Easy Call Series User's Manual

INDEX

SPECIFICATIONS

No. of Trunks	: 2 or 3 or 4 (protected)
No. of Extensions	: 4 or 6 or 8 or 12
No. of Links	: Full availability
Line Termination	: Extensions and Trunks are terminated on a mini MDF located at the bottom of the PCB.

Numbering Scheme : 204 ™ 21 to 24
206 ™ 21 to 26
308 ™ 21 to 28
412 ™ 21 to 32

Power fail Extensions : 204 ™ 21 & 22
206 ™ 21 & 22
308 ™ 21, 22 & 28
412 ™ 21, 22, 28 & 32

Switching Scheme : Space Division solid state cross point switch. Totally non blocking for Trunk calls and call transfer.

Tones provided:

CODE	EXPANSION	FREQUENCY	FRAME (SECONDS)
DT	Dial Tone	400 Hz modulated	Continuous
RBT	Ring Back Tone	400 Hz modulated	1 Sec ON / 2 Sec OFF
RT1	Ring Tone	50Hz / 60v AC	0.4 Sec ON 0.2 Sec OFF 0.4 Sec ON 2.2 Sec OFF for Trunk Call.
RT2	Ring Tone 2		1 Sec ON / 2 Sec OFF for Intercom call.
NUT	Number Unobtainable Tone	400 Hz (Monotone)	0.4 Sec. ON / 0.4 Sec. OFF
BT	Busy tone	400Hz (Monotone)	0.4 Sec. ON / 0.4 Sec. OFF
SOT	Service Over Tone	400Hz (Monotone)	
CAT	Call Alert Tone	Same as RBT (Monotone)	
WT	Warning Tone	Same as RBT (Monotone)	

Telephone Instruments:

Any DOT approved Phone with the following specification may be used. Pulse/Tone instrument accepted

a) Dial Speed	:	10 +/- 0.5 Impulses/Second
b) Make Break Ratio	:	33% / 67%
c) Tone Pairs	:	Low Group 697, 770, 852, 941 Hz
	:	High Group 1209, 1336, 1477 Hz
Power Supply	:	230 volts +/- 10%, 45-60 Hz.
Power Consumption	:	30 Watts.
Size	:	

		204/206/308	412
Length	:	285 mm	363 mm
Height	:	195 mm	282 mm
Depth	:	65 mm	67 mm
Weight	:	2.5 kg	4.5 kg

Mounting Arrangement	:	The unit can be wall mounted. For wall mounting, holes are provided at the back panel
Environment	:	Temperature: 0°C to 45°C for operation. Humidity: 90% Non condensing.

LIST OF FACILITIES

A. EXTENSION FACILITIES

1. Intercom call
2. Intercom call consult
3. Intercom call flip flop
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12. Barge-in on Trunk
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9. Auto fax homing
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12. STD lock and 95 lock
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15. Call warning
16. Call parking
17. Trunk call consult with another extn.
18. Trunk call consult with another trunk
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2. Voice Guided Fax Detection
3. CLI on TK

DESCRIPTION OF FACILITIES

A. INTERCOM FACILITIES

1. INTERCOM CALL:

Lift the handset, dial the required extn number. If called extn. is free, you will receive RBT, otherwise you will receive 'Busy Tone'.

2. INTERCOM CALL CONSULT:

When you are in intercom mode with an extn, you can consult any other extn. by hook flash and then dialing the required extn. number. The first extn. will be held in the waiting mode. If the called extn is busy you will get busy tone and then you can get back by flashing. If the called extn is free you will be connected to him when he answers. After consultations are over you can get connected to your waiting extn by dialing (@)8 and can drop the second extn. The second extn can't drop himself.

3. INTERCOM CALL FLIP FLOP:

After establishing call consult you can flip flop between the two extns by dialing by flash. The called extns. can't drop themselves. If the calling extn puts down all the three will be dropped. The calling extn can drop any one of them on speech by dialing 8.

4. INTERCOM CALL 3 PARTY CONFERENCE:

After establishing call consult you can bring both the extensions in conference with you by dialing (@)9. To drop any one of them dial (@) the particular extn no. The called extns. can't drop themselves. If the calling extn. puts down he will be disconnected, whereas the other two can continue the conversation.

5. CALL FORWARD ALL CALLS:

If you want to forward all your incoming calls to another extn. then lift the handset and dial # 41 and the required Extn. no. If that extn has already put "Call Forward", your request will not be accepted and you will be returned NUT. If accepted, SOT will be switched. Until you cancel this facility, whenever you lift the handset, you will get monotone and not regular dial tone.

6. CALL FORWARD BUSY:

If you want to call forward your calls, only if your line is busy, then lift the hand set and dial # 42 and the required extn no. If that extn has already put "Call Forward," your request will not be accepted and you will be returned NUT. If accepted, SOT will be switched. Now onwards, if you are found busy, your incoming calls will ring at this call forwarded extn.

7. CALL FORWARD NO ANSWER:

If you want to call forward your calls only if you are not attending to them, then lift the hand set and dial # 43 and the required extn no. If that extn has already put "Call Forward," your request will not be accepted and you will be returned NUT. If accepted, SOT will be switched. Now onwards, if you don't answer the calls within five rings, your incoming calls will ring at this call forwarded extn.

To cancel any Call Forward you have put, lift the handset and dial # 40 and put down. Here after calls meant for this extn, will ring here.

If you want to cancel any call forward put on your extn. dial 44 and put down.

8. **RING WHEN ACTIVE:**

In an intercom call if you find that the called party is not available and hence not answering and if you want to call him as soon as he comes back and start making call, then dial (@)8 over RBT. The RBT stops indicating that the request is accepted. Once the called extn. becomes active, and both the extns. are free, they will ring in the fast ringing mode and call is established once they are answered.

9. **RING WHEN FREE:**

If you find an extn busy dial (@)8 over the Engaged Tone. Once the called extn. becomes free and your extn. also is free then both extns start ringing. Call is established once both answer the call.

10. **DIRECTED CALL PICK UP:**

If an extn. is ringing due to an intercom call any other extn can pick up this call by dialing # 48. You will be connected to the calling extn. and the ring will stop on the ringing extn.

This facility is possible if you are free or you are on trunk. If you are on trunk, flash to put your trunk on hold and do directed call pickup.

When the calling extn puts down and you also put down you will be rung for your waiting trunk.

This facility is not possible if you are talking to an extn in the intercom mode. If you want to pick up this call, disconnect the present local conversation and dial 48.

11. **BARGE-IN ON EXTN.**

While dialing for an extn, if you find the extn is busy in intercom mode or busy with trunk you can barge-in on that extn. by dialing @9 over busy tone. If you put down, you will be disconnected without affecting the other extns. Whereas if the calling extn. on whom you have barged-in puts down all the three will be disconnected.

12. **BARGE-IN TRUNK**

While dialing for trunk, if you find it busy you can barge-in on that trunk by dialing @9 over busy stone. If you put down, you will be disconnected and you will be call queued on to this trunk. As soon as this trunk becomes free your extn. will ring for it.

NOTE: BARGE-IN IS POSSIBLE ONLY IF CALLED EXTN OR TRUNK IS IN CONVERSATION.

BARGE-IN OVER EXTN. CAN BE LOCKED.

13. **DO NOT DISTURB:**

To activate DND, lift handset and dial # 45, SOT indicates that DND is activated. To cancel the same lift the handset and dial # 46.

During DND On, extn. will not ring for any incoming call. However outgoing calls can be made as usual.

14. **URGENT CALL:**

If you have dialed an extn. and it is ringing without any one answering it, then you can dial @ 7 over RBT and thus can invite the attention of four other extns. at a time. Now all the six extns. whichever is free in 21 to 26 will start ringing simultaneously for the urgent call. Whoever picks up first will be connected to calling extn. and the ring at the other extns. will stop.

15. DYNAMIC STD LOCK:

This facility is useful only if your extn. is programmed for STD. This facility can be invoked from any extn and all STD calls from that

particular extn. can be barred. To invoke this facility, dial # 96 and after hearing the acknowledgement tone put down the receiver. Now all STD calls from this extn are barred.

If you want to open this lock and allow the STD calls from this extn, dial the code # 96 and after the acknowledgement tone dial your secret personal pass word and again after hearing acknowledgement tone put down. Now STD calls from this extn are allowed.

If you want to change the personal password repeat the procedure above for opening the dynamic lock and after the acknowledgement tone dial '*' and the 3 digit new password and put down the hand set after hearing the acknowledgement tone again. The factory set password for dynamic STD lock is '000'.

16. DYNAMIC LOCAL LOCK:

To lock any O/G calls from your extn. dial # 97. To open the lock dial # 97 and your personal 3 digit password (Same as for STD lock).

17. INTERCOM CLI

If an Extn. has CLI enabled phone then on an intercom call the calling number will be displayed.   If   the   phone   needs   minimum 5 digits (like in many imported phones) then three zero's will be added to the calling number. For example if 21 calls 26 and Extn. 26 has CLI phone with minimum 5 digits requirement then 00021 will be displayed. Otherwise 21 will be displayed.

B. TRUNK FACILITIES

1. '0' DIALING:

Dial '0' to access any free trunk line. If any of the trunk line is free and it is in your allowed group you will get P&T tone else you will be returned Busy Tone.

2. PARTICULAR TRUNK DIALING:

Dial 51 to access 1 trunk line   Dial 52 to access 2nd trunk line

Dial 53 to access 3 trunk line   Dial 54 to access 4th trunk line

If that particular trunk line is free you will be returned P&T Tone or else you will be returned Busy Tone.

3. CALL QUEUING / CAMP ON TRUNK:

a) GENERAL QUEUE:

While '0' dialing if you find all the trunks are busy and you are returned Busy Tone, then you can dial (@)8 over busy tone to camp on any free trunk. If your request is accepted you will get SOT else NUT. As soon as any trunk becomes free your extn. will start ringing and if you lift the hand set you will be connected to this free trunk.

b) PARTICULAR QUEUE:

While on particular trunk dialing, if you find that trunk busy and you are returned Busy Tone, then you can dial (@)8 over Busy Tone to camp on that particular trunk. If your request is accepted you will get SOT else NUT. As soon as this trunk becomes free your extn. will start ringing and if you lift the hand set you will be connected to this particular trunk.

Any extn. can ask for particular queue on all the three trunks. Maximum of three extns. can queuein on a particular trunk.

4. REDIAL LAST NUMBER:

For redialing on trunk, dial ##. The last trunk No. dialed out from your telephone will be dialed out automatically if the trunk is free.

5. HOT TRUNK LINE:

a) ON ANY TRUNK LINE:

If anyone wants to make many trunk calls, then he can program in such a way that whenever he goes 'OFF Hook', any free trunk available is directly connected to him.

Lift handset, dial # '7' and '0'. Here onwards whenever you lift the handset, you will be connected to any free Trunk available. For making intercom calls, lift the handset and flash. You will get the system dial tone. To cancel hot trunk line, lift the handset, flash and after getting system dial tone, dial # '71' and replace the handset.

b) ON PARTICULAR LINE:

Lift handset, dial # '7' and particular trunk no (51 or 52 or 53 or 54). Here onwards whenever you lift the handset, you will be connected to that particular trunk if it is free. If that trunk is busy you will be returned Busy Tone. For making intercom calls, lift the handset and flash. You will get the system dial tone. To cancel hot trunk line, lift the handset, flash and after getting system dial tone, dial # '71' and replace the handset.

6. TRUNK LOCKING:

Any particular trunk can be locked for outgoing calls by dialing # 6 and the trunk no (51 or 52 or 53 or 54). But incoming calls on these trunk lines are not affected. If your request is accepted you will get SOT else NUT. From now onwards this trunk line is not available for

outgoing calls for any of the extns except your extn. To cancel the same dial 66 and put down.

7. **CALL ONLY INCOMING:**

Any particular trunk can be programmed in such a way that it is not available for outgoing calls for any of the extns. However incoming calls on this trunk line are not affected.

8. **PULSE OR DTMF DIALING:**

The system can operate with both DTMF or pulse type of telephones. The trunks can be programmed for both types of dialing. If your trunk is programmed as 'pulse trunk', irrespective of your dialing in pulse or tone, the dialed digits goes as pulses only on the trunk. On the other hand if your trunk is programmed as 'tone trunk', irrespective of your dialing in pulse or tone, the digits dialed goes as tone only on the trunk. Each trunk can be individually programmed as pulse or tone trunk.

9. **AUTO FAX HOMING:**

A particular trunk and a particular extn. can be programmed as FAX trunk and fax extn. respectively.

If an incoming call comes on the FAX trunk, and the FAX extn. is free, for 5 sec, system RBT is switched on to the trunk or speech is enabled on to trunk if the system is enabled for it. If the FAX is detected, the system will automatically route that call to the FAX extn. or else extns will ring for round robin mode or night mode just like any ordinary P&T call and music is switched on to the trunk.

During an incoming call on the FAX trunk, if FAX extn. is busy then incoming call will be considered as any ordinary call.

10. **AUTOMATIC POWER FAIL CUT THROUGH:**

When power is not available extn. 21 is connected to trunk 1, 22 to trunk 2 and extn. 28 is connected to trunk 3 and 32 to trunk 4 directly. The extns. will work as direct exchange lines till the power is restored.

11. **LOCAL LOCK:**

An extn. can be individually programmed in such a way that local calls are not allowed from it. If an extn. is locked for local calls, on dialing 0 or on particular trunk dialing NUT is switched to that extn. instead of P&T Tone.

12. **STD LOCK:**

An extn. can be individually programmed in such a way that STD calls are not allowed from it. If an extn. is locked for STD calls, on dialing '00' NUT is switched on to that extn. Also, more than 10 digits are not allowed from a STD locked extn. This is provided to avoid the misuse of a trunk by any other means.

'95' LOCK: you can block anybody dialing 95 STD dialing this is independent of STD lock.

13. **ISD LOCK:**

An extn. can be individually programmed in such a way that ISD calls are not allowed from it. If an extn. is locked for ISD calls, on dialing '000' NUT is switched on to that extn.

14. **TRUNK CALL PICK UP:**

If the extn. is ringing due to an incoming trunk call any other extn. can invite the call on it. When an extn. is ringing for trunk call and you wish to invite the call on your extn., pick up your handset and dial '8' you will be connected to the trunk line and ringing on that extn. will stop.

If you are already on a trunk & if you wish to invite the other incoming call dial (@)8 to pick up the incoming trunk call.

(NOTE: CALL PICK UP IS NOT POSSIBLE IF YOU ARE TALKING TO ANOTHER EXTN. IF YOU WANT TO PICK UP THE TRUNK CALL DISCONNECT THE LOCAL CONVERSATION).

15. **CALL WARNING:**

When all the extns. are busy and if an incoming trunk call arrives, then the extn. 21 will get call alert tone, indicating the arrival of an incoming call. On replacing the handset, it starts ringing (i.e. the incoming call is put through).

16. **CALL PARKING:**

If you want to put the trunk on hold while on a trunk call, flash and do not put down the receiver. If you put down, the call will get disconnected immediately. Music will be switched, both to the extn and trunk. To take back the call, flash again.

17. **TRUNK CALL CONSULT WITH EXTENSION:**

If you are on a trunk, you can put the trunk on hold and consult an extn by dialing the required (@)extn. no. Music is switched to the trunk and RBT is given to you. When the called extn. answers you will be connected to that extn. After consultations are over and he puts down he will be disconnected immediately and you will be back on to your held trunk. Else you can flash and get back to your trunk.

If the called extn is busy or does not answer you can get back by flash. If you had dialed a wrong no. NUT will be switched on to your extn. and you can get back by flash or if you had dialed a wrong code and put down your extn will ring for the held trunk.

18. **TRUNK CALL CONSULT WITH TRUNK:**

If you are on a trunk, you can put the trunk on hold and consult another trunk by dialing the required (@)trunk no. Music is switched to the 1st. trunk and you will be connected to the 2nd trunk and you can make the 2nd trunk call on this trunk. After consultations are over and if you put down 2nd trunk will be disconnected immediately and your extn. will ring for 1st held trunk.

If the 2nd trunk is busy you can get back to the 1st. trunk by flash. If you had dialed a wrong no. NUT will be switched on to your extn. and you can get back by flash. If you had dialed a wrong code NUT is switched to your extn. and if you put down your extn will ring for the 1st. held trunk.

19. **CALL CONSULT TRUNK-FLIP FLOP:**

While on a trunk you are consulting another trunk or you have picked up another trunk, then you can flip flop between the two trunks by double flash. If you want to drop any of these two trunks, you put down. The trunk where you were conversing at the time of put down, will be dropped and your extn. will ring for the held trunk.

20. **TRUNK CALL TRANSFER:**

After establishing a call on the trunk successfully or on receiving a call on the trunk line, if you wish to transfer the call to any other extn. proceed as follows.

Dial the extn. number to which call transfer has to be made and hear RBT. When the called extn. answers, announce the call and replace your handset. The trunk call gets routed to the called extn. If called extn. does not answer, or after speaking to you he does not wish to take the call, or if he is busy then you can dial 8 or you can flash or he puts down, you will be connected back to trunk. If you had dialed a wrong no. you will get NUT and if you flash

you will be connected back to your trunk. If you had dialed a wrong code then NUT is continuously switched at your extn. and if you put down your extn. will ring for the held trunk.

In case of DTMF phones, once you flash, you will get music. Dial the required no. over music.

Note: On an outgoing call, wait at least 7 sec. after dialing the last digit on trunk before dialing for any facility.

P&T No. should consist at least of 2 digits to access any facilities.

21. **CALL TRANSFER BLIND:**

While transferring a call, and after getting RBT from called extn., if you replace your handset, (i.e. Blind Transfer) the called extn. will ring for 10 rings in 'Trunk ring mode'. If that person does not answer with in this time, call will be routed back to your extn. It will ring for 10 rings in 'Fast ring mode' at your extn. and if you do not answer, the call will get disconnected. But, if after talking to you on intercom he does not want to take your trunk, then if you dial 8 or flash or he puts down, your extn. will be connected back to the held trunk. While trying for call transfer if you find him busy, then you can dial 7 and put down for blind transfer. He will be given Warning Tone and if he is busy with an extn. then he can put down and his extn. will ring for this trunk call. When he answers, he will be connected to your held trunk. If he does not answer within 10 rings, the trunk call will be disconnected.

If a call is blind transferred to an extn. when he is busy with a trunk, warning tone will be switched to his extn. Now if he double flashes, he will put his 1st. trunk on hold and will be connected to the 2nd trunk. Now he can flip flop between the two trunks following the procedure described under 'trunk call consult flip flop'.

22. **CALL TRANSFER PERSISTENT:**

a) BUSY WITH EXTENSION:

Whenever you try to transfer a trunk call and if the extn. is engaged with any other extn. you will get Busy Tone. Then you can dial (@)9 over busy tone. Now Warning tone will be switched to his extn as well as yours. Once the warning tone is heard, the called extn. is expected to put down the handset. The extn. starts ringing, and when he answers he will be connected to you. Now the procedure becomes similar to a 'trunk call consult with an extn'. If, even after giving warning tone, he does not put down the handset, you can get back to your trunk by a flash.

b) BUSY WITH TRUNK:

Whenever you try to transfer a trunk call, if the extn. is engaged with trunk, you will get Busy Tone. Then you can dial (@)9 over busy tone. Now Warning tone will be switched to the busy extn as well as your extn. After hearing the warning tone, if the called extn. puts down the handset, releasing his trunk, the extn. starts ringing, and when he answers he will be connected to your extn. Now the procedure becomes similar to a 'trunk call consult with an extn'.

If, after hearing to warning tone, he double flashes instead of putting down, he will put his trunk on hold and he will be connected to your extn. If you put down now, he will be connected to your trunk, with his own trunk still on hold. Now he can flip flop between the trunks.

If, soon after giving warning tone, you dial 7 and put down, the trunk call will be blind transferred to him. Now if he puts down, he will release his 1st. trunk and he will be connected to your trunk directly. Or he can put his trunk on hold by double flashing and get connected to your trunk. Now he can flip flop between the trunks.

23. **CALL TRANSFER WITH BARGE_IN:**

    a) **BUSY WITH EXTENSION:**

    After 'call transfer persistent' and giving warning tone if the extn. does not take notice, then you can Barge-in-on him by dialing 9 over warning tone (i.e 99 over BT). If the called extn. now puts down the handset, you will be released and he will be directly connected to your trunk.

    After barge-in, if you put down, his extn. will be queued on to this held trunk. As soon as he becomes free his extn. will ring for this held trunk. But, if after talking to you on intercom he does not want to take your trunk, then if you flash, your extn. will be connected back to your trunk.

    b) **BUSY WITH TRUNK:**

    After 'call transfer persistent' and giving warning tone if the extn. does not take notice, then you can Barge-in on him by dialing 9 over warning tone (i.e 99 over BT). If the called extn. puts down the handset his trunk will be released and you also will be released from your trunk and he will be directly connected to your trunk. After barge-in if you put down, you will be released and your trunk will be put on hold for him and he will still be on his trunk. Now he can flip flop between the trunks by double flash.

24. **TRUNK CALL CONFERENCE:**

    a) **ONE TRUNK TWO EXTENSIONS:**

    After establishing 'Trunk call consult with an extn.', dial '@9' to set up conference with the trunk. Now, both the extns. and the trunk are in conference. If you want to drop the called extn., flash. He will get NUT and when he puts down, he will be released. Or he can drop himself by putting down his handset. If you put down you will be dropped from the conference and the called extn. and the trunk can continue the conversation.

    b) **TWO TRUNKS AND ONE EXTENSION:**

    After establishing 'Trunk call consult with another trunk' or while flip flopping between two trunks, dial '@9' to set up conference with these two trunks. Now, both the trunks and your extn are in conference.

    Once this conference has been initiated you can only terminate both the trunks and you cannot transfer any one of the trunks or park. If you put down the handset both trunks are released. If you want to cancel any of these two trunks then you can dial 81 to cancel the 1st. trunk and 82 to cancel the 2nd trunk.

25. **TRUNK CALL LIMITING TO 3 MTS, 5MTS OR NO LIMIT**

    One can program in such away that the Trunk calls (O/G Only) from a particular extns. are cut off after 3 minutes or 5 minuts or no limit.

C. SYSTEM FEATURES

1. **NIGHT MODE:**

   In night mode the extns. which are supposed to ring will ring simultaneously. If any one extn answers it, the ringing will stop at all the other extns. To program Night mode Dial ** in tone mode and #. By dialing this again the system will flip lop between day and night mode. Day mode / Night mode changes can be programmed only from operator extn.

2. **DAY MODE:**

   When the exchange is in day mode the incoming call can ring either in 'round robin mode' or 'single extn. ringing mode'.

   a) ROUND ROBIN MODE:

   In Round robin mode of the day mode all the extns. which are supposed to ring for each trunk will ring one after the other in a cyclic order, with each extn. ringing 5 times. If any one extn answers it, the ringing will stop at all the other extns. The number of rings in each extn. is programable as 3 or 4 or 5 rings.

   b) OPERATOR MODE (SINGLE EXTENSION RINGING MODE):

   In this mode only one extn, programmed as operator, will ring for the incoming trunk call. In single, extn. ringing mode, if this extn. is busy on a trunk and if an incoming call from the other trunk comes, this extn will get a warning tone. and if this extn. dials '@7' to park the present trunk and get connected to the ringing trunk. Now he can flip flop between the trunks.

3. **NIGHT SERVICE SELECTION FOR INDIVIDUAL TRUNKS:**

   When the exchange is in night mode, the extns. which are supposed to ring is programmable for each trunk individually. A maximum of any 5 extns. can be made to ring in the night mode for each trunk separately.

4. **ROUND ROBIN EXTENSION SELECTION FOR INDIVIDUAL TRUNKS:**

   When the exchange is in round robin mode of the day mode, the extns. which are supposed to ring is programmable for each trunk individually. A maximum of any 5 can be made to ring in the round robin mode for each trunk separately.

5. **PROGRAMMABLE OPERATOR POSITION:**

   When the exchange is in single extn. ringing mode of the day mode, the extn. which is supposed to ring is programmable for the exchange. Any one extn. can be made to ring for all the trunks commonly.

CLASS OF SERVICE PROGRAMMING:

6. **TRUNK GROUPING:**

   For each extn. there is a trunk grouping which will control the outgoing trunks allowed to each extn. A maximum of all the 3 trunks can be allowed from an extn. and also, all the 3 trunks can be barred from an extn. However incoming calls to these are not affected. This facility is programmable.

7. **TRUNKS ONLY INCOMING**

Any trunk can be programmed to be 'only incoming' or both 'outgoing and incoming'. If a trunk is made 'incoming only', then all the outgoing calls are barred from this trunks made from any extn.

8. **FAX EXTENSION SELECTION:**

Any one of the 12 extns. can be programmed as fax extn. If an extn. is made a fax extn. it should not be busy when a fax call arrives. Otherwise the system will not be able to detect fax and it will be considered as any other normal call and the extns. will ring in the round robin mode. When fax is detected on fax trunk, system will give ring to the fax extn. and if it is not answered the ring will be given to the other extns. in the round robin mode. There can be only one fax extn.

9. **FAX TRUNK SELECTION:**

Any of the 4 trunks can be programmed as fax trunks. If a trunk is made a fax trunk When fax is detected on this trunk, system will give ring to the fax extn. and if it is not answered the ring will be given to the other extns. in the round robin mode. there can be more than one fax trunk.

10. **TONE OR PULSE TRUNK MODE:**

Each trunk can be programmed as pulse trunk or tone trunk

individually. If a trunk is programmed as 'pulse trunk', irrespective of the digits being dialed in pulse or tone, they go as pulses only on the trunk. On the other hand if a trunk is programmed as 'tone trunk', irrespective of the digits being dialed in pulse or tone, they goes as tone only on the trunk.

11. **BARGE-IN PROTECTION PROGRAMMING:**

An extn can be programmed as barge-in allowed or not allowed extn. If an extn is made as barge-in not allowed extn. any other extn. cannot barge-in on that extn.

An extn can also be programmed to allow it to barge in on others or not to allow it to barge-in on other extn.

12. **TRUNK CONFERENCE PROTECTION PROGRAMMING:**

An extn can be programmed as 'trunk conference allowed' or 'barred' extn. If an extn is made as conference barred extn. he can not bring two trunks in conference with him.

13. **DISTINCTIVE RINGING:**

For incoming trunk calls, the ring is switched for 0.4s ON, 0.2s OFF, 0.4s ON & 2.2s OFF. For intercom calls in the ring is switched for 1 sec ON and for 2 secs. OFF (RT2). From this extns. can distinguish whether the call is a trunk call or intercom call.

14. **DIRECT INWARD DIALING (DID):**

Individual trunk line can be programmed for DID facility. If any incoming call lands on this trunk line, 'Recorded speech Announcement' or 'Music' will be switched to this particular trunk line. Now the calling party can dial the required extn. no. in Tone Mode over music or speech directly, without the aid of the operator. If the required extn. is free it will start ringing directly, and if it is busy the operator extn will ring.

15a. **GLOBAL MEMORY DIALING:**

Any 50 numbers can be stored in the memory and on dialing of the particular abbreviated code, the number stored in the memory will be sent out on the trunk line. The abbreviated

code numbers are from 900 to 949. These numbers can be programmed for any trunk or a particular trunk.

Out of the 50 global memory numbers the first 20 can be dialled out by any extn. even if it is barred to dial on trunk.

15b. TO PROGRAMME INDIVIDUAL 10 MEMORY NUMBERS

Each extn can have its own 10 memory dialing Nos. stored. They can dial the numbers by dialing the code 950 to 959.

Dial # 47, after the conformation tone dial three digit personal password wait for conformation tone, then dial the location (0-9) where the no is to be stored, after conformation tone, dial zero for any trunk or 1, 2, 3 or 4 for particular trunk & dial the number to be stored and * to complete one memory entry, you get confirmation tone. To continue memory dialing, continue from (0-9) the location to be stored & repeat the same. [For example to store 080 34915 at location 952 Dial # 47 (xxx password) 2, 0, 08034915 and *]

16. REMOTE TRUNK PROGRAMMING:

The system can be programmed for different facilities as desired by the user, from any remote phone. To invoke this facility from a remote phone, first make an incoming trunk call to this system, and upon answering, ask the operator to flash and dial '**' in tone mode. Now you can dial the system password and program it as needed. While programming if you get nut instead of confirmation tone you can dial # to come to main menu.

17. FACTORY SET PROGRAMMING:

To program the system for the factory settings:

       1. In tone mode dial '**' and the password ($)

       2. Dial 9 ($)

       3. Dial 87 ($)

       ($)- Observe for conformation tone

IMPORTANT NOTE = '(@)' = In case of DTMF phone, flash and then dial. After flash DTMF digits should be dialed within 10 secs otherwise DTMF digits will not be taken and 'Busy Tone' will be switched hence you will have to flash once again.

Once you go to Off Hook, start dialing within 7 Secs. otherwise 'Busy Tone' will be switched and your digits will not be considered.

18. FLASH TIMING FOR EACH EXTN.

Flash timing for individual extns. can be programmed to be between 300 to 600 or 600 mSec. to One sec.

D. OPTIONAL FEATURES

1. **VOICE GUIDED DISA**

   If your system is equipped for voice guided DISA, then you can record your message (max. to 10 secs.) into the system. And whenever if a Trunk is programmed for this feature and on an incoming call, first your recorded message is played on to the caller. During the message or once it is over the caller can dial in tone mode the particular extension he wants and if it is free it is directly rung, thus the operator is by passed. If that extn is busy then the operator is rung of and the round Robin takes over. Please see the programming manual for the procedure to record the message and any trunk for voice guided DISA. More than one trunk can be programmed for this facility. The message can be programmed and verified from any extension.

2. **VOICE GUIDED FAX DETECTION**

   If your system is equipped for this facility, then a recorded message can prompt the caller to start sending Fax upon receipt of an incoming in that particular trunk. The trunk should have been programmed as a Fax Trunk. The max duration of the message is 10 secs. More than one Trunk can be programmed to receive Fax. Please see the programming manual for recording the message and verifying the same.

3. **CLI ON TK**

   If the system is equipped for CLI and the TK is also provided with CLI, then on an I/C Call the received CLI will be displayed on the extn. while ringing for an I/C Call. While transferring the call to another extn. and if that extn. is equipped with CLI phone, the calling external number will be displayed on the called extn.

INSTALLATION

The installation of the system involves the following procedure.

For 204, 206, 308 and 412, Open the top cover and the entire PCB in visible. You can find the terminals at the bottom of the PCB to terminate DOT lines and extns., whose Nos. are printed beneath each set of connectors.

NOTE :

Since GD Tubes are also used for the trunk protection, the EPABX unit should be grounded to AC ground properly to protect the unit from high voltage through trunk lines.

QUICK GUIDE TO USER'S FEATURES
(204, 206, 308, 412)

1)	Call transfer	:	Flash & Extn. No.
2)	Call transfer on busy Extension	:	Flash, Extension No. + 7
3)	Outgoing Calls	:	0
4)	Flip flop during consult	:	1
5)	To lock particular trunk for particular extension	:	# 6 + Trunk No.(51, 52, 53, 54)
6)	Hot Trunk Line (any trunk)	:	# 7 + 0
7)	Hot Trunk Line (Particular Trunk)	:	# 7 + Trunk No.(51, 52, 53, 54)
8)	Cancel Hot Trunk Line	:	Flash + # 71
9)	Ring when active or free, trunk call pick up	:	Flash & 8
10)	Intercom barge-in	:	Flash & 9
11)	Barge-in on trunk with tone	:	Flash & 99
12)	Cancel call forward you have put	:	# 40
12)	Call forward all calls	:	# 41 + Extension No.
13)	Call forward whey busy	:	# 42 + Extension No.
14)	Call forward not answered	:	# 43 + Extension No.
15)	Cancel call forward put on you	:	# 44
16)	Do not disturb	:	# 45

17)	To cancel do not disturb	:	# 46
18)	To programme individual 10 memory numbers	:	# 47 + (XXX) + Trunk No. (0 or 1, 2, 3, 4) + 0-9 + Tel No. + *
19)	Intercom Call Pickup	:	# 48
20)	Particular trunk selection	:	
	1st Trunk	:	51
	2nd Trunk	:	52
	3rd Trunk	:	53
	4th Trunk	:	54
21)	Last number Redial	:	##
22)	Dyanmic STD Lock	:	# 96
23)	To Cancel Dynamic STD Lock	:	# 96 + (XXX)
24)	Dynamic Local Lock	:	# 97
25)	To Cancel Dynamic Local Lock	:	# 97 + (XXX)
26)	To programme for night mode	:	(**) + (#)
27)	To Cancel night mode	:	(**) + (#)
28)	To change the personel password	:	# 96 + (XXX) + (*) + New personel password

Note: (XXX) - 3 digit personel password
(000) - Default personel password

ANNEXURE

FACTORY SETTING

Operator	:	21
Extension numbers	:	21 to 24 for 204
		21 to 26 for 206
		21 to 28 for 308
		21 to 32 for 412
Fax Extension	:	24
Round Robin for all trunks	:	21 to 24 for 204
		21 to 25 for 206
		21 to 25 for 308
		21 to 25 for 412
Night mode Ringing for all trunks	:	21 to 24 for 204
		21 to 25 for 206
		21 to 25 for 308
		21 to 25 for 412
Trunk access on all trunks	:	All Extns.
Power fail Extension	:	21 & 22 for 204
		21 & 22 for 206
		21 & 22 & 28 for 308
		21 & 22 & 28 & 32 for 412

WARNING

The EPABX should be mounted in a well ventilated place and at least Two feet above the ground.The voltage between electrical ground and neutral should be Zero. Make sure the earth pin of the AC input is well grounded. If 12v battery is used it should be only a 7AH maintenance free battery.

Ensure proper protection in P & T lines as well as mains input. If any damages occurs to any Card/Component due to over high voltage or spikes it would not be covered under the warranty terms of the company and shall be repaired on chargeable basis only.

The warranty is also void due to damage resulting from Accident, Mishandling, Negligence, Tampering, Unauthorised repairs, Failure to follow instruction, High voltage, Lightning, Fire, Floods and acts of God.