

Teletypewriter

Automatic

Dispatch

System

The Teletypewriter Selecting Code

PRINTING SUPPRESSOR

(Drawing P92. 904.01)

Contents	Page
1. GENERAL	2
2. OPERATION	3
3. ASSEMBLY	5
4. INSTALLATION	11
5. ADJUSTMENTS	14
6. LUBRICATION	17
7. WIRING	18
8. ORDERING INFORMATION	18
9. DRAWING P92.904.01 SK A, SK A-1	19

1. GENERAL

1.01 This section describes the Teletypewriter Selecting Code Printing Suppressor per Drawing P92.904.01, developed for the TAD System to eliminate printing Transmitter Start Codes (TSC) and Call Directing Characters (CDC) preceding a message.

1.02 Transmitter Start Codes appear on the copy as upper case characters, frequently piling up at the end of a line, and usually without meaning to customers. These characters are especially objectionable when using forms.

1.03 The Printing Suppressor prevents printing in the non-operated condition, and permits printing in the operated condition. Normal functioning of the typing units is not interfered with during suppression of printing.

1.04 The various parts of the Printing Suppressor readily mount on a No. 15 Typing unit. They are shown below.

TYPING UNIT SHOWING PARTS OF PRINTING SUPPRESSOR

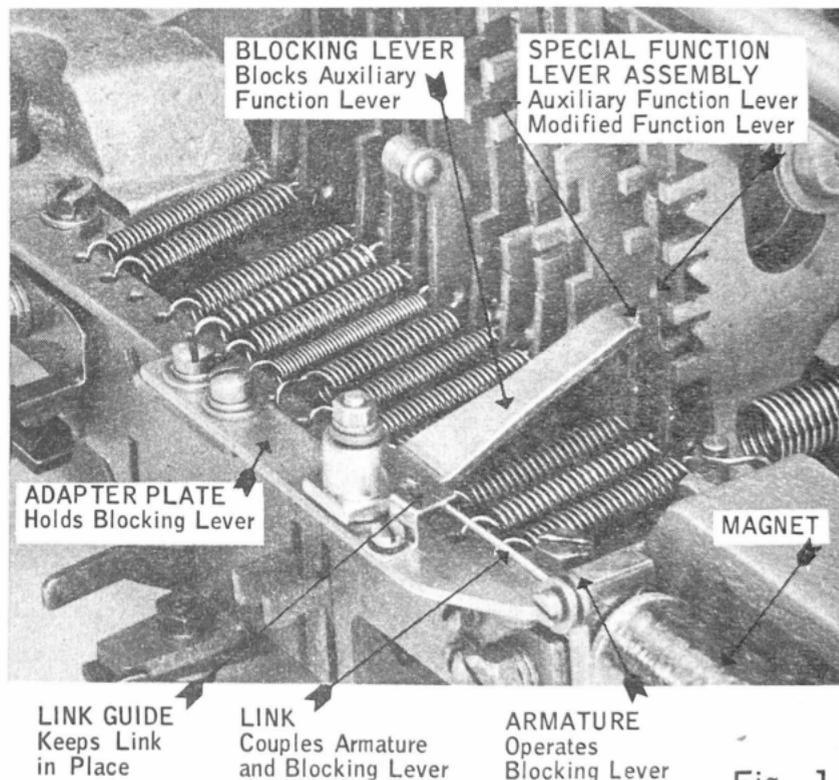


Fig. 1

2. OPERATION

2.01 Operation of the Printing Suppressor is controlled by the CA relay in the TADS Station Selector.

2.02 The CA relay remains non-operated during the search cycle and while CDCs for other stations are being sent. With the CA relay non-operated, the Printing Suppressor will not be operated and printing will be suppressed.

2.03 If the Printing Suppressor is not operated, the Blocking Lever will be released. →

2.04 Release of the Blocking Lever allows the Auxiliary Function Lever to be pulled forward by spring action. →

2.05 When the Auxiliary Function Lever is pulled forward, its blocking surface prevents downward movement of the Printing Bail, and the teletype will not print, but will function normally, otherwise. →

TADS PRINTING SUPPRESSOR Printing Suppressed

Printing Bail Blocked Here →

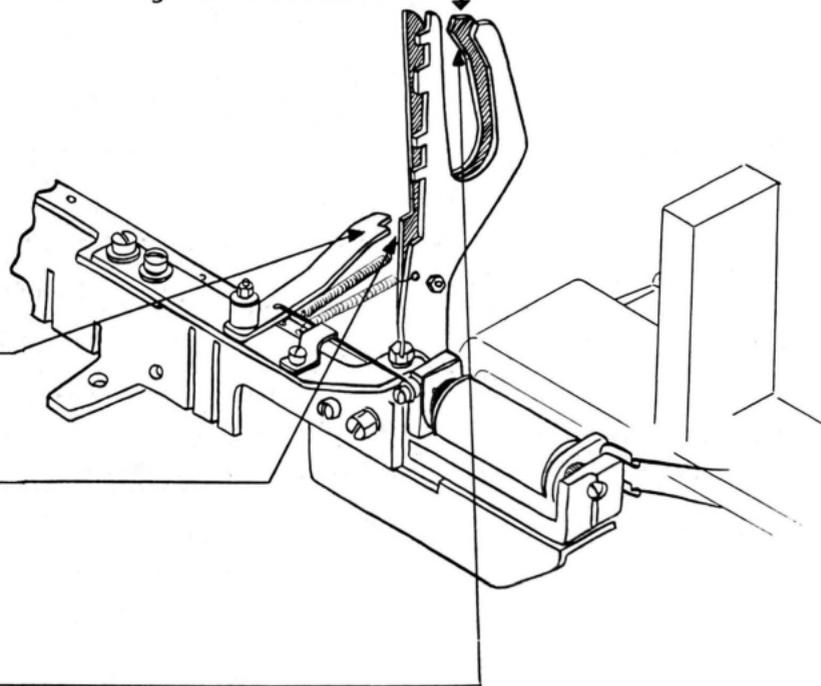


Fig. 2

2.06 Printing will be suppressed during the search cycle, and until the CDC for the station is read by the TADS Station Selector. When this occurs, the CA relay in the Selector will operate.

2.07 Operation of the CA relay will operate the Printing Suppressor Magnet.

2.08 When the Printing Suppressor is operated, the Armature pulls the Blocking Lever over to the blocking position.

2.09 In the blocking position, the Auxiliary Function Lever is held so that it can not move forward and prevent the movement of the Printing Bail.

2.10 The teletype can now print normally.

TADS PRINTING SUPPRESSOR

Printing Not Suppressed

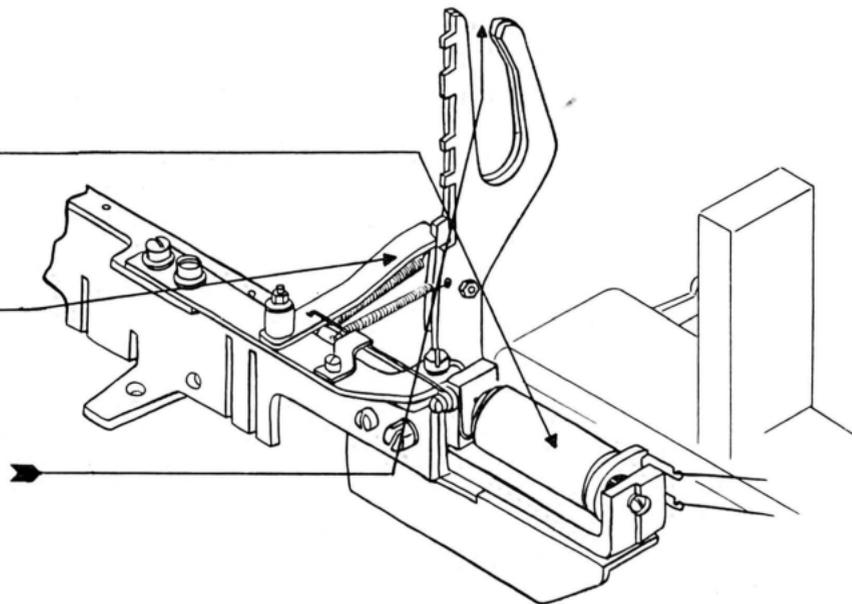


Fig. 3

3. ASSEMBLY

3.01 ASSEMBLY - AUXILIARY FUNCTION LEVER AND MODIFIED FUNCTION LEVER (POS. 3).

PARTS TO MAKE UP THE SPECIAL FUNCTION LEVER ASSEMBLY

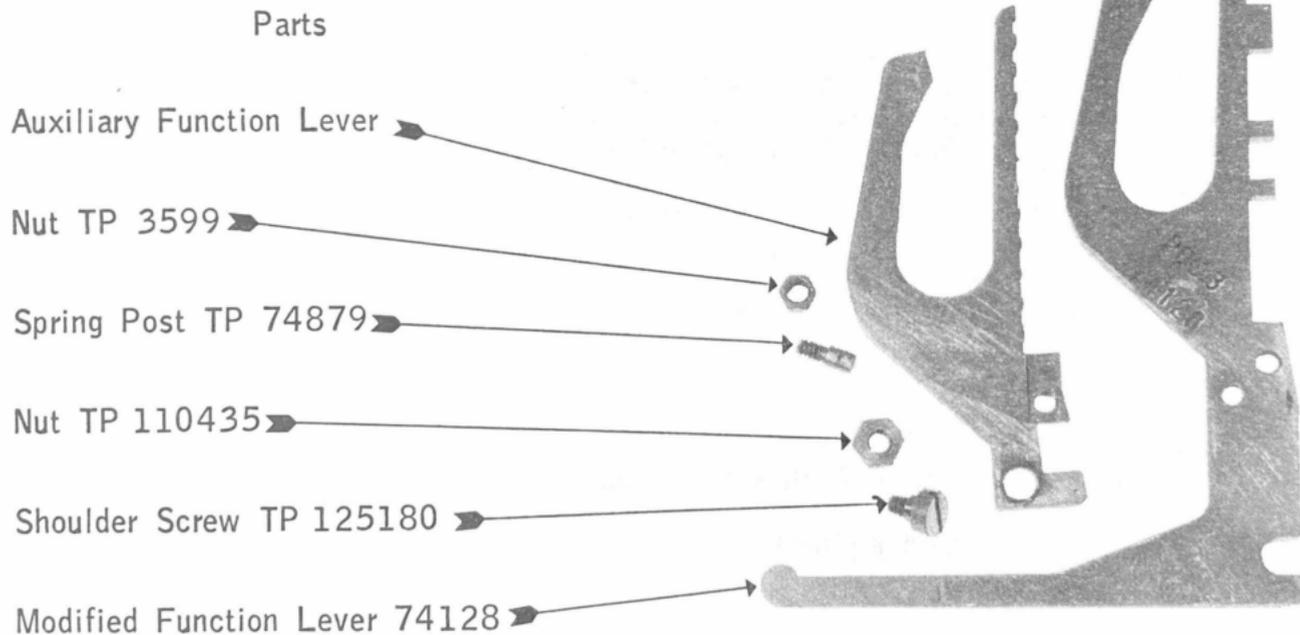


Fig. 4

3.02 ASSEMBLY - BUILD UP SPECIAL FUNCTION LEVER ASSEMBLY USING AUXILIARY FUNCTION LEVER, AND MODIFIED FUNCTION LEVER (POS. 3).

SPECIAL FUNCTION LEVER ASSEMBLY SHOWING PARTS ASSEMBLED

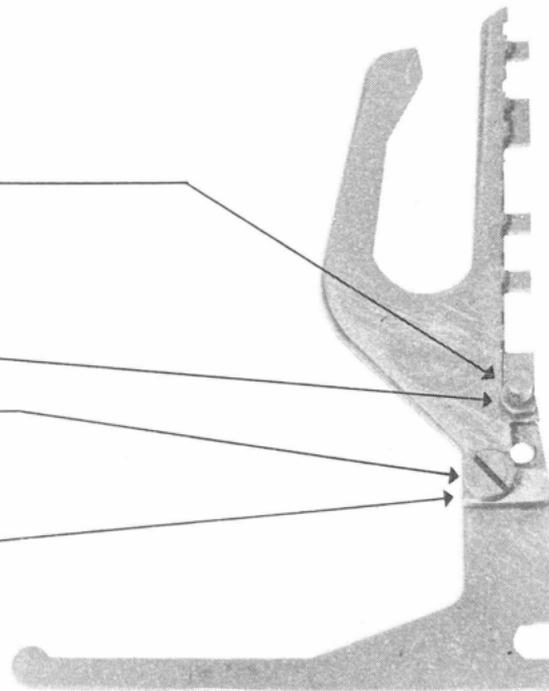
Assemble Parts

Spring Post and Lock Nut ➤
Attach to Auxiliary Function Lever. Spring Post hole in vertical plane. Adjust Lock Nut so Spring Post will not project on opposite side. ➤

Shoulder Screw ➤
Tighten so the two levers move freely but with no side play. ➤

Lock Nut (TP 110435) ➤
Place on reverse side of Auxiliary Function Lever.

(See next picture)



3.03 ASSEMBLY - AUXILIARY FUNCTION LEVER
AND MODIFIED FUNCTION LEVER (POS. 3).

SPECIAL FUNCTION LEVER
ASSEMBLY SHOWING LOCK NUT
IN PLACE.

PARTS ASSEMBLED
(Reverse Side)

- Auxiliary Function Lever ➤
- Modified Function Lever ➤
- Spring Post must not project or movement of levers will be impeded. ➤
- Hole for regular spring (Pos. 3) ➤
- Lock Nut for Shoulder Screw ➤
Tighten securely after shoulder screw has been adjusted so function levers move freely without side play.

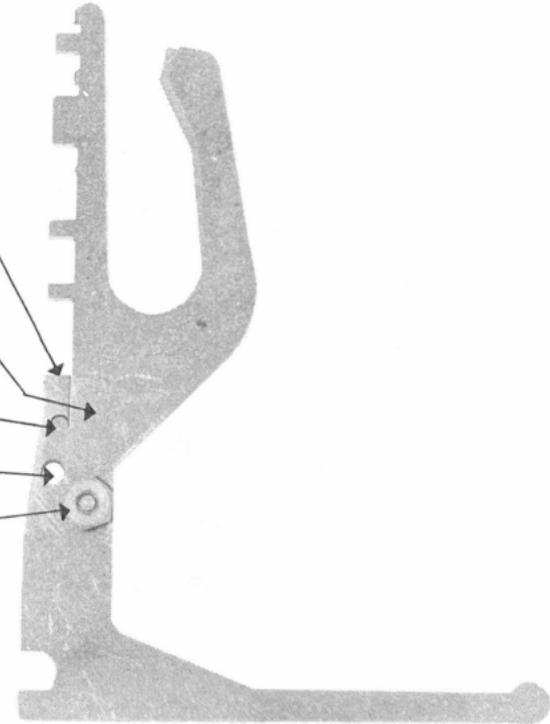


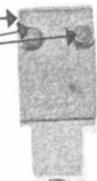
Fig. 6

3.04 ASSEMBLY - ARMATURE AND MAGNET.

Armature ➤

Anti-magnetic rivets should not be higher than 1/64 inch. File down, if necessary.

ARMATURE



Armature ➤

Armature Bracket ➤

Mount Armature on Armature Bracket using Screw TP 125176. Fasten securely. Armature should move freely. ➤

ARMATURE MOUNTED ON
ARMATURE BRACKET

Fig. 7

Nut TP 3599 ➤

Spring Post TP 74879. Position Spring Post so hole is as shown. ➤

Tighten Lock Nut ➤

Magnet M-194 ➤

Screw TP 1162 ➤

Position magnet with solder lugs to rear. ➤

Fasten securely.

MOUNTING OF MAGNET SHOWING
MOUNTING SCREW AND LUG POSITION

Fig. 8

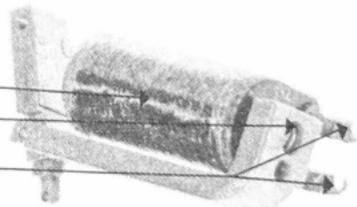


Fig. 9

3.05 ASSEMBLY MOUNTING ARMATURE AND MAGNET ASSEMBLY ON MOUNT- ING BRACKET.

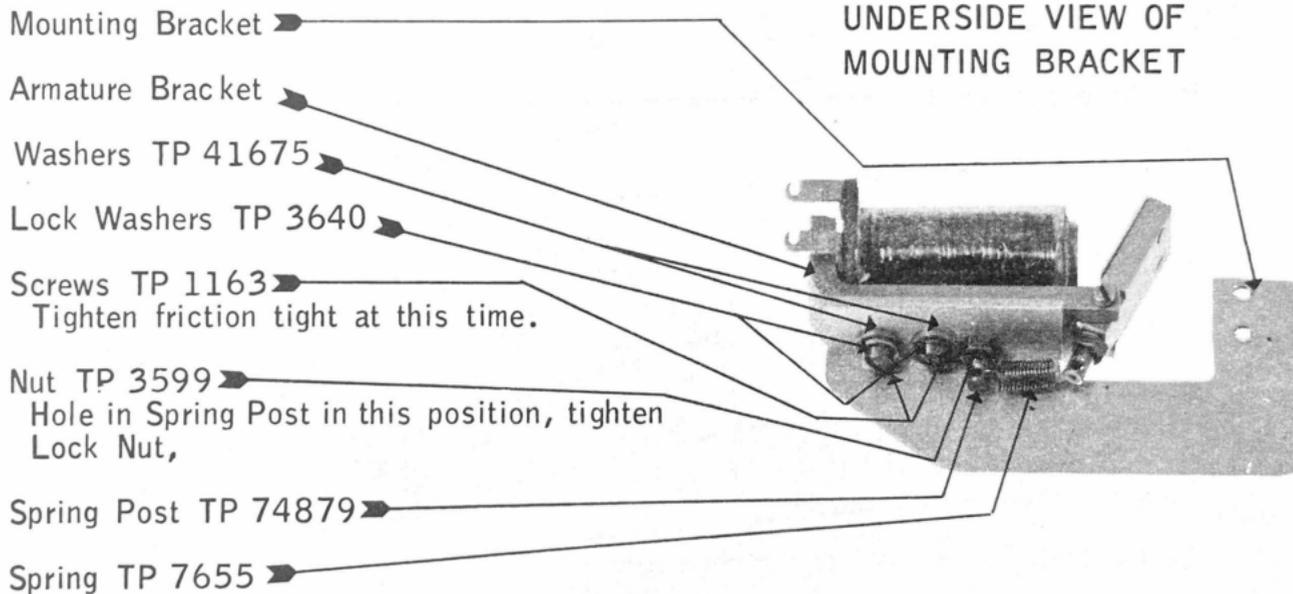


Fig. 10

Note: On some Typing Units, it may be necessary to raise the Armature Bracket. Use shims or Washers TP4165. For more detail, see SK A-1 of this section. Also Par. 5.02.

3.06 ASSEMBLY - MOUNTING BLOCKING
LEVER ON ADAPTER PLATE.

BLOCKING LEVER AND ADAPTER
PLATE

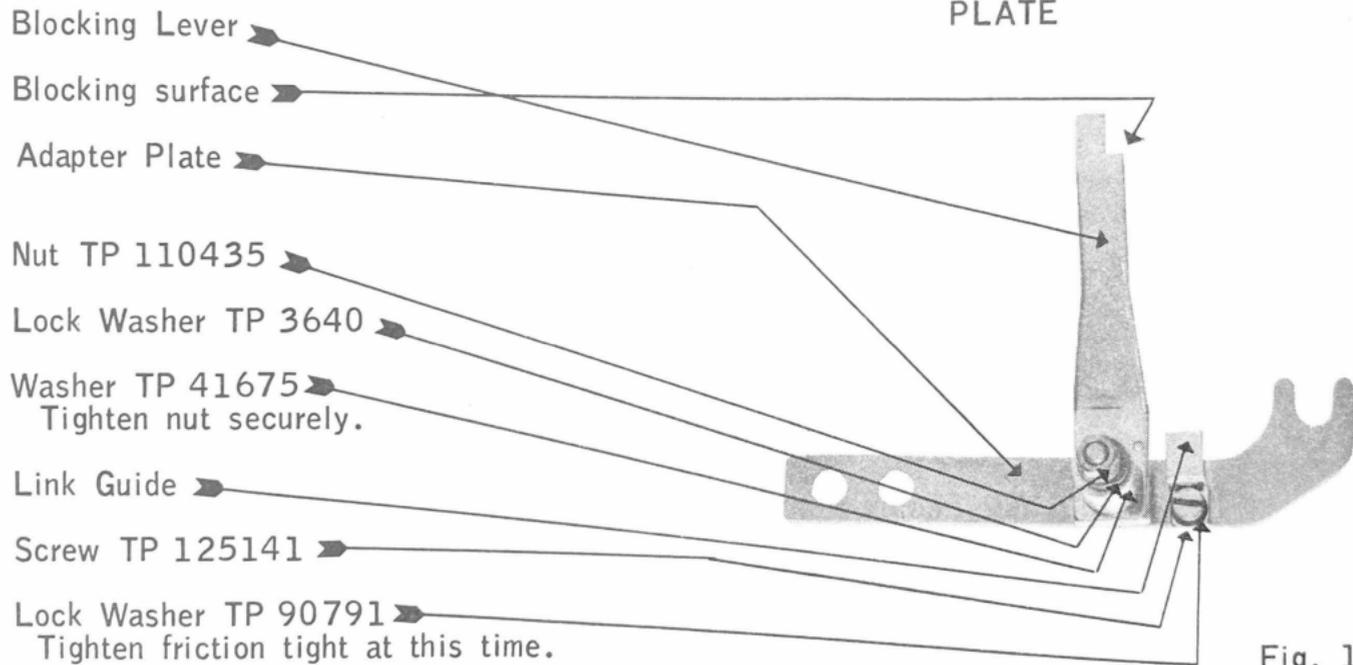


Fig. 11

4. INSTALLATION

4.01 DRILL .086 HOLE IN EXISTING
SPRING PLATE TP 74019, IF
DRILLED PLATE NOT FURNISHED.

SPRING PLATE
Mounting for Adapter Plate



Fig. 12

4.02 REPLACE EXISTING FUNCTION
LEVER IN POSITION 3 WITH
SPECIAL FUNCTION LEVER ASSEM-
BLY BUILT UP IN PARS. 3.02, 3.03.

UNDERSIDE VIEW OF TYPING UNIT
SHOWING FUNCTION LEVER COMB

A. Remove Function Lever Comb
TP 74255.

B. Remove Function Lever 74128
in Position 3.

C. Retain spring. (To be used on Mod-
ified Function Lever for Pos. 3).

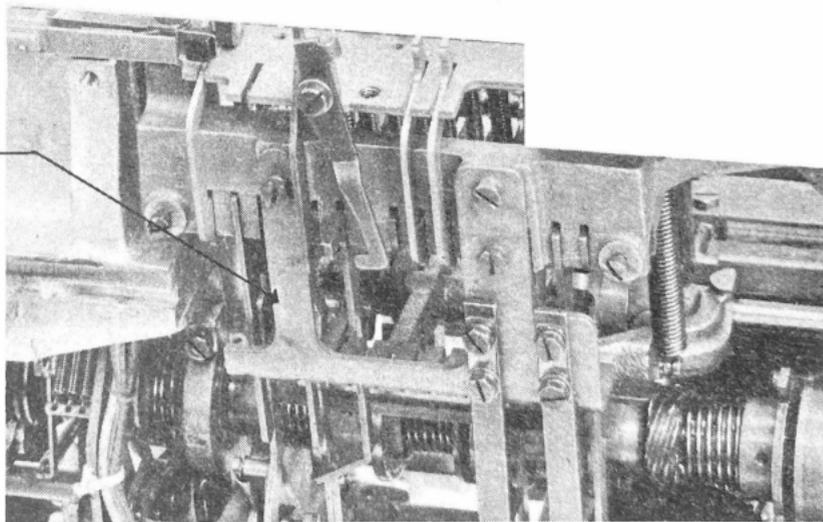


Fig. 13

D. Install Special Function Lever Assembly.

E. Replace Function Lever Comb. Tighten Screws.

F. Fasten spring retained in C above, to Special Function Lever Assembly. Fasten spring here.

G. Fasten a Spring TP 87402 between the Spring Post of the Special Function Lever Assembly and the additional hole drilled in the Spring Plate. (Par. 4.01). Fasten spring here.

SPECIAL FUNCTION LEVER ASSEMBLY

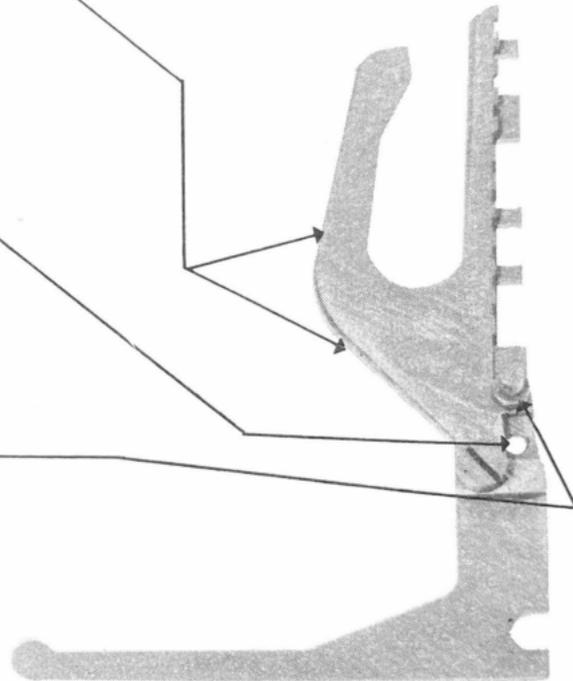


Fig. 14

4.03 INSTALLATION - MOUNT PRINTING SUPPRESSOR ON FRONT OF NO. 15 TYPING UNIT.

- A. Attach Adapter Plate and Blocking Lever. Screws TP 1160
Lock Washer TP 2191
Washers TP 7002)

Existing screw
Lock Washer TP 2191
Washer TP 7002)

- B. Attach Mounting Bracket.
Screws TP 1162
Lock Washers TP 3640)

- C. Attach Link to Armature and
Blocking Lever.
Screw TP 110330
Washers TP 125011)

- D. Tighten Link Guide. ➔

- E. If Link does not move freely
on shoulder screw, ream slightly
with small rat-tail file.

NO. 15 TYPING UNIT - VANES REMOVED

Vaness Removed to Show Detail in Pictures. It is not
Necessary to Remove Them in Order to Install Suppressor

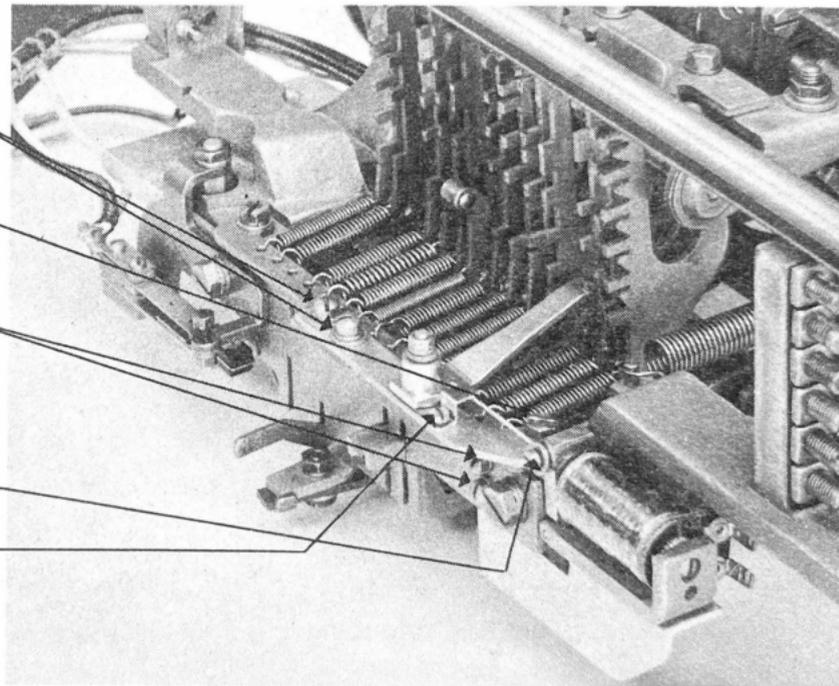


Fig. 15

5. ADJUSTMENTS

5.01 ADJUSTMENT - CLEARANCE BETWEEN AUXILIARY FUNCTION LEVER AND THE BLOCKING SURFACE ON BLOCKING LEVER.

- A. Typing Unit in "STOP" position.
- B. Loosen screws holding ADAPTER PLATE. ➔
- C. Move BLOCKING LEVER over until "stop surface" is against the AUXILIARY FUNCTION LEVER.
- D. Adjust ADAPTER PLATE. ➔
Move front-to-rear to obtain clearance between edge of Auxiliary Function Lever and "blocking surface" of Blocking Lever. ➔

Clearance .010 - .015. ➔

ADJUSTMENT FOR CLEARANCE BETWEEN AUXILIARY FUNCTION LEVER AND BLOCKING SURFACE ON BLOCKING ARM Auxiliary Function Lever

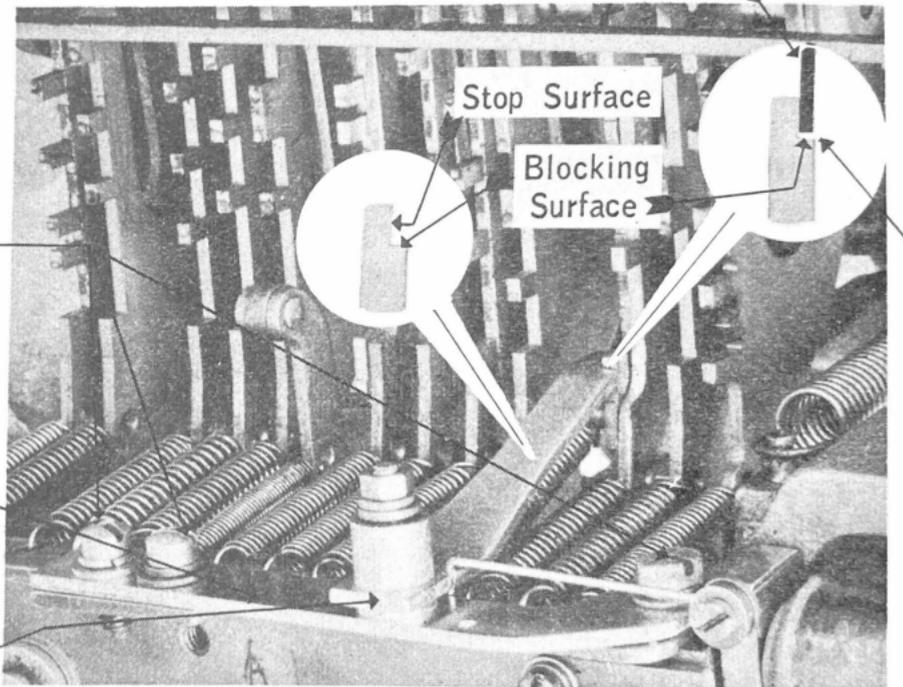


Fig. 16

E. Release **BLOCKING LEVER**.
In released condition, it should
clear function levers.

F. If **BLOCKING LEVER** does not
clear function lever in non-
operated position, move Adapter
Plate sideways.

G. Re-check clearance in D.
(Preceding Page)

H. Tighten screws securely.

BLOCKING LEVER RELEASED
(Should clear function lever)

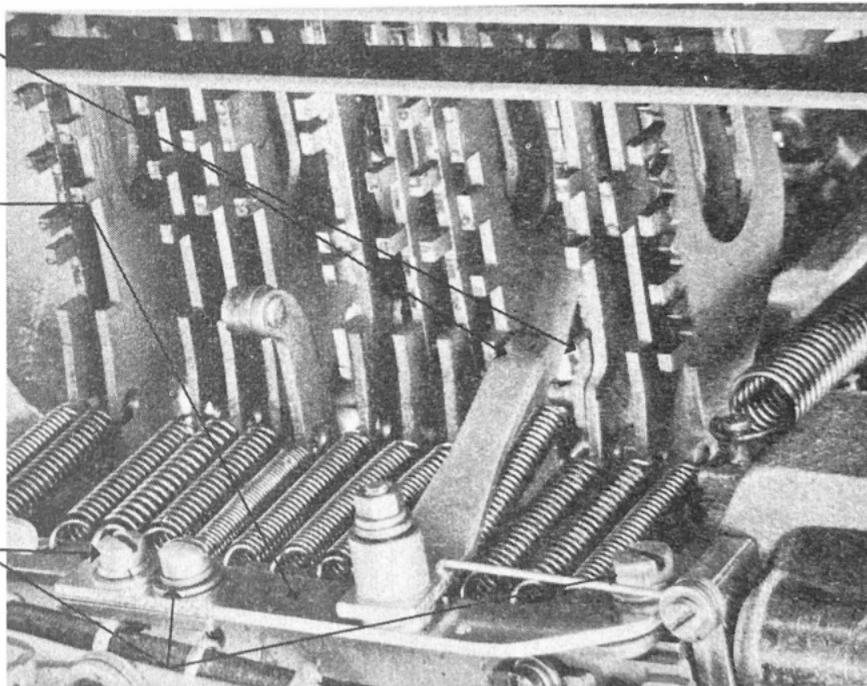


Fig. 17

5.02 ADJUSTMENT - ADJUST ARMATURE BRACKET ON MOUNTING BRACKET.

A. Check clearance between top of Armature and nearest point of carriage.

Clearance .010 - .015

B. If this tolerance cannot be met, add shims between mounting Bracket and Armature Bracket. Place on screws holding Armature Bracket. ➔

C. After adjusting height of Armature Bracket, operate the Armature by hand to ensure it is not rubbing on frame.

D. Tighten mounting screws securely. ➔

5.03 Re-check all points to ensure that screws and nuts are securely tightened.

ADJUSTMENT OF ARMATURE BRACKET Clearance Between Armature and Carriage

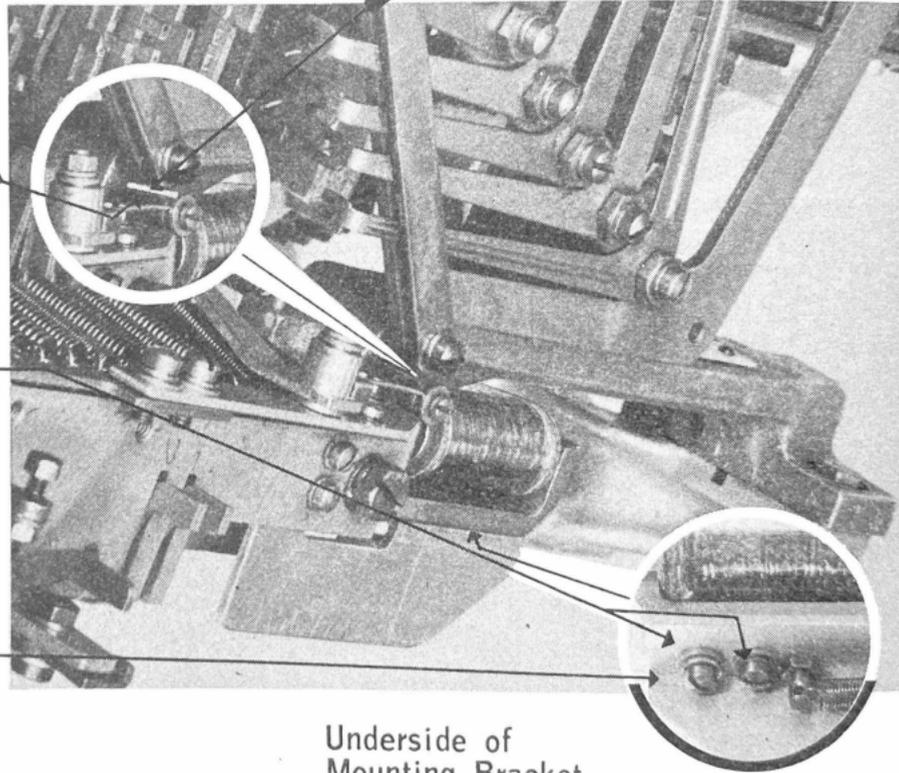


Fig. 18

Underside of
Mounting Bracket

6. LUBRICATION

6.01 The Printing Suppressor does not require special lubrication. Oil per KS 7470 is satisfactory.

6.02 Oil sparingly the following points:

A. Shoulder screw, and between levers of special Function Lever Assembly. ➤

B. Pivot screw for Blocking Lever. ➤

C. Link hole in Blocking Lever. ➤

D. Armature Shoulder Screw for Link. ➤

E. Armature hinge. ➤

LUBRICATION POINTS FOR PRINTING SUPPRESSOR

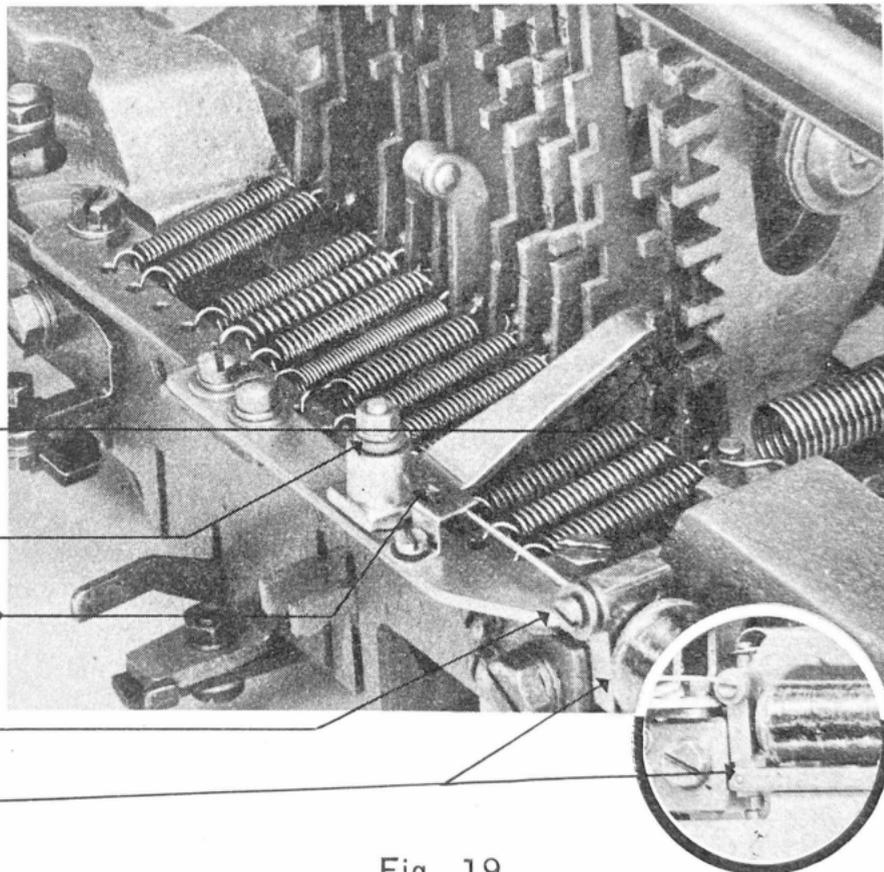


Fig. 19

7. WIRING

7.01 Wiring arrangements for the Teletypewriter Selecting Code Printing Suppressor per Drawing P92.904.01 is covered as follows:

A. No. 15 units equipped with the Teletypewriter Selector Function Plate and Contact Assembly per Drawigg P92.905.01 are equipped with the wiring for the Printing Suppressor. Two white-slate wires are reserved in the cable supplied as part of the Contact Assembly unit for the use of the Printing Suppressor.

B. No. 15 Typing Units not equipped with the Teletypewriter Selector Function Plate and Contact Assembly, and being used with a TADS Station Selector per P92.-901.04 have the wiring information for

the Printing Suppressor covered under Detail F of the Drawing P92.901.04.

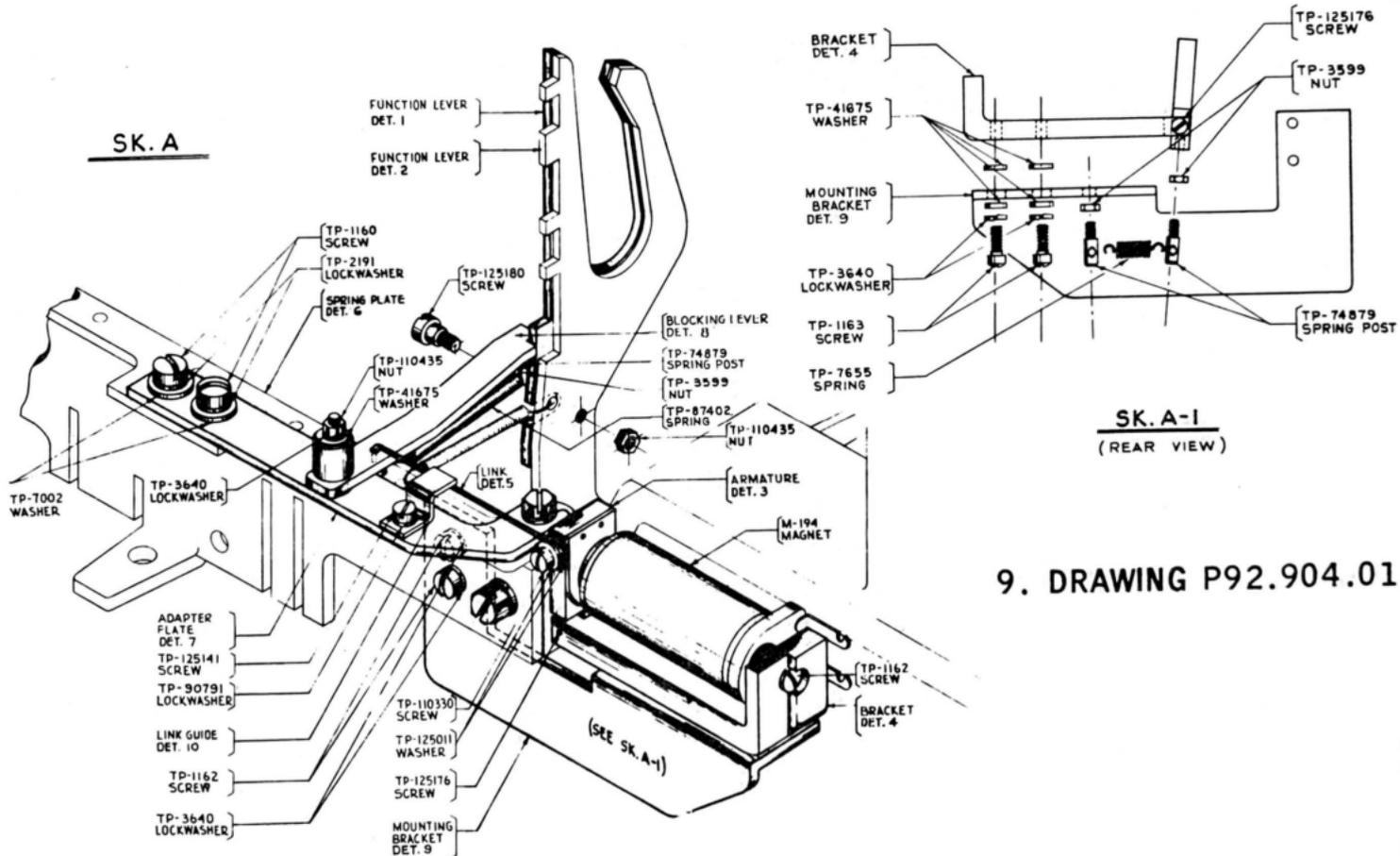
C. Engineering work in progress to provide wiring arrangements for No. 15 Typing units equipped with TADS Station Selector per P92.901.03. (Mark III Systems).

8. ORDERING INFORMATION

8.01 Complete Teletypewriter Selecting Code Printing Suppressor per Drawing P92.-904.01 may be ordered from the Western Electric Company, St. Louis, Missouri.

8.02 Order as: Suppressor, Printing, Code, Selecting, Teletypewriter, P92.-904.01, L1.

8.03 Spare parts to be available from local Western Electric Distributing Houses.



9. DRAWING P92.904.01