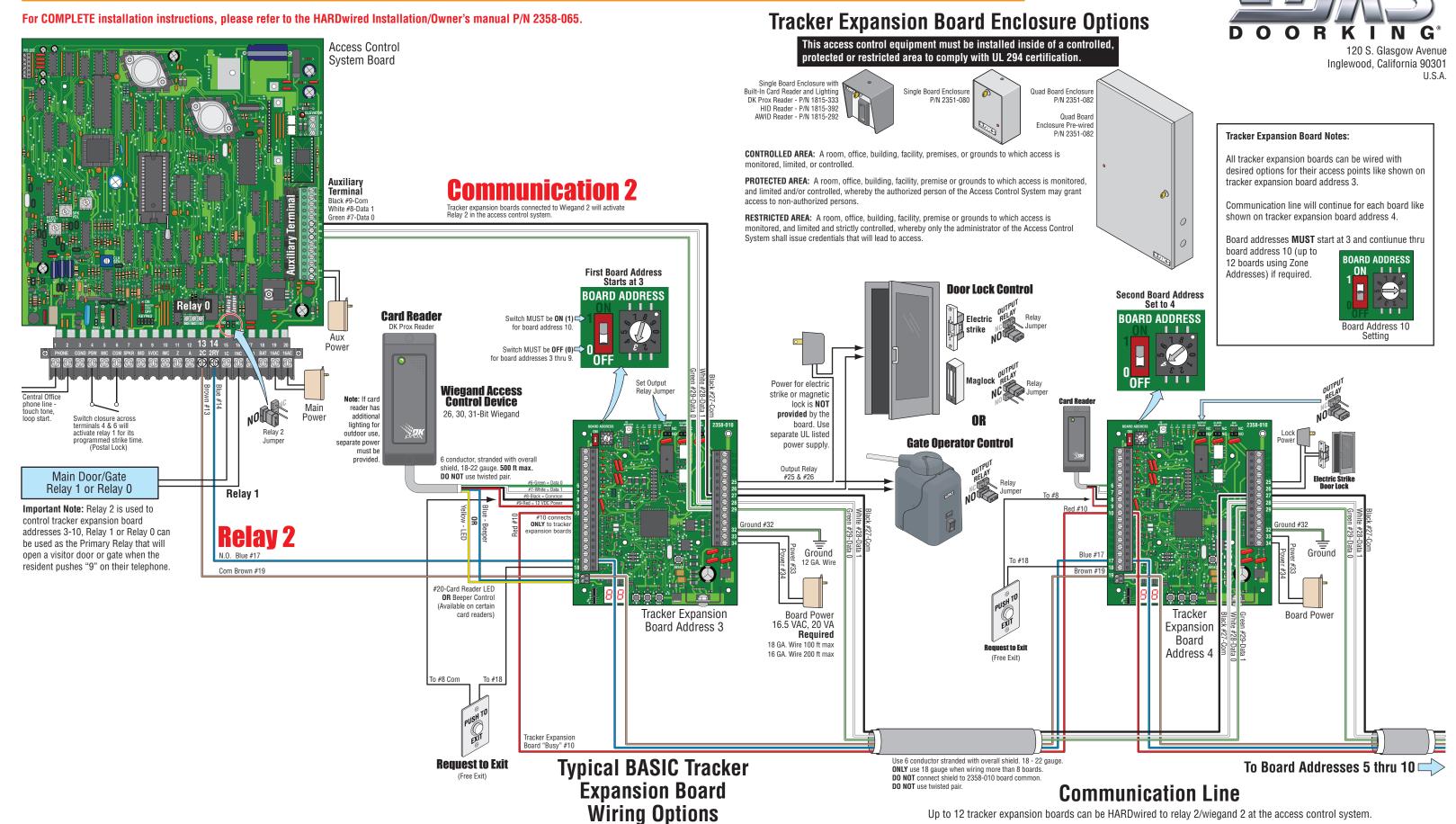
# ICKSTART "BASIC" HARDWIRE TRACKER EXPANSION BOARD TO RELAY 2/WIEGAND 2 GUIDELINES



for Access Point **NO** "optional" tracker features or battery back-up wiring shown, see manual for details. Up to 12 tracker expansion boards can be HARDwired to relay 2/wiegand 2 at the access control system.

IMPORTANT: The maximum distance for a tracker expansion board HARDwire run is 4000 feet TOTAL (1 to 12 boards can be in a HARDwire run). The farthest board can be NO more than 2000 feet away from the access control system. See manual for multiple tracker expansion boards layout limitations.

# PROGRAMMING OPTIONS ON EACH HARDWIRED TRACKER EXPANSION BOARD GUIDELINES

For COMPLETE programming instructions, please refer to the HARDwired Installation/Owner's manual P/N 2358-065.



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Board addresses <b>MUST</b> be set for each board used.	BOARD ADDRESS SCORE AND		
Data 0	2 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	-Aux Relay 22 23 -Alarm Relay 25 -Output Relay	
Access Control Device Data 1 26, 30, 31-Bit Wiegand Com	8	27 Com Data 1 - Tracker Commun	ication Line
_12 VDC Tracker Expansion Board Busy	10	Data 0_ Data 0_ Battery	
		31 (+) 12VDC Back-Up	
	12	32 Ground - Required	
		33	
	15	34	
	16 👄 🔾 🗓 🗓 📜		
Relay Communication Line (NO)			
Request to Exit			
Relay Communication Line (Com) Card Reader LED/Beeper Control	19 00 3 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	Part I Part	
outa moduoi EED/Doopoi oomioi		Board Power 16.5 VAC, 20 VA	
	SR BBB	Required	
	LED Display		
	Programming		
	Buttons		

#### **Basic Programming Sequence on EACH Tracker Expansion Board**

Follow these basic steps to perform desired programming, See programming options table for PROGRAM STEPS.

- 1. Press ▼▲ arrow buttons or ENT button to ACTIVATE LED display.
- 2. Press ▼▲ arrow buttons again to CHOOSE desired PROGRAM STEP.
- 3. Press ENT button to ENTER desired PROGRAM STEP. (LED display number will blink after **ENT** button has been pressed).
- **4.** Press **▼** ∆ arrow buttons to choose **SELECTION NUMBER** for desired function of program step.
- 5. Press ENT button to program SELECTION NUMBER for desired function of program step. (Function has now been programmed into board).
- 6. Press ENT button again to exit programming OR after 10 seconds, board will automatically exit programming.

**Note:** Repeat these steps for all other desired programming functions.

**Each** tracker expansion board will have to be **INDIVIDUALLY** programmed with desired functions.

After all tracker expansion boards have been programmed.....

### **Manage the Complete Access Control System from Your PC**





**IMPORTANT Display Decimal Point Note** 

a program step.

When decimal point is displayed: Indicates that you are **SELECTING** 

When decimal point is **NOT** displayed:

Indicates that you are IN a program step.

Your PC connected to the access control system. Either IM Server OR TCP/IP OR RS-232 OR Modem to Modem Connection. See PC Programmable **Telephone Entry and Access Control Systems Installation/Owner's manual** for more information about connection options.

	Programming Options on EACH Tracker Expansion Board						
Program Step	Description	Options	Selection Number	Function	Factory Default		
1	Door Strike Timer	00 - 99	00	Sets Strike Time for output relay (term 25 & 26) 0.25 second strike time	01 - 1 second		
	Door ourke Times	00 00	01 - 99	Strike time in 1-second increments Set Strike Time for RX (Request to Exit) of output relay (input at term 18)	01 1 3000114		
2	,	00 - 99	00	0.25 second Egress Strike time	01 - 1 second		
			01 - 99	Egress Strike time in 1-second increments Timer starts when valid access has been granted.			
3	Door Ajar Timer	00 - 99	00 01 - 99	1 second Door Ajar Timer Timer set in 5-second increments: 01 = 5 seconds, 10 = 50 seconds	12 - 60 secs		
4	Aux Relay Timer	00 - 99	00	Timer setting for Aux Relay activation in 5-second increments  1 second Door Ajar Timer	12 - 60 secs		
			01 - 99	Timer set in 5-second increments: 01 = 5 seconds, 10 = 50 seconds  Set Strike Time for RX (Request to Exit) of Aux relay (ONLY available if Dual Door Mode step 12 is ON)			
5	Free Exit Timer, Aux Relay	00 - 99	00 01 - 99	0.25 second Egress Strike time Egress Strike time in 1-second increments	01 - 1 second		
				Set RX (Request to Exit) function. Activate Output Relay or do not Activate Output Relay			
6	Free Exit, No Strike	0 or 1	1	Do Not Activate Output Relay or Reader Beeper/LED when RX input is received Activate Output Relay and Reader Beeper/LED for Free Exit Strike Time when RX received	1 - Activate		
7	Not Used			Sets type of Door Switch contacts			
8	Door Contact Switch Logic	0 or 1	0	N.O. contact from door switch with Door Closed (Circuit Open - CO)  N.C. contact from door switch with Door Closed (Circuit Close - CC)	0 - N.O.		
0	9 Auto Relock	0 or 1	0	Turns on Auto Relock function (not available if Dual Door Mode, step 12 is ON) Output Relay is activated for Strike Time	0 - Disabled		
3		0 01 1	1	Door Contact Switch required. If door returns to closed position during Strike Time	0 - Disabled		
				door will "relock" after 1 second, even if strike time has not expired.  Sets how BEEPER or LED will function during Hold Open			
10	Beeper / LED Hold Open	0 or 1	1	When Hold Open occurs, Beeper or LED is active only during Strike Timer When Hold Open occurs, Beeper or LED will remain active during Hold Open	0		
			0	Sets how Aux & Alarm Relay responds during Hold Open or Hold Egress situation  No Aux Relay functions. Alarm will be in "Reset". If Alarm Relay is set for "integral" mode, Alarm relay will not activate. If			
11	Hold Open or Hold Egress functions	0 or 1	1	Alarm Relay set for "Bypass" mode, Alarm Relay will activate for Hold Open period or Extended Egress Hold.  Aux Relay will function for all settings. If Alarm Relay is set for "integral" mode. Alarm relay will not activate. If Alarm Relay set	0 - No relay functions		
			,	For "Bypass" mode, Alarm Relay will activate for Hold Open period or Extended Egress Hold.  Sets Tracker to function as 2 Access Points (2 tracker addresses)	Tullotions		
			0	Disabled, Tracker functions as single access point			
12	Dual Door Mode	0 or 1	1	Dual Mode: Tracker functions as set board address and next sequential address Card Read will be sent to controller as set board address, access is granted or denied	0 - Disabled		
				Card then sent as set address +1, access granted or denied. Aux Relay becomes 2nd output relay. All other Aux Relay functions disabled. Door Contact switch becomes RX (Request to Exit) for 2nd address.			
13 14	Not Used Not Used			anabasa basi ostina sobolino in (noquas a bin) as bin anabasa			
14	NOT OSEU			Sets function for Aux Relay	0 - Disabled		
		0 - 12	1	Aux Relay Disabled  No Door Ajar Timer: Requires Door Contact Switch. Aux Relay activates when Door Not Closed.			
			3	No Door Ajar Timer, Pulse: Requires Door Contact Switch. Aux Relay "pulses" when Door Not Closed.  Door Ajar Timer: Requires Door Contact Switch. When door opens, start Door Ajar Timer. When timer expires Aux Relay			
			4	activates for Aux Relay timer or until door closes, whichever occurs first.  Door Ajar Timer, Pulse: Requires Door Contact Switch. When door opens, start Door Ajar Timer. When timer expires Aux Relay			
				Pulses for Aux Relay timer or until door closes, whichever occurs first.			
15	Aux Relay Functions		5	Door Ajar, Pulse warning the ON: Requires Door Contact Switch. When door opens, Pulse Aux Relay and start Door Ajar Timer. When timer expires Aux Relay ON for Aux Relay timer or until door closes, whichever occurs first.			
,			6	Door opens for any reason, Start Door Ajar timer and pulse Aux Relay. When Door Ajar timer expires, start Aux Timer and continue Pulsing Aux Relay.			
			7	When Door Closes or both timers expire, turn off Aux Relay  Aux Relay as 2nd Alarm Relay. Aux Relay will mirror Alarm Relay functions.			
			8	Aux Relay as 2nd Alarm Relay, PULSE. Aux relay will Pulse during any Alarm Relay activation.			
			10	Good Card: Aux Relay will activate for Aux Relay timer for any Access Granted Card  Any Card: Aux Relay will activate for Aux Relay Timer when any card has been presented.	-		
			11 12	Bad Card: Aux Relay will activate for Aux Relay timer when a card has been denied  Warn before Hold Open or Release of Hold Open: Aux relay will activate for Aux Relay timer when scheduled Hold Open begins			
			12	or ends. Output Relay will be delayed until Aux Timer expires. <b>DO NOT</b> set Aux Timer above 60 seconds in this mode.			
П	Alarm Relay Functions oor Operation Note:		0	Sets function for Alarm Relay Aux Relay Disabled			
P	ROPER Condition: The access control	ice <b>HAS</b> on the he door	1	<b>Bypass Mode:</b> Alarm Relay provides "Bypass" to Alarm Door Switch. With proper door input (access or egress) activate Alarm Relay, start Strike timer and Door Aiar timer. When Door Aiar timer expires, deactivate Alarm Relay.	_		
ad	system <b>OR</b> request to exit device <b>HAS</b> activated the <b>OUTPUT RELAY</b> on the tracker expansion board and the door contact switch is <b>CLOSED</b> (Door is			If second Door Contact Switch is provided, generate transaction for Door Ajar and Door Closed following Door Forced condition.  Also generate transaction for Door Forced condition.			
			_	Integral Mode, Door Ajar Timer: Door Contact Switch connected to Tracker, Alarm Relay provides connection directly to Alarm			
0	PEN). This indicates that the door has een <b>PROPERLY OPENED</b> .		2	System. When door is opened for any reason, start Door Ajar timer. When Door Ajar timer expires and Door is still OPEN, activate Alarm Relay. Reset when door closes.			
<sup>16</sup> F	ORCED Condition: The access control	0 - 4		Send Door Ajar and Door Close transactions.  Integral Mode. Proper and Forced condition: Door Contact Switch connected to Tracker, Alarm Relay provides connection	0 - Disabled		
	stem <b>OR</b> request to exit device has <b>OT</b> activated the <b>OUTPUT RELAY</b> on		3	directly to Alarm System. With proper door input (access or egress) start Strike timer and Door Ajar timer. When Door Ajar			
th	e tracker expansion board and the por contact switch is <b>CLOSED</b> (Door is		3	timer expires and Door is still OPEN, activate Alarm Relay. Reset when door closes.  If door is opened without proper condition, activate alarm relay. When door closes deactivate Alarm Relay. Send Door Ajar,	1		
0	PEN). This indicates that the door has		4	Door Close and Door Forced transactions.  Gate Alarm Function: Alarm Relay will activate for 1 second when tracker board receives a "Gate Forced" or "Gate Obstructed"	-		
17	een FORCED OPENED.  Not Used			transaction from the operator control board.			
18	Not Used			Out all accomplished to Forday Default			
19 20	Reset to Factory Defaults View RF POT Setting		5 ole Setting	Sets all parameters to Factory Default Sets maximum amount of allowable signal strength loss			
19		Adjustal					

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