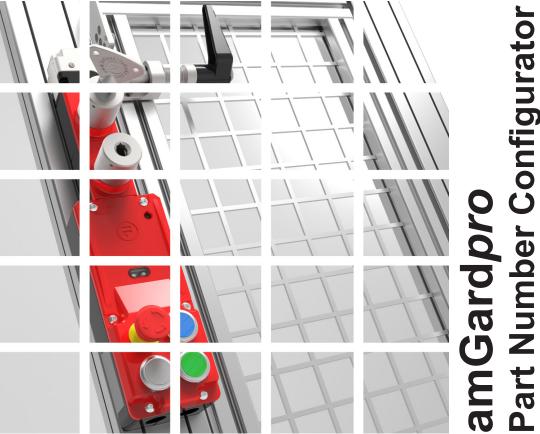




**Modular Safety Gate Switches** for Machine Guarding Applications



# Part Number Configurator



For use with 'M' Heads For use with 'T' Heads For use with 'l' Heads

### proAM Handle



Part No.	Description
MA	AM Handle

Turning motion holds door closed. Ideal for non locking set ups (i.e. proSTOP devices)



Part No.	Description
MI	AM Handle with Internal Release

Turning motion holds door closed. Internal handle allows user to open door from inside (pushIR may be required depending on application)

### proAT Tongue



Part No.	Description
TA	AT Tongue

High strength and ease of opening makes this the most popular actuator in the amGardpro range.



<u></u>	

Part No.	Description
тк	Short AT Tongue (allows padlocks through the tongue to work as a lock out tag out, but reduces over travel).

Allows padlocks through the tongue to work as a lock out tag out, but reduces over-travel

### proSlidebar Options



Part No.	Description
TN	Slidebar without a spring

Sliding motion holds door closed. With no return spring unit remains in the position it is left in

Part No.	Description
TS	Slidebar with a return spring

Sliding motion holds door closed. Return spring pulls the slidebar open, preventing clashes with the head (but requires the slidebar to be held forward whilst locking)

Part No.	Description
TI	Slidebar with Internal handle but no return spring

Sliding motion holds door closed. Same as a TN but IR knob allows door to be opened (but not closed) from the inside when main unit is unlocked

	Part No.	Description
	TM	Slidebar with Internal handle c/w TK Short Tongue
		TK Short Tongue

Sliding motion holds door closed. Short TK tongue allows padlock through tongue to act as a lock out. Additional lock out space at rear of slidebar

19	
1	
	_

Part No.	Description
TG	Slidebar with Internal handle for GM

Sliding motion holds door closed. Short TK tongue allows padlock through tongue to act as a lock out. No additional lock out space at rear of slidebar

Part
Т

Part No.	Description
TF	Slidebar with Internal handle c/w spacer behind the knob

Same as a TN but IR knob allows door to be opened and closed from the inside when main unit is locked

### proHandle Options



Part No.	Description
EN	<i>pro</i> Handle, no Internal Release

Handle motion holds door closed, but no method to open door from inside



Part No.	Description
EH	proHandle (the red internal release handle only works with units with no locking (i.e. stops) or in conjunction with a pushIR unit).

The red internal release handle only works with units with no locking (i.e. Stops) or in conjunction with a pushIR unit

> MI, TI, TM, TG, TF and EH work well with a pushIR unit (see step 4)

### proRelease IR Handle



Description proIR Handle to

allow emergency

release (only to be

used with 16 or 17

head).

Handle motion holds door closed. Red handle overrides all locking mechanisms and opens safety contacts to allow escape release

Part No.

ΕI

NO	Actu	ıatoı
R	equir	ed

X



	Part No.	Description
	NO	No Actuator required
Select this when you wish to specify head direction (Handing) but are not		

purchasing an actuator

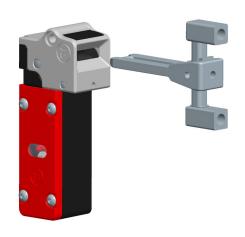










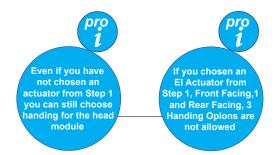


Part No.	Handing Description
1	Front Facing

Part No.	Handing Description
2	Left Hand

Part No.	Handing Description
3	Rear Facing

Part No.	Handing Description
4	Right Hand





### proCap Options



Part No.	Description
C6	To terminate assemblies without heads

Terminates assemblies without heads

### proAM Head Options



For use with actuators: MA MI

Part No.	Description
М6	proAM Head

Turning motion holds door closed. Ideal for non locking set ups (i.e. *proSTOP* devices)



For use with actuators: MA MI

Part No.	Description
М7	proAM Head c/w Drop Down Lockout

M6 head with drop down lockout. This lockout features slides into place every time actuator is removed. Ideal for applications where lockout is to be used on every entry



/*	
Part No.	Description
M8	proAM Head c/w Lock-Out Clip

M6 head with drop down clip. Ideal for applications where lockout is not to be used on every entry

### proAT Head Options



For use with actuators:

TA TS

TK TM

TI TG

TN TF

EH EN

Part No.	Description
T6	proAT Head

High strength and ease of opening makes this the most popular head in the amgard *pro* range



For use with actuators:
TA TS
TK TM
TI TG
TN TF
EH EN

Part No.	Description
<b>T7</b>	proAT Head c/w Drop Down Lockout

T6 head with drop down lockout. This lockout features slides into place every time actuator is removed. Ideal for applications where lockout is to be used on every entry



	For us	e with
	actuat	ors:
	TA	TS
1	TK	TM
	TI	TG
	TN	TF
	FH	FN

Part No.	Description
Т8	proAT Head c/w ATL Lock-Out Clip

T6 head with drop down clip. Ideal for applications where lockout is not to be used on every entry

# proRelease IR Handle Options



For use with actuators:

Part No.	Description
16	proIR Head (only works in conjunction with EI handle)

Handle motion holds door closed. Red handle overrides all locking mechanisms and opens safety contacts to allow escape release



For use with actuators: EI

Part No.	Description
17	proIR Head c/w drop down lockout (only works in conjunction with EI handle)

I6 head with drop down lockout. This lockout features slides into place every time actuator is removed. Ideal for applications where lockout is to be used on ever entry





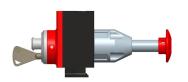


A PushIR will allow emergency exit even if unit is locked by keys and or solenoid. A PushIR is **not** needed if a EI Handle and I Head have already been specified. (note, a pull reset (R6, R7, R8 & R9) reduces the safety of the system).



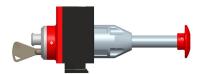
Part No.	Push IR Description
R1	Key Reset (up to 40mm panel thickness)

Same as RW but key reset to ensure all incidents are reported



Part No.	Push IR Description
R2	Key Reset (up to 60mm panel thickness)

Same as RX but key reset to ensure all incidents are reported



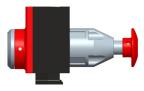
Part No.	Push IR Description
R3	Key Reset (up to 80mm panel thickness)

Same as RY but key reset to ensure all incidents are reported



Part No.	Push IR Description
R4	Key Reset (variable length - for panel thickness over 80mm and up to 1m)

Same as RZ but key reset to ensure all incidents are reported



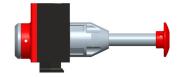
Part No.	Push IR Description
R6	Pull Reset (up to 40mm panel thickness)

Same as RW but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)



Part No.	Push IR Description
R7	Pull Reset (up to 60mm panel thickness)

Same as RX but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)



Part No.	Push IR Description
R8	Pull Reset (up to 80mm panel thickness)

Same as RY but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)



Part No.	Push IR Description
R9	Pull Reset (variable length for panel thickness over 80mm and up to 1m)

Same as RZ but pull reset allows door to be relocked from the inside (requires careful risk assessment to ensure this is acceptable)

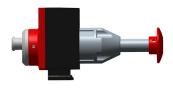


If a Push IR is not required leave part number blank and go to Step 5



Part No.	Push IR Description
RW	Front Reset no key (up to 40mm panel thickness)

Overrides all locking mechanisms and opens safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels upto 40mm thick



Part No.	Push IR Description
RX	Front Reset no key (up to 60mm panel thickness)

Overrides all locking mechanisms and opens safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels upto 60mm thick



Part No.	Push IR Description
RY	Front Reset no key (up to 80mm panel thickness)

Overrides all locking mechanisms and opens safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels upto 80mm thick



Part No.	Push IR Description
RZ	Front Reset no key (variable length for panel thickness over 80mm up to 1m)

Overrides all locking mechanisms and open safety contacts to allow escape release. Simple push reset allows quick restart. Suitable for panels upto 300mm thick



Adaptors



Part #

E K

Part No.	Description
L	Standard Lock
R	Releasing Lock (must be used if a PushIR or EI Handle and Head used).

0	r	CINS & MULES
If you've selected an I6/I7 then select a releasing lock.	If you've selected a pushIR adaptor then select a releasing lock.	pro
		If an Extracted Key Adaptor is not required leave part number blank and go to Step 6

Description	Information		Part No.
Standard Lock no dusctcover	Removed key ensures door cannot be locked until operator returns from cell with the key. Extracted version will not open door until key is removed	CLIN	1
Standard Lock with dustcover	Same as EK_1 but with dustcover for dusty environments	CLIS	2
Standard Lock with padlockable dustcover	Same as EK_3 but pad lockable dustcover allows lockout feature	CLIL	3
Masterable Lock no dustcover	Same as EK_1 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIN	6
Masterable Lock with dustcover	Same as EK_2 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIS	7
Masterable Lock with padlockable dustcover	Same as EK_3 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIL	8











on Part No.	Description
ck L	Standard Lock
	Releasing Lock (must be used if a PushIR or EI Handle and Head used).

CLIN & MK/A

	or
If you've selected	If you've selected
an I6/I7 then	a pushIR adaptor
select a	then select a
releasing lock.	releasing lock.

If a Safety Key Adaptor is not required leave part number blank and go to Step 7

	Description	Information		Part No.
ľ	Standard Lock no dusctcover	Removed key ensures door cannot be locked until operator returns from cell with the key	CLIN	1
	Standard Lock with dustcover	Same as SK_1 but with dustcover for dusty environments	CLIS	2
	Standard Lock with padlockable dustcover	Same as SK_3 but pad lockable dustcover allows lockout feature	CLIL	3
	Masterable Lock no dustcover	Same as SK_1 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIN	6
	Masterable Lock with dustcover	Same as SK_2 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIS	7
	Masterable Lock with padlockable dustcover	Same as SK_3 but master lock allows a single key to override all locks (master key mst be carefully controlled on site)	MLIL	8

Description	Part No.
No. of Safety Lock Adaptors required	1 - 9

Total Extracted, Safety & Access Locks in one configuration is Max 9



### Part #

A K

n Part No.	Description
k L	Standard Lock
	Releasing Lock (must be used if a PushIR or EI Handle and Head used).

CINS & MULTO

CI

If you've selected an I6/I7 then select a releasing lock.

or

If you've selected a pushIR adaptor then select a releasing lock.

	Description	Information		Part No.
	Standard Lock no dusctcover	Ensures door cannot be opened without access key. Access key could be held by authorised individuals (e.g. maintenance) or it could have been released by a seperate unit	CLIN	1
\	Standard Lock with dustcover	Same as AK_1 but with dustcover for dusty environments	CLIS	2
/	Standard Lock with padlockable dustcover	Same as AK_3 but pad lockable dustcover allows lockout feature	CLIL	3
	Masterable Lock no dustcover	Same as AK_1 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIN	6
	Masterable Lock with dustcover	Same as AK_2 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIS	7
	Masterable Lock with padlockable dustcover	Same as AK_3 but master lock allows a single key to override all locks (master key must be carefully controlled on site)	MLIL	8

Description Part No.

No. of Access Lock Adaptors required 1 - 9

If an Access Key
Adaptor is not
required leave part
number blank and

i

Total
Extracted,
Safety & Access
Locks in one
configuration is
Max 9



Electrical Switching / Locking

### proLok Body



### proLok+ Body



### proStop Body



### proStopEX/UX Body



proStop Foot



	Part No.	Description	Information
	SL	Short Lok Body	Solenoid controlled safety switch. Holds door locked until signal sent to unlock. No provision for control buttons
•	SR	Short Lok Body - Releasing (must be used if a pushIR or EI handle and	Same as SL but allows pushIR or El handle to override it

head used).

SE	Short Lok Body - Integrated Escape Release	Same as SL but it's integrated escape release button overrides locking mechanism and opens safety contacts (Does not work with key adaptors, El or pushIR)
	or	
f you've se an l6/l7 t select releasing	hen a	If you've selected a pushIR adaptor then select a releasing lock.

Fait NO.	Description	IIIIOIIIIalioii
LL	Long Lok Body	Solenoid controlled safety switch. Holds door locked until signal sent to unlock. With space for control buttons
LR	Long Lok Body -	Same as LL but allows pushIR

		control buttons
LR	Long Lok Body - Releasing (must be used if a pushIR or EI handle and head used).	Same as LL but allows pushIR or EI handle to override it
LE	Long Lok Body - Integrated Escape Release	Same as LL but it's integrated escape release button overrides locking mechanism and opens safety contacts (Does not work with key adaptors, El or pushIR)

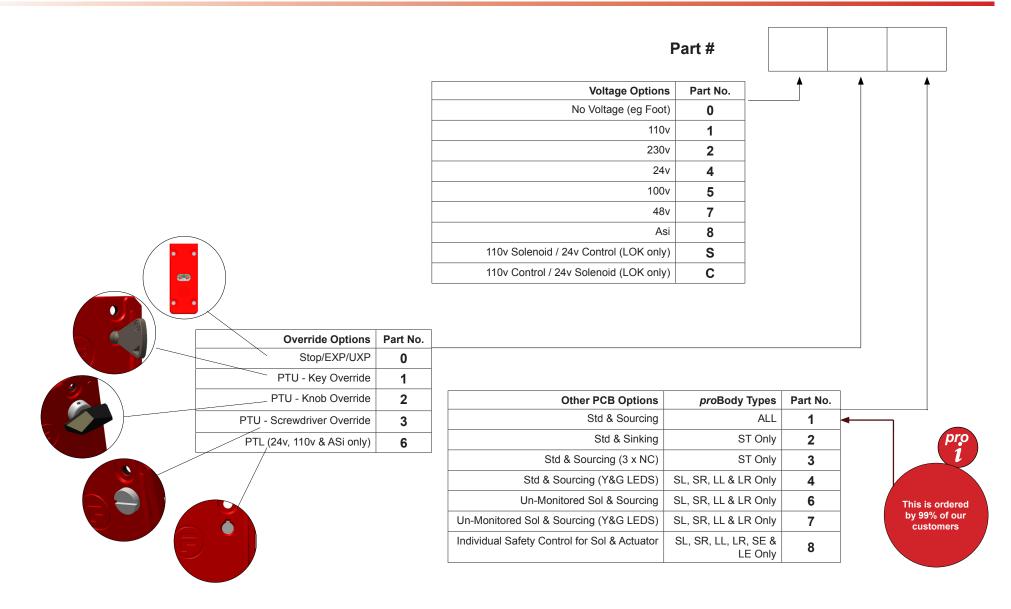
Part No.	Description	Information
ST	Stop Body	Safety switch

Part No.	Description	Information
EX	EU Explosion Stop Body	Safety switches suitable for explosive environments with EU certification
UX	US Explosion Stop Body	Safety switches suitable for explosive environments with US certification

rt No.	Description	Information	Part No.	Description	Information
EX	EU Explosion Stop Body	Safety switches suitable for explosive environments with EU certification	FT	To Terminate non-switch configurations	Terminates non-switch configurations (not suitable for units with pushIR or EI handle)
ΙΙΥ	US Explosion Stop Body	Safety switches suitable for			











proLok+ Body with 4 hole positions

Select Unit	Pa N	
Stand alone Pod with No holes on top of pod case (stand alone unit)	В	0
Pod with one hole on top of pod case for fitting to <i>pro</i> Stop Body	В	1
Pod with two holes on top of pod case for fitting to <i>pro</i> LOK Body	В	2
<i>pro</i> Lok+ Body switch information	L	0

Part No.	Pushbuttton / Lamp Options - 24v only
0	Blank
1	Red Lamp
2	Yellow Lamp
3	Green Lamp
6	Blue Lamp
7	White Lamp
Е	E-Stop (twist reset)
Н	E-Stop (with additional monitoring contacts, twist reset)
Р	E-Stop (pull reset)
U	E-Stop (illuminated twist reset)
L*	Latching selector switch (illuminated)
M*	Momentary selector switch (illuminated)
<b>A</b> *	Latching key switch (90 degree)
R	Red illuminated push button non latching
Υ	Yellow illuminated push button non latching
G	Green illuminated push button non latching
В	Blue illuminated push button non latching
W	White illuminated push button non latching
K	Black non illuminated push button non latching

Bottom Right

**Bottom Left** 

Top Right

Part No.	Sensors - 24v only
N	No additional switch required
С	Coded Magnet - Left Hand (see step 2 for handing)
D	Coded Magnet - Right Hand (see step 2 for handing)
S	RFID - Left Hand (see step 2 for handing)
Т	RFID - Right Hand (see step 2 for handing)

L, M & A
Options
can only be fitted
in top right or
bottom left
positions



If an Option Pod or Long Lok Body is not required leave part number blank and continue to Step 11

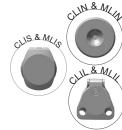




Removal of the key operates a set of safety rated switches. Common uses are: request machine stop, enable teach mode and prevent inadvertent re-start

		Part #	В	K			
				<u> </u>	<u></u>	<u></u>	I
Select Unit	Part No.						
tand alone Pod with No	0						

Stand alone Pod with No holes on top of pod case (stand alone unit)	0	
Pod with one hole on top of pod case for fitting to proStop Body	1	
Pod with two holes on top of pod case for fitting to <i>pro</i> LOK Body	2	



Descrip	otion	Part No.
CLIN	Standard Lock no dustcover	1
CLIS	Standard Lock with dustcover	2
CLIL	Standard Lock with padlockable dustcover	3
MLIN	Masterable Lock no dustcover	6
MLIS	Masterable Lock with dustcover	7
MLIL	Masterable Lock with padlockable dustcover	8





If you require e-stops, push buttons, lamps, coded magnet switch or keyswitch option pods to be ASi enabled you must select one of the options below.



Part No.	Description	Control	Safety	Examples
BA1	ASi Option pod with Control only PCB	1	0	Option pod with illuminated red, green & yellow pushbuttons.
BA2	ASi Option pod with Safety only PCB	0	1	Option pod with e-stop or coded magnet.
BA3	ASi Option pod with 1 Safety and 1 Control PCB	1	1	Option pod with e-stop and red, green & yellow pushbuttons or Option pod with coded magnet and red, green & yellow pushbuttons.
BA4	ASi Option pod with 2 Safety only PCB	0	2	Option pod with e-stop and coded magnet.
BA5	ASi Option pod with 1 Control and 2 Safety PCB	1	2	Option pod with e-stop and coded magnet and pushbuttons or Option pod wih e-stop and keyswitch pod.
BA6	ASi Option pod with 3 Safety only PCB	0	3	Option pod with e-stop, coded magnet, keyswitch pod and pushbuttons.
BA7	ASi Option pod with 1 Control and 3 Safety PCB	1	3	Option pod with e-stop, coded magnet, keyswitch and pushbuttons.



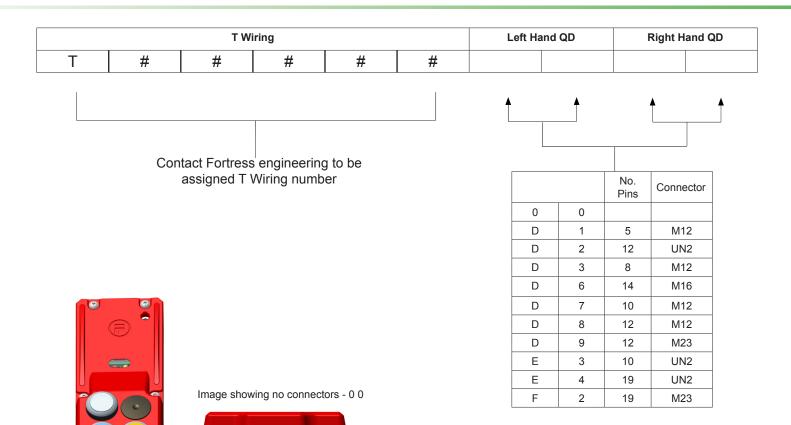
## **Step 13: Quick Disconnect Connector Options**



Quick Disconnect Connector Options																												
	D1 D2 D3 D6		D6		D7				D8		D9		E3			E4			F2									
																		8 • 9 • 1 7 • 12 • • 10 • 2 6 • 11 • 3 5 • • 4										
(30)	20 05 05 04	2	(	(S) (0) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B		7 7 000 1 000 8	5 4 3	c	E P R	G S T	9 — 1 — 10	2	7 6 9 12 8 7 6 9 5 11 1 10 2 3 4		7 6 5 5 11 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		(6)		\$ 4 3 6 @ 9 2 7 8 1				9 (0)	0 19 0 90 16 0 14		O <sub>2</sub> O <sub>3</sub> O <sup>4</sup>		
No. Pin	s	5	No. I	Pins	12	No. Pins	8	No.	. Pins	14	No.	Pins	10	No.	Pins	12	No.	Pins	12	No.	Pins	10	No.	Pins	19	No.	Pins	19
Max Vo	ltage	300v	Max	Voltage	300v	Max Voltage	60v	Max	x Voltage	30v	Max	Voltage	60v	Max	Voltage	60v	Max Voltage 300v		300v	Max Voltage 300v		300v	Max Voltage		300v	Max	Voltage	300v
Connec	ctor	M12	Conr	nector	UN2	Connector	M12	Cor	nnector	M16	Con	nector	M12	Con	nector	M12	Connector M23		M23	Connector UN2		UN2	Connector		UN2		inector	M23
1 B	rown		1	Orange		1 White		Α	Brown		1	White		1	White		1	Brown		1	Orange		1	Violet		1	Violet	
2 W	Vhite		2	Blue		2 Brown		С	Red/Blue		2	Brown		2	Brown		2	Brown/White		2	Blue		2	Red		2	Red	
3 B	lue		3	White/Black		3 Green		Е	Black		3	Green		3	Green		3	Blue		3	White/Black		3	Grey		3	Grey	
4 B	lack		4	Red/Black		4 Yellow		G	Pink		4	Yellow		4	Yellow		4	White		4	Red/Black		4	Red/Blue		4	Red/Blue	
5 G	Brey		5	Green/Black		5 Grey		J	Green		5	Grey		5	Grey		5	Green		5	Green/Black		5	Blue		5	Green	
			6	Orange/Black		6 Pink		L	Blue		6	Pink		6	Pink		6	Yellow		6	Orange/Black		6	Green		6	Blue	
			7	Blue/Black		7 Blue		М	Orange		7	Blue		7	Blue		7	Grey		7	Red		7	Brown		7	Grey/Pink	
			8	Black/White		8 Red		N	Grey/Brown		8	Red		8	Red		8	Pink		8	Green/Yellow		8	White/Green		8	White/Green	
			9	Green/Yellow				0	Violet		9	Orange		9	Orange		9	Red		9	Black		9	White/Yellow		9	White/Yellow	
			10	Red				Р	Red		10	Tan		10	Tan		10	Black		10	White		10	White/Grey		10	White/Grey	
			11	White				R	White			1		11	Black		11	Violet					11	Black		11	Black	
			12	Black				S	Grey					12	Violet		12	Green/Yellow					12	Green/Yellow		12	Green/Yellow	
				I				Т	Yellow														13	Yellow/Brown		13	Yellow/Brown	
								U	Tan														14	Brown/Green		14	Brown/Green	
									ı														15	White		15	White	
																							16	Yellow		16	Yellow	
																							17	Pink		17	Pink	
																							18	Grey/Brown		18	Grey/Brown	
																							19	Grey/Pink		19	Brown	

Left Hand QD Right Hand QD





D1		1	Brown	_	
01	-	2	White		
	-	3	Blue	_	
	}	4	Black	_	
	-	_			
-		5	Grey		
D2		1	Orange	7	Blue w/Black
		2	Blue	8	Black w/White
İ	İ	3	White w/Black	9	Green/Yellow
		4	Red w/Black	10	Red
İ		5	Green w/Black	11	White
		6	Orange w/Black	12	Black
D3		1	White	5	Grey
		2	Brown	6	Pink
		3	Green	7	Blue
		4	Yellow	8	Red
D4		1	White w/Black	5	Orange
D4	}	2	Black	6	Blue
	-	3	White	7	Green/White
		4	Red	<del>-</del>	Green/vvnite
$\vdash$		4	red	_	
D5	1	1	Brown	_	
	ļ	2	White		
	ľ	3	Blue		
		4	Black	_	
		5	Grey	_	
				_	
D6		Α	Brown	N	Grey/Brown
		С	Red/Blue	0	Violet
		Е	Black	Р	Red
		G	Pink	R	White
		J	Green	S	Grey
		L	Blue	Т	Yellow
		М	Orange	U	TN
-	1		1870-74	_	Pink
D7		1	White	6 7	
	-	3	Brown	-	Blue
		_	Green	8	Red
		4	Yellow	9	Orange
		5	Grey	10	TN
D8	I	1	White	7	Blue
	İ	2	Brown	8	Red
	ľ	3	Green	9	Orange
1	ŀ	4	Yellow	10	TN
	ŀ	5	Grey	11	Black
	ŀ	6	Pink	12	Violet
				=	
D9		1	Brown	7	Gray
	[	2	Not Used	8	Pink
	[	3	Blue	9	Red
	[	4	White	10	Black
	[	5	Green	11	Violet
		6	Yellow	12	Green/Yellow
E1		1	Brown	_	
E1	-				
		2	White		
		3	Blue		
-		4	Black		
E2	I	1	Orange	5	White
	ŀ	2	Blue	6	Red
	ŀ	3	White w/Black	7	Green/Yellow
	ŀ	4	Black	8	Red w/Black
1		7	Didok		1. CO W DIGON

D1 **%**D2 **\*\*** 







E2

