

Tower Clock - Multi Faces

QUOTATION

To:

Mr. Erik

Bellsica Sinar Prima

Date: 28 July 2012

Specifications

- Diameter 1.2 Meter
- Multi Sides 1 Tower and 4 sides for each tower
- Master/Slave clocks
- GPS Synchronize
- Music Melody
- Illumination at Night



GFClock Yasa Persada

Showroom : Parkir Masjid Jami Al-Fajri
Jl. Masjid Alfajri No.17 Pejaten Barat - Pasar Minggu - Jakarta Selatan
12510

Telp. +62-21-41518840 ; 70978302

Office : Graha Mobisel 1st Floor
Jl. Mampang Prapatan Raya No.139 - Jakarta Selatan 12740

Telp. +62-21-7975555 Ext.6049

Workshop : Jl. Masjid Alfajri No.11/44 Pejaten Barat – Pasar Minggu
Jakarta Selatan 12510

Telp. +62-828-7790027

Phone : +62-21-79170265 E-mail : anggono@gfclock.com
+62-21-98529616 MSN : baszukv@hotmail.com

Fax : +62-21-79170265 YM : baszukv@yahoo.com

Website : Contact : MR.ANGGONO BASUKI
HP. : 0818-802045

<http://www.gfclock.com> Blackberry: 2880ECDC
29B48D7C

Contents

TOWER CLOCK - MULTI FACES	1
GFCLOCK YASA PERSADA.....	2
CONTENTS.....	3
REVISION HISTORY.....	4
DISTRIBUTION DOCUMENT.....	4
DOCUMENT RELATED	4
QUOTATION	5
CLOCK MOVEMENT - SPECIFICATIONS	7
GFA SERIES FOR 1 – 6 METER DIAMETER.....	7
MOVEMENT MODEL EXPLANATION	11
WIRING INSTALLATION	12
MASTER CONTROL	15
GPS CLOCK.....	16
DIALS & HANDS	16
PICTURE REFERENCES	20

Revision History

Date	Version	Description	Author
28 July 2012	0.1	First Initial	Anggono Basuki

Distribution Document

This document is to be distributed to:

Name	Title
Anggono Basuki	GFClock Yasa Persada
Mr. Erik	Bellsica Sinar Prima

Document Related

- Mesin Jam Tower – Outdoor
(berisi spesifikasi teknis beberapa type Mesin Jam Tower)
- Penawaran Tower Clock Parts 2012
(berisi Harga Mesin Jam Outdoor clock)

Quotation

To : **Bellsica Sinar Prima**
 ATTN : Mr. Erik
 TELP : _____
 FAX : _____
 E-MAIL : _____

REF. No. : GFQ201207-28-14
 DATE : **27 July 2012**
 VALID : 1 MONTH
 TERM : 60% Confirmed, 40% Installed
 WARRANTY : 12 MONTHS

No.	Descriptions	Model	Qty	USD/unit	Total USD
1	MOVEMENT ABS material, the hand should have a glass cover operation 24-hours-a-day. Reinforced for dial diameter up to 1.2m. With hour and minute hand bushing.	GFA12SFB	4		
2	Switch Power AC/DC converter a Switch power AC/DC converter 220VAC/12VDC)		4		
3	DIALS Aluminum and acrylic material, available numeral: Arabic, Roman, Marker, with Clock case round or square Support illumination light at night by lamp display from back	1.2m	4		
4	HANDS Two hands for hour and minute with aluminum and acrylic surface for 1.2m dial size	For 1.2m Dial	4		
5	Master Control Support for 8 secondary clocks, GPS compatible, Music hourly striking Adjustment and control for each clocks at room of operational control		N/A		
6	GPS Synchronize time with satellite		N/A		
7	Installation material Cables, Screw, iron, Adhesive, welding, etc		Packet		

Clock Solutions

8	Thermo Control <u>Automatic switch on/off for illumination</u>	N/A		
9	Local Transport Jakarta local transport	1		
10	Implementation Fee Installation & Setup	1		
TOTAL NET IN USD :				

Note:

Delivery 45 Days from First Payment Received, Rate a USD is Rp. 9.500,-

Clock Movement - Specifications

GFA Series for 1 – 6 Meter Diameter

Two hands: Hour and Minute



Available for 1 – 6 Meter diameter of Dial

- ☐ Micro-processor based self-setting movement
- ☐ Ideal for open-air tower clock system
- ☐ All metal fabric with stepping motor
- ☐ Remote control enabled
- ☐ Compact design with multiple functions

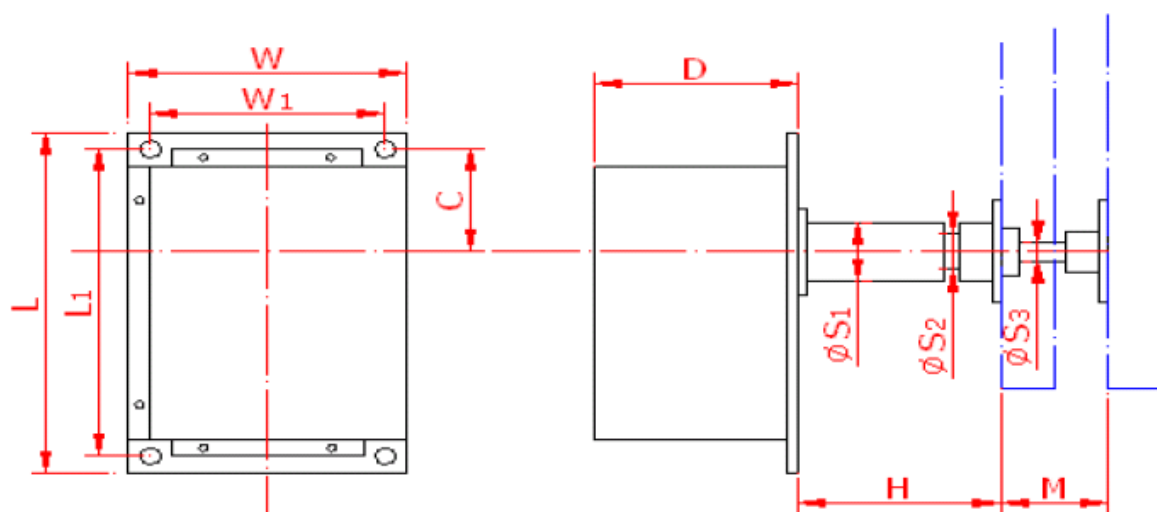
FEATURES

Microprocessor based open-air tower clock movement
Suitable for open-air dial diameter from 1.2m to 12m
Self-setting with master clock upon power recovery from failure
Controlled & synchronized by master clock or PC connected
Operation reservation upon power failure
High efficiency with low power consumption
Applicable with or w/o master clock and UT tower clock software

Clock Solutions

OUTDOOR-USE DESIGN	:	- Entirely metal fabric from internal parts to outer case (GFA12 is exceptional with ABS outer case) - Dust-proof, anti-rust, and weather-resistant
LOW CONSUMPTION	:	- Lower power consumption by 50%
HIGH EFFICIENCY	:	- Cylinder & gears design enables high efficiency with low abrasion
SELF-SETTING	:	- Automatically synchronized with master clock
TIME RESERVATION	:	- 3 months' operation reservation enables auto correction to master clock's time on power recovery from a mains power failure
WIRING	:	- Ordinary double-twisted pair wire
INTERFACE	:	- RS485 output & input
REMOTE OPERATION	:	- Central supervised and controlled with master clock or PC - No operation on movement needed - Wiring distance to master clock or PC up to 1200m - Feedback running status to master clock or PC
TIME ACCURACY	:	- 0.3 s/d at 25° (independent)
HANDS ILLUMINATION	:	- Hollow shafts design enables LED
OTHER PARAMETER	:	- Power supply DC 12V - Shafts Hour & minute - Working Temp. -30 – 85° - Humidity 0 – 95%

DIMENSIONS



MODEL	W	W1	L	L1	D	C	S1	S2	S3	H	M
GFA12S	67	-	99	-	50	27	15	7	-	25	15
GFA25N	130	110	200	180	95	60	34	21	11	95	50
GFA25L	130	110	200	180	95	60	34	21	11	230	50
GFA40N	150	130	230	210	100	68	58	33	16	124	65
GFA40L	150	130	230	210	100	68	58	33	16	250	65
GFA60N	200	180	300	280	159	92	64	39	22	154	95
GFA60L	200	180	300	280	159	92	64	39	22	270	95

GFA Series

COMPARISON & SELECTION TABLE OF GFA MOVEMENT

MODEL	Dial Size (cm)	Dial Thickness (mm)	Hour Shaft Length (mm)	Hands Illumination	Operation	Buttons for Adjusting Hands
GFA12SFP	~ 120	~ 10	25	-	w/o Master	**
GFA12SFS	~ 120	~ 10	25	-	with Master	-
GFA12SFB	~ 120	~ 10	25	-	with or w/o Master	**
GFA12SHP	~ 120	~ 10	25	Enabled	w/o Master	**
GFA12SHS	~ 120	~ 10	25	Enabled	with Master	-
GFA12SHB	~ 120	~ 10	25	Enabled	with or w/o Master	**
GFA25NFP	120 ~ 250	~ 60	90	-	w/o Master	**
GFA25NFS	120 ~ 250	~ 60	90	-	with Master	-
GFA25NFB	120 ~ 250	~ 60	90	-	with or w/o Master	**
GFA25NHP	120 ~ 250	~ 60	90	Enabled	w/o Master	**
GFA25NHS	120 ~ 250	~ 60	90	Enabled	with Master	-
GFA25NHB	120 ~ 250	~ 60	90	Enabled	with or w/o Master	**
GFA25LFP	120 ~ 250	~ 200	230	-	w/o Master	**
GFA25LFS	120 ~ 250	~ 200	230	-	with Master	-
GFA25LFB	120 ~ 250	~ 200	230	-	with or w/o Master	**
GFA40NFP	250 ~ 400	~ 60	115	-	w/o Master	**
GFA40NFS	250 ~ 400	~ 60	115	-	with Master	-
GFA40NFB	250 ~ 400	~ 60	115	-	with or w/o Master	**
GFA40NHP	250 ~ 400	~ 60	115	Enabled	w/o Master	**
GFA40NHS	250 ~ 400	~ 60	115	Enabled	with Master	-
GFA40NHB	250 ~ 400	~ 60	115	Enabled	with or w/o Master	**
GFA40LFP	250 ~ 400	~ 200	263	-	w/o Master	**
GFA40LFS	250 ~ 400	~ 200	263	-	with Master	-
GFA40LFB	250 ~ 400	~ 200	263	-	with or w/o Master	**
GFA60NFP	400 ~ 600	~ 60	154	-	w/o Master	**
GFA60NFS	400 ~ 600	~ 60	154	-	with Master	-
GFA60NFB	400 ~ 600	~ 60	154	-	with or w/o Master	**
GFA60NHP	400 ~ 600	~ 60	154	Enabled	w/o Master	**
GFA60NHS	400 ~ 600	~ 60	154	Enabled	with Master	-
GFA60NHB	400 ~ 600	~ 60	154	Enabled	with or w/o Master	**
GFA60LFP	400 ~ 600	~ 200	270	-	w/o Master	**
GFA60LFS	400 ~ 600	~ 200	270	-	with Master	-
GFA60LFB	400 ~ 600	~ 200	270	-	with or w/o Master	**

Movement Model Explanation

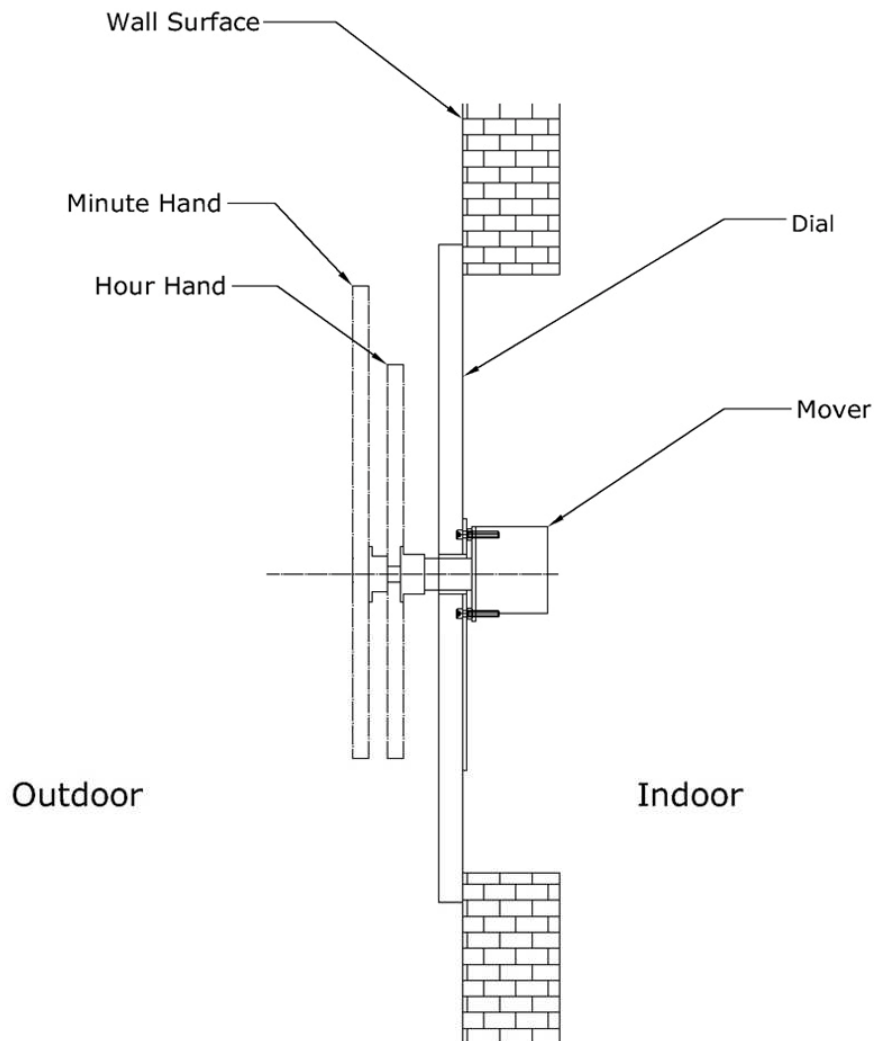
MOVEMENT For Open-Air Tower Clock		GF 				
Hands Shafts Available						
Hour, Minute	A					
Hour, Minute, Second	C					
Dial Diameter (cm)						
60 – 120	12					
120 – 250	25					
250 – 400	40					
400 – 600	60					
Dial Thickness (mm)						
Up to 10 (only for GFA series)	S					
Up to 60	N					
Up to 200	L					
Illumination on Hands						
Disabled	F					
Enabled	H					
Operation						
Hands adjustment by pressing buttons on movement (Independent movement, not synchronized with master clock)	P					
Hands adjustment through master clock or PC software (Secondary movement)	S					
Hands adjustment through master clock or PC software as well as by pressing buttons on movement	B					

For Example:

GFA25NFS would be used for dial diameter up to 2.5m with hour and minute hand shafts, not supporting hands illumination and controlled and supervised through master clock or PC, and installed behind a dial with thickness less than 6 cm.

Wiring Installation

GFA Series for Two Hands



Tower Clock - Installation

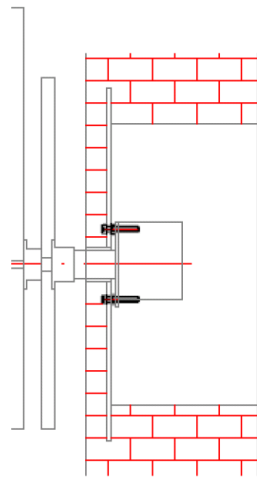


Fig. 1

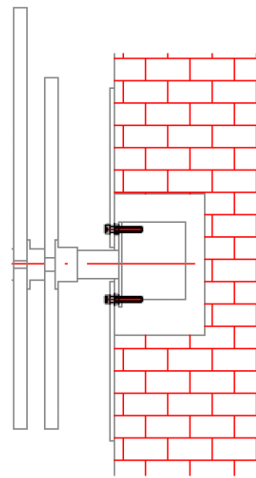
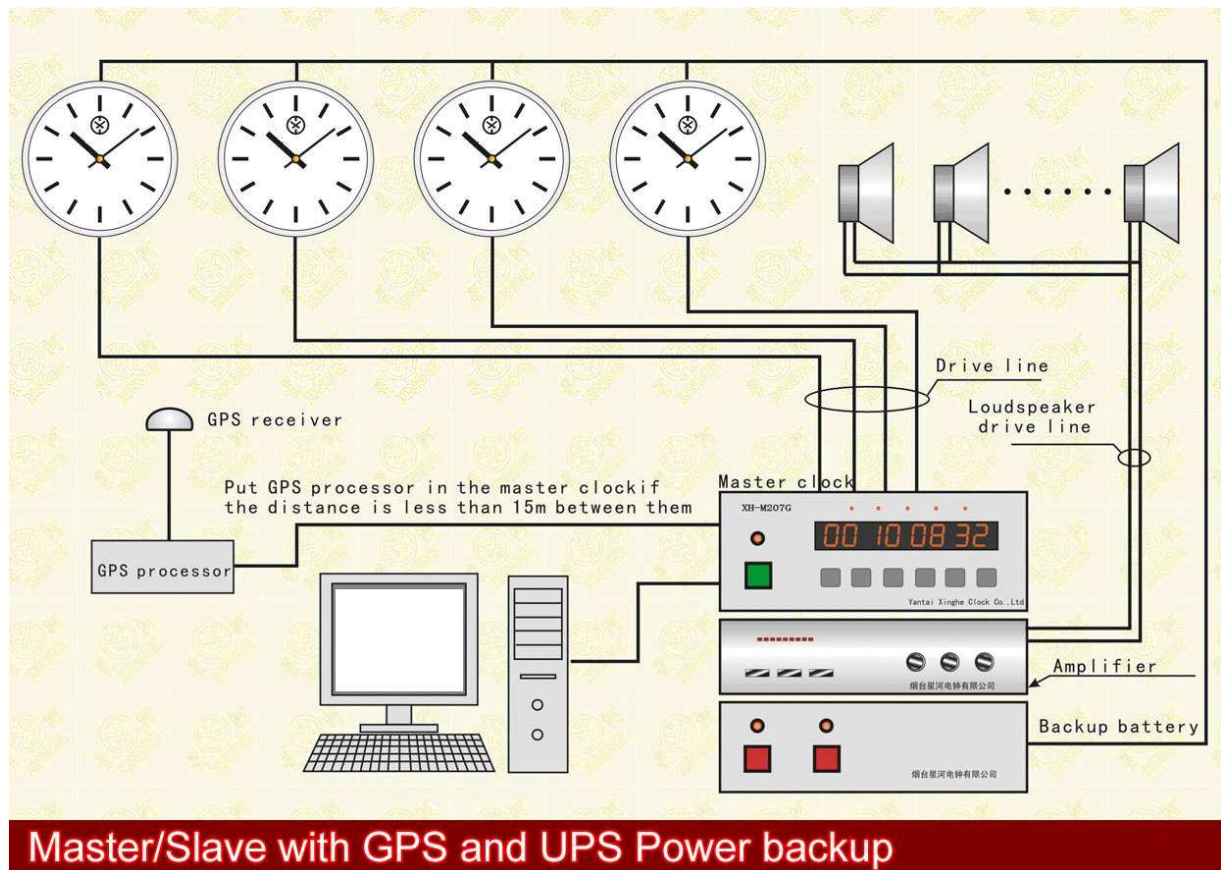
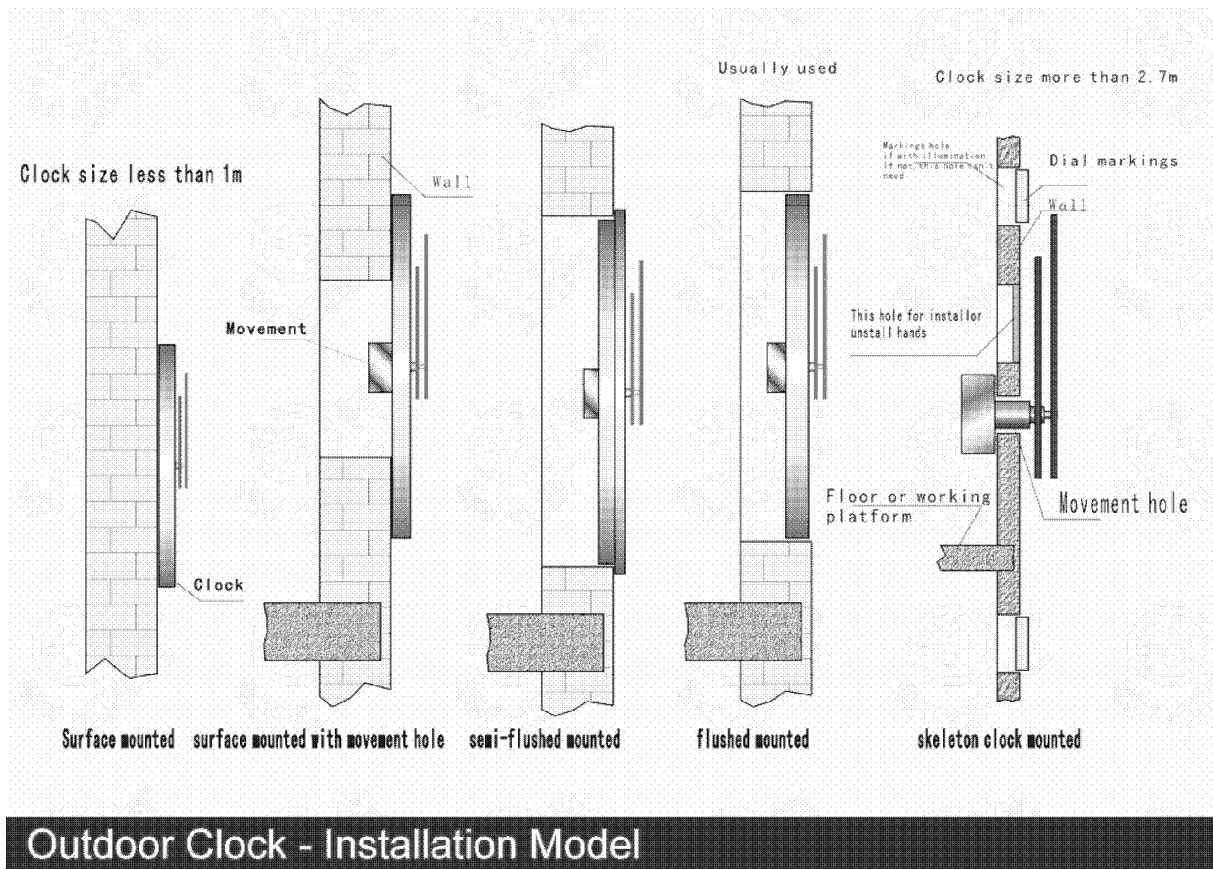


Fig. 2



Clock Solutions

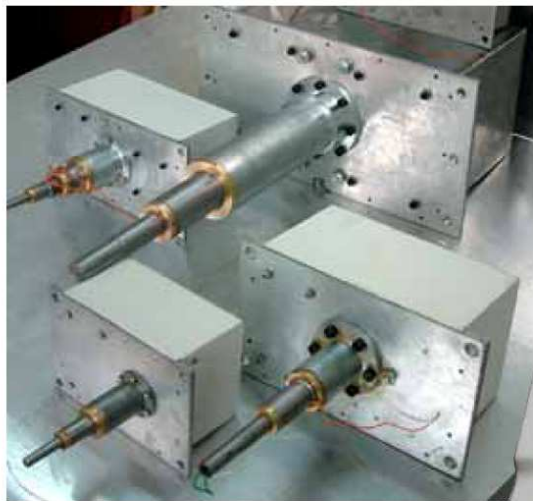


Master Control

Master clock atau master control atau master slave

Master Control dapat digunakan untuk menghubungkan GPS module dengan beberapa secondary clocks, fungsi illumination pada malam hari, dan support music melody dengan MP3 file, auto correction time jika listrik PLN mati dan akan melakukan recovery waktu secara otomatis kepada masing-masing secondary clocks

Berikut adalah Master Control dalam penawaran ini adalah, sbb:



Master Control support functions:

1. Master Clock
2. with GPS can synchronize time
3. Illumination light at night
4. Auto correction time
5. with Amplifier can support Chime/Music



Movement with Master Control

Note

Master Control / Master Clock tidak termasuk dalam Penawaran ini

GPS Clock

GPS Clock adalah module yang berfungsi untuk menangkap informasi waktu dari satelit, dan harus digunakan dengan Master Control.

GPS module dalam penawaran ini adalah, sbb:



Note

GPS Synchronioze tidak termasuk dalam Penawaran ini

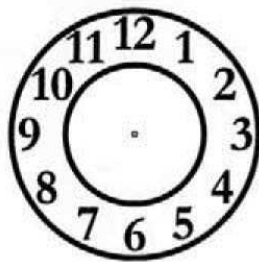
Dials & Hands

Contoh Dial dan Hands adalah sebagai berikut:

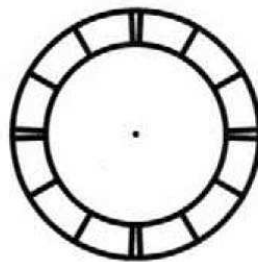


GFClock Yasa Persada

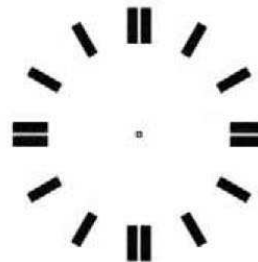
1/3



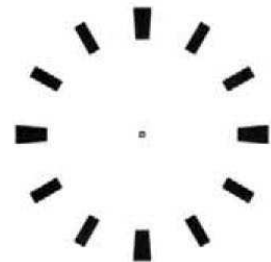
EB-302



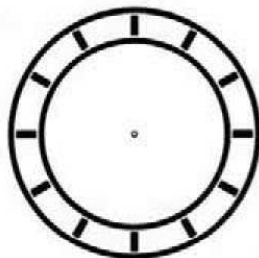
EB-303



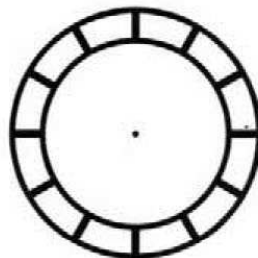
EB-303NR



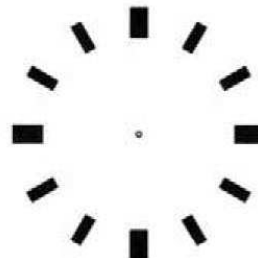
EB-305



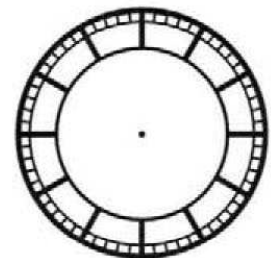
EB-306



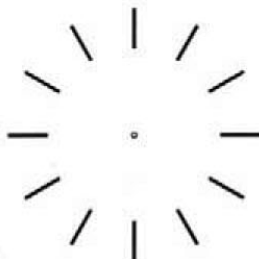
EB-306R



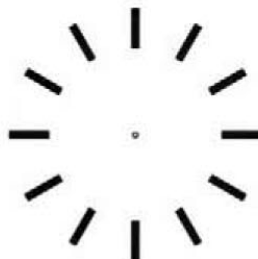
EB-307



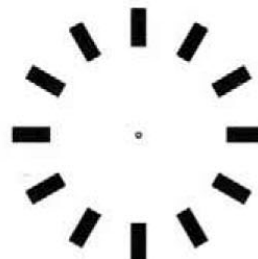
EB-308



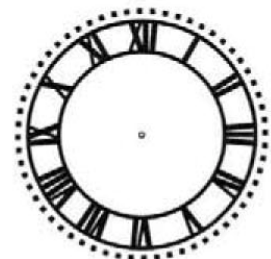
EB-309



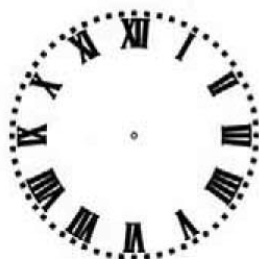
EB-309M



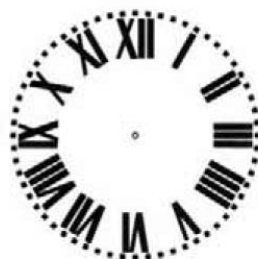
EB-309H



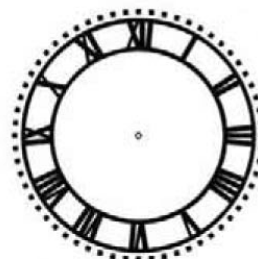
EB-311



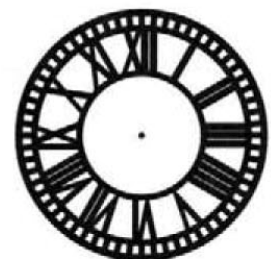
EB-312



EB-312V



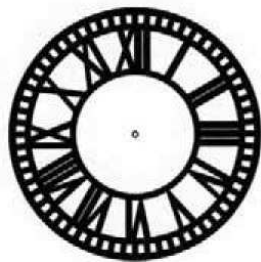
EB-313



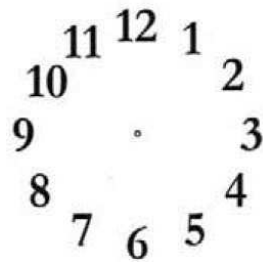
EB-314

GFClock Yasa Persada

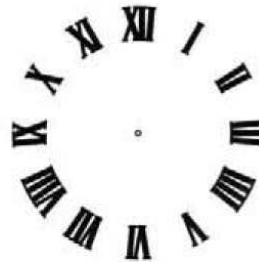
2/3



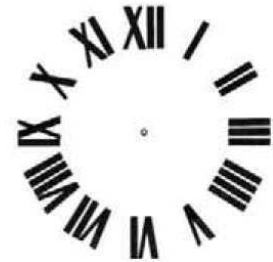
EB-314R



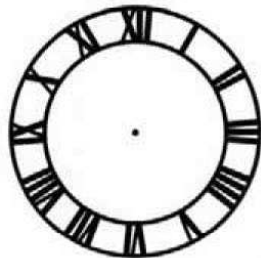
EB-315



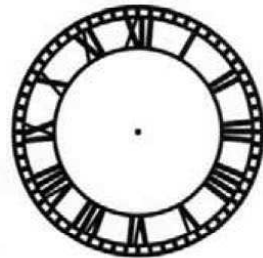
EB-316



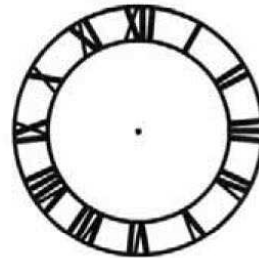
EB-316V



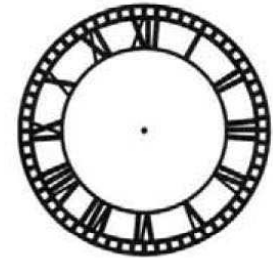
EB-316R



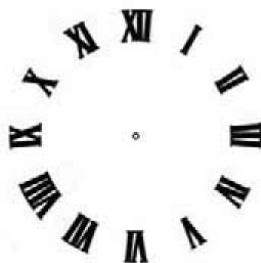
EB-316MR



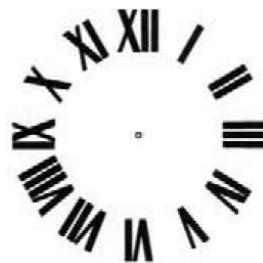
EB-320



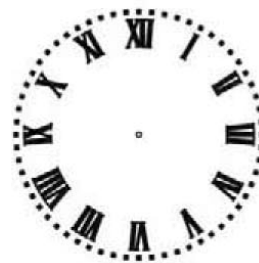
EB-320M



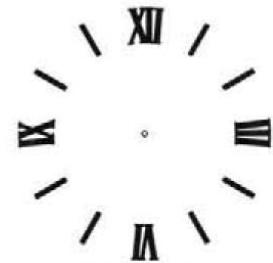
EB-321



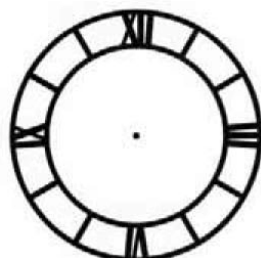
EB-321V



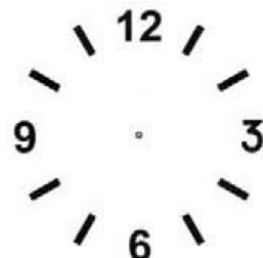
EB-322



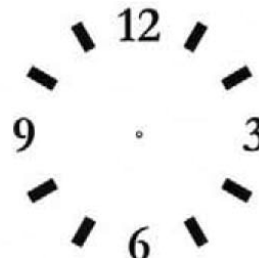
EB-323



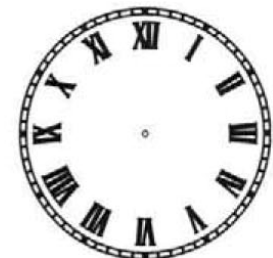
EB-323R



EB-325



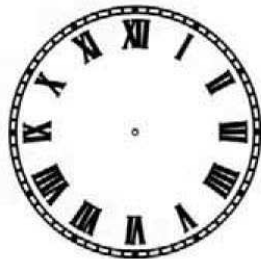
EB-326



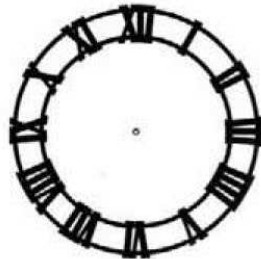
EB-328

GFClock Yasa Persada

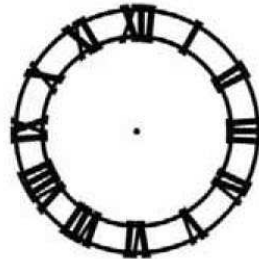
3/3



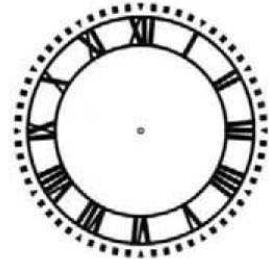
EB-328V



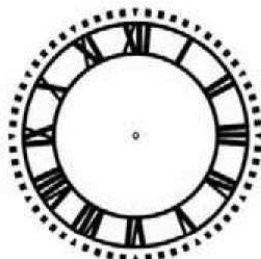
EB-333



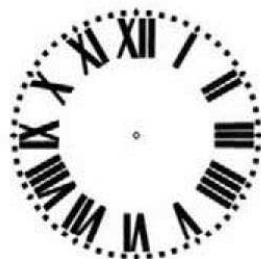
EB-333R



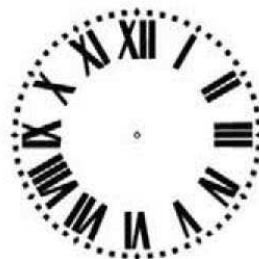
EB-334



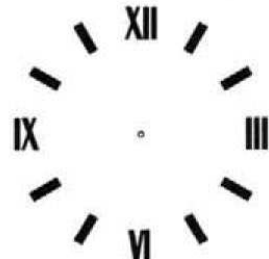
EB-334V



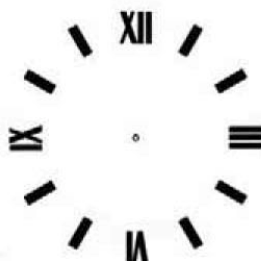
EB-335D



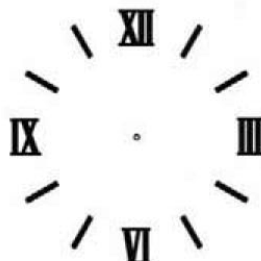
EB-335DV



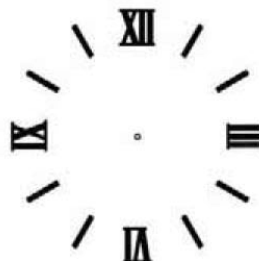
EB-336



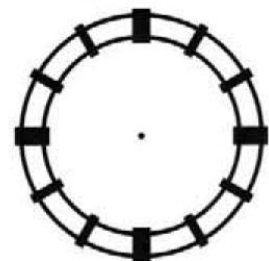
EB-336V



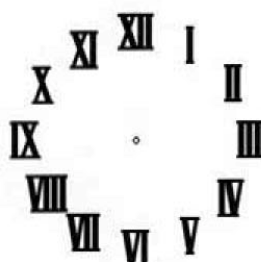
EB-337



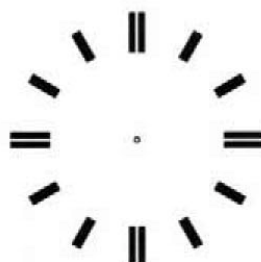
EB-337V



EB-346



EB-347



EB-348

Picture References

Sample Pemasangan Tower Clocks



Dial illumination at Night





GFClock Yasa Persada

Dial/Hands: Markers / Plain



GFClock Yasa Persada

Dial/Hands: Markers / Plain



GFClock Yasa Persada

Dial/Hands: Markers / Plain



GFClock Yasa Persada

Dial/Hands: Markers / Plain