FIELDRUNNER

HEADER TRANSPORTS

FIELDRUNNER HEADER TRANSPORT MAINTENANCE

TRANSPORTATION

INNOVATING THE FUTURE OF AGRICULTURE

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General Maintenance Information

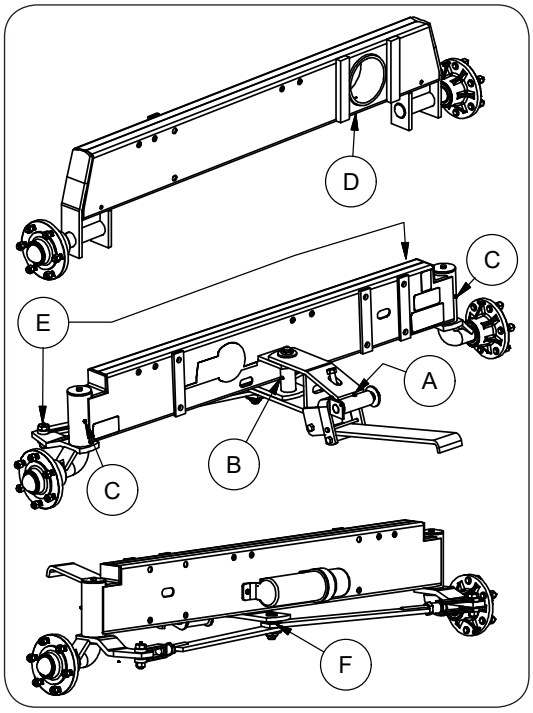
For running gear and bearing longevity, as well as ease of operation, periodic lubrication is essential. This also helps to flush out moisture and dirt. Lubricate with an SAE multi-purpose grease.

Primary Lube Points Lube Cycle

A. Tongue Hitch Pin (End of Steering Hinge) - 1 Point, Grease, Once/Year
B. Steering Hinge Pin (Front of Front Frame) - 1 Point, Grease, Once/Year
C. Spindle Bearings (Both Ends of Front Axle) - 2 Points, Grease, Once/Year
D. Swivel Trunnion (Rear End of Rear Axle) - 1 Point, Grease, Once/Year
E. Shoulder Bolts (Both Ends of Front Axle) - 2 Points, Grease, Once/Year
F. Steering Hinge Rear Pin (Tie Rod Connection) - 1 Point, Anti-Seize Lubricant, Every 2 Years

Tie rod center pivot pin lube procedure:

1. On each tie rod, remove locknut from shoulder bolt connecting tie rod clevis to spindle arm.
2. Thread shoulder bolt out of tie rod clevis.
3. Remove 7/8” locknut from steering clevis, remove both tie rods. If necessary to remove tie rods, gently tap down on tie rod near steering clevis while rotating back and forth.
4. Once removed, apply Anti-Seize Lubricant to 7/8” diameter pin on rear of steering clevis, as well as inside of both tie rod 7/8” holes.
5. Re-assemble parts removed in steps 1-3.



Miscellaneous Lube Points

Extension Part of Extendable Tongue Oil or Grease When Needed

Wheel Bearing - 8 Points Repack Grease Yearly

The wheel bearings should be cleaned, replaced, and adjusted once per season. Use a number 2 wheel bearing grease to repack the bearings and adjust the bearing to a free rolling fit with no end play.

IMPORTANT

- *For maximum bearing life, never tow the header transport in excess of 20 m.p.h.*

Periodically during usage, check the following:

1. Tongue pivot pin.
2. Tie rod connections at radius arm and at steering hinge.
3. Check all hardware for tightness
4. Tire pressure -- follow manufacturer's specification (too high or too low pressure causes abnormal tread wear).
5. Wheel lug nuts -- wheel torque requirements.

After each season:

1. Check welds on front and rear axles of the lower rest tube and brace tube.
2. Tie rods -- adjust to minimum 1/8" toe-in (1/8" to 1/4" toe measured at tires).
3. It is recommended for improved tire life that tires be rotated diagonally.

Storage

Your implement is an important investment. Spend a little time to protect it from destructive rust and corrosion. You will be repaid in longer service life and better performance.

Before placing the implement in storage:

1. Repaint any chipped or scraped areas.
2. Inspect for damaged or worn parts. Replace before next season.
3. Store implement inside, away from livestock.
4. Use blocking to keep implement tires off bare ground.

Wheels and Tires

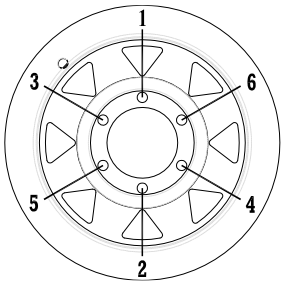
Wheel Nut Torque Requirements

⚠ CAUTION

- **IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. TORQUE WHEEL NUTS/BOLTS TO VALUES IN TABLE. CHECK TORQUE BEFORE USE, AFTER ONE HOUR OF UNLOADED USE OR AFTER FIRST LOAD, AND EACH LOAD UNTIL WHEEL NUTS/BOLTS MAINTAIN TORQUE VALUE. CHECK TORQUE EVERY 10 HOURS OF USE THERE-AFTER. AFTER EACH WHEEL REMOVAL START TORQUE PROCESS FROM BEGINNING. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL NUTS/BOLTS.**

Failure to check torque before first load may damage wheel nut/bolt seats. Once seats are damaged, it will become impossible to keep nuts/bolts tight. Tighten nuts/bolts to applicable torque value shown in table. Start all nuts/bolts by hand to prevent cross threading. Torque nuts/bolts in the recommended sequence as shown in Diagram 1.

WHEEL HARDWARE	
SIZE	FOOT-POUNDS
1/2-20 (UNF)	75 ft.-lbs.



6 BOLT

DIAGRAM 1

Wheels and Tires (continued)

Tire Pressure

The following is to be used as a general guide for tire inflation and figures can vary depending on specific brand of tire used. It is important that tires are inspected after Seed Runner is loaded. Start with minimum pressure indicated. The tire should stand up with no side-wall buckling or distress as tire rolls. Record the pressure needed to support the full load and maintain this pressure to achieve proper tire life. Do not exceed maximum recommended tire pressure.

MODEL	TIRE SIZE & PRESSURE
HT-25 (Standard)	225/55B12 — 100 PSI
HT-30 (Standard)	
HT-36 (Standard)	
HT-25 (Option)	11L-15 F-Range — 90 PSI
HT-30 (Option)	
HT-36 (Option)	
HT-42 (Standard)	

(All tire pressures in PSI)

Wheels and Tires (continued)

Tire Warranty

For questions regarding new tire warranty, please contact your local original equipment tire dealer. Used tires carry no warranty. Following are phone numbers and Websites for your convenience:

Firestone	www.firestoneag.com Phone 800-847-3364
Titan or Goodyear	www.titan-intl.com Phone 800-USA-BEAR Fax 515-265-9301
Kenda /Americana Tire & Wheel	www.americanatire.com Phone 800-225-4714
Carlisle	www.carlisletire.com Phone 800-260-7959 Fax 800-352-0075
Greenball (Towmaster)	www.greenball.com Phone nearest location: California 800-937-5204 Georgia 800-283-4569 Florida 800-935-0200 Indiana 800-426-4068 Tennessee 800-946-9412 Ohio 800-840-7295 Pennsylvania 800-869-6787

Complete Torque Chart – Capscrews - Grade 5

IMPORTANT

- *Grade 5 capscrews can be identified by three radial dashes on head.*
- *For wheel torque requirements, refer to Wheels and Tires.*
- *Tighten U-bolts to have the same number of threads exposed on each end.*

SIZE	FOOT POUNDS	NEWTON METERS	SIZE	FOOT POUNDS	NEWTON METERS
1/4-20 1/4-28	8-10 9-11	11-13 12-15	3/4-10 3/4-16	200-220 210-230	270-300 285-310
5/16-18 5/16-24	15-17 17-19	20-23 23-26	7/8-9 7/8-14	330-350 360-380	425-475 460-515
3/8-16 3/8-24	25-28 28-31	34-38 38-42	1-8 1-14	500-525 540-560	675-710 730-760
7/16-14 7/16-20	40-45 45-50	54-61 61-68	1 1/8-7 1 1/8-12	600-635 665-700	815-860 920-950
1/2-13 1/2-20	62-68 68-75	84-92 92-102	1 1/4-7 1 1/4-12	850-895 940-990	1150-1215 1275-1340
9/16-12 9/16-18	90-98 100-110	22-133 134-148	1 3/8-6 1 3/8-12	1125-1175 1280-1335	1525-1590 1735-1810
5/8-11 5/8-18	120-135 124-137	162-183 168-186	1 1/2-6 1 1/2-12	1500-1560 1685-1755	2035-2115 2285-2380

Adjusting Front Wheel Toe-In

IMPORTANT

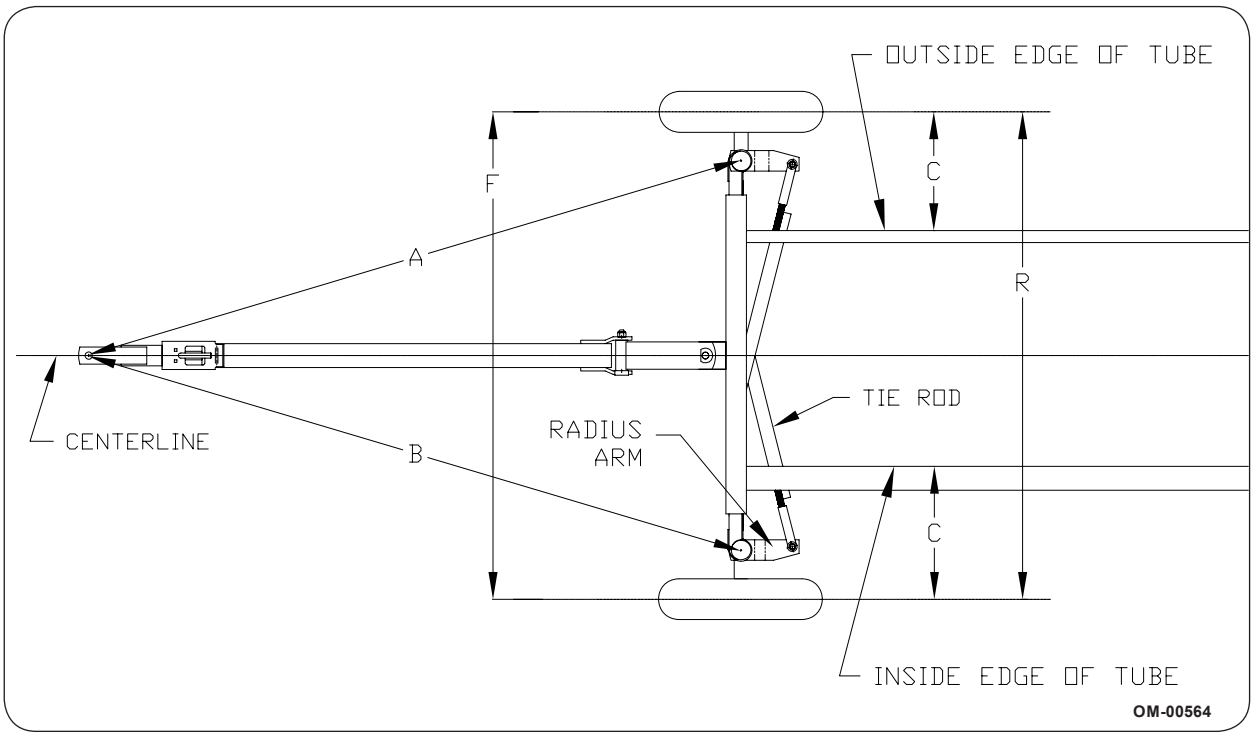
- *After first use, recheck toe-in. Front wheel toe-in has been preset at the factory. If adjustment becomes necessary, use the following procedure.*

1. Place the tongue in a straight and horizontal position. This can be checked by measuring reference lines "A" and "B". These measurements are the same when the tongue is straight forward.

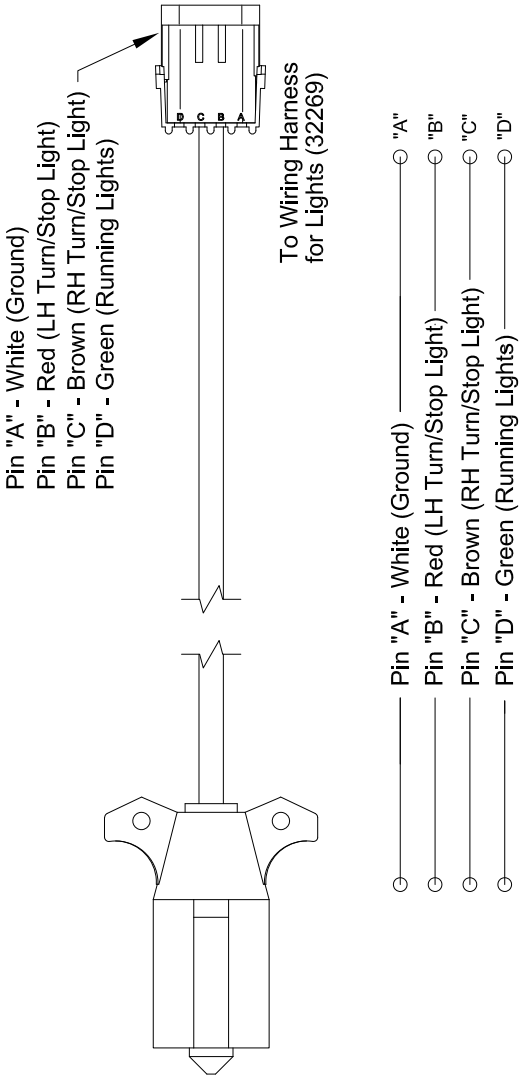
2. Measure the distance between the front wheels at the centerline of the tires, Front (F) and Rear (R). Measurement "R" should be 1/8" to 1/4" longer than measurement "F" for proper toe-in.

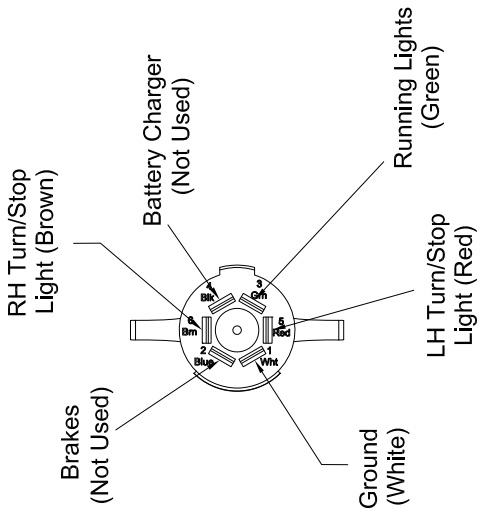
3. If not, loosen locknut on tie rod and remove bolt at radius arm, adjust tie rod as needed. Reassemble bolt at radius arm and recheck dimensions. Tighten all hardware after proper adjustment.

NOTE: Tie rods must be adjusted equally, so that dimension "C" is the same on both sides.

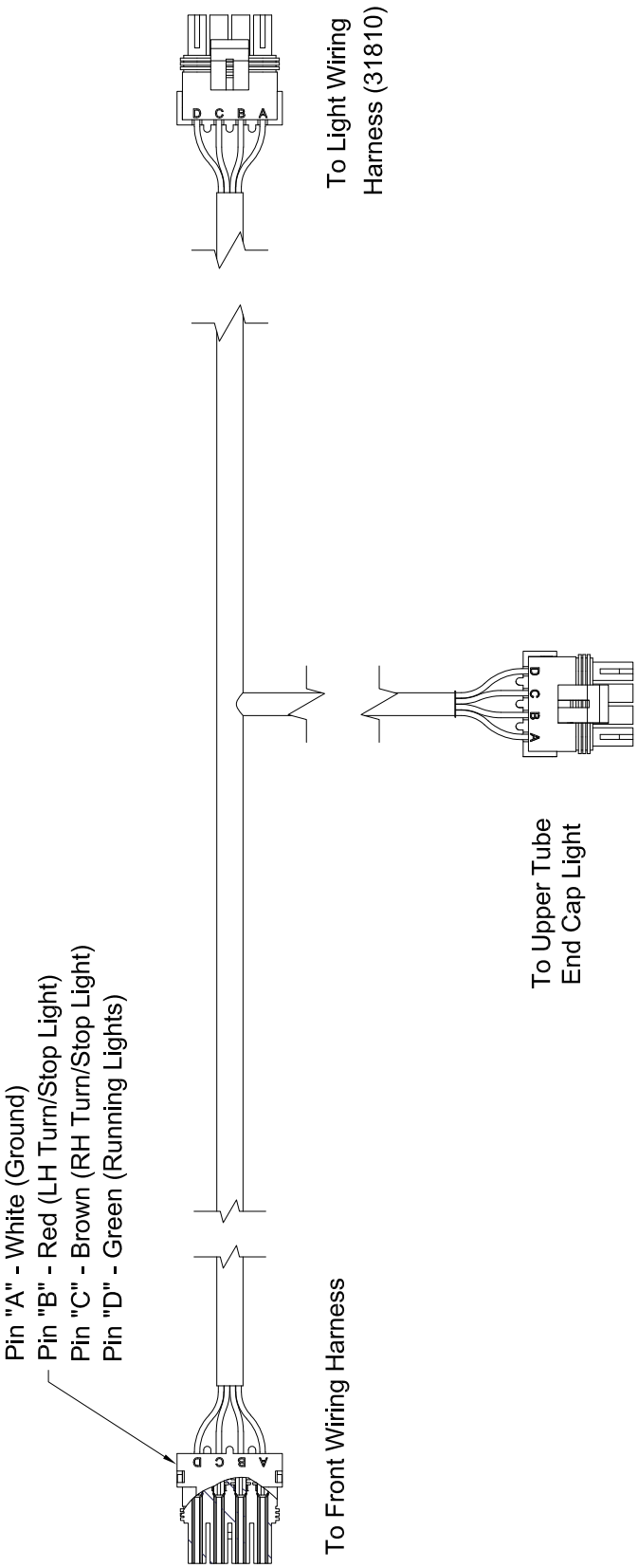


Front Harness for Non-Brakes Electrical Schematic (#902364)





Light Harness Electrical Schematic (#32269)



Rear Light Harness Electrical Schematic (#31810)