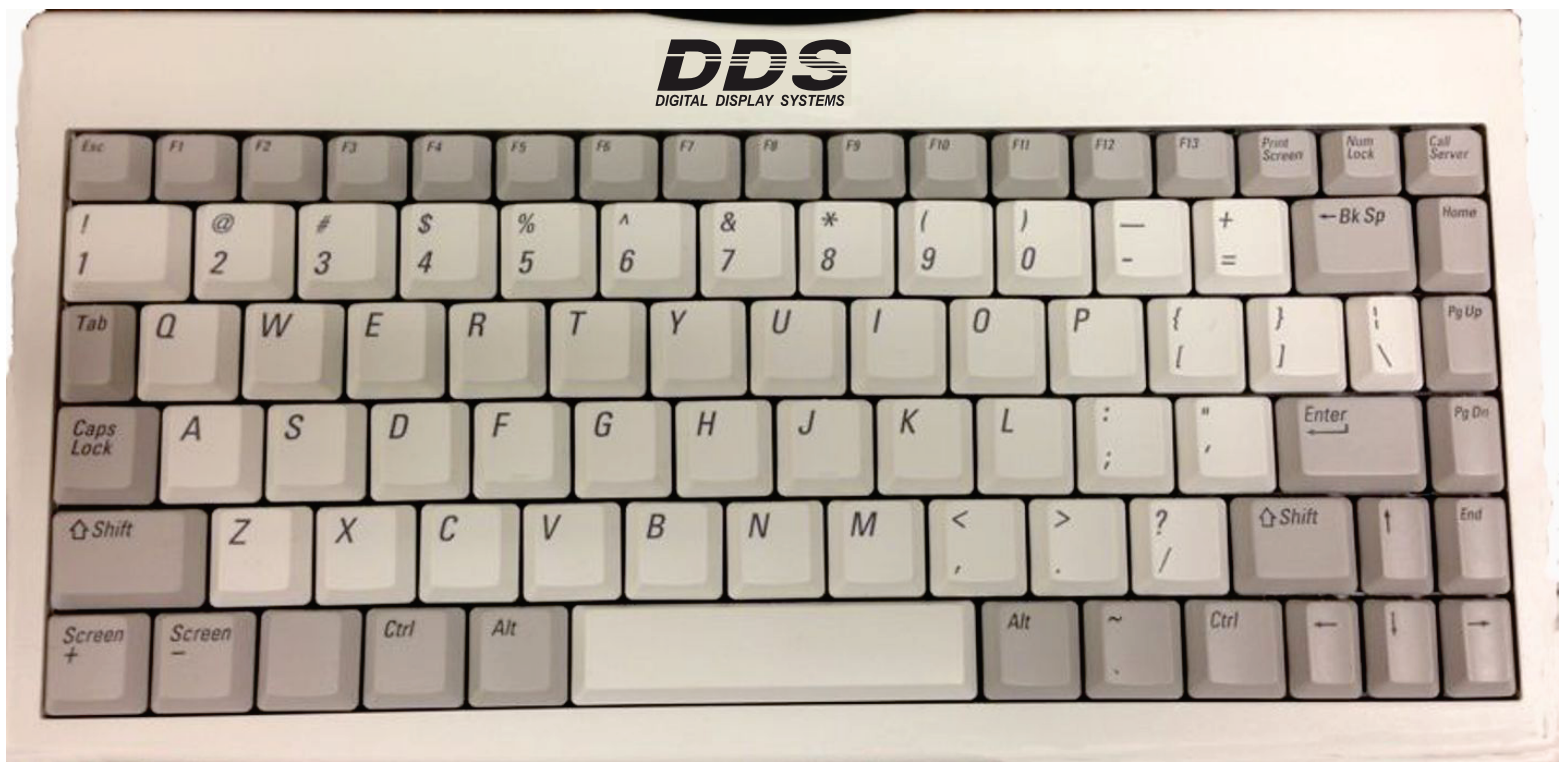


IRR REMOTE KEYBOARD MANUAL



11.5"x 5.5"x 1"

TYPICAL TIME ZONE CLOCK CONFIGURATION

GROUP CLOCK NUMBERS



**MASTER CLOCK (00)
HAS ALL AVAILABLE
REGISTERS INCLUDING
MSG BOARD REGISTER**

**SLAVE CLOCKS (01,...,04) - TIME IS SET BY THE MASTER CLOCK.
ZONE, DAY LIGHT SAVINGS AND LOCATION NAME ARE SET INDIVIDUALLY**
**THE CALENDAR WILL HAVE THE SAME TIME ZONE AND DAYLIGHT SAVINGS
AS THE MASTER**

* INFRARED SENSOR
ON LEFT

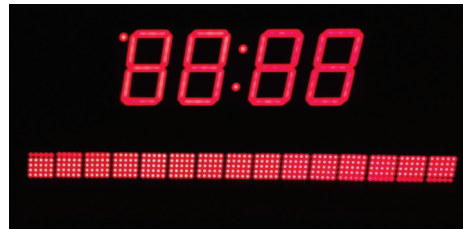


**TO ACCESS THE CLOCK ENTER THE CLOCK NUMBER, 00,...,04....
THE RIGHT AND LEFT ARROWS ON THE KEYBOARD (← →) WILL MOVE
BETWEEN REGISTERS, AND THE UP/DOWN ARROWS (↑ ↓) WILL CHANGE
THE REGISTER VALUE.**

**THE MESSAGE BOARD IS ACCESSED THROUGH THE MASTER CLOCK REGISTER,
SEE DETAILED INSTRUCTIONS IN THE NEXT PAGES.**

*** DIRECT THE KEYBOARD TOWARDS THE INFRA RED SENSOR ON THE
LEFT SIDE OF THE CLOCK**

AT POWER UP THE CLOCK DOES A DISPLAY TEST OF ALL LED's

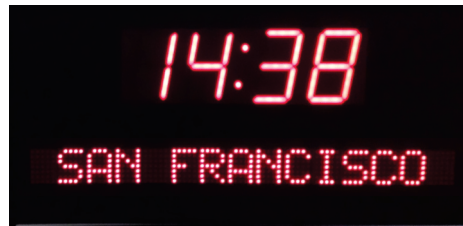


AFTER THE DISPLAY TEST THE CLOCK DISPLAYS ITS CLOCK NUMBER FOR ONE SECOND.

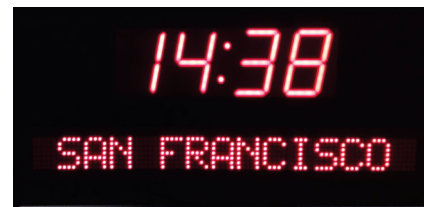
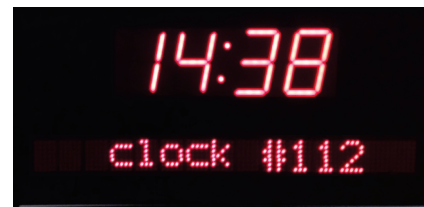
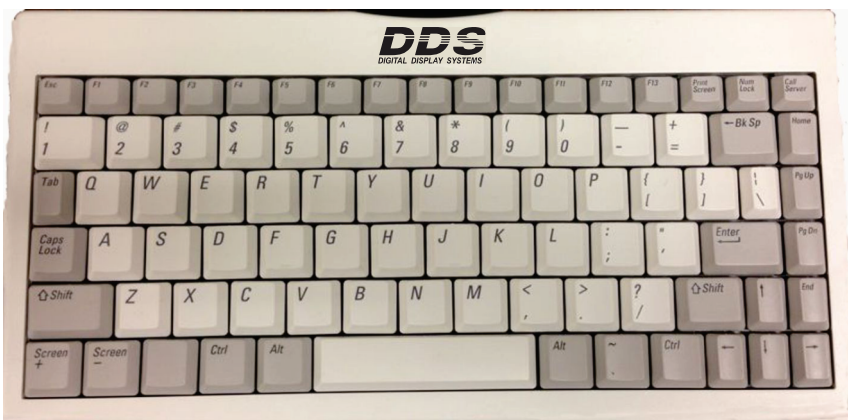


NOTE:
MOST TIME ZONES
START WITH (00)

THE DISPLAY THEN DISPLAYS THE TIME AND LOCATION.



TO ACCESS THE CLOCK YOU ENTER THE CLOCK NUMBER, THE CLOCK NUMBER APPEARS ON THE BOTTOM DISPLAY AND THE HOURS FLASH, THIS ALLOWS YOU TO SET THE HOURS USING THE UP/DOWN ARROWS.



PRESS THE RIGHT ARROW TO STEP TO THE MINUTES, THE MINUTES START FLASHING ALLOWING YOU TO USE THE UP/DOWN ARROWS TO SET MINUTES. (THE SECONDS ARE ZEROED EACH TIME YOU ADVANCE THE MINUTES)



PRESS THE RIGHT ARROW TO STEP TO THE MONTH/DAY, THE MONTH START FLASHING ALLOWING YOU TO USE THE UP/DOWN ARROWS TO SET.



PRESS THE RIGHT ARROW TO STEP TO THE DAY, THE DAY START FLASHING ALLOWING YOU TO USE THE UP/DOWN ARROWS TO SET.



PRESS THE RIGHT ARROW TO STEP TO THE YEAR, THE YEAR STARTS FLASHING ALLOWING YOU TO USE THE UP/DOWN ARROWS TO SET.



PRESS THE RIGHT ARROW TO STEP TO THE OSCILLATOR CORRECTION, THE OSC CORR STARTS FLASHING ALLOWING YOU TO USE THE UP/DOWN ARROWS TO SET.



PRESS THE RIGHT ARROW TO STEP TO THE MESSAGE DISPLAY USE THE UP/DOWN TO ENTER A NEW MESSAGE.



PRESS THE UP/DOWN TO ENTER A NEW MESSAGE, PRESS AND HOLD THE (← Bk Sp KEY) TO ERASE YOUR OLD MESSAGE AND TO ENTER YOUR NEW MESSAGE, THEN PRES THE (ENTER KEY) TO ACCEPT, THEN PRESS THE RIGHT ARROW TO GO TO THE (msg style).



THERE ARE FIVE STYLES (0) IS LEFT JUSTIFY, (1) IS RIGHT JUSTIFY, (2) IS CENTER JUSTIFY, (3) IS SLOW SCROLL, (4) IS MEDIUM SCROLL AND (5) IS FAST SCROLL. PRESS THE RIGHT ARROW AND YOU WILL GO THE CLOCK NUMBER.



PRESS THE RIGHT ARROW TO STEP TO THE CLOCK NUMBER DISPLAY.



PRESS THE RIGHT ARROW TO STEP TO THE DAYLIGHT SAVINGS, THE DST START FLASHING ALLOWING YOU TO USE THE UP/DOWN ARROWS TO SET.



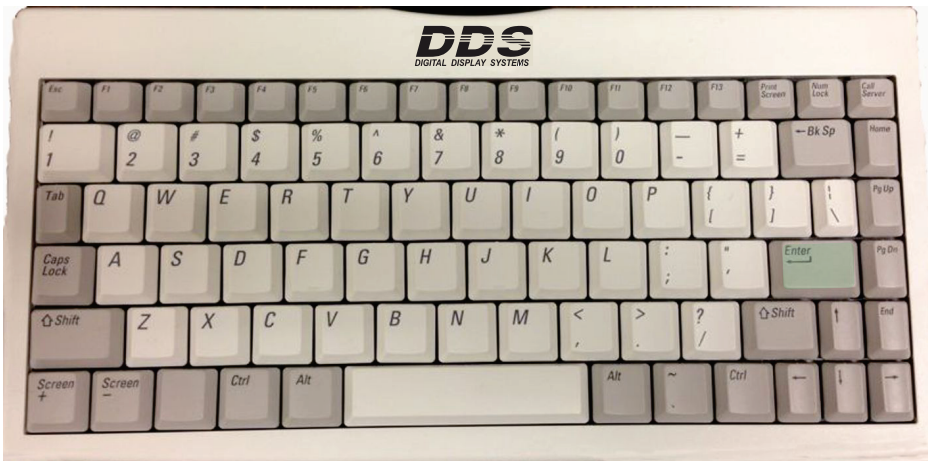
PRESS THE RIGHT ARROW TO STEP TO THE ZONE LOCATION, THE ZONE START FLASHING ALLOWING YOU TO USE THE UP/DOWN ARROWS TO SET.



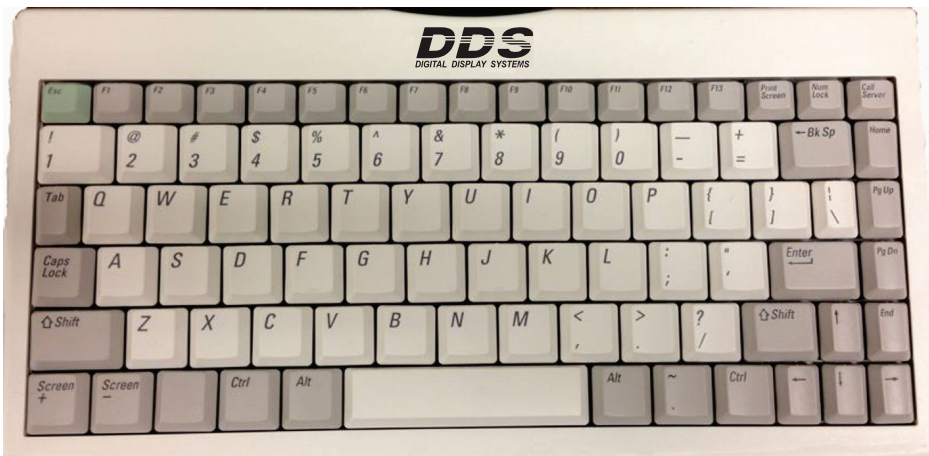
PRESS THE RIGHT ARROW TO STEP TO THE ENTER TEXT, THE TEXT AND DOUBLE QUOTES START FLASHING ALLOWING YOU TO USE THE UP OR DOWN ARROWS TO THE ENTER TEXT REGISTER.

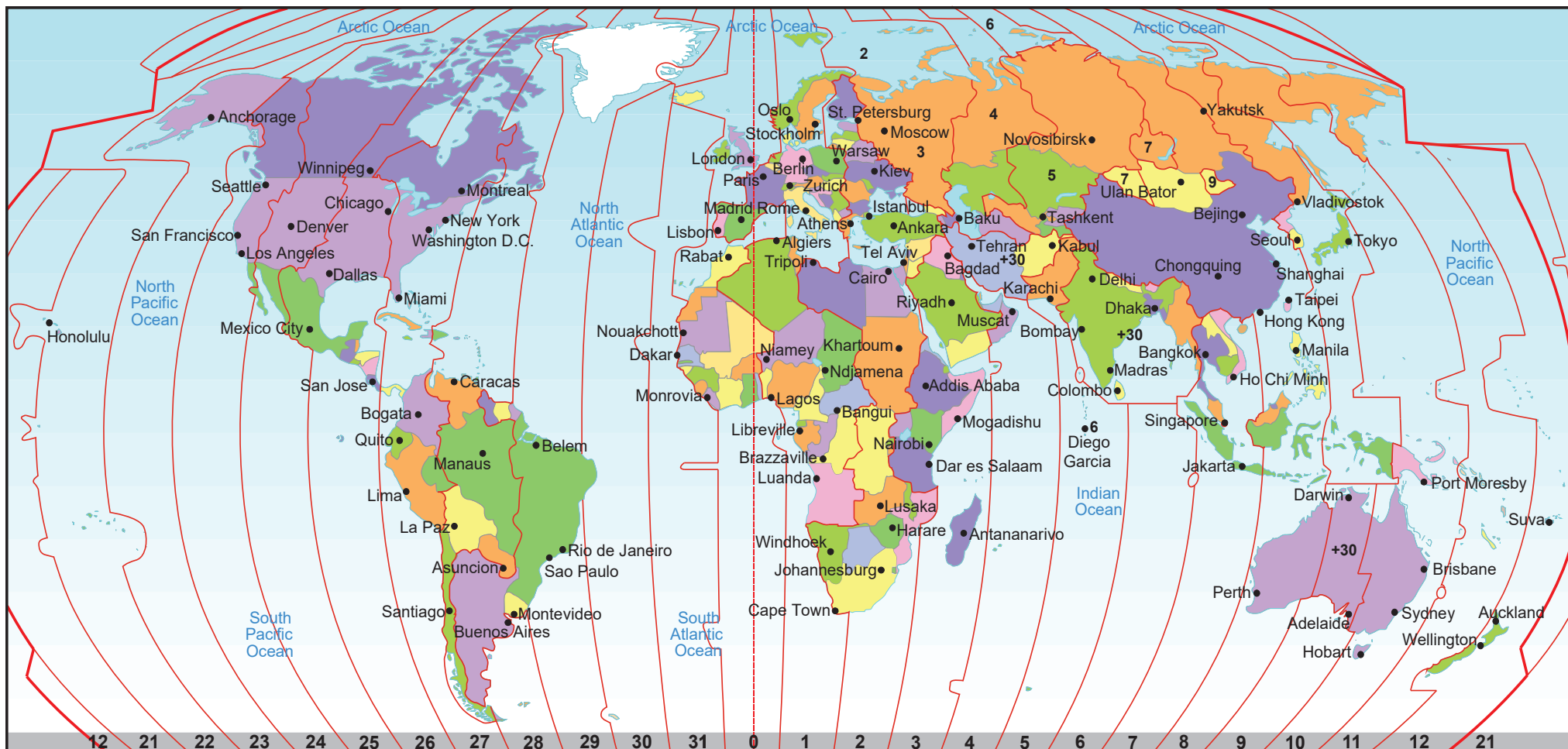


THE ENTER TEXT AND DOUBLE QUOTES ARE NOW FLASHING, YOU CAN NOW KEY IN THE TEXT UPPER OR LOWER CASE, AFTER ENTERING NO MORE THEN 15 CHARACTERS PRESS THE ENTER KEY TO ACCEPT.



PRESS THE ESCAPE KEY TWICE TO RETURN TO THE CLOCK AND THE SETTING IS COMPLETE.





CORRECTION REGISTER DETAILED INSTRUCTIONS

THE CORRECTION REGISTER IS USED TO TRIM THE TIME KEEPING CRYSTAL, PLUS OR MINUS SECONDS OF A MONTH . TO AVODE CHASING THE CXR (CRYSTAL) THE MINIMUM CORRECTION INTERVAL SHOULD BE ONE MONTH, TWO MONTHS PREFERRED. WHEN IN THE CORRECTION REG. A SMALL C (c) OR A C- (c̄) IS DISPLAYED TO THE LEFT AND UP TO THREE DIGITS TO THE RIGHT. THE NUMBERS TO THE RIGHT REPRESENT SECONDS PER MONTH, THE (c) IS ADDING SECONDS AND THE (c̄) IS SUBTRACTING SECONDS. (MAXIMUM SETTING IS USUALLY 2 SEC + OR -)

DDS Daylight Saving Modes

Mode	Country	Start		Stop	
0	none				
1	(Old) US, Canada, Bermuda	1 st Sunday in Apr.	0159 to 0300	Last Sunday in Oct.	0159 to 0100
2	Brazil	3 rd Sunday in Oct.	0159 to 0300	2 nd Sunday in Feb.	0159 to 0100
3	Argentina	3 rd Sunday in Oct.	0159 to 0300	1 st Sunday in Mar.	0159 to 0100
4	Chile	3 rd Sunday in Oct.	0159 to 0300	2 nd Sunday in Mar.	0159 to 0100
5	UK, Ireland	Last Sunday in Mar.	0159 to 0300	Next-to-Last Sunday in Oct.	0159 to 0100
6	Europe	Last Sunday in Mar.	0159 to 0300	Last Sunday in Sep.	0159 to 0100
7	Israel	4 th Sunday in Apr.	0159 to 0300	1 st Sunday in Sep.	0159 to 0100
8	(Old) Australia	Last Sunday in Oct.	0159 to 0300	3 rd Sunday in Mar.	0159 to 0100
9	Forced 1 hr. advance				
10	Forced ½ hr. advance				
11	(Old) New Zealand	2 nd Sunday in Oct	0159 to 0300	3 rd Sunday in Mar.	0159 to 0100
12	Newfoundland (1/2 hr. forced advance plus DST)	1 st Sunday in Apr.	0159 to 0300	Last Sunday in Oct.	0159 to 0100
13	(Old) Australia	Last Sunday in Oct.	0159 to 0300	Last Sunday in Mar.	0259 to 0200
14	Paraguay	Apr. 1	0059 to 0200	Oct. 1	0159 to 0100
15	(Old) New Zealand	1 st Sunday in Oct.	0159 to 0300	1 st Sunday in Mar. on or after 15 th	0259 to 0200
16	Greece	Last Sunday in Mar.	0259 to 0400	Last Sunday in Oct.	0359 to 0300
17	Iraq	Last Sunday in Mar.	0059 to 0200	Last Sunday in Sep.	0159 to 0100
18	Lebanon	May 1	0059 to 0200	Oct. 16	0159 to 0100
19	Egypt	May 1	0159 to 0300	Oct. 1	0259 to 0200
20	UK, Ireland, Scotland	Last Sunday in Mar.	0059 to 0200	Last Sunday in Oct.	0159 to 0100
21	Cuba	1 st Sunday in Mar. on or after 14 th	0059 to 0200	1 st Sunday in Oct. on or after 8 th	0159 to 0100
22	Brazil	1 st Sunday in Oct.	0159 to 0300	1 st Sunday in Feb. on or after 11 th	0259 to 0200
23	Chile	1 st Sunday in Oct on or after 9 th	0159 to 0300	1 st Sunday in Mar. on or after 9 th	0259 to 0200
24	Iran	Mar. 21	0159 to 0300	Sept. 23	0259 to 0200
25	Forced ¼ hr. advance				
26	Forced ¾ hr. advance				
27	Egypt	Last Wednesday in Apr.	2359 to 0100	Last Wednesday in Oct.	2359 to 2300
28		Last Sunday in Mar.	0159 to 0300	Last Sunday in Nov.	0159 to 0100
29		1 st Sunday in Mar.	0159 to 0300	Last Sunday in Nov.	0159 to 0100
30	(New) US Starting 2007	2 nd Sunday in Mar.	0159 to 0300	1 st Sunday in Nov.	0159 to 0100
31	(New) Australia	1 st Sunday in Oct.	0159 to 0300	1 st Sunday in Apr.	0159 to 0100
32	(New) New Zealand	Last Sunday in Sep.	0159 to 0300	1 st Sunday in Apr.	0159 to 0100

The number in parentheses is the the **Daylight Number** and the next number is the **Zone Location**.

ABIDJAN	(0) 0	DENMARK	(20) 1	JERUSALEM	(7) 2	NEWFOUNDLAND	(12) 28
ABU DHABI	(0) 14	DENVER	(30) 25	JOHANNESBURG	(0) 2	NIGERIA	(0) 1
ADDIS ABABA	(0) 3	DETROIT	(30) 27	JORDAN	(20) 2	NORTH CAROLINA	(30) 27
ADELAIDE	(10) 9	DHAKA	(0) 6	JUNEAU	(30) 23	NORTH DAKOTA	(30) 26
AFGHANISTAN	(10) 4	DIEGO GARCIA	(0) 6			NORWAY	(20) 1
AFRICA	(0) 3	DOHA	(0) 3	KABUL	(10) 4		
ALABAMA	(30) 26	DOVER	(30) 27	KADENA	(0) 9	OHIO	(30) 27
ALASKA	(30) 23	DUBAI	(0) 4	KANDAHAR	(10) 4	OKINAWA	(0) 9
ALBUQUERQUE	(30) 25	DUBLIN	(20) 0	KANSAS	(30) 26	OKLAHOMA	(30) 26
ALEUTIAN	(0) 22	DULLES	(30) 27	KAPAUN	(20) 1	OMAHA	(30) 26
AL UDEID	(0) 3			KARACHI	(0) 5	OMAN	(0) 4
AMSTERDAM	(20) 1	EAST COAST	(30) 27	KENTUCKY	(30) 27	ONIZUKA (CA)	(30) 24
ANCHORAGE	(0) 23	EDINBURGH	(20) 0	KENYA	(0) 3	OREGON	(30) 24
ANDERSON	(0) 10	ECUADOR	(0) 27	KEY WEST	(30) 27	OTTAWA	(30) 27
ANKARA	(20) 2	EGYPT	(27) 2	KOBE	(0) 9		
ANTIGUA	(12) 28	ELMENDORF	(30) 23	KODIAK	(30) 23	PACIFIC	(30) 24
ARGENTINA	(0) 29	EL SALVADOR	(0) 26	KOREA	(0) 9	PACOM AK/HI	(0) 22
ARIZONA	(0) 25	EL SEGUNDO	(30) 24	KOSOVO	(20) 2	PAKISTAN	(0) 5
ARKANSAS	(30) 26	EUCOM	(20) 1	KUALA LUMPUR	(0) 8	PARIS	(20) 1
ATHENS	(20) 2	EUROPE	(20) 1	KUWAIT	(0) 3	PENNSYLVANIA	(30) 27
ATLANTA	(30) 27			KWAJALEIN	(0) 12	PENTAGON	(30) 27
ATLANTIC	(30) 28	FLORIDA	(30) 27	KYRGYZSTAN	(16) 5	PERSIAN GULF	(0) 3
AUCKLAND	(32) 12	FORT BELVOIR	(30) 27			PERTH	(0) 8
AUSTRIA	(20) 1	FORT BLISS	(30) 26	LANGLEY AFB	(30) 27	PERU	(0) 27
AUSTRALIA	(31) 10	FORT BRAGG	(30) 27	LAS VEGAS	(30) 24	PHILADELPHIA	(30) 27
AVCIRO	(20) 0	FORT CAMPBELL	(30) 26	LITHUANIA	(20) 2	PHILIPPINES	(0) 8
AZORES	(20) 1	FORT HOOD	(30) 26	LONDON	(20) 0	PHOENIX	(0) 25
		FORT LEWIS	(30) 24	LOS ANGELES	(30) 24	POLAND	(20) 1
BAGHDAD	(0) 3	FORSCOM	(30) 27	LOUISIANA	(30) 26	PRAGUE	(20) 1
BAGRAM	(10) 4	FREDERICTON	(30) 28	LUXEMBOURG	(20) 1	PRINCE SULTAN	(0) 3
BAHRAIN	(0) 3	FR. GUIANA	(0) 29			PUERTO RICO	(0) 28
BALIKPAPAN	(0) 8	FRANKFURT	(20) 1	MADRID	(20) 1	PUNE	(10) 15
BALTIMORE	(30) 27			MAINE	(30) 27		
BANGALORE	(10) 5	GENEVA	(20) 1	MANAGUA	(0) 26	QATAR	(0) 3
BANGKOK	(0) 7	GERMANY	(20) 1	MANILA	(0) 8		
BARBADOS	(30) 28	GEORGIA	(30) 27	MARYLAND	(30) 27	RAMSTEIN	(20) 1
BARCELONA	(20) 1	GHANA	(0) 0	MASSACHUSETTS	(30) 27	REDMOND	(30) 24
BASEL	(20) 1	GMT	(0) 0	McCHORD	(30) 24	RHODE ISLAND	(30) 27
BEIJING	(0) 8	GREECE	(20) 2	MCDILL AFB	(30) 27	RIO	(22) 29
BEIRUT	(16) 2	GREELY	(30) 23	MEDITERRANEAN	(20) 1	RIO DE JANEIRO	(0) 29
BERMUDA	(30) 28	GREENWICH	(0) 0	MELAKA	(0) 8	RIYADH	(0) 3
BOGOTA	(0) 27	GUAM	(0) 10	MELBOURNE	(13) 10	ROMANIA	(30) 2
BOMBAY	(10) 5	GUATEMALA	(0) 26	MEMPHIS	(30) 26	ROMEO	(30) 27
BOSNIA	(20) 1			MEXICO CITY	(1) 26	RUSSIA	(20) 3
BRAZIL	(22) 29	HAGUE	(20) 1	MIAMI	(30) 27		
BRUSSELS	(20) 1	HALIFAX	(30) 28	MICHIGAN	(30) 27	SALT LAKE CITY	(30) 25
BUDAPEST	(20) 2	HAWAII	(0) 22	MIDWAY	(30) 21	SAMOA	(0) 21
BUENOS AIRES	(0) 29	HELSINKE	(20) 2	MILAN	(20) 1	SAN DIEGO	(30) 24
		HICKAM	(0) 22	MILLINGTON	(30) 26	SAN FRANCISCO	(30) 24
CAIRO	(27) 2	HOLLAND	(20) 1	MINNESOTA	(30) 26	SANTIAGO	(23) 28
CALGARY	(30) 25	HONDURAS	(0) 6	MISAWA	(0) 9	SAO PAULO	(22) 29
CALIFORNIA	(30) 24	HONG KONG	(0) 8	MISSISSIPPI	(30) 26	SAUDI ARABIA	(0) 3
CANBERRA	(31) 10	HUNTSVILLE, AL	(30) 27	MISSOURI	(30) 26	SCOTLAND	(20) 0
CAPE TOWN	(0) 2	HURLBURT	(30) 27	MOLESWORTH	(20) 0	SCOTT AFB	(30) 26
CARACAS	(30) 28	HYDERABAD	(10) 5	MOMBASA	(0) 3	SEOUL	(0) 9
CAYAMAN ISLANDS	(0) 27			MONACO	(20) 1	SEATTLE	(30) 24
CENTCOM	(0) 3	ICELAND	(0) 0	MONTANA	(30) 25	SHANGHAI	(0) 8
CENTRAL	(30) 26	IDAHO	(30) 25	MONTREAL	(30) 27	SHEMYA	(30) 22
CENTRAL EUROPE	(20) 1	ILLINOIS	(30) 26	MOSCOW	(20) 3	SIERRA	(30) 26
CET	(20) 1	INCIRLIC	(20) 2	MOUNTAIN	(30) 25	SILICON VALLEY	(30) 24
CHENNAI	(10) 5	INDIA	(10) 5	MUMBAI	(10) 5	SINGAPORE	(0) 8
CHICAGO	(30) 26	INDIANA	(30) 27	MUNICH	(20) 1	SLOVENIA	(20) 1
CHILE	(23) 28	INDONESIA	(0) 8			SOMALIA	(0) 3
CHINA	(0) 8	IOWA	(30) 26	NAIROBI	(0) 3	SOUTH AFRICA	(0) 2
COLORADO SPRINGS	(30) 25	IRAN	(10) 3	NAPLES	(20) 1	SOUTH CAROLINA	(30) 27
COLOMBIA	(0) 27	IRAQ	(0) 3	NEBRASKA	(30) 26	SOUTH DAKOTA	(30) 26
COMALAPA	(0) 26	IRELAND	(20) 0	NETHERLANDS	(20) 1	SPAIN	(20) 1
CONNECTICUT	(30) 27	ISLAMABAD	(0) 5	NEVADA	(30) 24	ST. JOHN'S	(12) 28
COPENHAGEN	(20) 1	ISRAEL	(7) 2	NEW DELHI	(10) 5	ST. LOUIS	(30) 26
CURACAO	(0) 4	ISTANBUL	(20) 1	NEW HAMPSHIRE	(30) 27	STUTTGART	(20) 1
		ITALY	(20) 1	NEW JERSEY	(30) 27	SW ASIA	(0) 8
DAKAR	(0) 31			NEW MEXICO	(30) 25	SWITZERLAND	(20) 1
DALLAS	(30) 26	JAKARTA	(0) 7	NEW YORK	(30) 27	SYDNEY	(31) 10
DELAWARE	(30) 27	JAPAN	(0) 9	NEW ZEALAND	(32) 12		

The number in parentheses is the the *Daylight Number* and the next number is the *Zone Location*.

TAHITI	(0) 22
TAIPEI	(0) 8
TAIWAN	(0) 8
TAMPA	(30) 27
TEHRAN	(10) 3
TEL AVIV	(6) 2
TENNESSEE-NASH	(30) 26
TENNESSEE-KNOX	(30) 27
TEXAS	(30) 26
THAILAND	(0) 7
TIJUANA	(0) 26
TOKYO	(0) 9
TORONTO	(30) 27
TRAVIS AFB	(30) 24
TURKEY	(20) 2
TYRATAM	(20) 6
UAE	(0) 4
UKRAINE	(20) 2
UNITED KINGDOM	(20) 0
URUGUAY	(23) 29
UTAH	(30) 25
UTC	(0) 0
UZBEKISTAN	(0) 5
VANCOUVER	(30) 24
VENEZUELA	(30) 28
VERMONT	(30) 27
VIENNA	(20) 1
VIRGINIA	(30) 27
VLADIVOSTOK	(20) 10
WASHINGTON	(30) 24
WASHINGTON D.C.	(30) 27
WEST COAST	(30) 24
WEST VIRGINIA	(30) 27
WICHITA	(30) 26
WIESBADEN	(20) 1
WILLEMSTAD	(20) 1
WINNIPEG	(30) 26
WISCONSIN	(30) 26
WOOMERA	(13) 10
WYOMING	(30) 25
YOKOHAMA	(0) 9
YOKOTA	(0) 9
ZUG	(20) 1
ZULU	(0) 0
ZURICH	(20) 1