsional) float. **Refer to Tractor Operator's Manual.** If left rigid, your Brillion Seeder may not follow ground contours resulting in poor germination.
5. Set Lift Rod length long enough to ensure Seeder can float downward in the case of a furrow or waterway. Lower Links should be the same height, leveling your Brillion Seeder side to side. Fine adjustments may need to be made after hookup is completed. **Refer to the Tractor Operator's Manual.**
6. Attach Seeder to the Tractor's 3-PT Free Link or Quick Coupler using the appropriate size pins and bushings. Be sure to use the hardware provided and is in good working order. **See Figure 3-1.**
7. **Refer to the Tractor Operator's Manual** for Quick Hitch Operation.



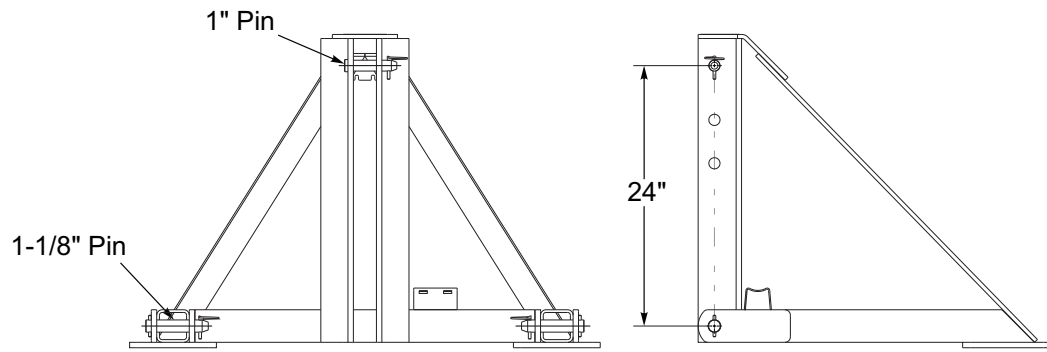
DANGER

Do not allow any bystanders to stand between the tractor and the machine while backing up to the machine.

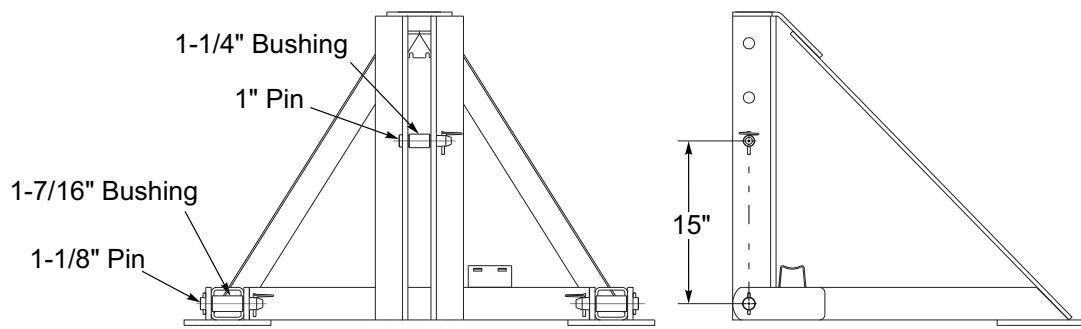
8. Connect 7-Pin Connector to Tractor Outlet, routing cable by avoiding pinch points.
 - Make sure the tractor has a good clean receptacle, free of dirt and corrosion.
 - Make sure the 7-Pin Connector is inserted ALL the way in. With tighter fitting pins, operator may think the connector is all the way in, but really isn't.
 - Make sure the tractor receptacle cover latches over the keyway on the 7-Pin Connector to hold the connector in place.
 - If an operator plugs in the 7-Pin Connector, but the lights do not seem to work right, check the above items to make sure there is a good connection with the 7-Pin Connector.
9. Install Clutch Switch Box or Brillion Elite Mini Monitor to tractor.

Clutch Switch Box: Connect Clutch Switch Box Cord with Ring Terminals to tractor power source. Ring Terminals can be removed and replaced with a different power source connector. Connect 2-Pin Connector to Clutch Harness.

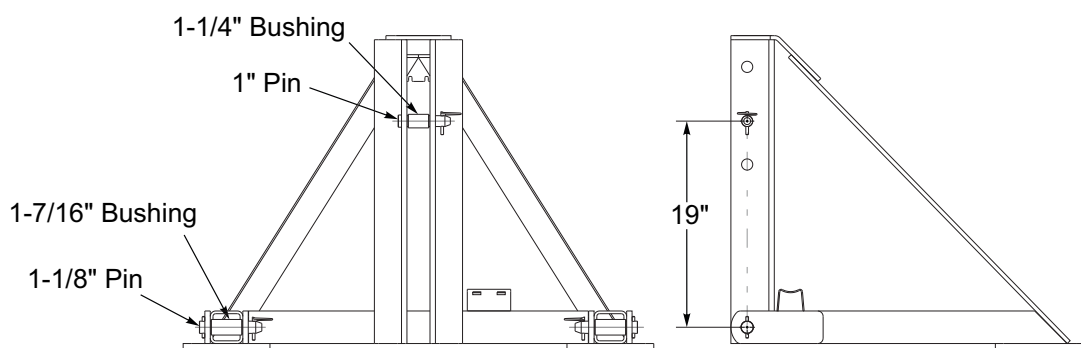
Brillion Elite Mini Monitor: Connect the Elite Mini Tractor Harness to 14-Pin Connector to Brillion Mini Monitor, 3-Pin Plug to the 12 Volt Tractor Convenience Outlet and 6-Pin Connector to 240" Extension Harness. Elite Mini Tractor Harness 4-Pin Connector is not used this time.
10. Raise seeder. Remove Parking Pin. **See Figure 3-3.** Adjust or lock tractor sway stabilizers if equipped, centering the Seeder with the Tractor. **Refer to the Tractor Operator's Manual.**
11. Lower Seeder, if necessary level Seeder side to side (laterally) by adjusting Lift Rod length. Level Seeder front to back by adjusting the Tractor Upper Link length as required. **Refer to the Tractor Operator's Manual.**



CATEGORY 2 FREE LINK



CATEGORY 2 QUICK COUPLER



CATEGORY 3 NARROW QUICK COUPLER

Figure 3-1: 3-PT Hitch

Attaching/Detaching 3-PT Hitch Seeder



WARNING

To prevent the machine from tipping backward on the frame, disengage parking pin only when the seeder is fully attached to the tractor. Be sure to observe the following sequences.

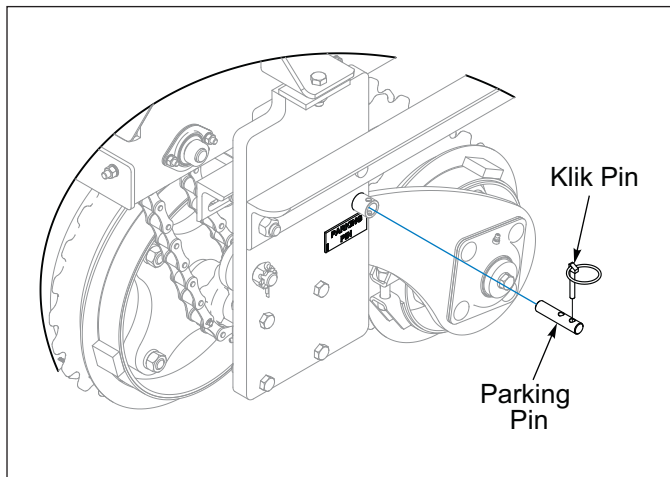


Figure 3-2: Parking Pin

Hooking Up the Seeder:

1. Attach Seeder to the Tractor.
2. Raise Seeder. Remove the Klik Pin, pull the Parking Pin into the outer position, replace the Klik Pin. **See Figures 3-2 and 3-3.**

Unhooking the Seeder:

1. With Seeder raised, remove the Klik Pin, push in the Parking Pin, replace the Klik Pin. **See Figures 3-2 and 3-4.**
2. Lower the Seeder and disconnect the Tractor from Seeder.

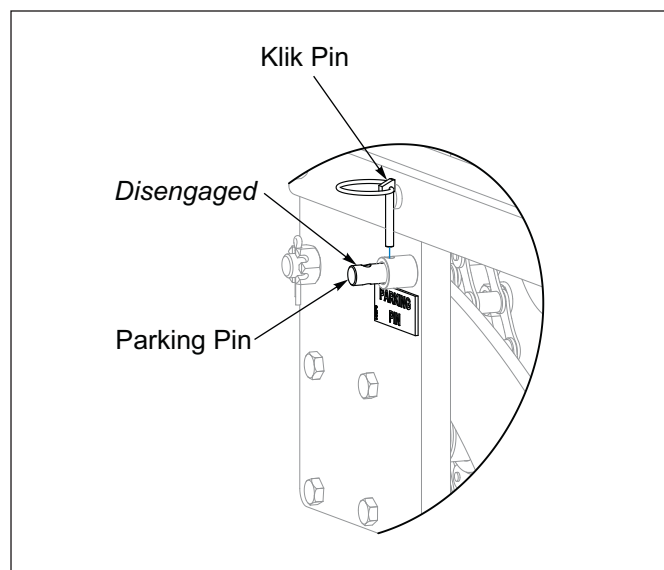


Figure 3-3: Parking Pin Disengaged

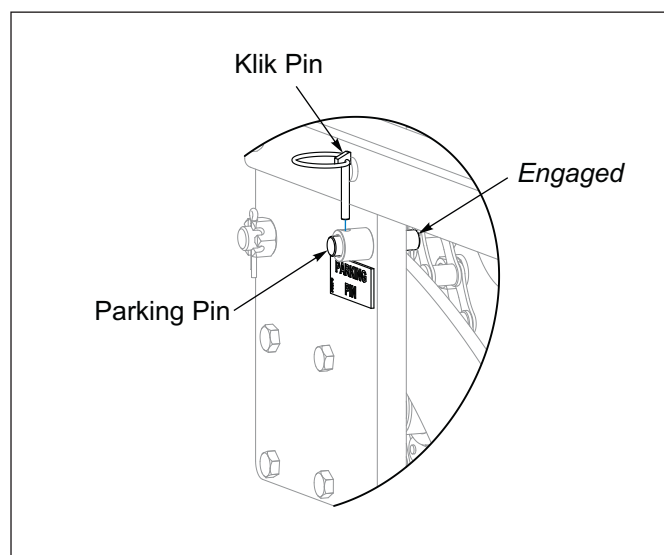


Figure 3-4: Parking Pin Engaged

Tractor Preparation for Attaching Pull Type Seeder



DANGER

Do not allow any bystanders to stand between the tractor and the machine while backing up to the machine.

1. Align the Tractor Drawbar with the machine. Raise or lower the Drawbar, as needed, using the Jack. Attach the unit with proper size Hitch Pin and Safety Clip.
2. Always move the Jack to the transport position before setting the machine in motion.
3. Clean all Hydraulic Couplings and attach to the Tractor.
4. Attach Safety Chain to tractor allowing plenty of movement for turning both directions. The Safety Chain should latch securely to prevent it from coming loose. **See Figure 3-5.**

IMPORTANT

If the Clevis Pin is not installed, the Transport Lock may bounce up and cause significant damage to the Cylinder and Hydraulic Fittings.

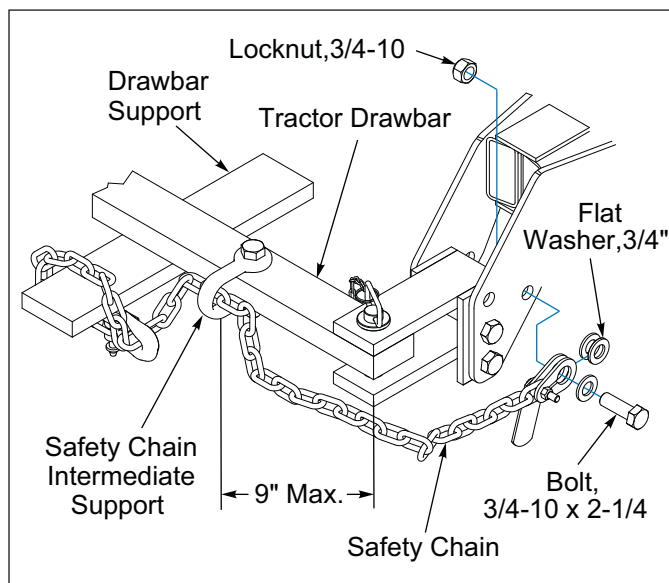


Figure 3-5: Safety Chain

5. If Transport Locks are not engaged, fully extend the Hydraulic Lift Cylinders and rotate Transport Locks in the engaged position over the Cylinder Rods. Secure with the Clevis Pins and Hairpin Cotter. **See Figure 3-6.**

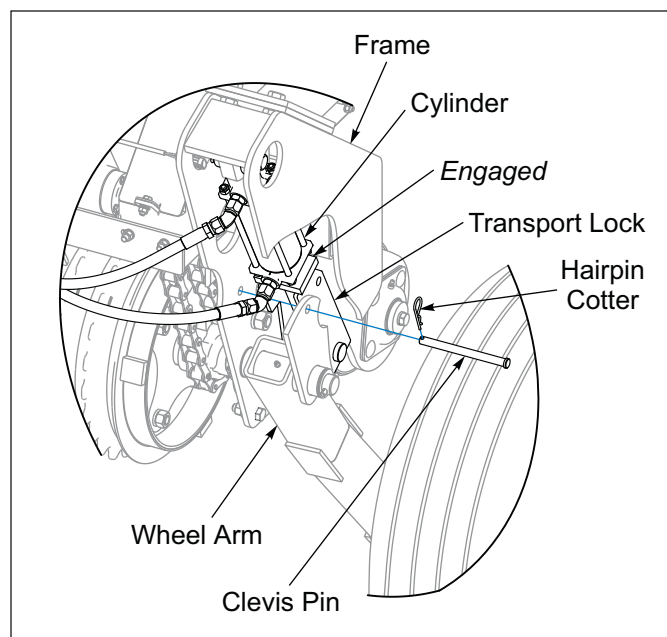


Figure 3-6: Transport Lock Engaged

6. Connect the 7-Pin Connector to Tractor Outlet, routing cable by avoiding pinch points.
 - Make sure the Tractor has a good clean Receptacle, free of dirt and corrosion.
 - Make sure the 7-Pin Connector is inserted ALL the way in. With tighter fitting pins, operator may think the Connector is all the way in, but really isn't.
 - Make sure the Tractor Receptacle Cover latches over the keyway on the 7-Pin Connector to hold the Connector in place.
 - If an operator plugs in the 7-Pin Connector, but the lights do not seem to work right, check the above items to make sure there is a good connection with the 7-Pin Connector.
7. Install Clutch Switch Box or Brillion Elite Mini Monitor to tractor.

Clutch Switch Box: Connect Clutch Switch Box Cord with Ring Terminals to tractor power source. Ring Terminals can be removed and replaced with a different power source connector. Connect 2-Pin Connector to Clutch Harness.

Brillion Elite Mini Monitor: Connect the Elite Mini Tractor Harness to 14-Pin Connector to Brillion Mini Monitor, 3-Pin Plug to the 12 Volt Tractor Convenience Outlet and 6-Pin Connector to 240" Extension Harness. Elite Mini Tractor Harness 4-Pin Connector is not used this time.

Attaching/Detaching Pull Type Seeder

Attaching the Seeder for Field Operations:

Seeder parked lowered

1. Attach Seeder to the Tractor.
2. Raise the Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks in the engaged position over the Cylinder Rod. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-5.**
3. Raise and rotate Drawbar Jack to stored position before setting the machine in motion.
4. Transport the Seeder to the area to be seeded.
5. Disengage each Transport Lock so that the Transport Lock rests on the Wheel Arm. Insert the Clevis Pin in front of the Transport Lock. **See Figure 3-7.**

Seeder parked raised

1. Attach Seeder to the Tractor.
2. Raise and rotate Drawbar Jack to stored position before setting the machine in motion.
3. If not already done, raise Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks in the engaged position over the Cylinder Rod. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-5.**
4. Transport the Seeder to the area to be seeded.
5. Disengage each Transport Lock so that the Transport Lock rests on the Wheel Arm. Insert the Clevis Pin in front of the Transport Lock. **See Figure 3-7.**

Detaching the Seeder:

Parking Seeder lowered

1. Raise the Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks to the stored position. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-7.**
2. Lower Seeder, relieve pressure from Hydraulic Hoses.
3. Rotate and Lower Drawbar Jack.
4. Disconnect the Tractor from Seeder.

Parking Seeder raised

1. Raise the Seeder fully to extend the Hydraulic Lift Cylinders and rotate the Transport Locks to the engaged position. Secure with the Clevis Pins and Hairpin Cotters. **See Figure 3-5.**
2. Relieve pressure from Hydraulic Hoses.
3. Rotate and lower Drawbar Jack.
4. Disconnect the Tractor from Seeder.

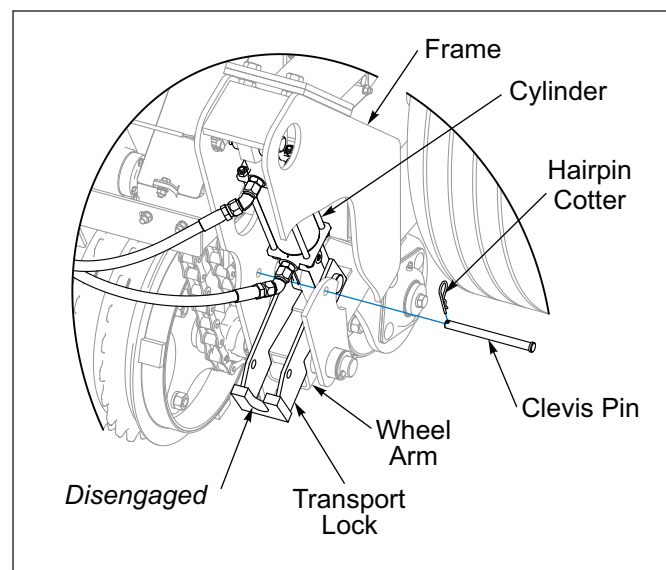


Figure 3-7: Transport Lock Disengaged

General Operation

1. The minimum horsepower requirements are typically 6-8 horsepower per foot. This will vary widely due to speed, moisture, and types of soils. Local dealers can help in making recommendations for your areas. For 3-PT Hitch Models size tractor by 3-PT Hitch Capacity.
2. Operating speed is typically 4-6 mph. Excessive speed can result in undesirable germination, seeder bouncing, or other unpredictable results. Reduce speed in rocky conditions to prevent wheel breakage.

Hydraulic Lift System

The Drawbar Seeder is equipped with a Hydraulic Lift System to raise and lower the unit in the field.



WARNING

Escaping hydraulic fluid can cause serious personal injury. Relieve system pressure before repairing, adjusting, or disconnecting. Wear proper hand and eye protection when searching for leaks. Use cardboard instead of hands (See Figure 3-8.) Keep all components (cylinders, hoses, fittings, etc.) in good repair.

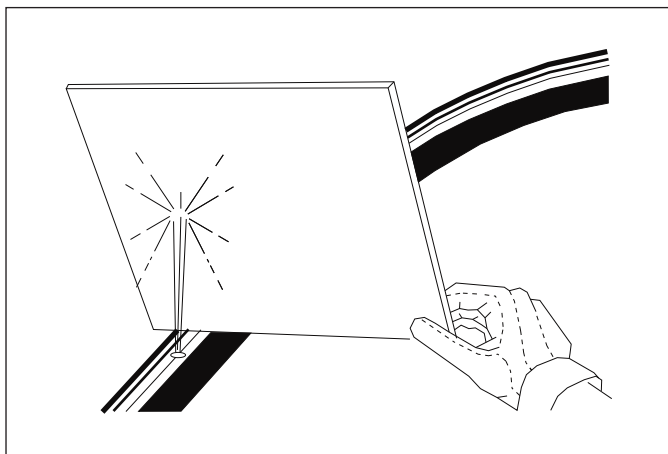


Figure 3-8: Hydraulic Leak Detection

If the Hydraulic System is not filled with oil it should be purged of air before transporting and field operations.

1. Carefully hitch the Seeder to the Tractor and connect the Hydraulic Lift Hoses.
2. Check to make sure the Tractor Hydraulic Reservoir is full of the manufacturer's recommended oil.
3. If the Transport Locks are engaged, raise the Seeder and disengage the Transport Locks. **See Figure 3-7.**
4. Slowly raise the machine until both Lift Cylinders are fully extended. Lower and raise the Seeder to verify that both Cylinders are working throughout the stroke. Fully extend the Lift Cylinders and continue to hold the lever until both Cylinder Rods movement stops. Raise/Lower machine 5 times to purge air from the system.
5. Do not loosen any Hoses or Fittings.
6. Recheck Tractor Reservoir to make sure it is within operating limits.
7. Raise the Seeder completely and install Transport Locks. **See Figure 3-6.**

Lift Circuit approximate oil requirement: .4 gallons.

Transmission Electric Clutch

IMPORTANT

At no time use high pressure water or air to clean the Electric Clutch as damage could occur.

Clutch characteristics are as follows:

- The Electric Clutch is controlled by a Touch Screen Monitor or a Toggle Switch on the Switch Box mounted to the Tractor.

Brillion Elite Mini Monitor: Touch Screen Monitor provides the user the ability to turn the Seeder Clutch "ON" or "OFF".

Clutch Switch Box: Toggle Switch on the Switch Box, turns the Seeder Clutch to "SEED" or "NO SEED".

Console w/Clutch Control: Toggle Switch on the Console, turns the Seeder Clutch to "SEED" or "NO SEED".
- The Electric Clutch is disengaged when power (12 Volts) is applied. If there is a power failure or electrical problem, the Seeder will continue to operate, so the machine must be raised to stop seeding.
- Seed Shafts will not rotate when the machine is backed up.
- The Clutch Switch Box contains a 5 Amp Time-Delay Fuse.
- The Electric Clutch must be disengaged (power applied) when Seed Shafts are turned manually for Calibration.
- Check Electric Clutch Operation. The Electric Clutch will disengage when power is applied. (Clutch will make a clicking sound). Set Seeder on the ground and drive a short distance while toggling the Seeder Clutch to "ON/SEED" and "OFF/NO SEED". The Seed Shaft will stop rotating when Monitor or Toggle Switch is set to "OFF/NO SEED".
- Set Monitor or Toggle Switch to "ON/SEED" position when Seeder is not used to shut off power to prevent possible overheating of Clutch Coil.

Brillion Elite Mini Monitor

Brillion Elite Mini Monitor provides information to the operator and acts as an interface for clutch control. The display shows seed shaft rotation, low bin levels, acres seeded, and clutch engagement. The touch screen allows the operator to engage the clutch.

See "**Brillion Elite Mini Monitor**" Chapter for more information and a detailed guide to the use of your monitor.

The Brillion Elite Mini Monitor System by Loup utilizes a MUX communication line. Sensors must be learned into the Monitor. Location of each pre-learned Smart Shaft Sensor or Bin Level Sensor is important for proper Monitor display. Each Sensor utilizes 3 wires (+, -, MuxBus) to connect to the system. The Sensors do not require specific Harness connection points. Each Sensor is identified in the Monitor by its own signal.



WARNING

High Power Magnet in use. See "High Power Magnet" on Page 1-2.

- Bin Level Sensors are installed on adjustable brackets in the outer ends of the Seed Box. When the sensor is submerged in seed, no alarm will sound. As the seed level falls below the sensor eye, an alarm will be indicated on the Brillion Elite Mini Monitor. Raise or lower the Bin Level Sensor Bracket inside the Seed Box to the desired seed level.
- On the Seeder RH front Seed Shaft is a Smart Shaft Sensor. The Smart Shaft Sensor is installed on a Sensor Mount that is attached to the mounting Hardware of two seed cups. The High Powered Magnet is placed on the Seed Shaft and kept in place with a collar. As the Seed Shaft rotates the Smart Shaft Sensor detects the Magnet. When no signal is detected for pre-defined seconds, an alarm will be indicated on the Brillion Elite Mini Monitor.

NOTE

If the Smart Shaft Sensor stall alarm occurs, be aware that the Seeder has not been planting for the pre-defined time.

- Brillion Elite Mini Monitor provides users the ability to toggle the seeder clutch on or off.
- Brillion Elite Mini Monitor will monitor field and total acres.
- Brillion Elite Mini Monitor is operated on a 12-Volt DC negative ground system. The monitor should be connected using the existing convenience plug connection.

- The Elite Mini Tractor Harness attaches to the Brillion Elite Mini Monitor and connects to the Seeder 240" Extension Harness. **See Figure 2-33.** The 6-Pin Connection may be plugged/unplugged at the front of the Seeder Hitch when hooking/unhooking the Seeder. This allows the monitor to stay in the tractor if so desired.
- A 4-Pin radar connection is provided as an optional connection for the speed sensor. The speed signal may be determined by either the tractor radar or the speed sensor located on the Seeder.

For service or setup questions contact Loup Electronics Inc. See "Service And Technical Support" on Page 4-7.

Console w/Clutch Control - Optional

Basic Operation:

During normal operation the Console LED for the Seed Shaft will not be illuminated. The Shaft Sensor will be activated by a Magnet Wheel installed on the Seed Shaft being monitored. The Shaft Sensor is a standard Loup Shaft Sensor, set to 20 second delay timing. When no signal is detected for 20 seconds by the sensor, the corresponding LED in the Console will illuminate and the audible alarm will sound indicating a fault. The alarm will become silent after 30 seconds and will not sound again until the Seed Shaft returns to a fully functional condition.

NOTE

If the Shaft Sensor stall alarm occurs, be aware that the Seeder has not been planting for 20 seconds.

- The Clutch Master toggle switch allows you to go from "SEED" to "NO SEED" operations. **See Figure 3-9.**

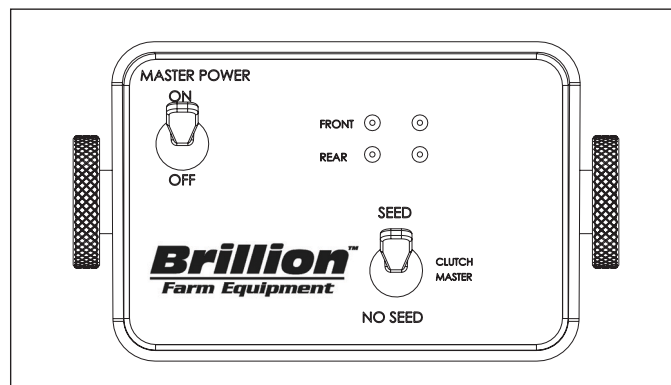


Figure 3-9: Console w/Clutch Control

Seed Box Seed Rate Adjustment



WARNING

- To prevent damage to seed meters, do not apply excessive force to adjusting nuts. This is especially important when closing meters as seed in flutes can be pinched between cut-off and washer in seed cup.
- Do not close the meters more than 1/8" when there is seed in the meters without rotating the seed shaft to prevent damage to the rotating washers and retainer rings in the seed meters.
- Do not attempt to open the meters more than 1". (Feed rolls could become disengaged from washer in the seed cup.)

NOTE

To avoid Seed Meter damage, if there is seed in the Meters, decrease rate in small increments. Decrease rate no more than one nut revolution and rotate Seed Shaft to purge seed from Meters. Continue adjustment as needed.

NOTE

Before filling with seed be sure Seed Shaft turns freely and Seed Meters are free of any foreign matter. Wrenches for adjustment are stored on a Pin at the back of the Transmission. See Figure 3-10.

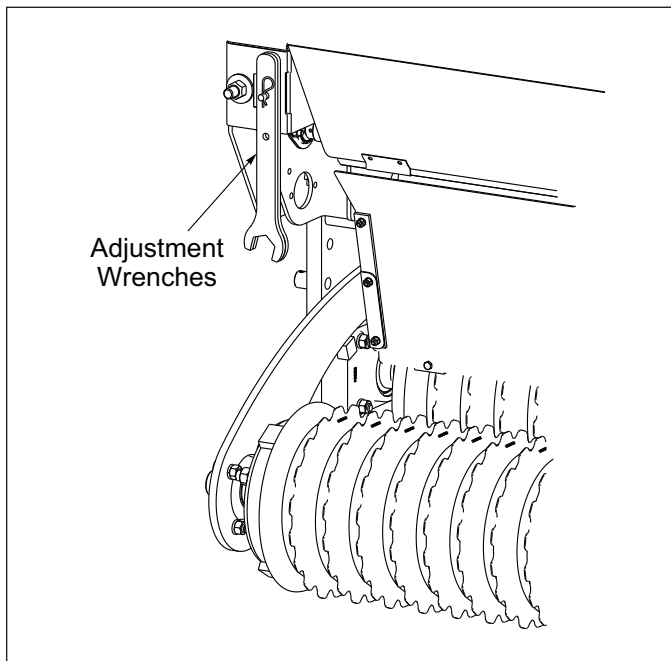


Figure 3-10: Adjustment Wrenches

IMPORTANT

The Clutch must be disengaged when Seed Shafts are turned manually for Calibration.

Seed Rate Charts specific to Seeder Model are located inside the Seed Box Cover and in this manual. See Table 3-1, Table 3-2 and Table 3-3. It should be used as a general guide only. Based upon your Seeder Model.

Because of seed variation, a more accurate rate can be determined by turning the 15/16" Hex Nut on the Transmission to calibrate the Seeder. See "Electronic Acre Meter Kit - Optional" on page 3-15.

On the right side, the Seed Rate for the Seed Meters can be set by adjusting the Seed Rate Adjusting Nut and Adjusting Screw. See Figure 3-11.

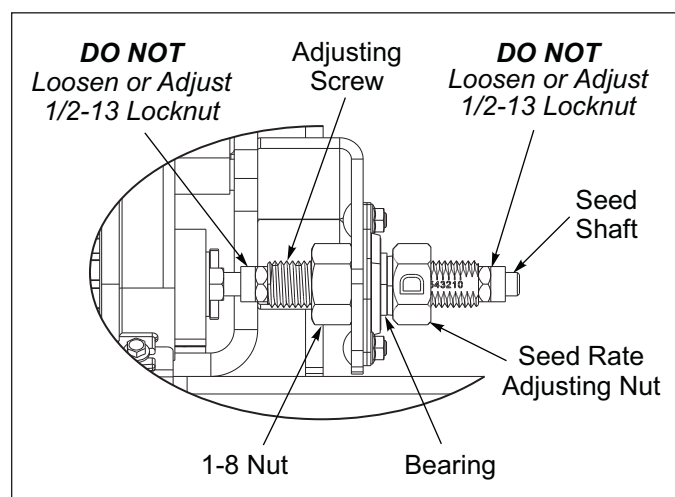


Figure 3-11: Seed Box Seed Rate Adjustment

IMPORTANT

Do Not Loosen or Adjust the 1/2-13 Locknut. See Figure 3-11.

1. To **increase** the rate of seeding, loosen the 1-8 Nut and Seed Rate Adjusting Nut with supplied wrenches. Back the 1-8 Nut away from the Bearing. Set the Seed Rate Adjusting Nut appropriate letter with the Adjusting Screw corresponding number for the desired Seed Rate. Tighten the 1-8 Nut up to the Bearing.
2. To **decrease** the rate of seeding, loosen the 1-8 Nut and Seed Rate Adjusting Nut with supplied wrenches. Set the Seed Adjusting Nut appropriate letter with the Adjusting Screw corresponding number for the desired Seed Rate. Tighten the 1-8 Nut up to the Bearing.

Seed Meters discharge to the front of the machine to aid the operator in determining proper operation. In addition, reflective amber decals are placed on the seed shaft to indicate rotation.

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Table 3-1: Seed Rate - 8FT Seed Box

INDICATOR SETTING	1A	2A	3A	4A	5A	6A	7A	8A
ALFALFA (UNCOATED)	3	8	14	20	25	31	37	42
BAHIA	2	6	11	15	20	25	29	32
BERMUDA (HULLED)	3	8	14	22	26	32	37	42
BIRDSFOOT TREFOIL (BROADLEAF)	3	9	15	22	32	39	48	56
BLUEGRASS (KENTUCKY)	2	3	5	8	9	12	14	15
BLUE GRASS (PARK KENTUCKY)	2	5	8	12	15	20	23	26
BLUE GRASS (SHERMAN BIG)	1	2	5	6	8	9	11	12
CANOLA	2	8	12	19	23	28	32	39
CENTIPEDE	3	8	9	14	19	22	25	28
CLOVER,(ALSIKE, LADINO, SWEET, RED)	3	9	14	20	26	32	37	43
CLOVER, ALYCE, CALIFORNIA BUR, CRIMSON, HUMBAM	3	8	12	19	21	26	37	46
CRESTED WHEAT	1	2	3	5	6	8	9	11
CROWN VETCH	3	11	17	23	31	37	45	53
FLAX	3	8	12	15	20	25	29	32
HARDING GRASS	2	6	9	14	17	22	25	28
KLEIN GRASS	3	8	15	20	28	36	43	48
LESPEDEZA (KOREAN UNHULLED)	2	6	11	15	22	26	32	37
LESPEDEZA (KOREAN HULLED)	3	8	14	20	25	32	39	43
LESPEDEZA (SERICEA UNHULLED)	2	5	8	12	17	20	23	26
LESPEDEZA (SERICEA HULLED)	3	9	15	23	29	37	45	50
LOVE GRASS (WEEPING)	2	9	15	20	26	34	40	48
LOVE GRASS (SAND)	3	8	12	17	23	29	36	42
MILLET	3	9	15	22	28	34	40	48
RED TOP	2	3	6	8	9	11	12	14
REED CANARY GRASS	2	3	6	9	11	14	15	20
SWITCH GRASS (CLEANED AND HULLED)	1	3	6	8	11	14	17	20
TILLAGE RADISH	3*	10	16	22	28	35	41	48
TIMOTHY	3	6	11	17	22	28	34	39

Not recommended: Lentils, Surgeon, Sudan grass.

*Will Crack Some Seeds at These Settings

NOTE

Brillion assumes no liability pertaining to seeding rates achieved with this seeder. Rates listed are general in nature and should be used as starting points only. Seed varieties and blends listed represent those calibrated through in-house test meters. Variations in actual rates may be realized due to differences in seed lots. For accurate rates with seeds being used, follow the calibration instructions listed on the seed chart inside the box cover or refer to the Operator's Manual. *The information listed in the above seed charts is subject to change without notice.*

Table 3-2: Seed Rate - 10FT Seed Box

INDICATOR SETTING	1A	2A	3A	4A	5A	6A	7A	8A
ALFALFA (UNCOATED)	3	8	14	20	25	31	37	42
BAHIA	2	6	11	15	20	25	29	32
BERMUDA (HULLED)	3	8	14	22	26	32	37	42
BIRDSFOOT TREFOIL (BROADLEAF)	3	9	15	22	32	39	48	56
BLUEGRASS (KENTUCKY)	2	3	5	8	9	12	14	15
BLUE GRASS (PARK KENTUCKY)	2	5	8	12	15	20	23	26
BLUE GRASS (SHERMAN BIG)	1	2	5	6	8	9	11	12
CANOLA	2	8	12	19	23	28	32	39
CENTIPEDE	3	8	9	14	19	22	25	28
CLOVER,(ALSIKE, LADINO, SWEET, RED)	3	9	14	20	26	32	37	43
CLOVER, ALYCE, CALIFORNIA BUR, CRIMSON, HUMBAM	3	8	12	19	21	26	37	46
CRESTED WHEAT	1	2	3	5	6	8	9	11
CROWN VETCH	3	11	17	23	31	37	45	53
FLAX	3	8	12	15	20	25	29	32
HARDING GRASS	2	6	9	14	17	22	25	28
KLEIN GRASS	3	8	15	20	28	36	43	48
LESPEDEZA (KOREAN UNHULLED)	2	6	11	15	22	26	32	37
LESPEDEZA (KOREAN HULLED)	3	8	14	20	25	32	39	43
LESPEDEZA (SERICEA UNHULLED)	2	5	8	12	17	20	23	26
LESPEDEZA (SERICEA HULLED)	3	9	15	23	29	37	45	50
LOVE GRASS (WEEPING)	2	9	15	20	26	34	40	48
LOVE GRASS (SAND)	3	8	12	17	23	29	36	42
MILLET	3	9	15	22	28	34	40	48
RED TOP	2	3	6	8	9	11	12	14
REED CANARY GRASS	2	3	6	9	11	14	15	20
SWITCH GRASS (CLEANED AND HULLED)	1	3	6	8	11	14	17	20
TILLAGE RADISH	3*	10	16	22	29	35	42	49
TIMOTHY	3	6	11	17	22	28	34	39

Not recommended: Lentils, Surgeon, Sudan grass.

*Will Crack Some Seeds at These Settings

NOTE

Brillion assumes no liability pertaining to seeding rates achieved with this seeder. Rates listed are general in nature and should be used as starting points only. Seed varieties and blends listed represent those calibrated through in-house test meters. Variations in actual rates may be realized due to differences in seed lots. For accurate rates with seeds being used, follow the calibration instructions listed on the seed chart inside the box cover or refer to the Operator's Manual. *The information listed in the above seed charts is subject to change without notice.*

Table 3-3: Seed Rate - 12FT Seed Box

INDICATOR SETTING	1A	2A	3A	4A	5A	6A	7A	8A
ALFALFA (UNCOATED)	4	8	16	23	28	35	41	47
BAHIA	1	7	12	17	23	28	32	36
BERMUDA (HULLED)	4	8	16	24	29	36	41	48
BIRDSFOOT TREFOIL (BROADLEAF)	4	11	17	24	36	43	53	61
BLUEGRASS (KENTUCKY)	1	4	5	8	11	13	16	17
BLUE GRASS (PARK KENTUCKY)	1	5	8	13	17	23	25	29
BLUE GRASS (SHERMAN BIG)	1	1	5	7	8	11	12	13
CANOLA	1	8	13	20	25	31	36	43
CENTIPEDE	4	8	11	16	20	24	28	31
CLOVER,(ALSIKE, LADINO, SWEET, RED)	4	11	16	23	29	36	41	48
CLOVER, ALYCE, CALIFORNIA BUR, CRIMSON, HUMBAM	4	8	13	20	29	33	41	51
CRESTED WHEAT	1	1	4	5	7	8	11	12
CROWN VETCH	4	12	19	25	35	41	49	59
FLAX	4	8	13	15	23	28	32	36
HARDING GRASS	1	7	11	16	19	24	28	31
KLEIN GRASS	4	8	17	23	31	39	48	53
LESPEDeza (KOREAN UNHULLED)	1	7	12	17	24	29	36	41
LESPEDeza (KOREAN HULLED)	4	8	16	23	28	36	43	48
LESPEDeza (SERICEA UNHULLED)	1	5	8	13	19	23	25	29
LESPEDeza (SERICEA HULLED)	4	11	17	25	32	41	49	55
LOVE GRASS (WEEPING)	1	11	17	23	29	37	44	53
LOVE GRASS (SAND)	4	8	13	19	25	32	39	47
MILLET	4	11	17	24	31	37	44	53
RED TOP	1	4	7	8	11	12	13	16
REED CANARY GRASS	1	4	7	11	12	16	17	23
SWITCH GRASS (CLEANED AND HULLED)	1	4	7	8	12	16	17	23
TILLAGE RADISH	3*	10	16	23	29	36	42	49
TIMOTHY	4	7	12	19	24	31	37	43

Not recommended: Lentils, Surgeon, Sudan grass.

*Will Crack Some Seeds at These Settings

NOTE

Brillion assumes no liability pertaining to seeding rates achieved with this seeder. Rates listed are general in nature and should be used as starting points only. Seed varieties and blends listed represent those calibrated through in-house test meters. Variations in actual rates may be realized due to differences in seed lots. For accurate rates with seeds being used, follow the calibration instructions listed on the seed chart inside the box cover or refer to the Operator's Manual. *The information listed in the above seed charts is subject to change without notice.*

Calibration for Unlisted Seeds

IMPORTANT

The Clutch must be disengaged when Seed Shafts are turned manually for Calibration. Electrical Power is required to disengage the Clutch.

Brillion/Landoll assumes no liability pertaining to Seeding Rates achieved with this Seeder. Rates listed are general in nature and should be used as starting points only. Seed varieties and blends listed represent those calibrated through in-house test meters.

Variations in actual rates may be realized due to differences in Seed Lots. **For accurate rates with seeds being used, follow the Calibration Instructions listed on the Seed Chart inside the Seed Box Cover.**

NOTE

The information listed in the Seed Charts is subject to change without notice.

IMPORTANT

Rates are for 11 Tooth Driver. Double these values for the 22 Tooth Driver. See Table 3-1, Table 3-2 and Table 3-3.

1. Disengage Electrical Clutch. Electrical Power is required to disengage the Clutch.
2. Raise Seeder and install Transport Locks. **See Figure 3-6.**
3. Place a Canvas or Tarp under the Machine to catch Seed.
4. Turn 15/16 Hex on Transmission Shaft Clockwise(CW). **See Figure 3-12.**
8FT Seeder: Use 42 turns if you follow Step 5. *Reference, the Seed Shaft rotates 211 Revolutions per Acre Seeded with 11 Tooth Driver.*
10FT Seeder: Use 34 turns if you follow Step 5. *Reference, the Seed Shaft rotates 169 Revolutions per Acre Seeded with 11 Tooth Driver.*
12FT Seeder: Use 28 turns if you follow Step 5. *Reference, the Seed Shaft rotates 141 Revolutions per Acre Seeded with 11 Tooth Driver.*
5. Weigh Seed (lbs) and Multiply by 5 (10 for 26 Tooth Driver) for approximate Planting Rate in Pounds per Acre.

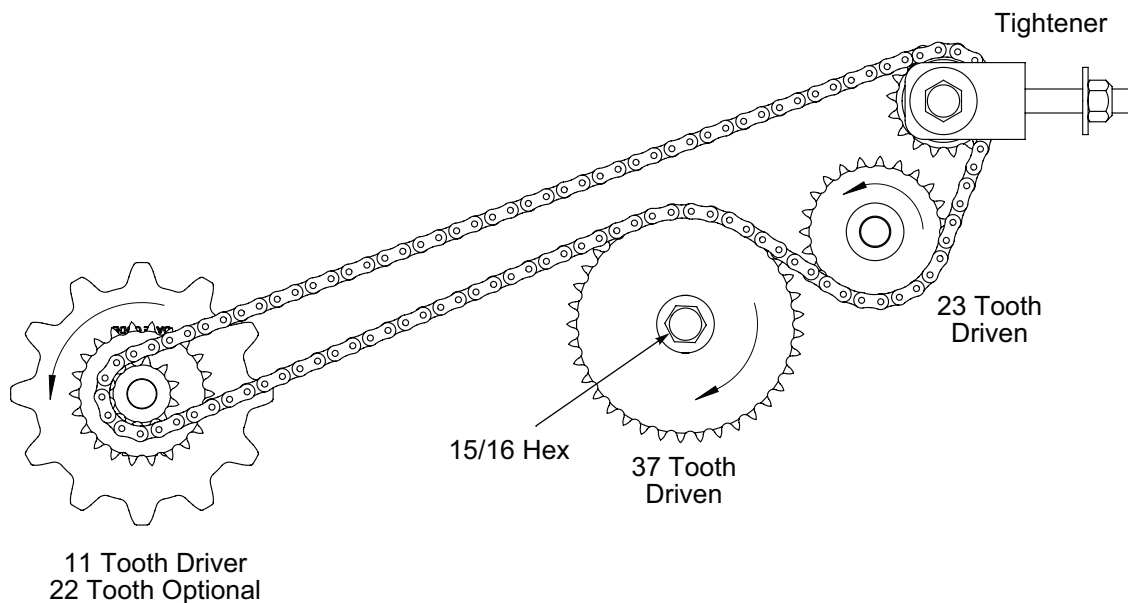


Figure 3-12: Transmission Drive

Speed-Up Kit - Optional

Seed Rate shown on Seed Rate Charts can be doubled by using the 22 Tooth Sprocket provided in the Transmission. **See Figure 3-13.**

1. Loosen Drive Chain.
2. Open Drive Chain at Connector Link.
3. Remove Roll Pin in the 11-22 Tooth Sprocket.
4. Move the 11-22 Sprocket to new position and replace Roll Pin.
5. Add 4 Pitch Roller Chain with Connector Link to Drive Chain. If required, Offset Connector Link can be ordered separately. See Parts Manual 9K997.
6. Adjust Chain Tension. **See Figure 5-7.**

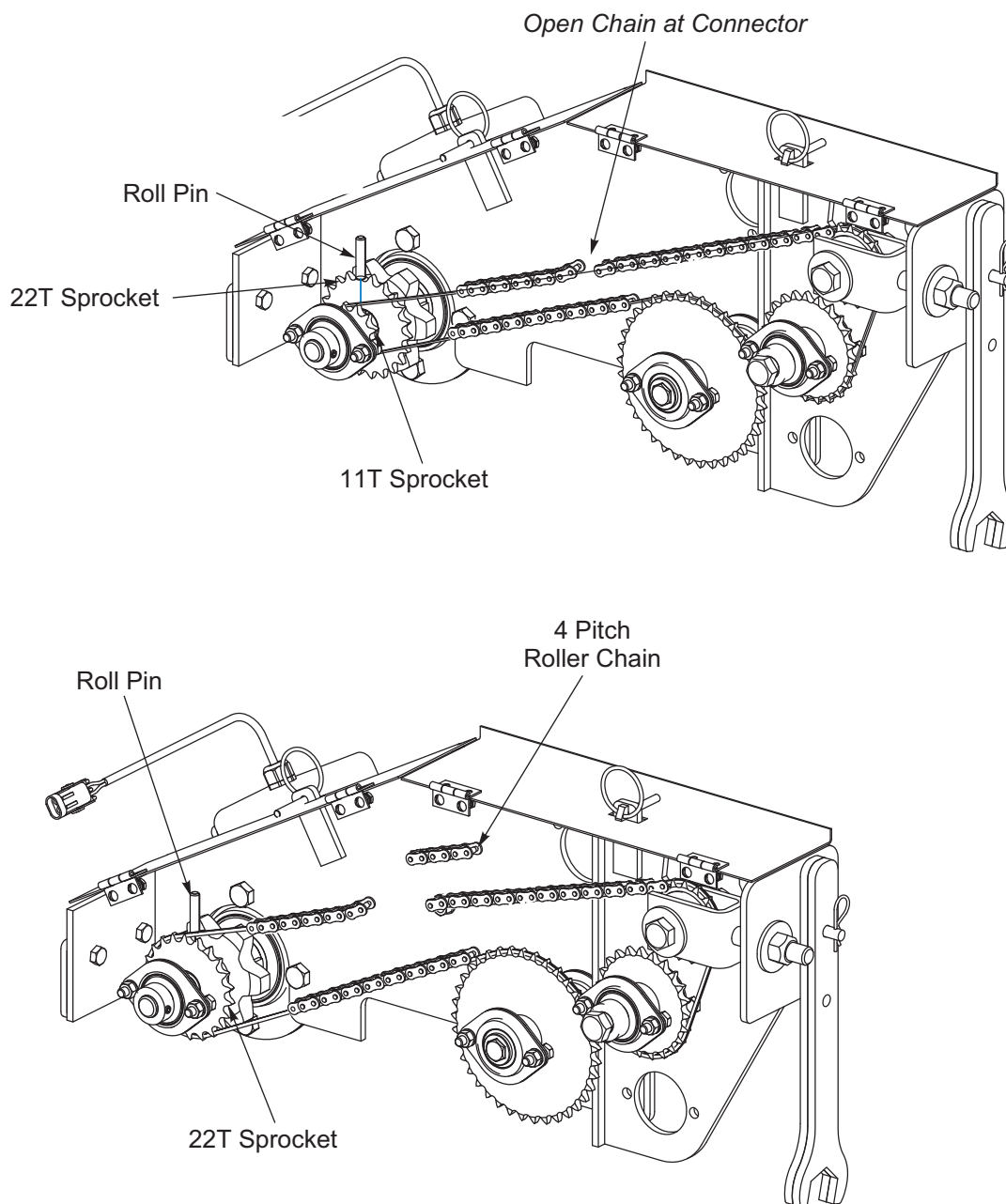


Figure 3-13: Speed-Up Kit Setup

Electronic Acre Meter Kit - Optional

IMPORTANT

Acre Meter is dust and splash resistant, under no circumstances should this unit be submerged in any conductive, corrosive, or flammable liquid. At no time use high pressure water or air to clean it, as this can damage the unit.

Loup Acre Meter (After 06/01/2025)

Settings

The battery operated acre counter operates in one of two modes. In sleep mode, the display is blank, and the counter is accumulating acres. Sleep mode will be entered if a button is not pressed for 20 seconds. In entry mode, the display is on, and the operator can enter values. To get into entry mode, press the ***/FUNC** button. If you continue to press the ***/FUNC** button, the acre counter will cycle through the functions that it can perform. The screen above will display which of the 6 pages is selected.

The available functions are: Field Acres, Total Acres, Pulses per 400 ft, Width/Section, Password, US/EU Units and Background Color. **See Figure 3-14.**

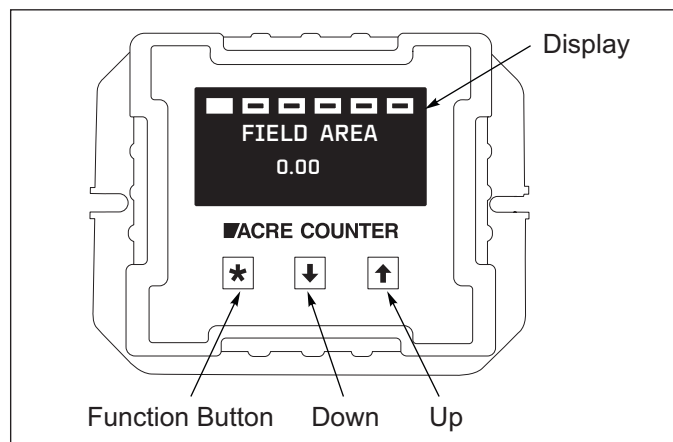


Figure 3-14: Acre Meter - 4 Channel (After 06/2025)

Field Acres

Press the ***/FUNC** button until the **FIELD AREA** screen is selected. The digits indicate the acres covered since the field acre counter was cleared.

To clear the field acre count, press the **UP** and **DOWN** buttons simultaneously for two seconds. If a password has been entered, you will not be able to clear the total acre count. Field acres will count in tenths of an acre up to 9999.9 acres. It will then count in whole acres to 99,999.

Total Acres

Press the ***/FUNC** button until **FIELD AREA** is displayed. The digits indicate the acres covered since the total acre counter was cleared.

To clear the total acre count, press and hold the **UP** and **DOWN** buttons for two seconds. If a password has been entered, you will not be able to clear the total acre count. Total acres will count from .1 to 9,999.9 acres. It will then count in whole acres to 99,999.

Pulses Per 400 Feet

Press the ***/FUNC** button until the **PULSES** screen is displayed. The number in the display indicates how many pulses are generated for every 400 feet driven. There are two methods to enter the pulses per 400 feet:

If you know the number, select it using the **UP** and **DOWN** buttons. When you press the ***/FUNC** button, the Acre Counter will accept the number in the display as the new pulses per 400 feet. **See Table 3-4.**

If you do not know the pulses per 400 feet, press and hold the **UP** and **DOWN** buttons, the LCD will display pulses calibration and 0. The acre counter is now counting shaft rotations. Enter the cab and drive 400 feet. Press the ***/FUNC** button to wake up the acre counter. The **PULSES** screen will again blink. The number displayed is the pulses per 400 feet. Press the ***/FUNC** button to accept the setting. The **PULSES** screen will stop blinking and remain on.

If a password is set, you will not be able to adjust the pulses.

Width/Sect

The Acre Meter is capable of monitoring up to 4 sections at a time and will allow the operator to turn off different sections and still maintain an accurate acre count. Section 1 (**S1**) should be used in monitoring the total width of the seeder at all times, this will be the most common configuration. If **S2**, **S3**, and/or **S4** are to be used, an extra Pick-Up Switch, Magnet Wheel and extension are needed for each section.

Press the ***/FUNC** button until the **WIDTH/SECT** screen is displayed. The number displayed is the length of your implement in inches. To adjust the width, press the **UP** and **DOWN** buttons. If a password has been entered, you will not be able to adjust the width. The length can be adjusted from .1 to 999 inches.

Examples: A 30' seeder using 1 section = 360 for S1
A 30' seeder using 3 sections = 120 for S1, S2, and S3.
Three Acre Meter Pick-Up Switches, Magnet Wheels and extensions will be needed.

Password

The password function allows you to protect the total acre count, pulses per 400 feet, and width settings with a password. This stops anyone from accidentally changing those settings. When the acre counter is shipped, the password is disabled. You can modify the pulses per 400 feet and implement width at any time.

Press the ***/FUNC** button until the **PASSWORD** screen is displayed. The digits will display **Password ENTER**, **Password OFF**, or **Password SET**.

If the display shows "OFF": The password is disabled. The total acre count, pulses/400 ft, width, and password settings can be adjusted using the **UP** and **DOWN** buttons. The password can also be changed using the **UP** and **DOWN** buttons. Press the ***/FUNC** to set.

If the display shows "ENTER": You must enter your password using the **UP** and **DOWN** buttons. When your password is displayed, press the ***/FUNC** button to test the password. If the password is correct, you will be able to change the acre counter settings. The password will be viewable until the acre counter powers down. When the acre counter is powered up again, you will have to re-enter the password to change settings.

If the password is not correct, you will not be able to change the acre counter settings. When the **PASSWORD** function is selected again, **ENTER** will appear in the display.

Changing The Password

You must first enter the current password then press ***/FUNC**. Then press the ***/FUNC** button to come back to the Password display. You can now select a new password using the **UP** and **DOWN** buttons. Press the ***/FUNC** button until the word **SET** appears in the display. Release the ***/FUNC** button. The number in the display is your new pass code. Make sure you record this number. Press and hold the ***/FUNC** button until the word **SET** appears in the display.

If the password is forgotten, it can be disabled by removing the batteries. The password is intended for rental units. It is recommended that a seal be affixed to the rear plate of the acre counter to determine if the settings have been tampered with.

Metric Units Area Accumulation

The meter can be set to accumulate are in US or Metric Units by pressing **UP** or **DOWN** buttons to make the selection, then press ***/FUNC**.

Battery Replacement

The battery operated acre counter uses 3 AA batteries. A low battery message will show on screen before going into sleep mode if the voltage is low and the batteries need to be replaced. Remove the acre counter from the implement and undo the 4 screws on the back of the case. Replace the batteries with 3 high quality AA alkaline batteries. **See Figure 3-15.**

See "Acre Meter Troubleshooting" on Page 4-12.

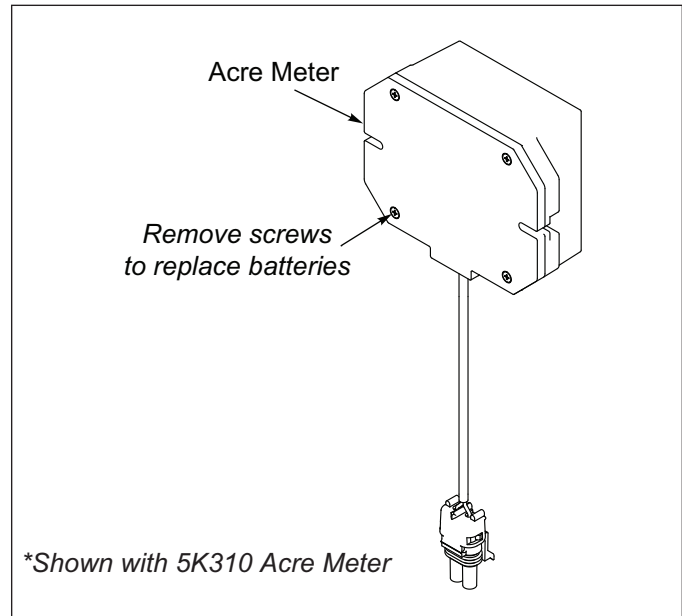


Figure 3-15: Battery Replacement

Loup Acre Meter (05/15/2012 TO 06/01/2025)

Settings

The battery operated Acre Meter operates in one of two modes.

1. In sleep mode, the display is blank and the counter is accumulating acres. Sleep mode will be entered if a button is not pressed for 20 seconds.
2. In entry mode, the display is on, and the operator can enter values. To get into entry mode, press the ***/FUNC** button. If you continue to press the ***/FUNC** button, the acre counter will cycle through the functions that it can perform. The LEDs above the display indicate which function is selected.

The available functions are: Field Acres, Total Acres, Pulses per 400 feet, Width, Password and Low Battery. See **Figure 3-16**.

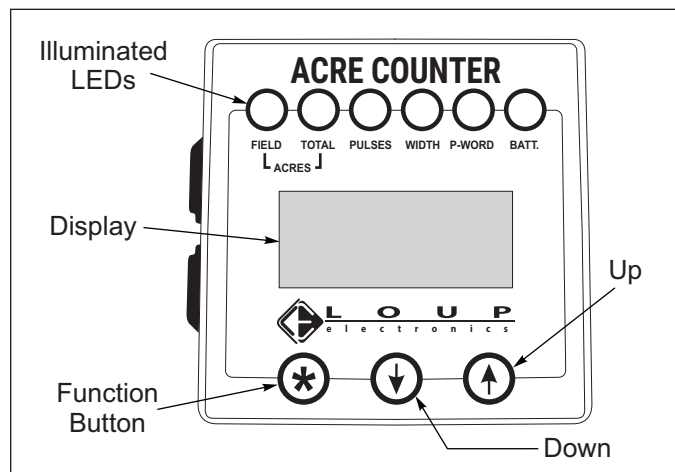


Figure 3-16: Acre Meter (05/2012 TO 06/2025)

Field Acres

Press the ***/FUNC** button until the **FIELD** LED is lit. The digits indicate the acres covered since the field acre counter was cleared.

To clear the field acre count, press the **UP** and **DOWN** buttons simultaneously for two seconds. If a password has been entered, you will not be able to clear the total acre count. Field acres will count in tenths of an acre up to 9999.9 acres.

Total Acres

Press the ***/FUNC** button until the **TOTAL** LED is lit. The digits indicate the acres covered since the total acre counter was cleared.

To clear the total acre count, press and hold the **UP** and **DOWN** buttons for two seconds. If a password has been entered, you will not be able to clear the total acre count. Total acres will count from .1 to 99999 acres.

Pulses Per 400 Feet

Press the ***/FUNC** button until the **PULSES** LED is lit. The number in the display indicates how many pulses are generated for every 400 feet driven. There are two methods to enter the pulses per 400 feet:

1. If you know the number, select it using the **UP** and **DOWN** buttons. When you press the ***/FUNC** button, the Acre Counter will accept the number in the display as the new pulses per 400 feet. See **Table 3-5**.
2. If you do not know the pulses per 400 feet, press and hold the **UP** and **DOWN** buttons until the "0" appears in the display. The **PULSES** LED will blink. The acre counter is now counting shaft rotations. Enter the cab, lower seeder, engage clutch and drive 400 feet. Press the ***/FUNC** button to wake up the acre counter. The **PULSES** LED will light. The number displayed is the pulses per 400 feet. Press the ***/FUNC** button to accept the setting.

If a password is set, you will not be able to adjust the pulses.

Width

Press the ***/FUNC** button until the **WIDTH** LED is lit. The number displayed is the length of your machine in feet.

To adjust the width, press the **UP** and **DOWN** buttons. If a password has been entered, you will not be able to adjust the width.

The width can be adjusted from .1 to 99.9 feet, in tenths of a foot.

Password

The password function allows you to protect the total acre count, pulses per 400 feet, and width settings with a password. This stops anyone from accidentally changing those settings. When the acre counter is shipped, the password is disabled. You can modify the pulses per 400 feet and machine width at any time.

Press the ***/FUNC** button until the **PASS** LED is lit. The digits will display the word **Ent** or **dIS**.

If the display shows "dIS". The password is disabled. The total acre count, pulses/400 feet, width, and password settings can be adjusted using the **UP** and **DOWN** buttons. The password can also be changed using the **UP** and **DOWN** buttons.

If the display shows "Ent": You must enter your password using the **UP** and **DOWN** buttons. When your password is displayed, press the ***/FUNC** button to test the password. If the password is correct, you will be able to change the acre counter settings. The password will be viewable until the acre counter enters sleep mode. When the acre counter is in entry mode again, you will have to re-enter the password to change settings.

If the password is not correct, you will not be able to change the acre counter settings. When the **PASS** function is selected again, **Ent** will appear in the display.

Changing the Password

Select a new password using the **UP** and **DOWN** buttons. Press the ***/FUNC** button until the word **SEt** appears in the display. Release the ***/FUNC** button. The number in the display is your new pass code. Make sure you record this number. Press and hold the ***/FUNC** button until the word **dis** appears in the display.

If the password is forgotten, it can be disabled by removing the batteries. The password is intended for rental units. It is recommended that a seal be affixed to the rear plate of the acre counter to determine if the settings have been tampered with.

Battery Replacement

The battery operated acre counter uses 3 AA batteries. The **BATT** LED will light when the batteries require replacement. Remove the acre counter from the machine and undo the 4 screws on the back of the case. **See Figure 3-17.** This will separate the housing from the rear plate. Replace the batteries with 3 high quality AA alkaline batteries.

See “Acre Meter Troubleshooting” on Page 5-9.

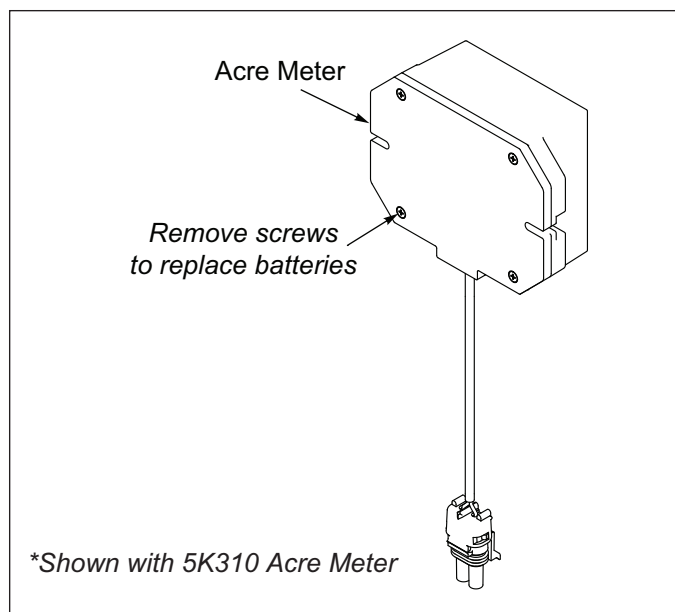


Figure 3-17: Battery Replacement

Loup Acre Meter (Before 05/15/2012)

Settings

- When the meter is set to “count” mode in pulses screen, meter will register only magnetic wheel revolutions.
- The meter must be in sleep mode (blank screen) to calculate acres or to count pulses.
- The count screen must have a value other than zero (0000) to scroll to other modes or screens.
- To reset the FIELD ACRES screen to zero (0000), press the **UP** and **DOWN** buttons simultaneously.

To Program Meter

1. Press the **Function (FUNC)** button to scroll to pulses screen.
2. Enter the number of pulses using the **UP** or **DOWN** buttons for the model listed in the chart. **See Table 3-6.**
3. Press **FUNC** to set the pulses. (If screen goes blank before you press **FUNC**, repeat steps 1 and 2).
4. Press **FUNC** to scroll to the width screen.
5. Enter the width of seeder using the **UP** or **DOWN** buttons for the model listed in the chart. **See Table 3-6.**
6. Press **FUNC** to set the width. (If screen goes blank before you press **FUNC**, repeat Steps 4 and 5).
7. Press **FUNC** to scroll through the screens to check that the correct pulses and width have been entered.

To Enter Password

1. Press the **FUNC** to scroll to password screen.
2. Pick a numeric password and enter it by using the **UP** or **DOWN** buttons, until your password is displayed.
3. Press **FUNC** to set password; screen will show **(set)**. Record number - it is required if you decide to disable password.
4. Let screen go blank - password is now entered.
5. Press **FUNC** to scroll to the password screen it will show **Ent**. If the screen does not show **Ent**, repeat Steps 2, 3 and 4.

To Disable Password

1. Press **FUNC** to scroll to the password screen it will show **Ent**.
2. Use **UP** or **DOWN** button to enter password (number).
3. Press **FUNC** to scroll around to pass screen again. Number entered in Step 2 will appear.
4. Press **UP** or **DOWN** button to enter 0.
5. Press **FUNC**; **(dis)** will appear. Password is now disabled.

Acre Meter Settings

4 CHANNEL ACRE METER					
MODEL				Pulses per 400 FT	Width (Inches)
SSPT604				22	60 in.
SSP4	SSB4	SS4		44	48 in.
SSP5	SSB5	SS5		44	60 in.
SSP6	SSB6	SS6		44	72 in.
SSP8	SSBP8	SS8	SSB8	58	96 in.
SSP10	SSBP10	SS10	SSB10	58	120 in.
SSP12	SSBP12	SS12	SSB12	58	144 in.
SSP16	SS16	4610-16		45	192 in.
SSP108	SS108			58	96 in.
SSP110	SS110			58	120 in.
SSP112	SS112			58	144 in.
SSP208/2081	SS208/2081			58	96 in.
SSP210/2101	SS210/2101			58	120 in.
SSP212/2121	SS212/2121			58	144 in.
SSP308/3081	SS308/3081			29	96 in.
SSP310/3101	SS310/3101			29	120 in.
SSP312/3121	SS312/3121			29	144 in.
SLP8	SL8			314	96 in.
SLP10	SL10			314	120 in.
SLP12	SL12			314	144 in.
SLP204/2041	SLPB204/2041			128	48 in.
SLP206/2061	SLPB206/2061			128	72 in.
SLP304/3041	SLPB304/3041			64	48 in.
SLP306/3061	SLPB306/3061			64	72 in.
LSP5	LS5			128	60 in.
LSP6	LS6			128	72 in.
LSS6				128	72 in.
SLP208/2081	SLPB208/2081	SL208/2081	SLB208/2081	116	96 in.
SLP210/2101	SLPB210/2101	SL210/2101	SLB210/2101	116	120 in.
SLP212/2121	SLPB212/2121	SL212/2121	SLB212/2121	116	144 in.
SLP308/3081	SLPB308/3081	SL308/3081	SLB308/3081	58	96 in.
SLP310/3101	SLPB310/3101	SL310/3101	SLB310/3101	58	120 in.
SLP312/3121	SLPB312/3121	SL312/3121	SLB312/3121	58	144 in.
BOS4F1	BOS4S1	BOSB4F1	BOSB4S1	45	48 in.
BOS6F1	BOS6S1	BOSB6F1	BOSB6S1	45	72 in.
BPS6	BPSB6			51	72 in.
BPS8				50	96 in.
GLP643	SSLP643			69	60 in.
4620-24				45	288 in.
4630-36				per Seeder	432 in.
X20-26	XL28-36	XXL38-46		90	per Model
WFP23-37	WFP38-52			90	per Model
FPSB-6	FPS6			89	72 in.

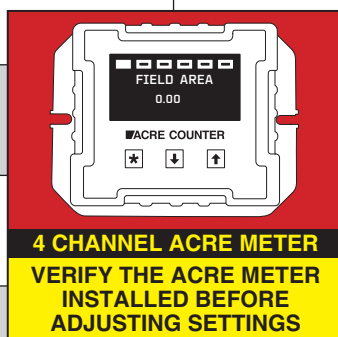


Table 3-4: Acre Meter Settings (After 06/01/2025)

TABLE OF CONTENTS

SINGLE CHANNEL ACRE METER					
MODEL				Pulses per 400 FT	Width (Feet)
SSPT604				22	5.0
SSP4	SSB4	SS4		44	4.0
SSP5	SSB5	SS5		44	5.0
SSP6	SSB6	SS6		44	6.0
SSP8	SSBP8	SS8	SSB8	58	8.0
SSP10	SSBP10	SS10	SSB10	58	10.0
SSP12	SSBP12	SS12	SSB12	58	12.0
SSP16	SS16	4610-16		45	16.0
SSP108	SS108			58	8.0
SSP110	SS110			58	10.0
SSP112	SS112			58	12.0
SSP208/2081	SS208/2081			58	8.0
SSP210/2101	SS210/2101			58	10.0
SSP212/2121	SS212/2121			58	12.0
SSP308/3081	SS308/3081			29	8.0
SSP310/3101	SS310/3101			29	10.0
SSP312/3121	SS312/3121			29	12.0
SLP8	SL8			314	8.0
SLP10	SL10			314	10.0
SLP12	SL12			314	12.0
SLP204/2041	SLPB204/2041			128	4.0
SLP206/2061	SLPB206/2061			128	6.0
SLP304/3041	SLPB304/3041			64	4.0
SLP306/3061	SLPB306/3061			64	6.0
LSP5	LS5			128	5.0
LSP6	LS6			128	6.0
LSS6				128	6.0
SLP208/2081	SLPB208/2081	SL208/2081	SLB208/2081	116	8.0
SLP210/2101	SLPB210/2101	SL210/2101	SLB210/2101	116	10.0
SLP212/2121	SLPB212/2121	SL212/2121	SLB212/2121	116	12.0
SLP308/3081	SLPB308/3081	SL308/3081	SLB308/3081	58	8.0
SLP310/3101	SLPB310/3101	SL310/3101	SLB310/3101	58	10.0
SLP312/3121	SLPB312/3121	SL312/3121	SLB312/3121	58	12.0
BOS4F1	BOS4S1	BOSB4F1	BOSB4S1	45	4.0
BOS6F1	BOS6S1	BOSB6F1	BOSB6S1	45	6.0
BPS6	BPSB6			51	6.0
BPS8				50	8.0
GLP643	SSLP643			69	5.0
4620-24				45	24.0
4630-36				per Seeder	36.0
X20-26	XL28-36	XXL38-46		90	per Model
WFP23-37	WFP38-52			90	per Model
FPSB-6	FPS6			89	6.0

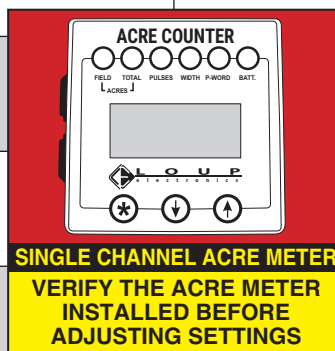


Table 3-5: Acre Meter Setting (05/15/2012 TO 06/01/2025)

TABLE OF CONTENTS

SINGLE CHANNEL ACRE METER					
MODEL				Pulses	Width (Feet)
SSPT604				293	5
SSP4		SS4		578	4
SSP5		SS5		578	5
SSP6		SS6		578	6
SSP8		SS8		764	8
SSP10		SS10		764	10
SSP12		SS12		764	12
SSP108		SS108		760	8
SSP110		SS110		760	10
SSP112		SS112		760	12
SSP208	SSP2081	SS208	SS2081	764	8
SSP210	SSP2101	SS210	SS2101	764	10
SSP212	SSP2121	SS212	SS2121	764	12
SSP308		SS308		382	8
SSP310		SS310		382	10
SSP312		SS312		382	12
SLP8		SL8		4147	8
SLP10		SL10		4147	10
SLP12		SL12		4147	12
SLP204	SLP2041			1690	4
SLP206	SLP2061			1690	6
SLP304	SLP3041			845	4
SLP306	SLP3061			845	6
LSP5				1690	5
LSP6				1690	6
LSS6				1690	6
SLP208	SLP2081	SL208	SL2081	1528	8
SLP210	SLP2101	SL210	SL2101	1528	10
SLP212	SLP2121	SL212	SL2121	1528	12
SLP308	SLP3081	SL308	SL3081	764	8
SLP310	SLP3101	SL310	SL3101	764	10
SLP312	SLP3121	SL312	SL3121	764	12
BOS4F1	BOS4S1	BOSB4F1	BOSB4S1	600	4
BOS6F1	BOS6S1	BOSB6F1	BOSB6S1	600	6
BPS6	BPSB6			679	6
GLP643	SSLP643			917	5

Table 3-6: Acre Meter Setting (Before 05/15/2012)

Transporting the Seeder

1. Check and follow all federal, state, and local requirements before transporting the Seeder.
2. The Seeder should be transported only by tractor required for field operation. The machine weight should not exceed more than 1.5 times the tractor weight. Maximum transport speed for the Seeder is 20 mph.



CAUTION

Excessive speed may result in loss of control of the tractor and machine, reduced braking ability, or failure of the machine tire or structure. Do not exceed the machines maximum specified ground speed regardless of the capability of the maximum tractor speed.

3. When towing equipment in combination, the maximum equipment ground speed shall be limited to the lowest specified ground speed of any of the towed machines.

Maximum transport speed shall be the lesser of travel speed specified in the operator's manual, speed identification symbol, information sign of towed equipment, or limit of road conditions.

4. Slow down when driving on rough roads. Reduce speed when turning, or on curves and slopes to avoid tipping. Equipment altered other than the place of manufacture may reduce the maximum transport speed. Additional weight, added tanks, harrowing attachments, etc. may reduce machine load carrying capabilities.
5. A Safety Chain is provided with the implement to insure safe transport. **See "Safety Chain" on page 1-4.**
 - The Safety Chain should have a tensile strength equal to or greater than the gross weight of the implement. The chain is attached to the lower Hitch Clevis hole with two Flat Washers between the Clamp Plates to assure a tight connection. Always use a 1" diameter Grade 8 bolt for this connection.
 - Attach the Safety Chain to the tractor drawbar. Provide only enough slack in the chain for turning. Do not use an intermediate chain support as the attaching point for the chain on the tractor. Do not pull the implement by the Safety Chain.
 - When unhitching from the tractor attach the hook end of the chain to a free link close to the hitch clevis for storage. This will keep the hook off the ground, reducing corrosion, and keep the hook functioning properly.
 - Regularly inspect the safety chain for worn, stretched, or broken links and ends. Replace the Safety Chain if it is damaged or deformed in any way.

6. Before transporting:

- Know the height and width of the implement being towed. Markers, tanks, attachments, etc. can increase the height and width of the implement.



DANGER

Stay away from power lines when transporting, extending implement. Electrocution can occur without direct contact.

- Check to see that the tractor hitch capacity is rated to carry the weight of the Seeder Hitch. **Refer to Tractor Operator's Manual.**
- Use provided pins that properly fits the Lift Arms or Quick Hitch and Implement Hitch.
- Clean all Hydraulic Couplings and attach to tractor remotes.
- Connect Basic Clutch Switch Box or Brillion Elite Mini Monitor System to tractor.
- Connect the Safety Warning Lights 7-Pin Plug into tractor 7-Pin outlet, routing cord by avoiding pinch points.
- Fully raise the Seeder Hydraulic Lift or 3-PT Hitch.
- Make sure Transport Locks are installed and secured with Clevis Pins and Hairpin Cotters. **See "Transport Lock Engaged" on page 3-5.**



WARNING

Failure to use transport lock during transport may result in permanent equipment damage, serious injury, or death.

- Check all tires for proper inflation, and that lug nuts are properly torque. **See "Tires" on page 5-3.**
- Verify that all warnings lights, SMV sign, reflectors, and safety decals are clearly visible and functioning properly.
- Transport during daylight hours whenever possible. Always use flashing warning lights, except where such use is prohibited by law. Make sure lights, reflectors and SMV emblem are clearly visible and operating. Remove any obstructions such as dirt, mud, stalks or residue that restricts view before transporting. **See Figure 3-18.**

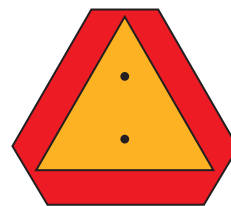


Figure 3-18: SMV Sign

Brillion Elite Mini Monitor

Overview

The Brillion Elite Mini Monitor is a full featured display designed to provide accurate information to the operator for Ground Speed and Acres Planted, Seeder Unit Clutch Control, Seed Shaft Rotation, and Bin Level. This Chapter will familiarize you with operation and technical information. All aspects and features are detailed but may not be applicable to your system configuration.

- **Ground Speed** (Implement mounted Ground Speed Sensor, Radar, GPS Speed or Simulated Speed)

- **Field Acres and Total Acres**
- **Clutch Control**
- **(Up to 6) Six Seed Shaft Rotation Sensors**
- **(Up to 6) Six Hopper Level Sensors**
- **Clutch Master On/Off Switch**



WARNING

High Power Magnet in use. See "High Power Magnet" on 1-2.

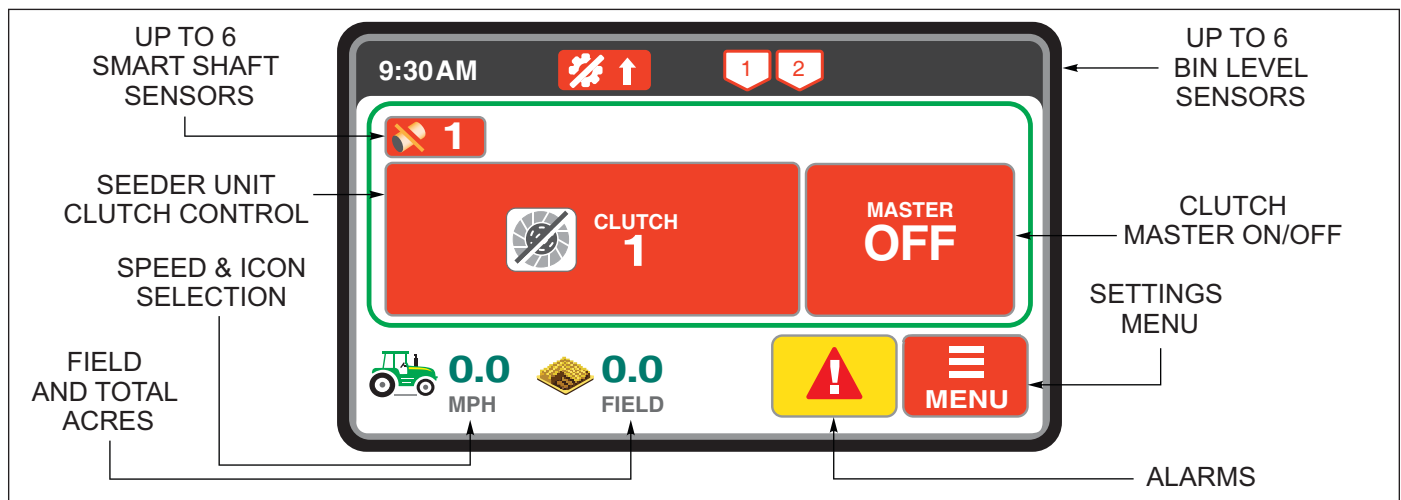


Figure 4-1: Main Screen Display (Sure Stand Seeder)

Main Screen Layout

Speed & Icon Selection

Implement Speed will display in lower left corner of the display. To change the tractor color, tap the tractor icon in the lower left corner to prompt a menu. From the pop-up, select the color.



Field & Total Acres

NOTE

Acres seeded accumulate only for the seeder sections that have the clutch engaged "ON/Green".

Touch **Field or Total Acres** to toggle between them.

Clear Field Acres: Touch and hold field numbers for 3 seconds. Field Acres Reset Screen will pop-up. Select "Yes Confirm".

Clear Total Acres: Touch and hold total numbers for 3 seconds. Total Acres Reset Screen will pop-up, select "Reset Total Acres". Warning Screen will pop-up, select



"Yes Confirm". Password Screen will pop-up. Enter 4-digit password.

Alarms

When an alarm is sounded a popup message will display the active alarm. You may choose to either clear that single alarm or clear all alarms to clear the popup and silence the display.



A flashing yellow button will display next to the Menu Button to signify alarm(s) that are currently active. Select the yellow alarm button to go to the Alarms Screen which will outline all current alarms active on the console. The flashing indicator will not disappear until all alarms have been resolved.

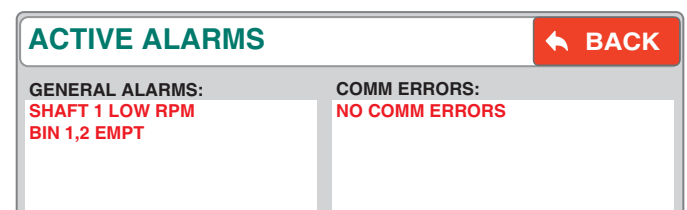




Figure 4-2: Settings Menu Display (Sure Stand Seeder)

Settings Menu - Speed Settings

Located by selecting “Menu” and “Speed Settings”, these settings control the type of speed input being used as well as calibrating the speed displayed on the main screen.

Speed Source

Change “Speed Source” by pressing the **Current “Source” Button**. Choose between Shaft Sensor, Radar, GPS Receiver, and Simulated Speed. Screen displays the new Source and options.



SPEED SETTINGS

Source: Shaft Sensor Speed

Uses the Smart Shaft Sensor located on the Seeder Clutch Shaft to obtain ground speed.



SHAFT SENSOR

Source: Radar Speed

Uses a tractor equipped with radar to obtain your source of ground speed.



RADAR

Source: GPS Receiver Speed

Uses a GPS receiver for your source of ground speed.



GPS RECEIVER

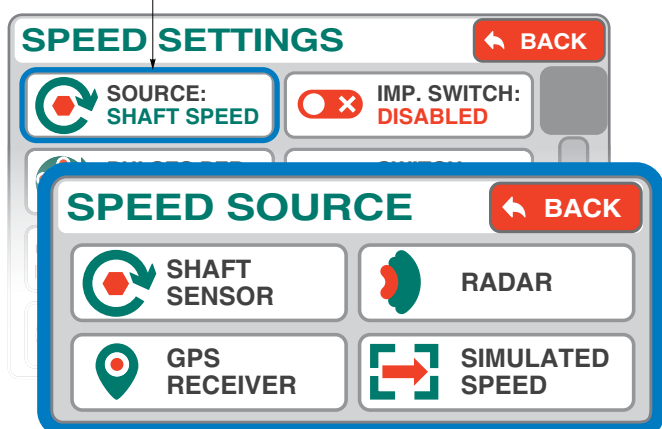
Source: Simulated Speed

Allows you to enter a static speed into the monitor without any other speed source. For use in more unique conditions such as a GPS/Radar failure, or other troubleshooting.



SIMULATED SPEED

CURRENT “SOURCE” BUTTON



Speed Source Displays

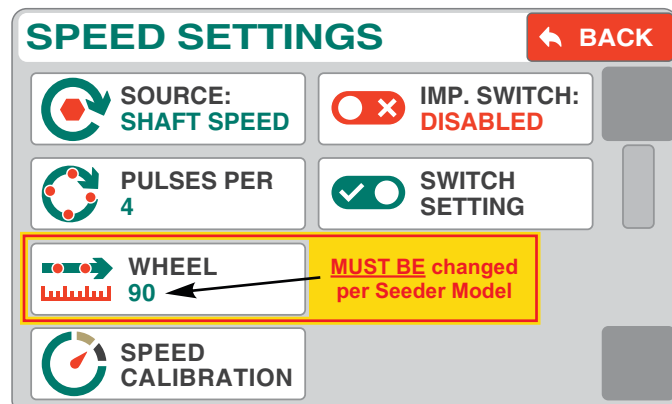


Figure 4-3: Source: Shaft Sensor Speed Display

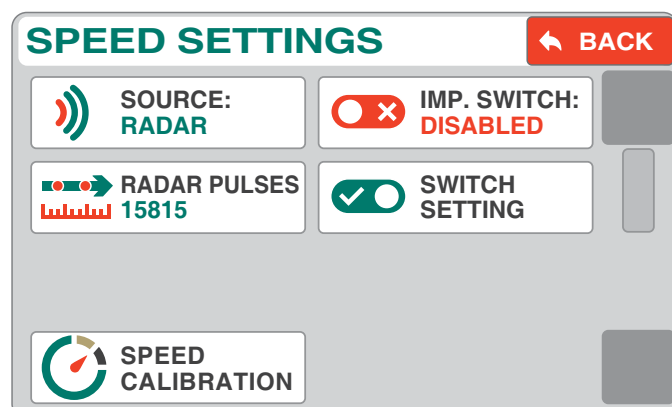


Figure 4-4: Source: Radar Speed Display

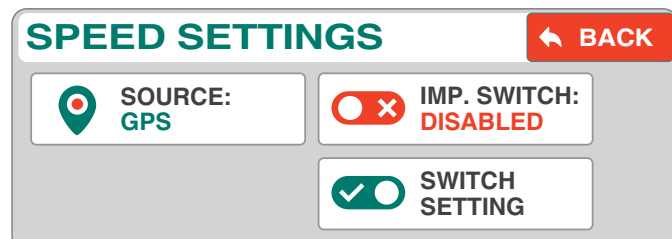


Figure 4-5: Source: GPS Receiver Display

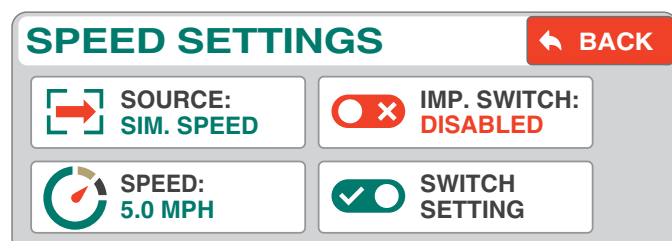


Figure 4-6: Source: Simulated Speed Display

Speed Source Icon Features

Pulses Per Revolution

Pulses Per Revolution are the number of magnets the implement mounted speed sensor sees in one revolution of the shaft being monitored. For Brillion Seeders this number is 4.

To change, enter a new number into the keypad and select "Exit & Save".



Wheel Pulses Per 400FT

This is the ground speed calibration number for a implement mounted speed sensor. See "Speed Calibration" for calibration instructions.



MUST BE changed per Seeder Model

The Default Number **MUST BE CHANGED** per specific seeder model. See Figure 4-7. To change, enter a new number into the keypad and select "Exit & Save". Increasing this number will cause the monitor to show a slower MPH, decreasing it causes the MPH to increase.

MODEL	PULSES PER 400FT
SS208/SSP208	232
SS210/SSP210	232
SS212/SSP212	232

Figure 4-7: Pulse Number for Specific Seeder Model

Radar Pulses Per 400FT

This is the ground speed calibration number for a radar speed sensor. See "Speed Calibration" for calibration instructions.



Speed (Simulated Speed)

Enter the static speed of your choice. The monitor will continually display this speed at all times until otherwise specified.



Speed Calibration

All new systems require a ground speed calibration to ensure accurate area totals and accurate ground speed readings. To complete the calibration, measure a course 400 long preferably on level ground with a start and finish point. The seeder must be in the down position throughout this procedure.

SPEED CALIBRATION

SPEED CALIBRATION

1. Measure 400ft distance
2. Select "START CALIBRATION" and begin driving.
3. Pulses will start accumulating below.
4. Select "EXIT AND SAVE" below to complete.

START

WHEEL PULSES RECEIVED : 0

RADAR PULSES RECEIVED : 0




NOTE

During the calibration the monitor is looking for the number of pulses produced from the seeder mounted sensor or in the case of radar, the number of radar pulses.

1. Select the "Start Calibration" button to begin.
2. As you drive the 400ft. distance, pulses for both Wheel Pulses and/or Radar Pulses will begin accumulating on-screen.
3. When you've reached the end of the 400ft. distance, select "EXIT & SAVE" to complete the calibration procedure. Depending on which "Speed Source" is selected, the monitor will store this value into either the "Wheel Pulses Per 400" or "Radar Pulses Per 400" area.

Implement Switch

The implement switch is used to tell the monitor if a Lift Sensor is being used to determine when the machine is raised or lowered. The Lift Sensor is used when shaft rotation cannot be used or a variable rate drive such as common on air seeders, is being used. The "Imp. Switch" button toggles between "Disabled" or "Enabled". **Set to "Disabled" for Brillion Sure Stand Seeder.**

When the Monitor learns a "Lift Switch Sensor" toggle the "Implement Switch" button to "Enabled".



Implement Switch Setup

Implement Switch Setup tells the monitor if the Implement Switch Lift Sensor is associated with the Implement Lift being raised or lowered.

The Implement

Switch Setup toggles between "Open" or "Closed".

Select icon "Set Highest" or "Set Lowest" to "Open" the Implement Switch, the other will automatically "Close".



IMP. SWITCH SETUP


RAISED: OPEN SET HIGHEST

CURRENT: OPEN

LOWERED: CLOSED SET LOWEST

Settings Menu - Clutch Setting



The Sure Stand Seeder has a Clutch that is controlled by the Brillion Elite Mini Monitor. The Clutch must be set.

CLUTCH SETTINGS


CLUTCH 1 DETAILS:

 **CLUTCH ENGAGE AT: 0V**

SECTION WIDTH: 8.0 FT 




TOTAL CLUTCHES

1

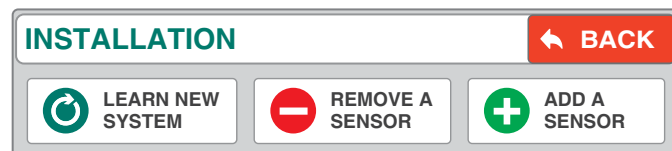
-
+

1. Set "Total Clutches" to 1 by pressing icon "-" or "+"
2. Set each "Clutch Details" as follows: to toggle between each Clutch Detail press icon **NEXT** or **PREV.**
 - Clutch engage at: 0 Volts (Toggles between 0 and 12 Volts)
 - Section Width: 8.0 Feet, 10 Feet, or 12 Feet **Set to Model Width**
3. Select "BACK" to get to the Setting Menu.

Settings Menu - Install Setup



Select “**Install Setup**” icon to Learn New System, Add A Sensor, or Remove A Sensor to your machine.



Learn New System

Select “**Learn New System**” if your monitor did not come pre-programmed or you wish to relearn all sensors.



1. Start by unplugging all sensors on the implement and then selecting “**Learn New System**”. A popup will warn you that all current sensors will be overwritten. Select “**Yes, Learn New System**”.
2. Refer to Brillion Elite Mini Monitor Electrical Schematic for Sensor Locations. **See Figure 2-33.**

The monitor will prompt “**Plug In Sensor**” (all sensors have a 3-Pin Connector with white, black and green wires) in the following order. The sensor being prompted will automatically be learned upon connecting the 3-Pin Connector.

- “**Plug In Sensor - Speed**” Ground Speed Smart Shaft Sensor is installed on the Seeder Clutch Shaft.
- “**Plug In Sensor - Clutch Box**” Clutch Smart Relay installed in the Elite Mini Tractor Harness
- “**Plug In Sensor - Shaft 1-6**” Up to six Seed Shaft Smart Shaft Sensors can be installed.
- “**Plug In Sensor - Bin 1-6**” Up to six Bin Level Sensors can be installed.

3. It is likely your system will not be configured for the maximum possible sensors or even certain types of sensors the Loup Elite is capable of.

Use the “**Skip this Sensor**” button to advance ahead one sensor at a time.



Use the “**Skip this Type of Sensor**” to advance to the next category of sensors.



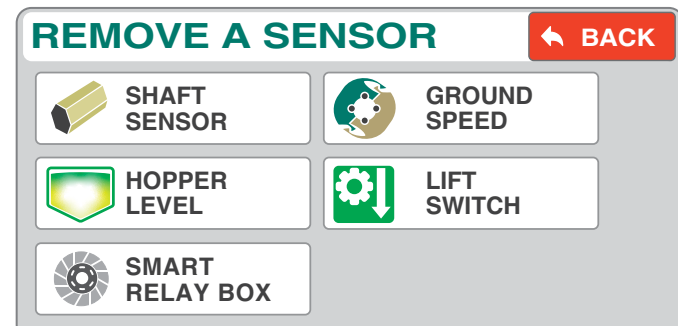
4. When you’ve reached the end of the list of sensors, you will be prompted with “**Manual Learn Complete**”. Push “**Ok**” to finish.

Remove A Sensor

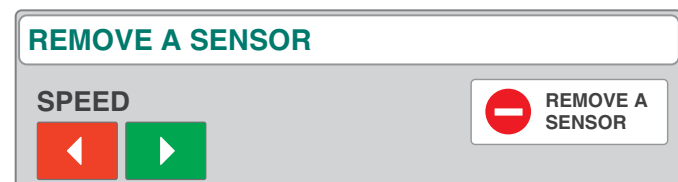
Select this option to remove a sensor from your existing system.



1. Select the type of sensor you wish to remove.



2. Use the **Left and Right Arrows** to navigate to the sensor number you wish to remove.
3. Select the “**Remove A Sensor**” button to complete the removal.

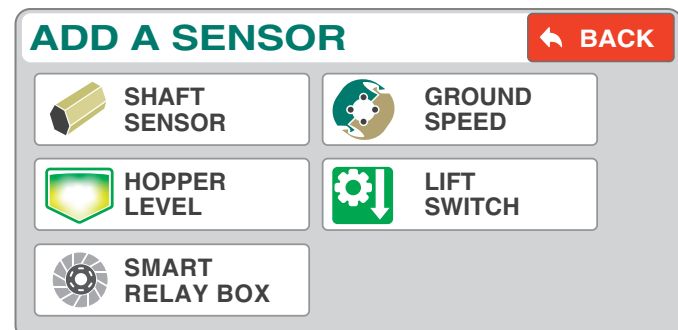


Add A Sensor

Select this option to add a new sensor to your existing system.



1. Select the type of sensor you wish to add.



2. Use the Left and Right arrow buttons to navigate to the sensor number you wish to add.
3. Select the “**Add A Sensor**” button to complete the sensor addition.



Settings Menu - Shaft Settings



Seed Shaft Settings

The Seeder can have up to six Smart Shaft Sensors that indicate shaft rotation. Each Smart Shaft Sensor must be set.

- Pulse per Rev: 1
- Alarm Time: 20 Sec.

Toggle between each “**Shaft**” by pressing icon “<” or “>”. Select “**Back**” to get to the Settings Menu.

The 20 second Alarm Time is the estimated time it takes to turn around after each pass in the field without sounding the Alarm. This can be adjusted by the operator if more or less time is required before the Alarm Sounds.

Settings Menu - Diagnostics



The Diagnostics screen can help in identifying issues with sensors, harnessing or other items. Status reports for Battery Voltage, Sensors Learned, MUX Communication speed and GPS Communication speed are displayed. Contact Loup Electronics if you need technical support.

Settings Menu - GPS Settings



“**GPS Settings**” defines any Baudrate, Speed Corrections or the current GPS Status.

GPS Status

The GPS Status screen gives a diagnostics report of the current Latitude, Longitude, Number of Satellites connected and the Type/Quality of the GPS Fix. If the GPS Icon on the top of screen is Yellow or Red, check this status page to help identify GPS signal issues.



GPS Baudrate

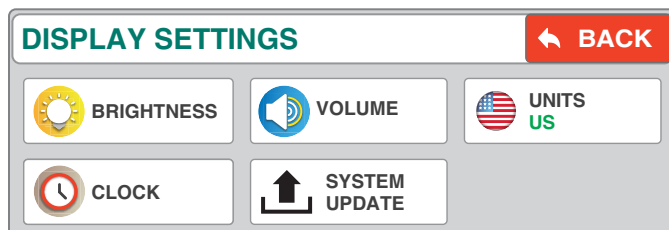
Sets the baudrate at which the console communicates with the GPS receiver you are using. Available speeds are **4800**, **9600**, **19200**, **38400**, and **115200**.



GPS Speed Correction

If your GPS is displaying an incorrect speed reading, use this screen to add the desired correction in MPH.

Settings Menu - Display Settings



Brightness

Use the Plus or Minus keys to increase or decrease the brightness of the screen or the keypad backlight.



Volume

Use the Plus or Minus keys to increase or decrease the volume to the desired level. An audible alarm will sound with each increment.



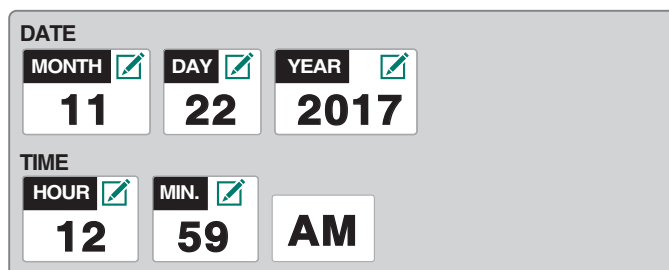
Units

Toggles between US (feet) or Metric (meters) units.



Clock (Date & Time)

To set the time, simply select the related buttons for Month, Day, Year, Hour and Minute and enter the appropriate value into each field. Lastly toggle the time between AM or PM and push “Save” to complete.



System Update

The system update screen is used to update to newer versions of software or reset to factory default settings.



Update App

The **Update App** button is used to perform a system update to newer version of software. To update follow the following steps:



1. On a Micro SD Card, create a folder titled “**EliteUpdate**” on the root level of the MicroSD Card. Within this folder place the update file from Loup Electronics, this should appear as a **.srec** file format.
2. Insert Micro SD Card into the Elite console and select the “**Update App**” button. From the popup window select the version you wish to update, newest software versions will appear at the top of the window.
3. Allow the application to load into the console and when finished, cycle power to the console. The update will finish installation upon startup.
4. Ensure the newest software is updated by selecting the “**MENU**” button and checking the “**APP VER**” number in the upper right corner.

Factory Reset

Selecting this will reset all settings back to Factory Default. All existing implements and sensors will be removed from memory and need to be reinstalled if choosing to reset the console.



Service And Technical Support

Contact: Loup Electronics Inc.

Address: 2960 N. 38th Street
Lincoln, NE 68504

Phone: 877-489-LOUP(5687)
402-464-7131

Fax: 402-464-7104

E-mail: info@loupelectronics.com

AFTER HOURS/WEEKEND SUPPORT
402-318-6415 OR 402-853-6249

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Table provided for general use.

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Hydraulic Fitting Torque Specifications

LANDOLL HYDRAULIC FITTING TORQUE SPECIFICATIONS (REV. 23/04) AEROQUIP BRAND FITTINGS 37° JIC; ORS & ORB	LANDOLL HYDRAULIC FITTING TORQUE SPECIFICATIONS (REV. 23/04) GATES BRAND FITTINGS 37° JIC; ORS & ORB	LANDOLL HYDRAULIC FITTING TORQUE SPECIFICATIONS (REV. 23/04) PARKER BRAND FITTINGS 37° JIC; ORS & ORB																																																																																																																																																
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Figure 5-2: Hydraulic Fitting Torque Specifications

Fasteners

Before operating your Brillion machine, check all hardware for tightness. Use the Tightening Torque Table as a guide. **See Page 5-1.**

After a few hours of use, check entire machine and tighten any loose nuts or bolts. Daily or periodic checks should be made thereafter.

When replacing bolts, be sure to use fasteners of equal grade.

Tires

8FT Seeder recommended Tire Size:

9.5 L-15 8 Ply Rating

Tire Inflation Pressure: 44 PSI

10FT and 12FT Seeder recommended Tire Size:

11 L-15 12 Ply Rating

Tire Inflation Pressure: 52 PSI

When Re-Installing 1/2-20 x 1 Wheel Bolts tighten to 50 Ft-Lbs. using the sequence in **See Figure 5-3.** Then tighten to full torque of 80-85 Ft-Lbs.

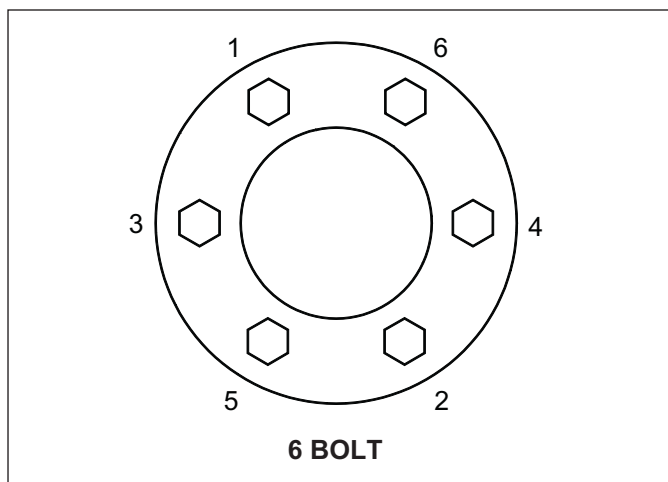


Figure 5-3: Tightening Sequence

Wheel Hub Bearing Maintenance

Wheel Bearing maintenance should be performed at the beginning of every season of use. Check the Wheel Bearings periodically for excessive end play. If needed, adjust or replace them using the following procedure:

1. Place the Frame on blocks or stands sufficient to lift the Tire clear of the ground.
2. Remove the Tire.
3. Remove the Hub Cap, Cotter Pin and Slotted Nut.
4. Remove the Hub. Clean and inspect the Bearings and Hub Cavity. Replace any worn or defective parts.

5. Repack the Bearings using a high-quality Wheel Bearing Grease.
6. Install the inner bearing into the hub and install the grease seal. Use a driver to install the seal, to avoid damaging the outer edge of the seal. Drive the seal squarely into the hub to avoid any seal distortion.

NOTE

The Single Lip Seals should point away from the Hub to keep contaminants out and allow grease to pass.

7. Slide the hub, bearing, and seal onto a clean spindle.
8. Install the Outer Bearing Cone and Slotted Nut.
9. Tighten the Slotted Nut while rotating the Hub until there is a slight resistance to wheel rotation. Then, back the Slotted Nut off one notch, until the wheel rotates freely without end play.
10. Install a new Cotter Pin and re-install the Hub Cap.

Lubrication Maintenance

- Oil Roller Chains periodically
- Seeder has Greaseable Bearings on the ends of the Front and Rear Rollers and should be greased every 20 hrs. **See Figure 5-4.**
- Pull Type Seeders Wheel Arm pivot point should be greased every 4 hrs.
- Grease Wheels Hubs every 50 hrs.
- When the machine is not used for some time, exposed portions of the Hydraulic Cylinder Rods must be cleaned and covered with a thick coat of grease to prevent corrosion, which will damage the seal.

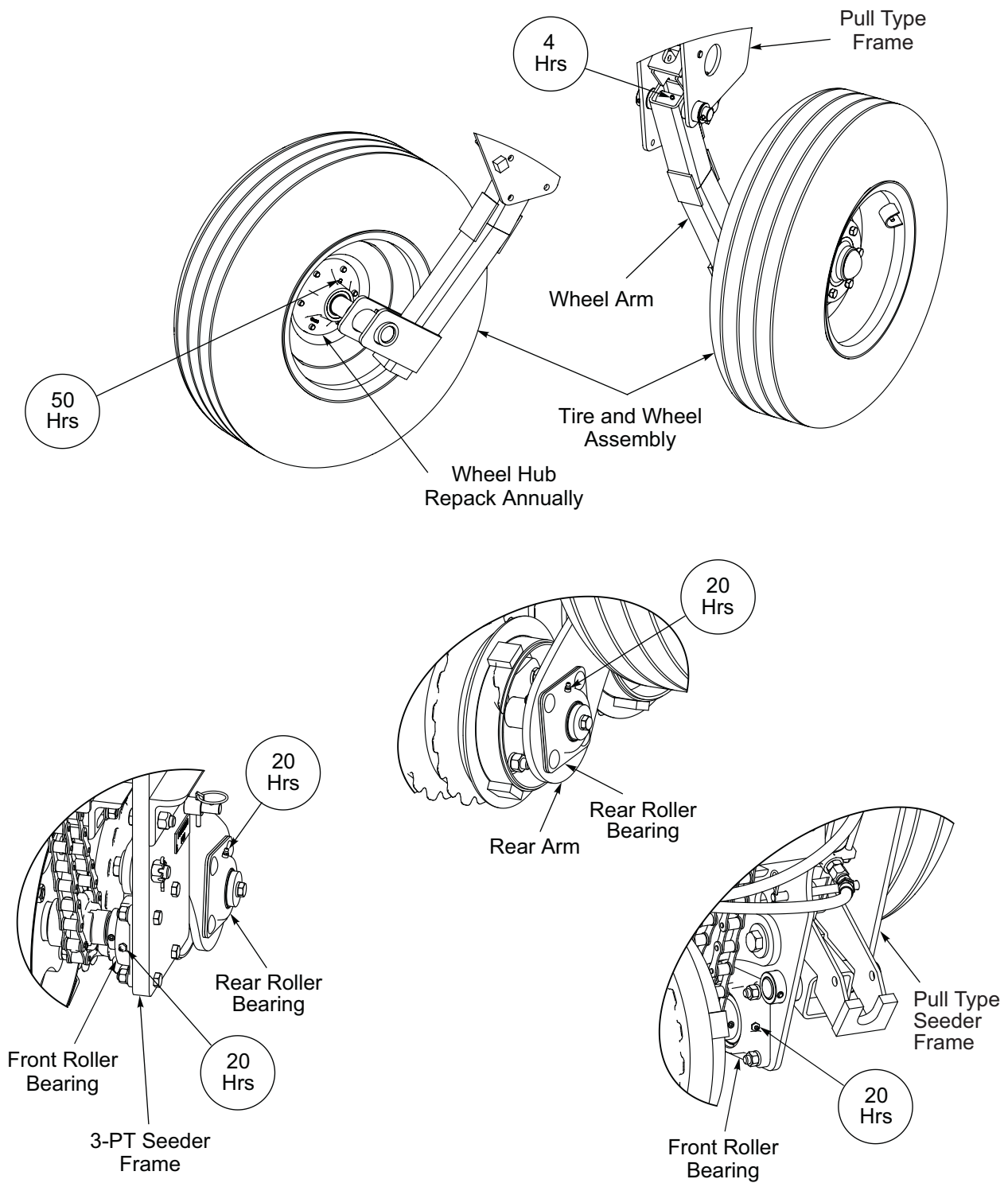


Figure 5-4: Lubrication Intervals

Hydraulic Maintenance

IMPORTANT

Lower the Drawbar Seeder to the ground, and relieve hydraulic pressure before attempting to service any hydraulic component.



WARNING

Escaping fluid under pressure can be nearly invisible and have enough force to penetrate the skin causing serious injury. Use a piece of cardboard, rather than hands to search for suspected leaks. Wear protective gloves and safety glasses or goggles when working with Hydraulic System.

1. Check the tractor hydraulic fluid level per tractor owner's manual and after any leakage. Check fluid level with the Hydraulic Cylinders in the extended position.
2. If a Hydraulic Cylinder leaks, disassemble the parts to determine the cause of the leak. Any time a Hydraulic Cylinder is opened up, or whenever any Seal replacement is necessary, it is advisable to clean all parts and replace all Seals. Seal Kits are available from your Brillion dealer.
3. Check all Hydraulic Hoses weekly. Look for binding or cracking. Replace all worn or defective parts immediately.
4. Transport Locks are provided to hold the implement in a raised position. Do not attempt to perform any service work under the implement without first installing the Transport Locks. **See Figure 3-6.** Before servicing any hydraulic component, lower the implement to the ground and relieve all system pressure. If a hydraulic component is disconnected, repaired, or replaced, it will be necessary to purge the system of air before operation. **See "Hydraulic Lift System" on Page 3-7.**

Front and Rear Roller Adjustment

NOTE

Failure to position the Clamp Band Socket Head Bolt (Clamp Band open section) over the Roller Drum weld seam will cause Clamp Band to loosen and slide.

After an initial run of 5-10 hours, check the Front and Rear Roller Assemblies to ensure that the Wheels are tight to one another and that the Clamp Bands are tight. If not, slide the Roller Wheels tight together and adjust the

Roller Clamp Bands per **Roller Adjustment Procedure**. Tighten the Clamp Band Socket Head Bolt (Clamp Band open section) over Roller Drum weld seam to 75 Ft-Lbs. Thereafter check Front and Rear Roller Assemblies every 50-100 hours.

Roller Adjustment Procedure

1. Adjust the Front Roller Wheels first. Loosen Clamp Bands and slide the Roller Wheels snug against each other, centering the entire assembly under the Deflector.
2. Position the Clamp Band Socket Head Bolt (Clamp Band open section) over the weld seam on the Roller Drum. **See Figure 5-5.**
3. Slide the Clamp Band against the End Wheel on each end of the Roller and tighten the Clamp Band Bolt to 75 Ft-Lbs.
4. Adjust the Rear Roller Wheels in the same manner as you adjusted the Front Roller Wheels except, start at the center of the Rear Roller and align the peaks of the Rear Roller Wheels with the valleys of the Front Roller Wheels as best as possible. This will provide the best alignment of worn Roller Wheels and maximize seed germination.

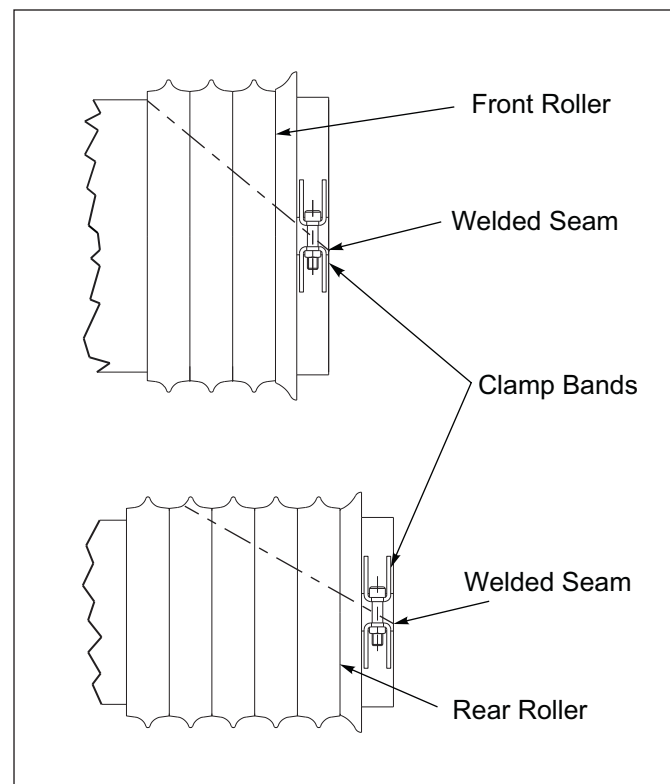


Figure 5-5: Roller Adjustment

Chain Tension

To adjust the Transmission Chain, loosen the 5/8" Idler Sprocket Axle Bolt and then adjust the Clevis Drawbolt Locknut to obtain about 1/8" - 1/4" sag. Re-tighten the Idler Sprocket Axle Bolt. Be careful not to over-tighten this chain. **See Figures 5-6 and 5-7.**

Adjust the #550 Chain between the Front Roller and Transmission by adjusting the Nylatron Tension Idler to allow approximately 2" of Total Chain Deflection.

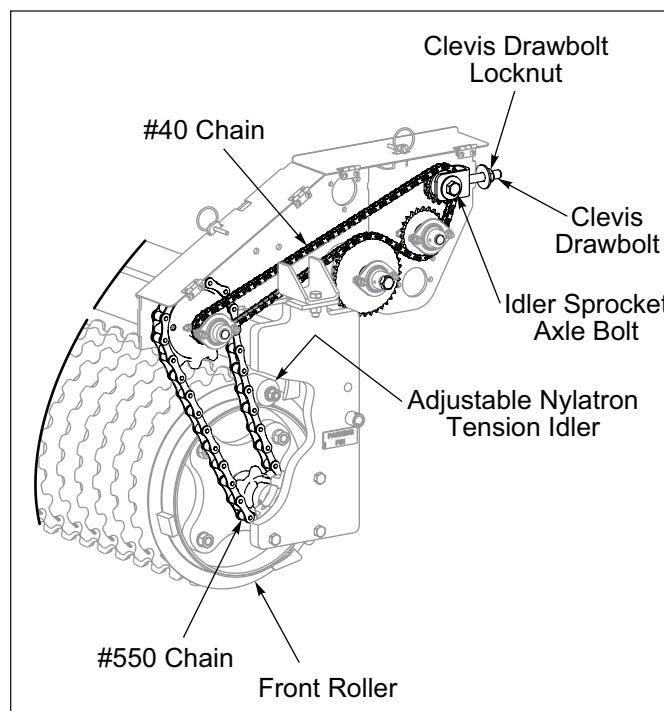


Figure 5-6: Loosen Idler Bolt

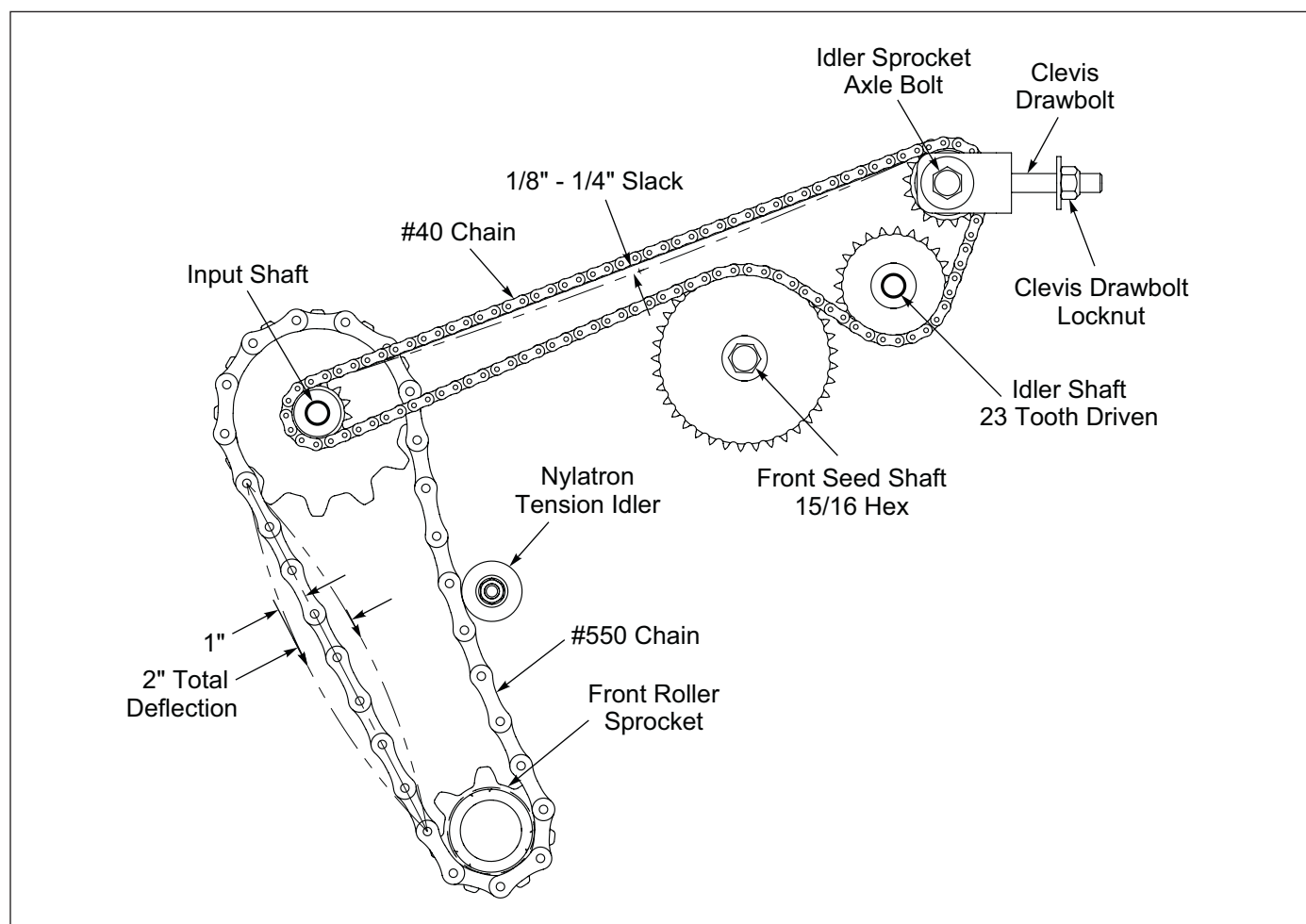


Figure 5-7: Chain Tension

Seed Meter Adjustment

IMPORTANT

The Clutch must be disengaged when Seed Shafts are turned manually for Calibration.

IMPORTANT

All the Seed Meters **MUST BE CLOSED!** It may be necessary to individually adjust Seed Meter Adapter with Seed Meter attached or Seed Meter Cup.

All Seed Meters must be set the same to ensure uniform seeding. To check, set the Seed Rate Adjusting Nut to 0-A. The "A" on the Seed Rate Adjusting Nut is positioned over the "0" (the nut covers half of the "0") and snug against the Bearing. **See Figure 5-8.**

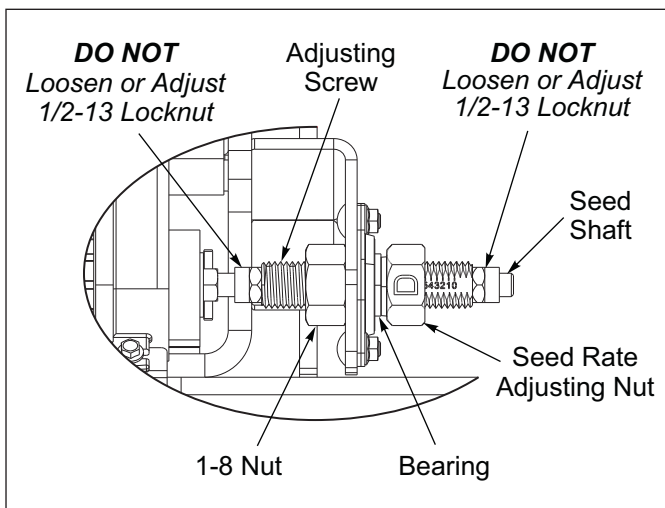


Figure 5-8: Seed Box Seed Rate Adjustment

All Seed Meters should be closed. Seed Meter Feed Shutoff against Seed Meter Cup Star Washer in Seed Meter Cup. **See Figure 5-9.** If not, there are three adjustments to make as needed.

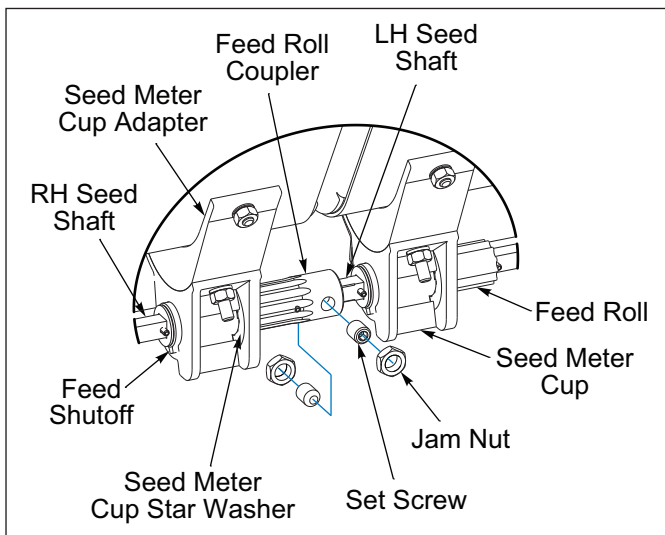


Figure 5-9: Seed Shaft Coupler

IMPORTANT

Ensure the Seed Shaft can turn freely without any binding when the Seed Meters are open or closed after servicing.

1. 1/2-13 Locknuts on both ends of the Adjusting Screw are used to adjust all Seed Meters the same amount. **See Figure 5-8.** To adjust Seed Meters to be closed at "0A", loosen 1/2-13 Locknuts and set Adjusting Screw to "0A". Slide Seed Shaft to close all Seed Meters. Tighten 1/2-13 Locknuts against Adjusting Screw.
2. Seed Box Feed Roll Coupling which joins the left and right Seed Shafts changes Seed Meters on the left Seed Box in comparison with Seed Meters on the right Seed Box. To adjust Feed Roll Coupling, loosen Jam Nuts and Set Screws on Coupling RH Seed Shaft is treaded into Coupling. Turn RH Seed Shaft threading it in or out as needed to equalize Seed Meters. Re-tighten Set Screws against flat side on Seed Shaft, re-tighten Jam Nuts. **See Figure 5-9.**
3. Individual Seed Meter Adapters with Seed Meter Cup attached or Seed Meter Cups can be adjusted as required. Adjustments can be made by loosening the 1/4-20 x 5/8 Machine Screws that mount the Seed Meter Adapter to the Seed Box and the 1/4-20 Nut that attaches the Seed Meter Support to the Seed Meter Cup. Adjust the affected Seed Meter Adapter(s) so that the Feed Cut-Off Meter is against the Meter Cup Star Washer (closed). If unable to achieve complete Feed Cut-Off closure against the Star Washer, adjust the Seed Meter Cup that is attached to the Seed Meter Adapter by loosening the 1/4-20 x 1 Machine Screws. Be sure the Feed Roll Meter stays engaged in the Meter Cup Star Washer. **See Figure 5-10.** After adjustments have been made, seal the Seed Meter Adapter(s) to the Seed Box with clear Silicone.

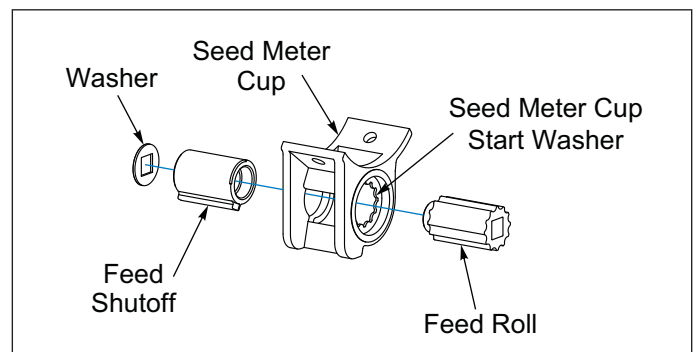


Figure 5-10: Small Seed Meter

Warning Lamps

When plugging in the 7-Pin Warning Lamp Connector:

1. Make sure the Tractor has a good clean Receptacle, free of dirt and corrosion.
2. Make sure the 7-Pin Connector is inserted ALL the way in. With tighter fitting pins, operator may think the Connector is all the way in, but it really isn't.
3. Make sure the Tractor Receptacle Cover latches over the keyway on the 7-Pin Connector to hold the Connector in place.

If an operator plugs in the 7-Pin Connector, but the lights Do Not seem to work right, check the above items to make sure there is a good connection with the 7-Pin Connector.

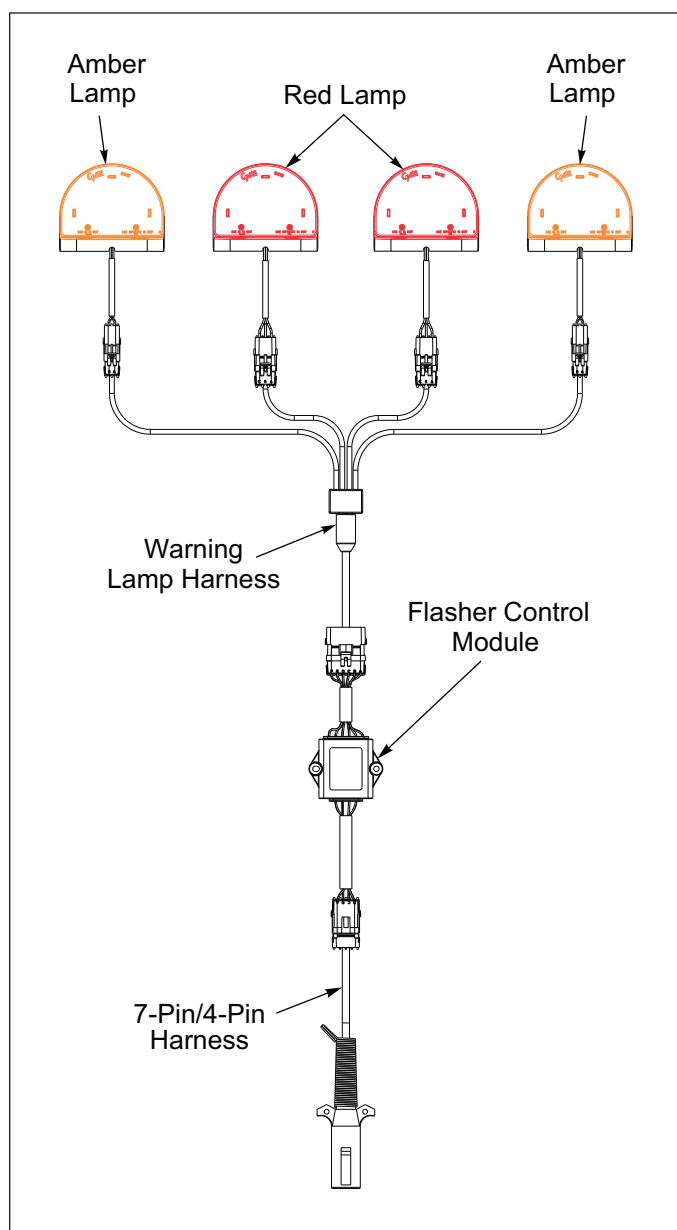


Figure 5-11: Warning Lamps

Scraper Adjustment

1. Check the Front Roller Assembly Wheels that they are tight to one another. **See “Front and Rear Roller Adjustment” on Page 5-5.**
2. Lower the implement onto level ground.
3. Verify that the Scrapers are centered as best as possible between the Roller Wheels and adjust if necessary. **See Figure 5-12.**

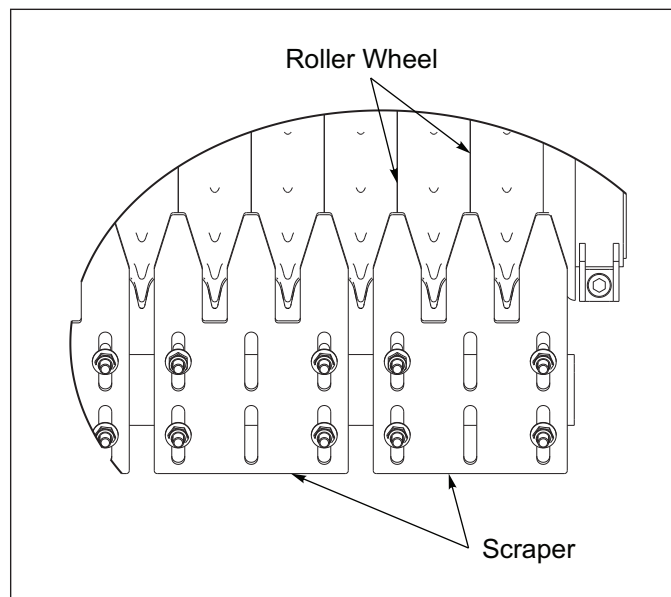


Figure 5-12: Scraper Alignment

4. Adjust the Scrapers as needed to achieve a 3/16" to 1/4" gap between the Scrapers and Roller Wheels. **See Figure 5-13.** Scrapers should be close enough to the Roller Wheels to be functional but without interference.

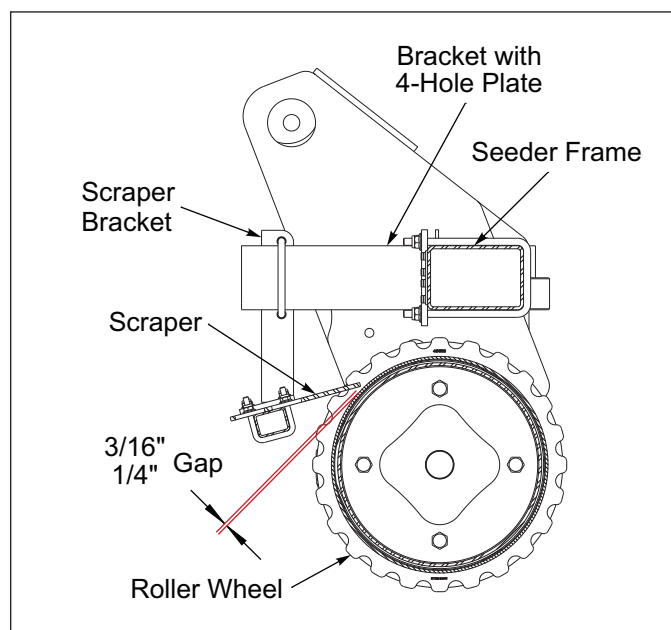


Figure 5-13: Scraper Dimensions

Electric Clutch

IMPORTANT

If your machine is equipped with an Electric Clutch at no time use high pressure water or air to clean it, as this can damage the unit.



Figure 5-14: High Pressure Warning

Acre Meter Troubleshooting

IMPORTANT

Acre Meter is dust and splash resistant, under no circumstances should this unit be submerged in any conductive, corrosive, or flammable liquid. At no time use high pressure water or air to clean it, as this can damage the unit. See Figure 5-14.

NOTE

The ground wire is for static discharge protection and has no effect on the ability of the sensor to function properly under normal conditions.

The battery operated Acre Meter uses 3 AA batteries. A low battery message appears when the batteries require replacement. Remove the Acre Meter from the machine and then the 4 Screws on the back of the case. **See Figure 3-17.** Separate the housing from the rear plate. Replace with 3 quality AA batteries.

Acre Meter does not count pulses during calibration or does not count acres during operation.

1. Check the position of the Magnet Wheel Assembly and Pick-Up Switch against the set-up instructions in this manual. **See “Acre Meter Kit, 5K275 - Optional” on Page 2-28.**
2. Verify that the magnet in the Magnet Wheel Assembly has not come out.
3. Place the Acre Meter display in “Calibrate” mode.
(AFTER 06/01/2025) Press the ***FUNC** key until the **PULSES** screen appears, then press and hold the up/down arrow buttons.

(BEFORE 06/01/2025) Press the ***FUNC** key until the **P-WORD** indicator is lit and then press the up/down arrow keys until the display shows 0 and the LED is blinking.

Break the connection between the display and the Pick-Up Switch and short between pins A and B on the display harness connector. You should see the display increment +1 with each contact of the connector terminals.

4. If Step 3 works then wave a magnet in front of the Pick-Up Switch face with it re-connected to the display and see if the display increments up. If not, put an ohm meter or continuity tester on the contacts of the Pick-Up Switch harness and place a magnet in front of the Pick-Up Switch face. The Pick-Up Switch should show continuity or near zero ohms resistance.

Acre Meter cannot change the width or pulse count settings or clear the field and total acres.

1. Check to see if a password needs to be entered.
(AFTER 06/01/2025) Press the ***FUNC** key until the **PASSWORD** screen is displayed. If **OFF** is displayed (password disabled) no password is set.
(BEFORE 06/01/2025) Press the ***FUNC** key until the **P-WORD** indicator LED is lit. If **dIS** is displayed (password disabled) no password is set.
2. If **Ent/ENTER** is displayed a password must be entered to change the settings or the password must be disabled as instructed in the setup section of this manual.

Storage

1. The service life of the Seeder will be extended by proper off-season storage practices. Prior to storing the unit, complete the following procedures:
 - Completely clean the unit, blow all seed out of Seed Meters.
 - Inspect the machine for worn or defective parts. Replace as needed.
 - Repaint all areas where the original paint is worn off.
 - Apply a light coating of oil or grease to exposed Cylinder Rods to prevent them from rusting.
 - Lubricate each point of the machine as stated in **“Lubrication Maintenance” on Page 5-3.**
2. Store the unit in a shed or under a tarpaulin to protect it from the weather. The ground engaging components and Tires should rest on boards, or some other object, to keep them out of the soil.
3. **3-PT Hitch Models:** Raise Track Removers, insert Parking Pin and Lower unit. Chock or block Roller Wheels before unhitching from Tractor.
4. **Pull Type Models:** Raise the machine and engage Transport Locks. **See Figure 3-6.** Lower Drawbar Jack.
 - Relieve Hydraulic Pressure in hoses after Transport Locks are installed.
 - Block Transport Wheels before unhitching from Tractor.

Specifications

Product Attributes	SS-2081	SSP-2081
Approximate Weight	2,906 lbs. (1,318 kg)	2,450 lbs. (1,111 kg)
Working Width	8 ft. 0 in. (2.4 m)	8 ft. 0 in. (2.4 m)
Transport Width	11 ft. 5 in. (3.43 m)	9 ft. 5 in. (2.87 m)
Transport Height	6 ft. 0 in. (1.83 m)	Tractor Dependent
Road Clearance	1 ft. 3 in. (0.4 m)	Tractor Dependent
Overall Height	4 ft. 3 in. (1.3 m)	4 ft. 3 in. (1.3 m)
Overall Length	11 ft. 9 in. (3.6 m)	5 ft. 8 in. (1.8 m)
Seed Box	All Steel Construction with Cover	All Steel Construction w/ Cover
Seed Box Capacity - Meter Box	15 bu.	15 bu.
Seed Meters	"Micro-Meter"	"Micro-Meter"
Seed Meter Drive	Ground Driven	Ground Driven
Seed Meter Spacing	4.25 in. (108 mm)	4.25 in. (108 mm)
Seed Delivery	Broadcast w/ Wind Deflector Tray	Broadcast w/ Wind Deflector Tray
Pulverizer Roller - Front	15.75 in. (400 mm) Gray Cast Iron	15.75 in. (400 mm) Gray Cast Iron
Pulverizer Roller - Rear	11.5 in. (292 mm) Gray Cast Iron	11.5 in. (292 mm) Gray Cast Iron
Pulverizer Axle Bearings	Greaseable	Greaseable
Pulverizer Axle Size - Front	12.75 in. (324 mm)	12.75 in. (324 mm)
Pulverizer Axle Size - Rear	8.625 in. (219 mm)	8.625 in. (219 mm)
Hitch	Pull-Type with Hydraulic Transport	Three-Point Hitch - Cat. II Free Link; Cat. II, IIIN Quick Coupler Hitch
Hydraulic Equipment	Cylinders with Hoses to Hitch Point	N/A
Tire Size	9.5L x 15-8 Ply Implement Rib	N/A
S-Tine Wheel Track Remover	Optional	Optional
Coil Tine Track Remover	Optional	Optional
Electronic Acre Meter	Optional	Optional
Factory Installed Electric Clutch	Standard	Standard
Seed Shaft Monitor Kit	Optional	Optional
Safety Warning Lights & SMV Emblem	Standard	Standard
Safety Chain Kit	Standard	N/A
Powder Coat Paint, Red	Standard	Standard
Horsepower Requirements	6 to 8 HP (4.5 to 6 kW) per ft.	6 to 8 HP (4.5 to 6 kW) per ft.
Recommended Operating Speed	3 to 6 MPH (5 to 10 km/h)	3 to 6 MPH (5 to 10 km/h)

Specifications subject to change with or without notice.

Figure 6-1: 8FT Model Specs

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Product Attributes	SS-2101	SSP-2101
Approximate Weight	3,323 lbs. (1,507 kg)	2,877 lbs. (1,305 kg)
Working Width	10 ft. 0 in. (3.0 m)	10 ft. 0 in. (3.0 m)
Transport Width	13 ft. 4 in. (4.06 m)	11 ft. 4 in. (3.4 m)
Transport Height	6 ft. 0 in. (1.83 m)	Tractor Dependent
Road Clearance	1 ft. 3 in. (0.4 m)	Tractor Dependent
Overall Height	4 ft. 3 in. (1.3 m)	4 ft. 3 in. (1.3 m)
Overall Length	11 ft. 9 in. (3.6 m)	5 ft. 8 in. (1.8 m)
Seed Box	All Steel Construction with Cover	All Steel Construction with Cover
Seed Box Capacity - Meter Box	19 bu.	19 bu.
Seed Meters	"Micro-Meter"	"Micro-Meter"
Seed Meter Drive	Ground Driven	Ground Driven
Seed Meter Spacing	4.25 in. (108 mm)	4.25 in. (108 mm)
Seed Delivery	Broadcast w/ Wind Deflector Tray	Broadcast w/ Wind Deflector Tray
Pulverizer Roller - Front	15.75 in. (400 mm) Gray Cast Iron	15.75 in. (400 mm) Gray Cast Iron
Pulverizer Roller - Rear	11.5 in. (292 mm) Gray Cast Iron	11.5 in. (292 mm) Gray Cast Iron
Pulverizer Axle Bearings	Greaseable	Greaseable
Pulverizer Axle Size - Front	12.75 in. (324 mm)	12.75 in. (324 mm)
Pulverizer Axle Size - Rear	8.625 in. (219 mm)	8.625 in. (219 mm)
Hitch	Pull-Type with Hydraulic Transport	Three-Point Hitch - Cat. II Free Link; Cat. II, IIIN Quick Coupler Hitch
Hydraulic Equipment	Cylinders with Hoses to Hitch Point	N/A
Tire Size	11L x 15-12 Ply Implement Rib	N/A
S-Tine Wheel Track Remover	Optional	Optional
Coil Tine Track Remover	Optional	Optional
Electronic Acre Meter	Optional	Optional
Factory Installed Electric Clutch	Standard	Standard
Seed Shaft Monitor Kit	Optional	Optional
Safety Warning Lights & SMV Emblem	Standard	Standard
Safety Chain Kit	Standard	N/A
Powder Coat Paint, Red	Standard	Standard
Horsepower Requirements	6 to 8 HP (4.5 to 6 kW) per ft.	6 to 8 HP (4.5 to 6 kW) per ft.
Recommended Operating Speed	3 to 6 MPH (5 to 10 km/h)	3 to 6 MPH (5 to 10 km/h)

Specifications subject to change with or without notice.

Figure 6-2: 10FT Model Specs

TABLE OF CONTENTS

Product Attributes	SS-2121	SSP-2121
Approximate Weight	3,894 lbs. (1,767 kg)	3,516 lbs. (1,595 kg)
Working Width	12 ft. 0 in. (3.6 m)	12 ft. 0 in. (3.6 m)
Transport Width	15 ft. 4 in. (4.67 m)	13 ft. 4 in. (4.06 m)
Transport Height	6 ft. 0 in. (1.83 m)	Tractor Dependent
Road Clearance	1 ft. 3 in. (0.4 m)	Tractor Dependent
Overall Height	4 ft. 3 in. (1.3 m)	4 ft. 3 in. (1.3 m)
Overall Length	11 ft. 9 in. (3.6 m)	5 ft. 8 in. (1.8 m)
Seed Box	All Steel Construction with Cover	All Steel Construction with Cover
Seed Box Capacity - Meter Box	23 bu.	23 bu.
Seed Meters	"Micro-Meter"	"Micro-Meter"
Seed Meter Drive	Ground Driven	Ground Driven
Seed Meter Spacing	4.25 in. (108 mm)	4.25 in. (108 mm)
Seed Delivery	Broadcastw/ Wind Deflector Tray	Broadcast w/ Wind Deflector Tray
Pulverizer Roller - Front	15.75 in. (400 mm) Gray Cast Iron	15.75 in. (400 mm) Gray Cast Iron
Pulverizer Roller - Rear	11.5 in. (292 mm) Gray Cast Iron	11.5 in. (292 mm) Gray Cast Iron
Pulverizer Axle Bearings	Greaseable	Greaseable
Pulverizer Axle Size - Front	12.75 in. (324 mm)	12.75 in. (324 mm)
Pulverizer Axle Size - Rear	8.625 in. (219 mm)	8.625 in. (219 mm)
Hitch	Pull-Type with Hydraulic Transport	Three-Point Hitch - Cat. II Free Link; Cat. II, IIIN Quick Coupler Hitch
Hydraulic Equipment	Cylinders with Hoses to Hitch Point	N/A
Tire Size	11L x 15-12 Ply Implement Rib	N/A
S-Tine Wheel Track Remover	Optional	Optional
Coil Tine Track Remover	Optional	Optional
Electronic Acre Meter	Optional	Optional
Factory Installed Electric Clutch	Standard	Standard
Seed Shaft Monitor Kit	Optional	Optional
Safety Warning Lights & SMV Emblem	Standard	Standard
Safety Chain Kit	Standard	N/A
Powder Coat Paint, Red	Standard	Standard
Horsepower Requirements	6 to 8 HP (4.5 to 6 kW) per ft.	6 to 8 HP (4.5 to 6 kW) per ft.
Recommended Operating Speed	3 to 6 MPH (5 to 10 km/h)	3 to 6 MPH (5 to 10 km/h)

Specifications subject to change with or without notice.

Figure 6-3: 12FT Model Specs

Instructions for Ordering Parts

**** Repair parts must be ordered through an Authorized Dealer ****

DEALER INSTRUCTIONS FOR ORDERING PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

Phone: 800-423-4320 or 785-562-5381

Fax: 888-527-3909

Order online: dealer.landoll.com

DATA PLATE

The Data Plate, which lists the model and serial number of the equipment, is located on the right side of the Sure Stand Seeder.

SERIAL NUMBER NOMENCLATURE

The following information will help decode the Landoll serial number.

ASD2100100 = xxmysssss

xx	= model series (i.e. "AS" for all AG Seeders)
m	= month of manufacture (ex. "D" means April. The letter I is not used.)
yy	= last digits of the year manufactured (ex. "21" means 2021)
sssss	= Sequential number used to track warranty and service information.

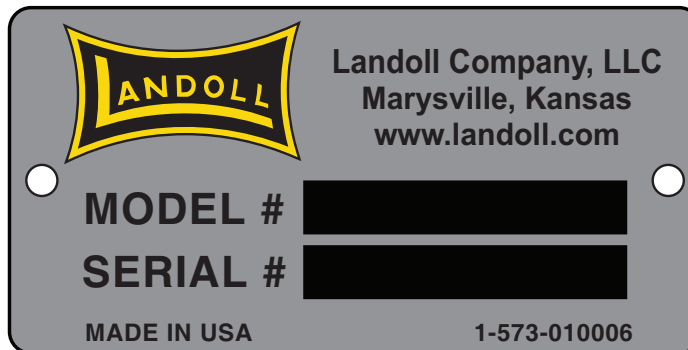


Figure: Data Plate

Manuals for High Capacity Sure Stand Seeder, Models SS2081/SS2101/SS2121 and SSP2081/SSP2101/SSP2121

Manual Number	Manual Type
1P126	Operator's Manual
1P125	Parts Manual

Document Control Revision Log:

Date	Form #	Improvement(s): Description and Comments
05/29/2008	506rev5-29-08	Initial Release
07/2011	506rev0711	Improved Pictures and Drawings. Incorporated ECN 35017
10/2013	506rev1013	Added LED Warning Lamps
06/2021	1P126-0621	ECN 47093 - Hub & Spindle Asm Update to 6 Bolt
05/2022	1P126-0522	ECN 46900, 47696 - Add Brillion Elite Mini Monitor by Loup ECN 47474 - Add QR Code Decal Add Seed Shaft Decal Changes to LED Installation Changes to "Loup Acre Meter Kit" (Revised 01/2023)
06/2023	1P126-2306	Added "Tube Mounted Scraper Kits" *Revision Format "Year/Month" ECN 49503 - Decal Change (Revised 11/2023) Updated ISO logo to ISO 9001:2015 (Revised 04/2024) Updated Torque Chart Formats (Revised 01/2025)
06/2025	1P126-2506	ECN 50859 - 4 Channel Acre Meter Console
09/2026	1P126-2609	ECN 51971, 51987, 51991, 52003, 52008, 52033, Frames, Support Brackets, Transmission Carriage Bolts, Warning Light Asm



intertek

Equipment from Landoll Company, LLC is built to
exacting standards ensured by ISO 9001:2015 registration
at all Landoll manufacturing facilities.

**High Capacity
Sure Stand Seeder
Models SS2081/SS2101/SS2121
SSP2081/SSP2101/SSP2121
Operator's Manual
Re-Order Part Number 1P126**

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