Complete Brake Service

Part II

This series will continue to cover most brake systems of the 1920s and 1930s, with applicability to later hydraulic systems as well.

TROUBLESHOOTING

What To Look For What To Do **Squealing Brakes** 1. Ends of band touching drum Bend out points 2. High areas of unequal pressure Readjust 3. Pebbles or sand Remove: clean lining 4. Twisted bands Straighten 5. Unequal adjustment Adjust 6. Worn anchor pins Renew or build u A not infrequent cause of trouble Rerivet or reline is bent levers as shown. 10. Glazed or hard lining Reline 11. Eccentric or distorted drum True up drum 12. Loose wheels or wheel bearings Tighten **Brakes Chatter** 13. Loose lining Tighten or reline 14. Anchor pin twisted Straighten 15. Worn anchor pins Renew or build up Pedal depressor device. Every 16. Weak rear chassis springs Add extra leaves brake shop should have at least 17. Too little clearance Adjust 18. Too much clearance on lower half of band Adjust 19. Improper leverage Check up 20. Action of some lining dopes Reline One Brake Grabs 21. Band twisted Straighten 22. Gummed surface Clean or reline 23. Rear axle housing loose on springs Repair 24. Equalizer rusted or off center Free up and adjust One Brake Slips 25. Lining saturated with grease Clean or reline Equalizer off center 26. Adjust 27. Band out of shape Reshape **Brakes Not Holding** 28. Lining worn Reline 29. Lining glazed When other remedies for inequal-30. Rivets on contact with drum ization fail, check for flexing or 31. Drums scored Turn down and use twisting cross shafts as above. thicker lining or replace

Check up and lubricate all working parts

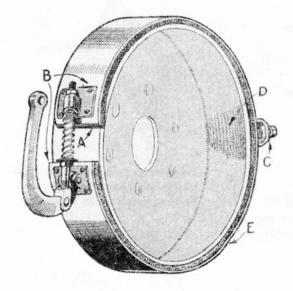
32.

Wrong leverage

Troubleshooting Explanations

Squealing Brakes

- The points of the band are very frequently 1. bent when the lining is applied. The levers on the bands are so shaped in many instances that they force the points to the drum before lifting the lower section or drawing down the upper.
- If split rivets are used. If the treatment flows 2. under heat and cools in bunches.
- 3. Hard spots rubbing on metal.
- 4. Cause uneven pressure on the drum, which vibrates and sets up a squeal.
- 5. Same as No.4.
- 6. When an anchor pin is worn the band has no rigid support. This lets it grab at any angle it happens to be riding in at the time the pedal is depressed.
- 7. Bands frozen at the anchors give only a point application.
- Twisted anchor pins give only an inner and outer application. This is one of the most mon causes for squeal and failure to hold when we
- 9. Metal to metal.
- 10. Cause a lubricating bearing instead of braking friction
- Drums are made eccentric by unequal pressure of brakes when drum has been heated by severe braking or by a locked brake.
- 12. Same as No.4.



Brakes Chatter

- 13. With-a loose lining you have no solid hold on the brake at the contact point.
- 14. Give only an edge application which is not constant.
- 15. Give the band a chance to work so that the pressure is not constant.
- Weak rear springs allow so much lifting of the wheels from the road surface that there is a constant locking and sliding and rolling of brake.
- Apparently does not allow the arms on the band to be brought ahead far enough to maintain a steady pressure.
- Causes the top section to do most of the work and this top section is insufficient to hold steadily.
- 19. Same as No.4.
- 20. Action of heat on its contents.

One Brake Grabs

- 21. Not enough friction to equalize with other bands.
- 22. Same as No.4.
- 23. Axle moves causing a variation of adjustment.
- 24. Applies brakes unevenly.

One Brake Slips

- 25. Lack of frictional surface.
- 26. Applies brake on one side only.
- 27. Friction on one side only.

Troubles Common to the Band Adjustment

- A- Ends of band bent inward
- Band twisted
- Loose, twisted or frozen anchor D- Eccentric drum
- E- Band dented or bent

Hydraulic Brakes

Trouble

Tank pump ineffective

Car pulls to one side

Chronic leakage

Cause

Too much lining-to-drum clearance. Defective pump plunger Foreign matter on lining or loose axle mechanism Pitted or oversize cylinder.