



FERRANTI

TAPCHANGERS

MAINTENANCE PARTS MANUAL ON LOAD TAPCHANGING EQUIPMENT

DC3



UNITS 8/9
SOUTHLINK BUSINESS PARK
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OLDHAM
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ISSUE 4 (APRIL 2024)

DC3 TAPCHANGER WITH COVERS REMOVED

ITEM 8
AIR RELEASE VALVE
TC-202050

ITEM 9
DIVERTER SWITCH
COVER
GASKET
TC-200811

SELECTOR INSPECTION
COVER GASKET
TC-220377004

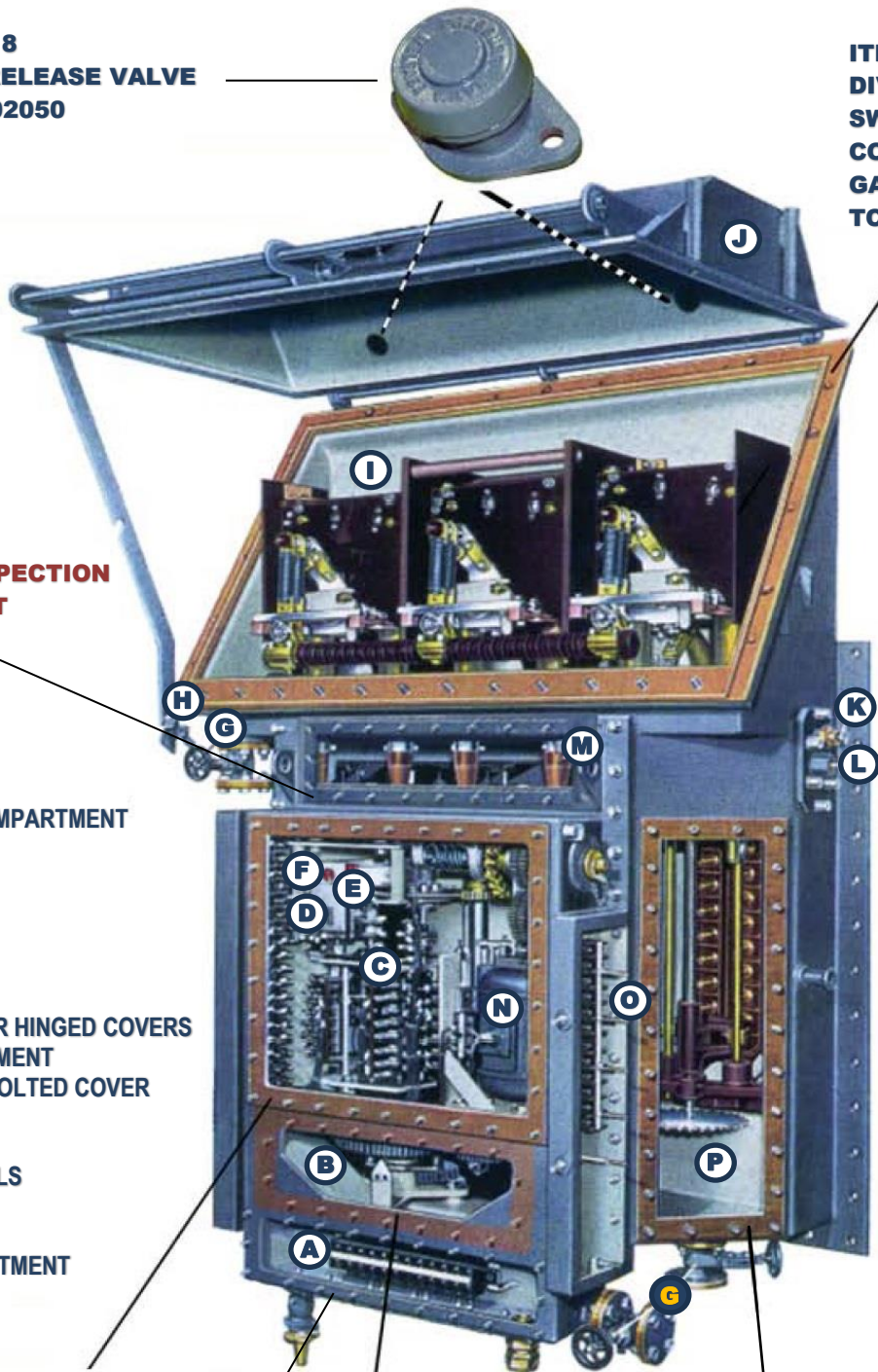
A. CONTROL CABLE ENTRY COMPARTMENT
B. GENEVA MECHANISM
C. TIMING GEAR
D. OPERATION COUNTER
E. OIL LEVEL INDICATORS
F. TAP POSITION INDICATOR
G. DRAIN AND FILTER VALVES
H. STAY AND SAFETY LOCK FOR HINGED COVERS
I. DIVERTER SWITCH COMPARTMENT
J. DIVERTER SWITCH HINGED BOLTED COVER
K. AIR BLEED VALVE
L. OIL LEVEL INDICATOR
M. DIVERTER SWITCH TERMINALS
N. DRIVING MOTOR
O. CONTROL GEAR TERMINALS
P. SELECTOR SWITCH COMPARTMENT

ITEM 16
GEARBOX COVER
GASKET
TC-220377001

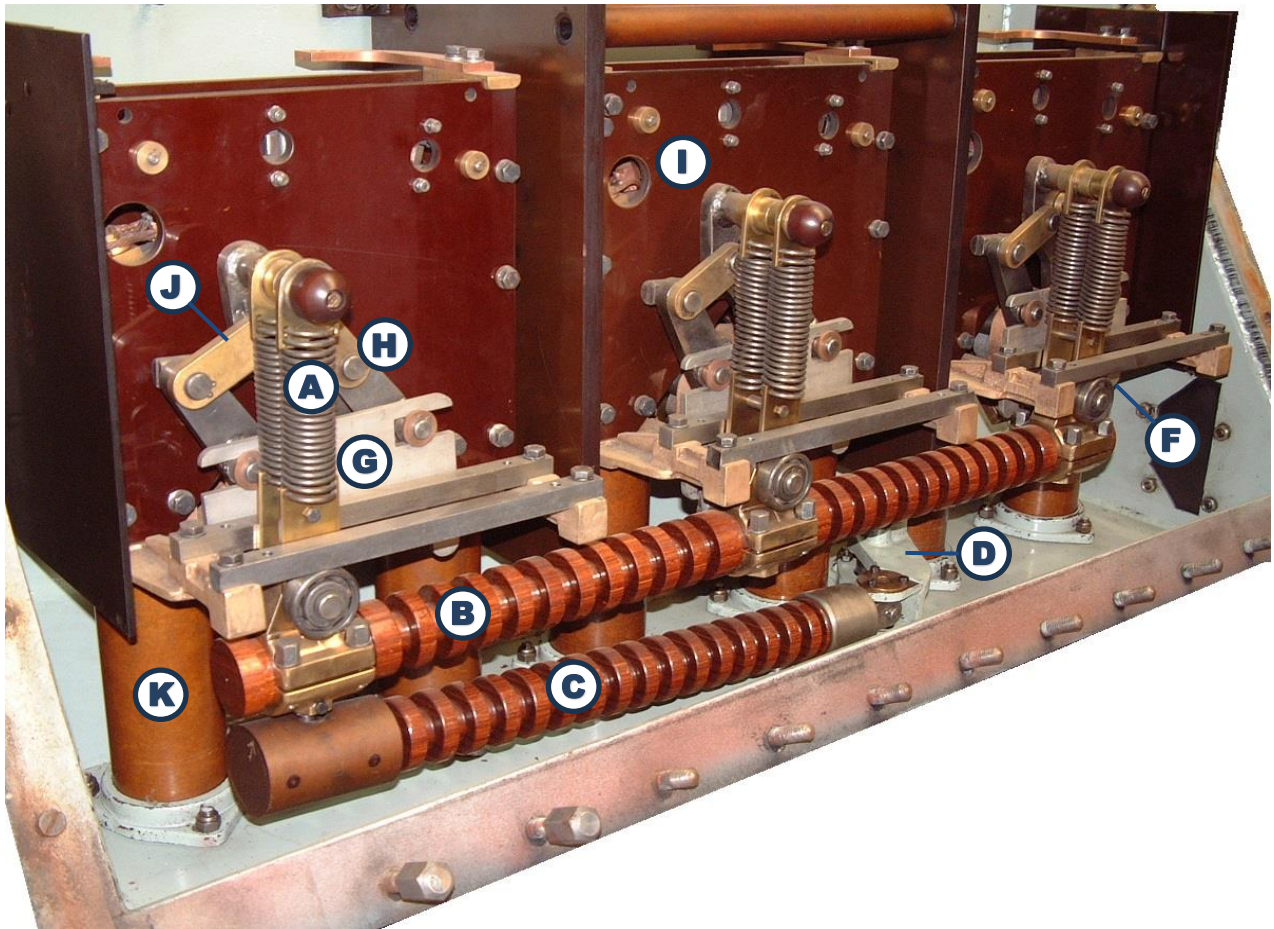
CABLE GLAND COVER
GASKET
TC-220377004

ITEM 17
GENEVA INSPECTION
COVER GASKET
TC-220377003

ITEM 14
SELECTOR INSPECTION
COVER GASKET
TC-200355

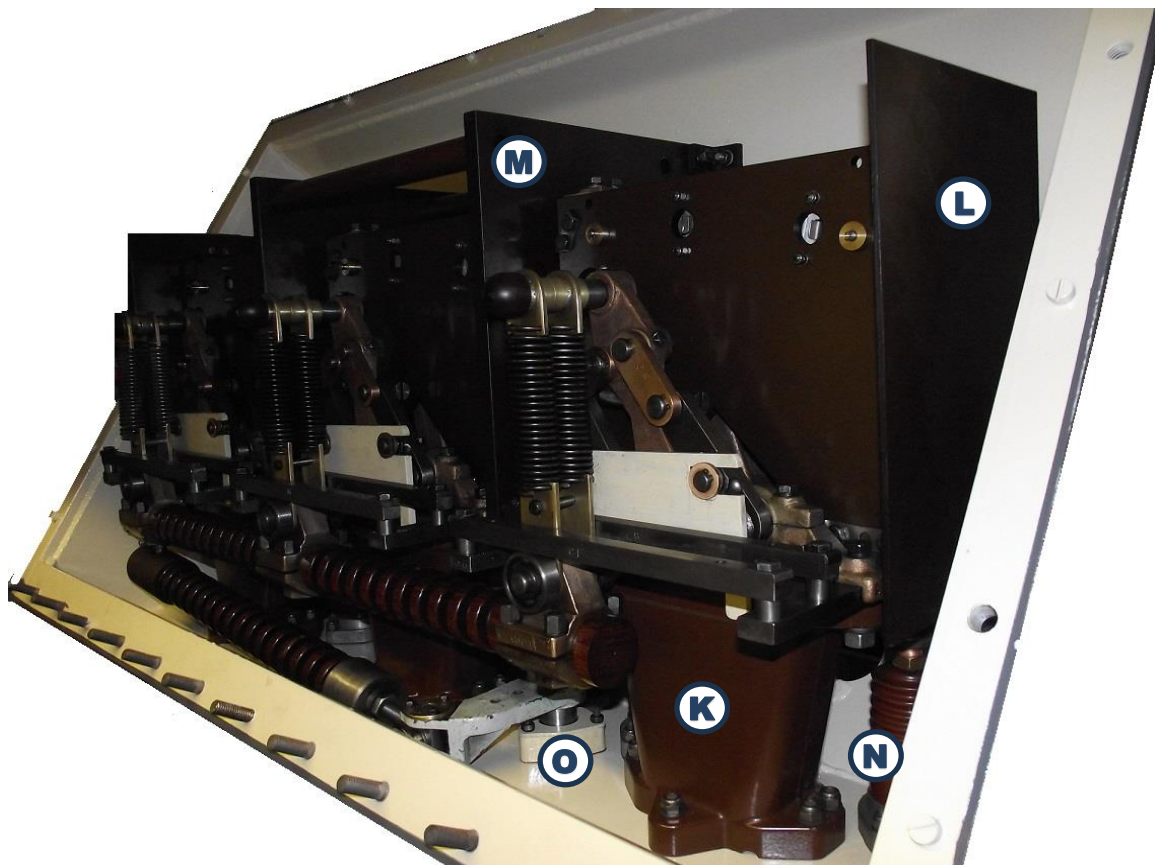


GENERAL VIEW OF DC3 DIVERTER SWITCHES ROUND LEG VERSION



- A. STORED ENERGY SPRINGS**
- B. INSULATED DIVERTER SWITCH COUPLING ROD**
- C. INSULATED DIVERTER SWITCH DRIVING ROD**
- D. CRANK ARM OPERATING DIVERTER SWITCHES**
- E. SPRING DRIVE BAR**
- F. DIVERTER SWITCH COMMON TERMINALS**
- G. TRIPPING BAR FOR TOGGLE MECHANISM**
- H. STORED ENERGY TOGGLE OPERATING MECHANISM**
- I. DIVERTER SWITCH ASSEMBLY**
- J. DIVERTER SWITCH MOVING CONTACT LEVER**
- K. DIVERTER SWITCH SUPPORTS (ROUND)**

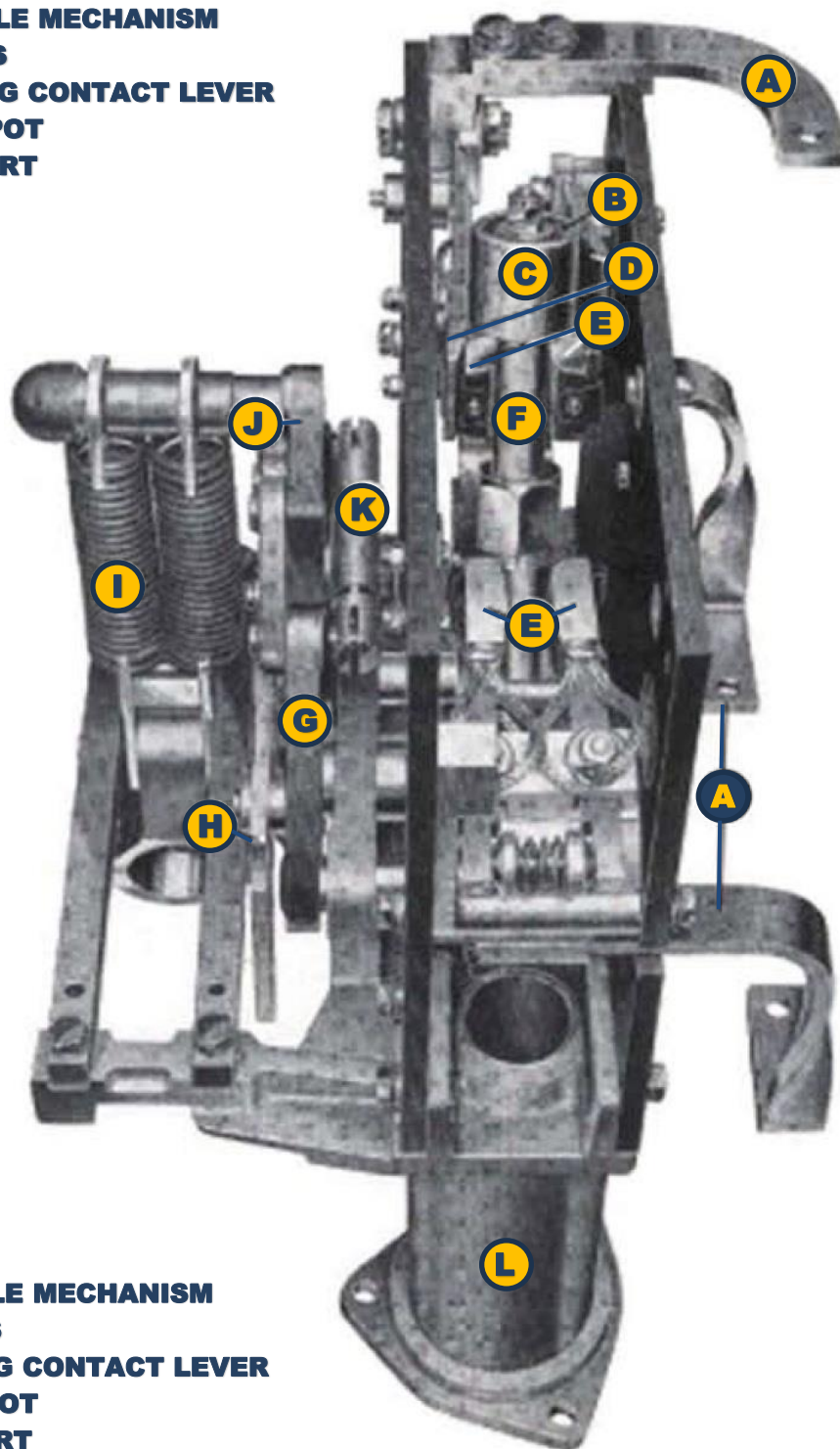
GENERAL VIEW OF DC3 DIVERTER SWITCHES SQUARE LEG VERSION



- K. DIVERTER SWITCH SUPPORTS (SQUARE)**
- L. END BARRIER**
- M. BARRIER ASSEMBLY**
- N. BUSHING**
- O. DIVERTER OIL SEAL COMPARTMENT**

VIEW OF DIVERTER DC3 DIVERTER SWITCH

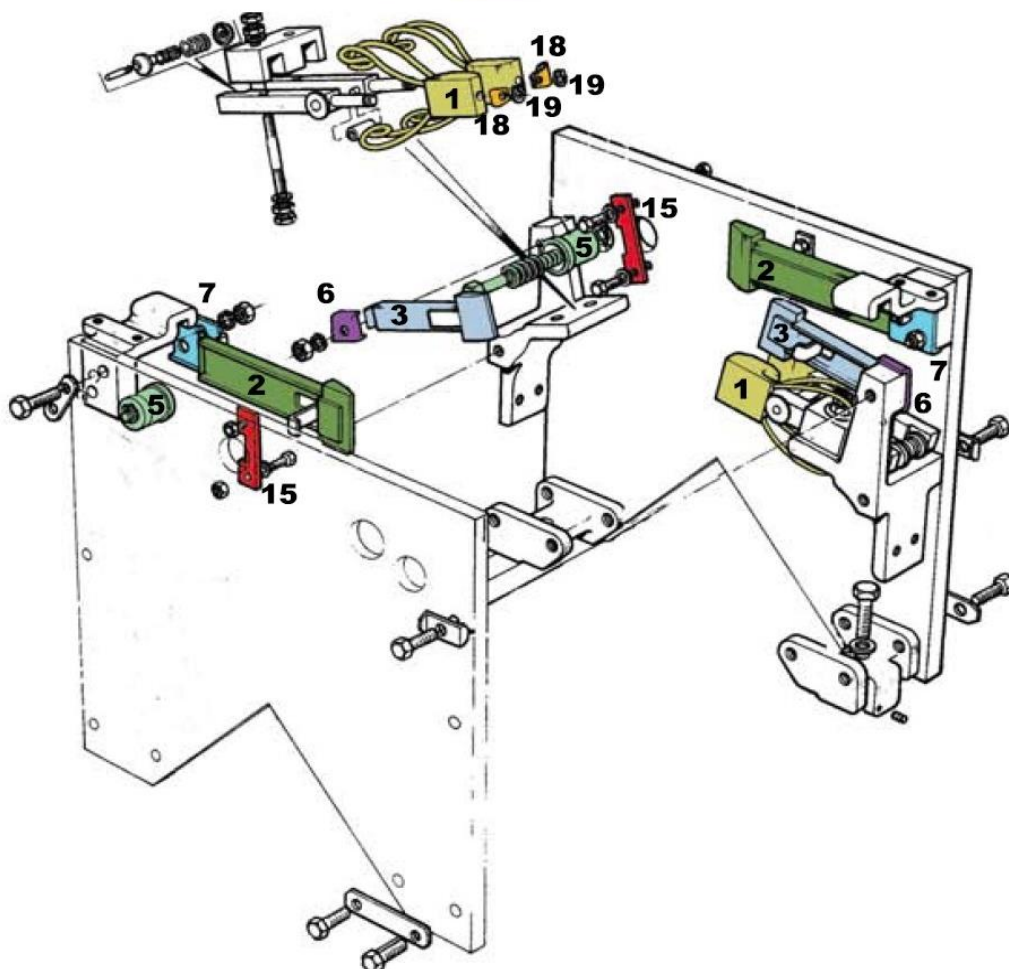
- H. TRIPPING BAR FOR TOGGLE MECHANISM**
- I. STORED ENERGY SPRINGS**
- J. DIVERTER SWITCH MOVING CONTACT LEVER**
- K. DIVERTER SWITCH DASHPOT**
- L. DIVERTER SWITCH SUPPORT**



- H. TRIPPING BAR FOR TOGGLE MECHANISM**
- I. STORED ENERGY SPRINGS**
- J. DIVERTER SWITCH MOVING CONTACT LEVER**
- K. DIVERTER SWITCH DASHPOT**
- L. DIVERTER SWITCH SUPPORT**

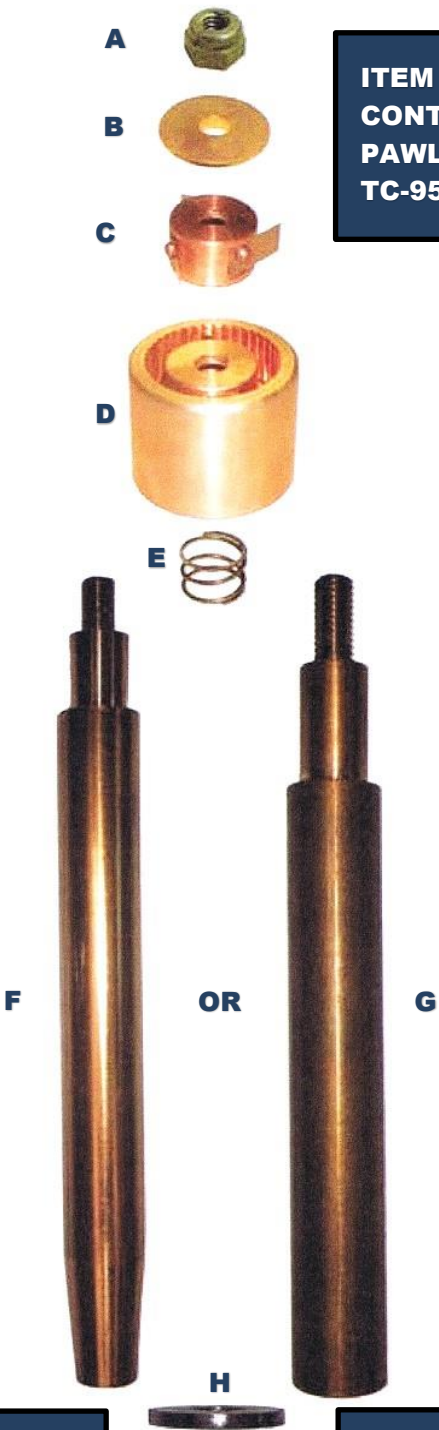
EXPLODED VIEW OF SINGLE PHASE OF DC3 DIVERTER

-  **1 TC-301515 - MAIN DIVERTER SWITCH CONTACT**
-  **2 TC-220267 - TRANSITIONAL CONTACT (LONG)**
-  **3 TC-220350 - AUXILIARY CONTACT (SHORT)**
-  **5 TC-200734ASY - SPRING PLUNGER ASSY**
-  **6 TC-301512 - CONTACT HINGE PLATE (AUXILIARY)***
-  **7 TC-220267 - CONTACT HINGE PLATE (TRANSITIONAL)***
-  **15 TC-301514001 - GUIDE PLATE**
-  **18 TC-302575 - SPRING CLIP**
-  **19 TC-2616030100 - CIRCLIP**



***NB: IT IS ADVISABLE TO RE-USE INSITU HINGE PLATES TC-301512 & TC-200179 WHERE AT ALL POSSIBLE**

DC3 MAIN MOVING CONTACT ASSEMBLY



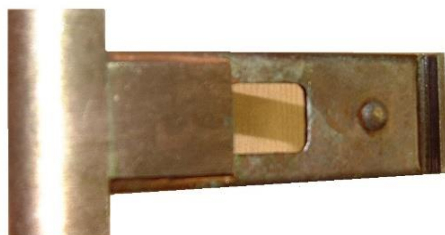
ITEM 4	A
CONTACT AND	B
PAWL KIT	C
TC-9530093	D
	E

ITEM 20	F
MOVING CONTACT	H
ARM KIT	COMPRISING I
TC-9530176	J
(PRE-1963)	

ITEM 21	G
MOVING CONTACT	H
ARM KIT	COMPRISING I
TC-9530177	J
(POST-1963)	

DC3 DIVERTER MAINTENANCE PARTS

1 TC-301515
MAIN DIVERTER
SWITCH CONTACT



TC-220350
AUXILIARY CONTACT (Short)

3

6 TC-301512
AUXILIARY HINGE
PLATE



**RE-USE INSITU
PLATES WHERE
POSSIBLE**



5 TC-302575
SPRING CLIP



17 TC-2616030100
CIRCLIP

2 TC-220267
TRANSITIONAL CONTACT
(Long)



7 TC-200179
TRANSITIONAL HINGE PLATE



**RE-USE INSITU
PLATES WHERE
POSSIBLE**

DC3 DIVERTER MAINTENANCE PARTS

8 **TC-202050**
AIR RELEASE
VALVE



13 **TC-200654**
DIVERTER OIL
SIGHT GASKET



TC-200655 **12**
DIVERTER OIL
SIGHT WINDOW



5 **TC-220734ASY**
SPRING PLUNGER ASSY



TC-301514001 **15**
GUIDE PLATE

DC3 GEARBOX MAINTENANCE PARTS



11 **TC-220377007**
GEARBOX OIL
SIGHT GASKET



TC-200317 **10**
GEARBOX OIL
SIGHT WINDOW



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DC3 Tapchanger Maintenance Parts

Re-order Form

On Completion of the Tapchanger maintenance why not replace the parts used from the kit? In the form below, simply enter the parts utilized during the service and email to sales@ferrantitapchangers.com where we will be happy to offer our quotation to replenish the maintenance kit, ready for the next service.

Or speak to us about our Maintenance Kit Management service. For more information call - 0161 652 2800

Item	Part Number	Description	Kit Qty	Qty Used	UOM
1	TC-301515	Contact - Main Diverter Switch	12		Each
2	TC-220267	Contact - Transitional (Long)	6		Each
3	TC-220350	Contact - Auxiliary (Short)	6		Each
4	TC-9530093	Kit - Contact and Pawl	3		Each
5	TC-200734ASY	Spring Plunger Assembly	12		Each
6	TC-301512	Contact Hinge Plate (Auxiliary)	6		Each
7	TC-200179	Contact Hinge Plate (Transitional)	6		Each
8	TC-202050	Valve - Air Release	2		Each
9	TC-200811	Gasket - Diverter Switch Cover	1		Each
10	TC-200317	Window - Gearbox Oil Sight	1		Each
11	TC-220377007	Gasket - Gearbox Oil Sight	2		Each
12	TC-200655	Window - Diverter Switch Sight	1		Each
13	TC-200654	Gasket - Diverter Switch Sight	2		Each
14	TC-200355	Gasket - Selector Inspection	2		Each
15	TC-201514001	Plate - Guide	12		Each
16	TC-220377001	Gasket - Gearbox Cover	1		Each
17	TC-220377003	Gasket - Geneva Inspection Cover	1		Each
18	TC-302575	Clip - Spring	12		Each
19	TC-2616030100	Circlip	12		Each
20	TC-9530176	Moving Contact Arm Kit (Pre 1963)	3		Each
21	TC-9530177	Moving Contact Arm Kit (Post 1963)	3		Each

Enter your contact information below:

Company

Site Address

Contact Name

Contact No

Email Address

Office Use Only

Date Form Returned

Order Reference: