# Chapter 17

## ACTUATOR, PLESSEY, TYPE CZ54042

## LIST OF CONTENTS

					F	ara.					F	Para.
Introduction						ı	Installation					5
Description						2						
Limit switches			****	****	****	3	Servicing					6
				L	IST (	<b>OF ILL</b> Fig.	USTRATIONS					Fig.
General view of actuator					Ī	Wiring diagram	63.53		11.25		3	
Sectional view of actuato						2						

### LEADING PARTICULARS

Actuator	, Туре	CZ54	042		• • • •		Sto	res Ref.	5W/22		
Voltage									24 d.c.		
Current o	onsump	tion (o	n norm	al load)					3 amp.		
Maximun	n load				****		****		150 lb.		
Normal le	oad				****				100 lb.		
Brush spr	ing pre	ssure			,			3.5 to	4.5 oz.		
Weight									2 16.		
Travel of	plunger								3 in.		
Time for	full trav	rel (on	normal	load)		2000	000	6 to	o 7 sec.		
Distance between centres											
	Plunger	exten	ded				13-75	in.			
	Plunger in mid-position						12.25	25 in.			
	Plunger	in ret	racted ;	bosition			10.75	in.			

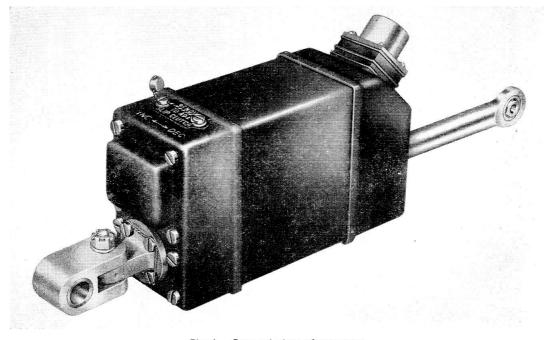
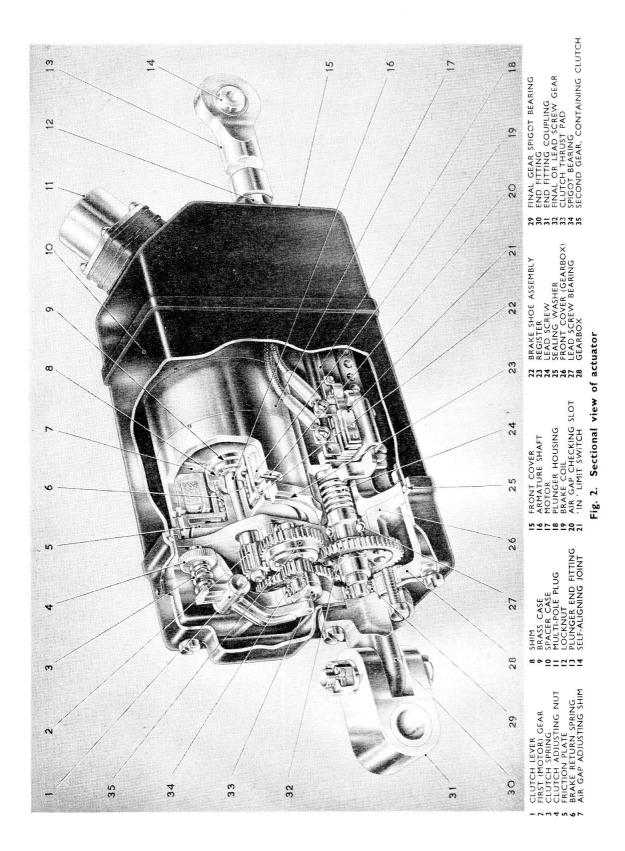


Fig. I. General view of actuator



RESTRICTED

#### Introduction

1. The actuator, Type CZ54042, belongs to the Jaguar series of actuators as described in A.P.4343, Vol. 1, Sect. 17, Chap. 2, App. 9. It is used with loads, such as air intakes or fuel cocks, which in their operation require a direct thrust or pull not normally exceeding 100 lb.

#### DESCRIPTION

2. A sectional view of the actuator appears in fig. 2. The general construction is as described in the Appendix on Jaguar actuators, to which reference should be made for further information.

#### Limit switches

3. Three limit switches are fitted on this actuator. The "in" and "out" switches are mounted alongside one another on one side of the actuator, whilst the third, the mid-way limit switch, is fitted at the other side. It is connected as shown in the wiring

diagram in fig. 3, and thus the motor can be stopped when the plunger has completed half its stroke.

**4.** The stroke of the plunger is set to its required length by altering the position of the "in" and "out" limit switches. Such action should never be taken, however, without the permission of a competent authority, as a special setting rig is required for the purpose in order to obtain the accurate adjustment necessary for the correct functioning of the actuator.

#### INSTALLATION

**5.** The instructions given in A.P.4343, Vol. 1, for Jaguar actuators, are applicable to this actuator.

#### SERVICING

**6.** The servicing of this actuator is as given for other Jaguar actuators.

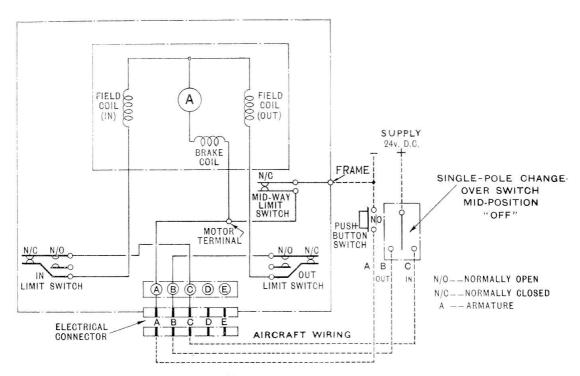


Fig. 3. Wiring diagram