## Bendix Rules: Important

When the shoe operating cam has a long and a short side, long side (side with greatest lift) always operates the primary shoe as shown in Fig. N29I.

Correct cam installation on double anchor Duo-Servo models is as follows: with both shoes against their anchors and the crankpin central between anchor pins, the center cam block should contact the primary shoe and the outer block the secondary shoe. On models with self-aligning cams (super servo), correct cam position is as shown in Fig. N15, Page 50.

- The primary shoe may be identified as the one that is carried away from the cam (or wheel cylinder), due to drum rotation when brakes are applied, car going forward.
- The secondary shoe on two-shoe models may be identified as the one that is carried toward the cam (or wheel cylinder), due to drum rotation when brakes are applied, car going forward.
- The secondary shoe on three-shoe models is the center one of the three shoes. Fig. N291.
- On some two-shoe models the secondary shoe is stamped with an "S" and the primary with a "P" as shown in Fig. N29D, Page 58.
- 6. Two shoe-to-anchor springs are used on all

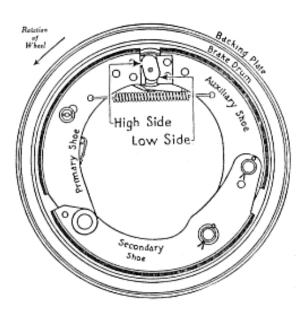


Fig. N291—Three-shoe model showing correct shoe-cam position

single anchor Duo-Servo brakes except the hydraulically actuated and those with non-a justable anchors as on Willys models 66D, 96 97D, 98D, 90 and 95 which use only one sprin

6A. When two shoe-to-anchor springs are use the heavier one is always connected to the shwhich "hides" the operating lever. This rapplies to both front and rear brakes. The a rangement improves braking in reverse get

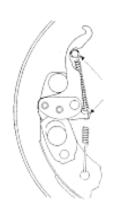


Fig. N29J—Open side of springs should face anchors as shown

- Double anchor Duo-Servo models having t cable and conduit type of cam control also t only one spring which is always connected the secondary shoe at both front and re brakes. See Fig. N29D, Page 58.
- 8. Car manufacturers recommendations son times call for the use of a different lining the secondary shoe. This applies to three-sh and two shoe models. Usually the lining secondary in such cases is denser and son times of lower friction coefficient.
- Cable return springs should always be install
  with the open side of the spring hook towa
  the anchor pins as in Fig. N29J. This is impe
  tant. Reverse installation invites freque
  breakage in service.
- 10. When assembling the star wheel adjust mechanism (on all two shoe Bendix brakes) the brake shoes, the grooved end should assembled to the primary shoe on the k wheels and the secondary shoe on the riwheels. Using this method the hand end of justing tool will always be moved toward axle of the car to expand the shoes.

## Bendix Service Notes

## Drum Thickness

After a brake drum has been rebored, the metal at the braking surface may be reduced so the drum at that point is too weak to give the required braking results. A new drum should be installed.

Should the thickness, when measured with a micrometer, be less than the minimum thickness given in the table below, it is advisable that a new drum be installed.

## Brakes of Bendix Manufacture

Brake	Brake	Minimum	Brake		Brake			2.5	inim	
Size	Type	Thickness	Size		Туре			100.0	hick	
11 in.	All Types				3-Shoe Welded Type .					
			17 ir	n.	Duo Servo (3 in. Lin Cast Drum	ing)				
		111 in			Cast Drum		- {	٠.	.281	in.
13 in.	Duo Servo		17 ir	n.	Duo Servo (4 in. Lin Cast Drum	ing)			000	
14 in.	All Types		17717 3		Cast Drum		٠†	+	.328	ın.
16 in.	Duo Servo		1774 11	n.	Standard (3 & 4 in. L Cast Drum	ining)	.		.328	in.