

# CERTIFICATE

Issued to:  
Applicant:  
**TCI Telecomunicazioni Italia Srl**  
Via Parma 14  
21047 Saronno (VA), Italy

Manufacturer/Licensee:  
**TCI Telecomunicazioni Italia Srl**  
Via Parma 14  
21047 Saronno (VA), Italy

Product : Electronic controlgear for LED modules  
Trade name(s) : TCI and TN101  
Type(s)/model(s) : DC MAXI JOLLY HV (series), DC MAXI JOLLY SV (series),  
DC MAXI JOLLY US (series), DC MJ (series), MP 40 (series) and MP 50 (series)

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61347-2-13:2014, EN 61347-2-13:2014/A1:2017, EN 61347-1:2015, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2033015

DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 18 October 2017 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 81-101744

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



Massimiliano Triulzi  
Certification Manager

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**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Electronic controlgear for LED modules
Trade name(s)	: TCI and TN101
Type(s)/model(s)	: DC MAXI JOLLY HV (series), DC MAXI JOLLY SV (series), DC MAXI JOLLY US (series), DC MJ (series), MP 40 (series) and MP 50 (series)
Primary voltage	: 110...240 V or 100...240 V
Nature of supply	: alternate current or dc
Rated frequency	: 50/60 Hz
Primary current	: From 0,2 to 0,55 A
Power factor	: From 0,9 C to 0,98
Type of load	: LED modules, power LED
Working voltage U-OUT	: 60 V to 119 V
Class	: -
Protection degree	: For Independent:IP20
Tc	: From 75 to 90 °C
Ambient Temperature	: -25 to +55 °C
Type of thermal protection	: From 110 to 130 °C
Overheating protection	: -
Classification	: Independent or Built in or Integral (OF)

**TESTS****Test requirements**

EN 61347-2-13:2014  
EN 61347-2-13:2014/A1:2017  
EN 61347-1:2015  
EN 62384:2006  
EN 62384:2006/A1:2009

**Test result**

The test results are laid down in DEKRA test file 350033600.

**Additional Information**

For specific Model/Type electrical rating refer to following pages.

DEKRA test report No. 2102636.50 and 2102636.60 are laid down in DEKRA test file 350033600; they contain both test results and critical component list.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

TCI Telecomunicazioni Italia Srl  
Via Parma 14  
21047 Saronno (VA), Italy



General product information: The devices are electronic controlgears for LED modules with SELV output. The devices have a stabilized output current (CC) or voltage (CV) according to S50 DIP switch selection. The output can be reduced by NTC control signal (if present) in case of overheating on the LED module. Dimming features are detailed in the technical specification: PUSH L, 1-10V, MIDNIGHT, BILEVEL, BILEVEL N, PLV, DALI; different commercial codes are assigned for ZLL, BLL, PWM, AM+PWM, AM dimming. The SYNC port can synchronize other devices as master/slave configuration. TCM models have a twin cap enclosure. Vaux can supply an external fan (12 V, max. 100 mA). The PR connection is for protection of the LED module load. MP models are not dimmable.

Primary voltage: 100-240 V (50/60 Hz); 189-255 V (0 Hz); the following models are suitable for centralized emergency installations (EN 50171 and EN 50172) in the rated range; the operative d.c. range in which the product can work is  $\pm 10\%$ ; d.c. can't be used for PUSH L/RED ON/OFF/ OPERATION features. OF models are integral controlgears; BI models are built-in; the other models are independent, class II, IP20.

Type/s (codes: 122xxx)	Primary Current [A]	Power Factor	Output Power (W)	Secondary parameter	$V_{0max}$ (V)	$t_a$ (°C)	$t_c$ (°C)	Thermal Protection
DC MAXI JOLLY US TCM (K2277), DC MAXI JOLLY US DALI TCM (K2278), DC MAXI JOLLY US MIDNIGHT TCM (K227), DC MAXI JOLLY US BILEVEL TCM (K2280), DC MAXI JOLLY US BILEVEL N TCM (K2281), DC MAXI JOLLY US PLV TCM (K2282), MP 50 TCM (K2283), MP 50 PR TCM (K2441), MP 50 S TCM (K2445)	0,25 at 220-240 V  0,55 at 110-127 V  0,42 at 100 V	0,95 [1]	25-50  25-40  25-35 [2]	0,35 -1,05 A 48 V 58 V only for S models [2]	90 -	-25..45/50 [2]	75	130 °C [4] [5]
DC MAXI JOLLY US (K2242), DC MAXI JOLLY US DALI (K2243), DC MAXI JOLLY US MIDNIGHT (K2244), DC MAXI JOLLY US BILEVEL (K2245), DC MAXI JOLLY US BILEVEL N (2269), DC MAXI JOLLY US PLV (K2246), MP 50 K3 (K2224), MP 50 PR K3 (K2438), MP 50 S K3 (K2442), DC MAXI JOLLY ZLL (K2A56)	0,33 at 189-255 V					-25..45/50 /55 at 40 W 700 mA [2]	85	110 °C [4] [5]
DC MAXI JOLLY US BI (K2247), DC MAXI JOLLY US DALI BI (K2248), DC MAXI JOLLY US MIDNIGHT BI (K2249), DC MAXI JOLLY US BILEVEL BI (K2250), DC MAXI JOLLY US BILEVEL N BI (K2270), DC MAXI JOLLY US PLV BI (K2251), MP 50 BI (K2241), MP 50 PR BI (K2439), MP 50 S BI (K2443), DC MJ ZLL BI (K2A57)								
DC MJ US OF (K2252), DC MJ US DALI OF (K2253), DC MJ US MIDNIGHT OF (K2254), DC MJ US BILEVEL OF (K2255), DC MJ US BILEVEL N OF (K2271), DC MJ US PLV OF (K2256), MP 50 OF (K2230), MP 50 PR OF (K2440), MP 50 S OF (K2444), DC MJ ZLL OF (K2A58)						-	80 [3]	-
MP 40 K3 (K2728)	0,22 at 220-240 V	0,92 C- 0,95	25-40 [2]	0,35 -1,05 A 48 V [2]	90 -	-25..45/50 [2]	85	110 °C [4] [5]
MP 40 BI (K2734)	0,45 at 110-127 V							
MP 40 OF (K2740)	0,27 at 170-280 V					-	80 [4]	-

Notes: [1] – Rated value at output power greater than 25 W. [2] – Different values according to DIP switch selection (see label). [3] –  $t_c$  measured on the top of C16 capacitor. [4] – The products have an overheating protection (C.5.a type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2015. [5] – The products are suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015, VDE 0710 T14 for "MM" triangle marking) only if  $t_c \leq 65\text{ °C}$  (TCM models),  $t_c \leq 70\text{ °C}$  (other models) at the ambient temperature and output

power of final application.

Primary voltage: 110-240 V (50/60 Hz); 189-250 V (0 Hz); The following models are suitable for centralized emergency installations (EN 50171 and EN 50172) in the rated range; the operative d.c. range in which the product can work is  $\pm 10\%$ ; d.c. can't be used for PUSH L/RED ON/OFF/ OPERATION features. OF models are integral controlgears; BI models are built-in; the other models are independent, class II, IP20.

Type/s (codes for PWM dimming: 127xxx)	Primary Current [A]	Power Factor	Output Power (W)	Secondary parameter	V <sub>0max</sub> (V)	ta (°C)	tc (°C)	Thermal Protection
DC MAXI JOLLY SV (K2723), DC MAXI JOLLY SV DALI (K2724), MP 50 SV K3 (K2725)	0,25 at 220-240 V	0,92 C- 0,95	25-50 [1]	0,35 -1,05 A [1]	90	-25..45/50 [1]	85	110 °C [3] [4]
DC MAXI JOLLY SV BI (K2729), DC MAXI JOLLY SV DALI BI (K2730), MP 50 SV BI (K2731)	0,55 at 110-127 V							
DC MJ SV OF (K2735), DC MJ SV DALI OF (K2736), MP 50 SV OF (K2737)	0,33 at 170-280 V					-	80 [2]	-
DC MAXI JOLLY SV 40 (K2726), DC MAXI JOLLY SV DALI 40 (K2727), MP 40 SV K3 (K2728)	0,20 at 220-240 V	0,92 C- 0,95	25-40 [1]	0,35 -1,05 A [1]	90	-25..45/50 [1]	85	110 °C [3] [4]
DC MAXI JOLLY SV 40 BI (K2732), DC MAXI JOLLY SV DALI 40 BI (K2733), MP 40 SV BI (K2734)	0,45 at 110-127 V							
DC MJ SV 40 OF (K2738), DC MJ SV DALI 40 OF (K2739), MP 40 SV OF (K2740)	0,27 at 170-280 V					-	80 [2]	-
Type/s (codes for AM+PWM dimming: 125xxx, codes for AM dimming: 151xxx, BLL: 135xxx)	Primary Current [A]	Power Factor	Output Power (W)	Secondary parameter	V <sub>0max</sub> (V)	ta (°C)	tc (°C)	Thermal Protection
DC MAXI JOLLY SV (K2996), DC MAXI JOLLY SV DALI (K2997), DC MAXI JOLLY SV MIDNIGHT (K2998), DC MAXI JOLLY SV BILEVEL (K2999), DC MAXI JOLLY SV BILEVEL N (K2A00), DC MAXI JOLLY SV PLV (K2A01), DC MAXI JOLLY SV BLL (K2A02), DC MAXI JOLLY SV ZLL (K2A03)	0,26 at 220-240 V	0,9 C (Po>21 W)	18,5- 50 [1]	0,35 -1,2 A [1]	60	-25..50	90	110 °C [3] [4]
DC MAXI JOLLY SV BI (K2A05), DC MAXI JOLLY SV DALI BI (K2A06), DC MAXI JOLLY SV MIDNIGHT BI (K2A07), DC MAXI JOLLY SV BILEVEL BI (K2A08), DC MAXI JOLLY SV BILEVEL N BI (K2A09), DC MAXI JOLLY SV PLV BI (K2A10), DC MAXI JOLLY SV BLL BI (K2A11), DC MAXI JOLLY SV ZLL BI (K2A12)	0,42 at 110-127 V	0,96				-25..55		
DC MJ SV OF (K2A14), DC MJ SV DALI OF (K2A15), DC MJ SV MIDNIGHT OF (K2A16), DC MJ SV OFLEVEL OF (K2A17), DC MJ SV OFLEVEL N OF (K2A18), DC MJ SV PLV OF (K2A19), DC MJ SV BLL OF (K2A20), DC MJ SV ZLL OF (K2A21)	0,32 at 170-276 V					-	80 [2]	-

Notes: [1] – Different values according to DIP switch selection (see label). [2] – tc measured on the top of C14

capacitor. [3] – The products have an overheating protection (C.5.a type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2015. [4] – The products are suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015, VDE 0710 T14 for "MM" triangle marking) only if  $t_c \leq 80^\circ\text{C}$  (40 SV and 125xxx/151xxx/135xxx models),  $t_c \leq 75^\circ\text{C}$  (other models) at the ambient temperature and output power of final application.

Type/s (codes for AM+PWM dimming: 125xxx, codes for AM dimming: 151xxx)	Primary Current [A]	Power Factor	Output Power (W)	Secondary parameter	$V_{0\text{max}}$ (V)	$t_a$ ( $^\circ\text{C}$ )	$t_c$ ( $^\circ\text{C}$ )	Thermal Protection
DC MAXI JOLLY SV 40 (K2A23), DC MAXI JOLLY SV DALI 40 (K2A24)	0,21 at 220-240 V	0,9 C ( $P_o > 21\text{ W}$ )	18,5-40 [1]	0,35 -1,2 A [1]	60	-25..50 [1]	90	110 $^\circ\text{C}$ [3] [4]
DC MAXI JOLLY SV 40 BI (K2A26), DC MAXI JOLLY SV DALI 40 BI (K2A27)	0,42 at 110-127 V	0,96				-25..55 [1]		
DC MJ SV 40 OF (K2A29), DC MJ SV DALI 40 OF (K2A30)	0,26 at 170-276 V					-	80 [2]	-

Notes: [1] – Different values according to DIP switch selection (see label). [2] –  $t_c$  measured on the top of C14 capacitor. [3] – The products have an overheating protection (C.5.a type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2015. [4] – The products are suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015, VDE 0710 T14 for "MM" triangle marking) only if  $t_c \leq 80^\circ\text{C}$  (40 SV) at the ambient temperature and output power of final application.

Type/s (codes for AM+PWM dimming: 125xxx, 127xxx, codes for AM dimming: 126xxx, 151xxx, BLL: 135xxx)	Primary Current [A]	Power Factor	Output Power (W)	Secondary parameter	$V_{0\text{max}}$ (V)	$t_a$ ( $^\circ\text{C}$ )	$t_c$ ( $^\circ\text{C}$ )	Thermal Protection
DC MAXI JOLLY US TCM (K2925), DC MAXI JOLLY US 24 TCM (K2A95)*, DC MAXI JOLLY US DALI TCM (K2926), DC MAXI JOLLY US MIDNIGHT TCM (K2927), DC MAXI JOLLY US BILEVEL TCM (K2928), DC MAXI JOLLY US BILEVEL N TCM (K2929), DC MAXI JOLLY US PLV TCM (K2930), DC MAXI JOLLY US BLL TCM (K2921), DC MAXI JOLLY ZLL TCM (K2959)	0,29 at 220-240 V  0,42 at 110-127 V  0,38 at 170-276 V	0,95 ( $P_o > 30\text{ W}$ )  0,98 ( $P_o > 20\text{ W}$ )	25-60  25-40 [1]	0,35 -1,05 A 24 V* [1]	90 -	-25..50	75	110 $^\circ\text{C}$ [4] [5]
DC MAXI JOLLY US (K2931), DC MAXI JOLLY US 24 (K2A96)*, DC MAXI JOLLY US DALI (K2932), DC MAXI JOLLY US MIDNIGHT (K2933), DC MAXI JOLLY US BILEVEL (K2934), DC MAXI JOLLY US BILEVEL N (K2935), DC MAXI JOLLY US PLV (K2936), DC MAXI JOLLY US BLL (K2922), DC MAXI JOLLY ZLL (K2960)						-25..50 /55 at 40 W 700 mA	90	110 $^\circ\text{C}$ [4] [5]
DC MAXI JOLLY US BI (K2937), DC MAXI JOLLY US 24 BI (K2A96)*, DC MAXI JOLLY US DALI BI (K2938), DC MAXI JOLLY US MIDNIGHT BI (K2939), DC MAXI JOLLY US BILEVEL BI (K2940), DC MAXI JOLLY US BILEVEL N BI (K2941), DC MAXI JOLLY US PLV BI (K2942), DC MAXI JOLLY US BLL BI (K2923), DC MAXI JOLLY ZLL BI (K2961)						-25..55		

DC MJ US OF (K2943), DC MJ US 24 OF (K2A98)*, DC MJ US DALI OF (K2944), DC MJ US MIDNIGHT OF (K2245), DC MJ US BILEVEL OF (K2946), DC MJ US BILEVEL N OF (K2947), DC MJ US PLV OF (K2948), DC MJ US BLL OF (K2924), DC MJ ZLL OF (K2962)						-	80 [3]	-
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Notes: [1] – Different values according to DIP switch selection (see label). [3] – tc measured on the top of C16 capacitor. [4] – The products have an overheating protection (C.5.a type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2015. [5] – The products are suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015, VDE 0710 T14 for "MM" triangle marking) only at tc≤65 °C (TCM models), tc≤80 °C (other models) at the ambient temperature and output power of final application.

Type/s (codes for AM+PWM dimming: 127xxx, codes for AM dimming: 151xxx, BLL: 135xxx)	Primary Current [A]	Power Factor	Output Power (W)	Secondary parameter	V <sub>0max</sub> (V)	ta (°C)	tc (°C)	Thermal Protection
DC MAXI JOLLY HV (K2A32), DC MAXI JOLLY HV DALI (K2A33), DC MAXI JOLLY HV MIDNIGHT (K2A34), DC MAXI JOLLY HV BILEVEL (K2A35), DC MAXI JOLLY HV BILEVEL N (K2A36), DC MAXI JOLLY HV PLV (K2A37), DC MAXI JOLLY HV BLL (K2A38), DC MAXI JOLLY HV ZLL (K2A39)	0,30 at 220-240 V  0,44 at 110-127 V  0,38 at 170-276 V	0,95 (Po>30 W)  0,98 (Po>20 W)	28-60  28-40 [1]	0,25 -0,7 A [1]	119	-25..50	90	110 °C [4] [5]
DC MAXI JOLLY HV BI (K2A40), DC MAXI JOLLY HV DALI BI (K2A41), DC MAXI JOLLY HV MIDNIGHT BI (K2A42), DC MAXI JOLLY HV BILEVEL BI (K2A43), DC MAXI JOLLY HV BILEVEL N BI (K2A44), DC MAXI JOLLY HV PLV BI (K2A45), DC MAXI JOLLY HV BLL BI (K2A46), DC MAXI JOLLY HV ZLL BI (K2A47)						-25..55		110 °C [4] [5]
DC MJ HV OF (K2A48), DC MJ HV DALI OF (K2A49), DC MJ HV MIDNIGHT OF (K2A50), DC MJ HV BILEVEL OF (K2A51), DC MJ HV BILEVEL N OF (K2A52), DC MJ HV PLV OF (K2A53), DC MJ HV BLL OF (K2A54), DC MJ HV ZLL OF (K2A55)						-	80 [3]	-

Notes: [1] – Different values according to DIP switch selection (see label). [3] – tc measured on the top of C16 capacitor. [4] – The products have an overheating protection (C.5.a type) and comply with temperature limit of clause 4.16.2 of EN 60598-1:04 ("F" triangle marking), EN 60598-1:2015. [5] – The products are suitable for direct mounting on normally flammable surfaces (EN 60598-1:2015, VDE 0710 T14 for "MM" triangle marking) only at tc≤80 °C at the ambient temperature and output power of final application.

Connections		
Input supply	PRI	screw terminal block 0,75...2,5 mm <sup>2</sup> (for independent models) screwless terminal block 0,5...1,5 mm <sup>2</sup> (for BI and OF models)
Input for dimming or control	PUSH L, DA, OPERATION	screwless terminal block 0,75...1,5 mm <sup>2</sup>
Input for dimming or control	1..10V, LEVEL, NTC	screw terminal block 0,2...1,5 mm <sup>2</sup>
Output reference	PR	screwless terminal block 0,5...1,5 mm <sup>2</sup>
Auxiliary output	Vaux	screw terminal block 0,2...1,5 mm <sup>2</sup>

Syncro	SYNC	connector
Output load	SEC	screw terminal block 0,75...2,5 mm <sup>2</sup> (for independent models) screwless terminal block 0,5...1,5 mm <sup>2</sup> (for BI and OF models)

Additional information							
All models have the following features: AC/DC P/S for LED; stabilized output current or voltage (not for all models); multiple value load; short-circuit proof type; impulse withstand category II; Pollution degree 2 (Normal Pollution); Material group IIIa; the material of enclosure was tested with favourable result for Glow-wire at temperature 850/950 °C. BLL models have BLL wireless control. ZLL models have ZLL wireless control.							
INSULATION	PRI	PUSH L, RED OFF, RED ON, OPERATION	DALI	PR	SYNC, NTC, 1-10V, LEVEL, PUSH LV	SEC	
PRI	-	basic	basic	double	double	double	
PUSH L, RED OFF, RED ON, OPERATION	basic	-	basic	double	double	double	
DALI	basic	basic	-	Supplementary	double	double	
PR	double	double	Supplementary	-	basic	basic	
SYNC, NTC, 1-10V, LEVEL, PUSH LV	double	double	double	basic	-	functional	
SEC	double	double	double	basic	functional	-	
In the final application the connections to the controlgears shall be according to IEC 60598-1 or national deviations of the country where installed. Creepage distances and clearances for built-in and OF (integrated without enclosure) models shall comply with the requirements of IEC/EN 60598-1 when the device is installed in the final application:							
MODELS:					INSULATION:	Between active parts and the bottom surface of enclosure	Between active parts and external surfaces of enclosure
DC MAXI JOLLY US TCM, DC MAXI JOLLY US 24 TCM, DC MAXI JOLLY US DALI TCM, DC MAXI JOLLY US MIDNIGHT TCM, DC MAXI JOLLY US BILEVEL TCM, DC MAXI JOLLY US BILEVEL N TCM, DC MAXI JOLLY US PLV TCM, MP 50 TCM, MP 50 PR TCM, MP 50 S TCM, DC MAXI JOLLY US, DC MAXI JOLLY US 24, DC MAXI JOLLY US DALI, DC MAXI JOLLY US MIDNIGHT , DC MAXI JOLLY US BILEVEL, DC MAXI JOLLY US BILEVEL N, DC MAXI JOLLY US PL, MP 50 K3, MP 50 PR K3, MP 50 S K3, MP 40 K3, DC MAXI JOLLY SV or K2723, DC MAXI JOLLY SV DALI, MP 50 SV K3, DC MAXI JOLLY SV 40, DC MAXI JOLLY SV DALI 40, MP 40 SV K3, DC MAXI JOLLY SV MIDNIGHT; DC MAXI JOLLY SV BILEVEL; DC MAXI JOLLY SV BILEVEL N; DC MAXI JOLLY SV PLV, DC MAXI JOLLY SV BLL, DC MAXI JOLLY SV ZLL, DC MAXI JOLLY US BLL TCM; DC MAXI JOLLY ZLL TCM, DC MAXI JOLLY US BLL, DC MAXI JOLLY ZLL						double	double
DC MAXI JOLLY US BI, DC MAXI JOLLY US 24 BI, DC MAXI JOLLY US DALI BI, DC MAXI JOLLY US MIDNIGHT B, DC MAXI JOLLY US BILEVEL B, DC MAXI JOLLY US BILEVEL N B, DC MAXI JOLLY US PLV B, MP 50 BI, MP 50 PR BI, MP 50 S BI, MP 40 BI, DC MAXI JOLLY SV BI, DC MAXI JOLLY SV DALI BI, MP 50 SV BI, DC MAXI JOLLY SV 40 BI, DC MAXI JOLLY SV DALI 40 BI, MP 40 SV BI, DC MAXI JOLLY SV MIDNIGHT BI, DC MAXI JOLLY SV BILEVEL BI, DC MAXI JOLLY SV BILEVEL N BI, DC MAXI JOLLY SV PLV BI, DC MAXI JOLLY SV BLL BI, DC MAXI JOLLY SV ZLL BI, DC MAXI JOLLY US BLL BI; DC MAXI JOLLY ZLL BI						double	-
b DC MJ US DALI OF, DC MJ US MIDNIGHT OF, DC MJ US BILEVEL OF, DC MJ US BILEVEL N OF, DC MJ US PLV OF, MP 50 OF, MP 50 PR OF, MP 50 S OF, MP 40 OF, DC MJ SV OF, DC MJ SV DALI OF, MP 50 SV OF, DC MJ SV 40 OF, DC MJ SV DALI 40 OF, MP 40 SV OF, DC MJ SV MIDNIGHT OF, DC MJ SV OFLEVEL OF, DC MJ SV OFLEVEL N OF, DC MJ SV PLV OF, DC MJ SV BLL OF, DC MJ SV ZLL OF, DC MJ US BLL OF; DC MJ ZLL OF						-	-