

AMPEX

CORPORATION

934 CHARTER ST. • EMERSON B-1471
T W X REDWOOD CITY CAL 41
CABLE ADDRESS: AMPEX, REDWOOD CITY
REDWOOD CITY, CALIFORNIA

MAGNETIC RECORDERS

SERVICE BULLETIN

DATE: 17 August 1954
MODEL: 300
BULLETIN NO: 22
PAGE NO: 1

INSTRUCTIONS FOR CONVERTING RACK MOUNTED SERIES 300 TOP PLATE TO CONSOLE MOUNTING

1. Remove the drive motor hinge spring "B" (Fig. 1 of instruction book) stretched between the bracket on the end bell of the drive motor and the motor locking hook extension on the drive motor mounting casting.
2. Install one end of a new #A 1024 console drive motor hinge spring in the bracket hole nearest the motor and the other end over the motor locking hook extension.
3. Remove disc "B" from the top of the takeup tension arm assembly. (Fig. 4 of instruction book) Decrease the coil spring tension by moving back 180 degrees the pin that the spring is hooked over.
4. Remove the compression type capstan idler return spring "A" (Fig. 1 of instruction book) and install a new #400 compression spring. Re-adjustment of the capstan idler adjustment nut "F" is performed as follows:
 - a. Back off the nut until the solenoid plunger can be manually bottomed and the nut clears the adjustment arm.
 - b. While holding the solenoid plunger in this position, re-tighten the nut until the capstan idler just touches the capstan.
 - c. From this setting the nut should be turned in an additional 2 to $2\frac{1}{2}$ turns so that when the recorder is running in the play position without tape, the capstan idler tire is slightly deformed at the capstan and the idler cannot be stopped with the hand. (Made to slip against the capstan)

Springs needed for conversion:

Part No.	Description
1024	Drive Motor Hinge Spring (console)
400	Capstan Idler Return Spring (compression type)