



**NEW ZEALAND POST OFFICE**

**120 TYPE PABX SYSTEM  
RELAY ADJUSTMENT  
DATA**

---

**LIST OF RED LABEL RELAYS FOR 120 TYPE PABX**

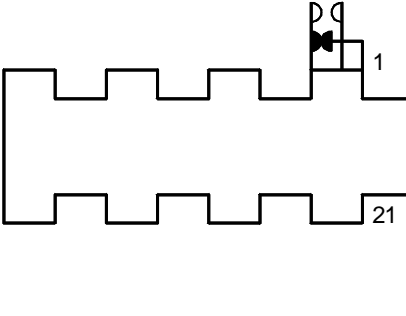
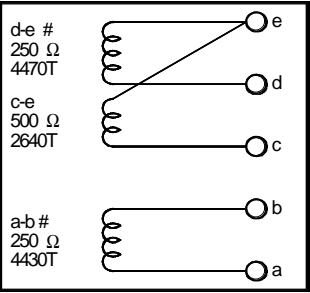
<u>DRAWING No.</u>	<u>CIRCUIT</u>	<u>RELAY</u>	<u>RELAY No.</u>	<u>P.O CODE</u>
GBW 13230	MARKER	CD	HS 503	3/401C
GBW 14670	ENQ CIRCUIT	A	60359P	
GBW 14650	CONN CIRCUIT	A FT	60730P HS 613	
GBW 14690	EXCHANGE LINE R/S	ET MH LS A DR LB	HS 501 HSD 508 HS 521 HS 518 60459 60656	3/401A 3/412/AD 3/402K 3/402G

---

		<b>P.O. CODE</b>	<b>RELAY NO. 60359P</b>					
FIRST USE	ARMATURE ORDINARY "SQUARE" ISTHMUS "V" ISTHMUS	TRAVEL 25 MILS STUD RESDL LENGTH xx MILS SCREW RESDL GAP 13 * MILS	WINDG ASSEMBLY  15EF	N.I. SLEEVES 3 N.I. CORE SLUG S.R.V.P.				
<u>SPECIAL FEATURES</u>  ADJUST LEVER SPRINGS TO MEET CURRENT TESTS  * SLIDING RESIDUAL SCHEME APPLIES TRAVEL TOLERANCE +/- 2 MILS CONTACT CLEARANCE 5 MILS MIN # TURNS EXACT - RESISTANCE +/- 10%		SS CODE  4						
		SPRING THICKNESS  12 mls						
		SS CODE  1						
		<b>CURRENT IN MILLIAMPS</b>						
		WINDING	a-b + b-e		b-c + d-e			
		FUNCTION	TEST	R.A.	TEST	R.A.	TEST	R.A.
		SATURATE	58		51			
		HOLD	22	21				
		RELEASE			4.5	5.0		
		NON-OP						
OPERATE			18	17				
LAG	OPERATE							
					ORIGINATED BY : <b>S.T.C.</b>			
					APPROVED :			

		<b>P.O. CODE</b>	<b>RELAY NO. 60459</b>				
FIRST USE	ARMATURE ORDINARY "SQUARE" ISTHMUS "V" ISTHMUS	TRAVEL 31 MILS STUD RESDL LENGTH $xx$ MLS SCREW RESDL GAP 5 MILS	WINDG ASSEMBLY  4HX	N.I. SLEEVES N.I. CORE SLUG S.R.V.P.			
<u>SPECIAL FEATURES</u>  ADJUST LEVER SPRINGS TO MEET CURRENT TESTS  # TURNS EXACT - RESISTANCE +/- 10%		SS CODE					
		5					
		SS CODE					
		SPRING THICKNESS	14 mls				
		1	SS CODE				
		CURRENT IN MILLIAMPS					
		WINDING	a-b		d-e		
FUNCTION	TEST	R.A.	TEST	R.A.	TEST	R.A.	
SATURATE	95		95				
HOLD							
RELEASE	3.0	3.2	3.0	3.2			
NON-OP							
OPERATE	21	20	21	20			
LAG	OPERATE						
	RELEASE						
					ORIGINATED BY :		
					<b>S.T.C.</b>		
					APPROVED :		

		P.O. CODE		RELAY NO. 60656				
FIRST USE	ARMATURE ORDINARY "SQUARE" ISTHMUS "V" ISTHMUS	TRAVEL 31 MILS STUD RESDL LENGTH xx MILS SCREW RESDL GAP 5 * MILS		WINDG ASSEMBLY  22ZA	N.I. SLEEVES N.I. CORE SLUG 1/2" HES S.R.V.P.			
<u>SPECIAL FEATURES</u> ADJUST LEVER SPRINGS TO MEET CURRENT TESTS * SLIDING RESIDUAL SCHEME APPLIES		SS CODE  4						
		SPRING THICKNESS  14 mls						
		SS CODE	CURRENT IN MILLIAMPS					
		WINDING	a-e					
		FUNCTION	TEST	R.A.	TEST	R.A.	TEST	R.A.
		SATURATE	130					
		HOLD						
RELEASE	2.0	2.1						
NON-OP								
OPERATE	19	18						
LAG	OPERATE							
	RELEASE							
					ORIGINATED BY :			
					<b>S.T.C.</b>			
					APPROVED :			

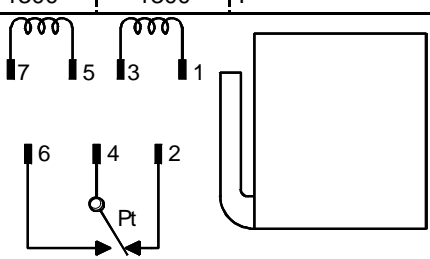
		<b>P.O. CODE</b>	<b>RELAY NO. 60730P</b>					
FIRST USE	ARMATURE ORDINARY "SQUARE" ISTHMUS "V" ISTHMUS	TRAVEL 25 MILS STUD RESDL LENGTH $xx$ MILS SCREW RESDL GAP 11 * MILS	WINDG ASSEMBLY  15EE	N.I. SLEEVES 3 N.I. CORE SLUG S.R.V.P.				
<u>SPECIAL FEATURES</u>  ADJUST LEVER SPRINGS TO MEET CURRENT TESTS  * SLIDING RESIDUAL SCHEME APPLIES TRAVEL TOLERANCE +/- 2 MILS # TURNS EXACT - RESISTANCE +/- 10%		SS CODE  4					d-e # 250 Ω 4470T  c-e 500 Ω 2640T	
		SPRING THICKNESS  14 mls						
		SS CODE						
		<b>CURRENT IN MILLIAMPS</b>						
		WINDING	a-b + d-e		c-e			
		FUNCTION	TEST	R.A.	TEST	R.A.	TEST	R.A.
		SATURATE	50		88			
		HOLD						
		RELEASE	3.0	3.2				
		NON-OP						
OPERATE	12.5	12	4.2	4.0				
LAG	OPERATE							
	RELEASE							
					ORIGINATED BY : <b>S.T.C.</b>			
					APPROVED :			

		P.O. CODE 3/401A			RELAY NO H.S. 501				
FIRST USE	WINDING ASSEMBLY		REAR	FRONT	145Ω	R			
				HS/ZE	2000	T			
CURRENT IN MILLIAMPS					<p>REAR VIEW</p>				
WINDINGS	1 - 3								
FUNCTION	TEST	R.A.	TEST	R.A.					
SATN	90								
HOLD									
RELEASE	9.5	10							
NON-OP	22	23							
OPERATE	26	25							
TIMING TEST			MAKE	BREAK	SPECIAL FEATURES ADJUST LEVER SPRINGS TO MEET CURRENT TESTS				
	OPERATE								
	RELEASE								
CONDITIONS FOR TIMING TEST									
						ORIGINATED BY :			
						<b>S.B.</b>			
						APPROVED :			

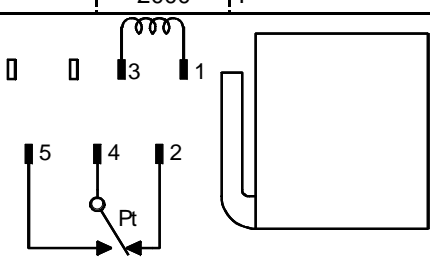
		P.O. CODE 3/401C				RELAY NO H.S. 503				
FIRST USE		WINDING ASSEMBLY	REAR	FRONT	1000Ω	R				
				HS/DC	3750	T				
CURRENT IN MILLIAMPS				<p>REAR VIEW</p>						
WINDINGS	1 - 3									
FUNCTION	TEST	R.A.	TEST					R.A.		
SATN	41									
HOLD										
RELEASE	5.2	5.5								
NON-OP										
OPERATE	15	14								
TIMING TEST			MAKE	BREAK	SPECIAL FEATURES ADJUST LEVER SPRINGS TO MEET CURRENT TESTS					
	OPERATE									
	RELEASE									
CONDITIONS FOR TIMING TEST										
						ORIGINATED BY :				
						<b>S.B.</b>				
						APPROVED :				



		<b>P.O. CODE 3/402G</b>				<b>RELAY NO H.S. 518</b>		
FIRST USE		WINDING ASSEMBLY	REAR	FRONT	500Ω	500Ω	R	
			HS/DG	HS/DG	3800	3800	T	
CURRENT IN MILLIAMPS					<p>REAR VIEW</p>			
WINDINGS	1 - 3 + 5 - 7							
FUNCTION	TEST	R.A.	TEST	R.A.				
SATN	24							
HOLD								
RELEASE	2.8	3.0						
NON-OP								
OPERATE	8.5	8.0						
TIMING TEST			MAKE	BREAK	SPECIAL FEATURES ADJUST LEVER SPRINGS TO MEET CURRENT TESTS			
	OPERATE							
	RELEASE							
CONDITIONS FOR TIMING TEST								
							ORIGINATED BY :	
							<b>S.B</b>	
							APPROVED :	

		<b>P.O. CODE 3/402K</b>				<b>RELAY NO H.S. 521</b>					
FIRST USE	WINDING ASSEMBLY		REAR	FRONT	50Ω	50Ω	R				
			HS/BB	HS/BB	1300	1300	T				
CURRENT IN MILLIAMPS					 <p style="text-align: center;">REAR VIEW</p>						
WINDINGS	1 - 3		1 - 3 + 5 - 7								
FUNCTION	TEST	R.A.	TEST	R.A.							
SATN	140		70								
HOLD	36	34									
RELEASE			7.5	8.0							
NON-OP											
OPERATE			20	19							
TIMING TEST			MAKE	BREAK	<b>SPECIAL FEATURES</b> ADJUST LEVER SPRINGS TO MEET CURRENT TESTS						
	OPERATE										
	RELEASE										
CONDITIONS FOR TIMING TEST											
							ORIGINATED BY :				
							<b>S.B.</b>				
							APPROVED :				

		P.O. CODE				RELAY NO H.S. 613		
FIRST USE	WINDING ASSEMBLY		REAR	FRONT	50Ω	145Ω	R	
			HS/BB	HS/ZE	1300	2000	T	
CURRENT IN MILLIAMPS					<p>REAR VIEW</p>			
WINDINGS	1 - 3		5 - 7					
FUNCTION	TEST	R.A.	TEST	R.A.				
SATN	90		140					
HOLD			35	34				
RELEASE			19	20				
NON-OP	22	23						
OPERATE	27	26						
TIMING TEST			MAKE	BREAK	SPECIAL FEATURES ADJUST LEVER SPRINGS TO MEET CURRENT TESTS MAX CONTACT PRESSURE 30 GMS			
	OPERATE							
	RELEASE							
CONDITIONS FOR TIMING TEST								
							ORIGINATED BY :	
							<b>S.T.C.</b>	
							APPROVED :	

		<b>P.O. CODE 3/401U</b>			<b>RELAY NO H.S. 721</b>		
FIRST USE		WINDING ASSEMBLY	REAR	FRONT	145Ω	R	
				HS/ZE	2000	T	
CURRENT IN MILLIAMPS					 <p style="text-align: center;">REAR VIEW</p>		
WINDINGS	1 - 3						
FUNCTION	TEST	R.A.	TEST	R.A.			
SATN	90						
HOLD							
RELEASE	11.5	12					
NON-OP							
OPERATE	27	26					
TIMING TEST			MAKE	BREAK	<b>SPECIAL FEATURES</b> ADJUST LEVER SPRINGS TO MEET CURRENT TESTS MAX CONTACT PRESSURE 30 GMS		
	OPERATE						
	RELEASE						
CONDITIONS FOR TIMING TEST							
						ORIGINATED BY :	
						<b>G.P.O.</b>	
						APPROVED :	

		<b>P.O. CODE 3/412AD</b>				<b>RELAY NO HSD 508</b>			
FIRST USE		TRAVEL 4 - 5 MILS				WINDING ASSEMBLY			
		RESIDUAL 6 - 7 MILS				FRONT		REAR	
						HSD/2EA		HSD/2EA	
SPECIAL FEATURES						FRONT			
ADJUST LEVER SPRINGS TO MEET CURRENT TESTS									
CURRENT IN MILLIAMPS									
WINDINGS	a-b + d-e								
FUNCTION	TEST	R.A.	TEST	R.A.	TEST	R.A.			
SATN	8								
HOLD									
RELEASE	0.95	1.0							
NON-OP									
OPERATE	2.2	2.1							
TIMING TEST CONDITIONS									
						ORIGINATED BY :			
						<b>S.B.</b>			
						APPROVED :			