Procedure for Inspection and Adjustment of Brake

Objectives:

A. Check that brake pedal is in forward position.
B. Determine that brake caliper is in good operating condition and if Belleville washers are under the castle nut.
C. Includes installation of Belleville washers.
D. Check that correct nut is installed on rear stop of brake.

Procedure:

1. Block front wheels. Put transmission in neutral. Jack up one rear wheel on brake side of tractor. Remove tire.

2. Check pedal position as follows -
   (a) Remove return spring on brake.
   (b) Remove cotter pin and tighten castle nut until no clearance in brake pads or until disk will not spin.
   (c) Check pedal position. Top portion of pedal arm should be vertical with respect to frame or forward of vertical position.

3. If pedal is to the rear of tractor (negative position) a new brake rod will be required which should be 3/16" longer than original rod.

4. Inspect brake calipers.
   Remove castle nut and washer.
   Pull cam away from caliper and push spring away from caliper and examine for cracks on face of caliper. Attempt to wiggle center pin. If pin wiggles or cracks are observed replace caliper unit.

5. Install new caliper if required. Caliper assembly must float freely from side to side. Install new brake rod if required. To replace brake rod, two push nuts must be removed, one on each end of rod. Remove push nuts with pliers or cut off. Use new push nuts on new rod.

   If new caliper assembly is replaced, it is necessary to lift frame off transaxle 1/2".

   Loosen 4 hold-down bolts (2 on each side) of transaxle. Lift up brake side of frame and insert 1/2" block between frame pad and transaxle pad.

   Back out 2 bolts holding brake caliper assembly to transaxle and slide out caliper assembly (caliper and 2 brackets). Install new caliper assembly and then make certain frame and transaxle are bolted together before adjusting brake.

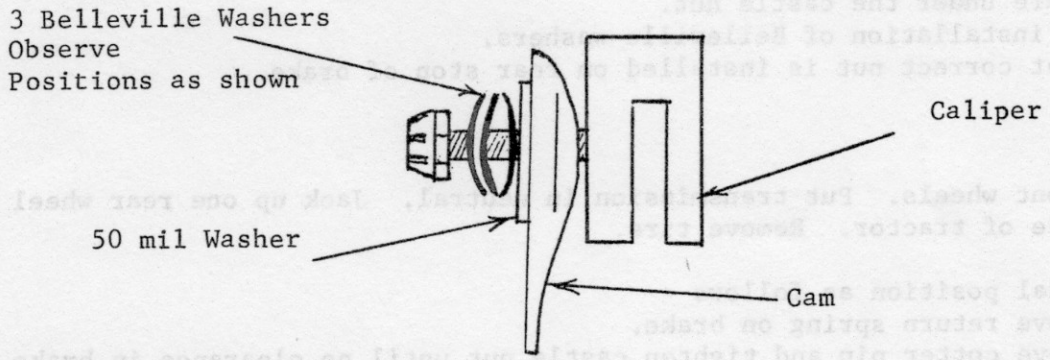
6. Inspect stop nut. Correct stop nut will have red plastic insert in face of nut.

   Stop Nut Description - 211A3582
   ESNA Corp. Cat. #21NU-058
   5/16-18 UNC - 3B - Prevailing torque type

   Replace if red insert not in face of nut.

7. Adjust stop nut:
   Tighten castle nut on caliper until disk does not spin.
   Adjust stop nut until it touches or comes close to cam.

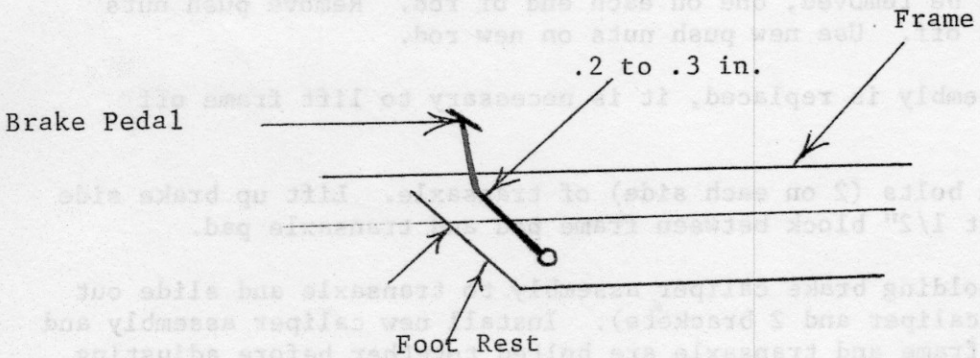
8. Install three (3) Belleville washers and one (1) 50 mil thick flat washer as follows:



9. Adjust Brake:
   (a) Finger tighten castle nut.
   (b) Slowly loosen castle nut until pedal touches foot rest.
   (c) Tighten castle nut 2 turns. Install cotter pin. Reverse castle nut if no room for cotter pin.
   (d) Wheel or disk should spin freely. If wheel does not spin freely, loosen castle 1/6 of a turn. Do not loosen castle nut more than 1/2 turn.
   (e) Reconnect return spring.

10. Adjust brake switch. The brake switch is normally closed. The switch should open and disconnect drive motor when the pedal is .2 to .3 inches off the stop (foot rest).

    Adjust the shoulder bolt on the brake pawl to trip the switch when pedal is .2 to .3 inches off the stop.



    With the power disconnect out, the opening of the brake switch can be detected by removing the switch wires and clipping the volt-ohm-millimeter (VOM) leads to the switch terminals. Using the VOM on the RX10 setting, depress the pedal until the meter pointer deflects and re-adjust shoulder bolt to obtain the .2 to .3 inches as required.

11. Test brake: In D2 position on transmission and throttle in fastest position, you should be able to lock up and skid wheels on dry pavement or concrete. Motor must trip off line when brake is depressed to stop.

UPDATE and AUDIT CLAIM FORM and CHECK LIST

Tractor Serial No. FN 10261

Power Pack: Standard ☐ H.D. ☐

Owner Name _____

Address _____

_____

Dealer Name _____

Address _____

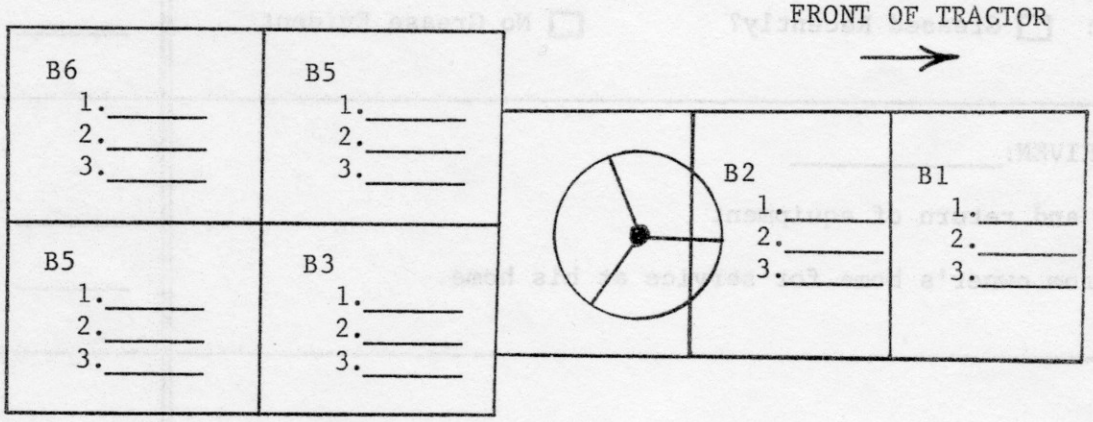
_____

TRACTOR UPDATE	OK As Found	Change Made	Factory Use Only
Brake Rod	☐	☐	_____
Belleville Washers and Stop Nut	☐	☐	_____
Brake Caliper	☐	☐	_____
Change Battery Caps	☐	☐	_____

Check Cell Specific Gravity at a Temperature of _____ °F

RECORD HERE

FRONT OF TRACTOR



USE THIS BATTERY LAYOUT TO
RECORD SPECIFIC GRAVITY READINGS

MOWER UPDATE	Already Added	Installation Made	Factory Use Only
Rear Roller	☐	☐	_____
Guide Bar	☐	☐	_____
Grass Deflector	☐	☐	_____
Mower Epoxy Bonding	☐	*	

*Record this modification on the enclosed Mower Record Sheet for warranty claim credit.

(MORE ON REVERSE SIDE)

Factory Use Only

AUDIT - (Correct if required and note details under "Comments".

Reverse Relay: ☐ OK ☐ Replaced. Why?_____

Speed Control: ☐ OK ☐ Improper Operation. Why? _____

Reverse Switch Leaf: ☐ OK ☐ Out of alignment (adjust)

Rear Wheel Hubs: Flush with Axle ends - Yes ☐ No ☐

Modified with Loctite Kit - Yes ☐ No ☐

Lift Strap: ☐ OK ☐ Replaced. Why? _____

Drive Belts: ☐ OK ☐ Loose? (Adjust) Condition? _____

Disconnect: ☐ Original Push-Pull Type ☐ OK ☐ Replaced

Lubrication: ☐ Greased Recently? ☐ No Grease Evident

TOTAL MILEAGE DRIVEN:_____

For Pick-up and return of equipment _____

or to and from owner's home for service at his home. _____

COMMENTS:

Return To: Product Service, General Electric Co., Outdoor Power Equipment Operation
702 Corporations Park, Schenectady, New York 12305