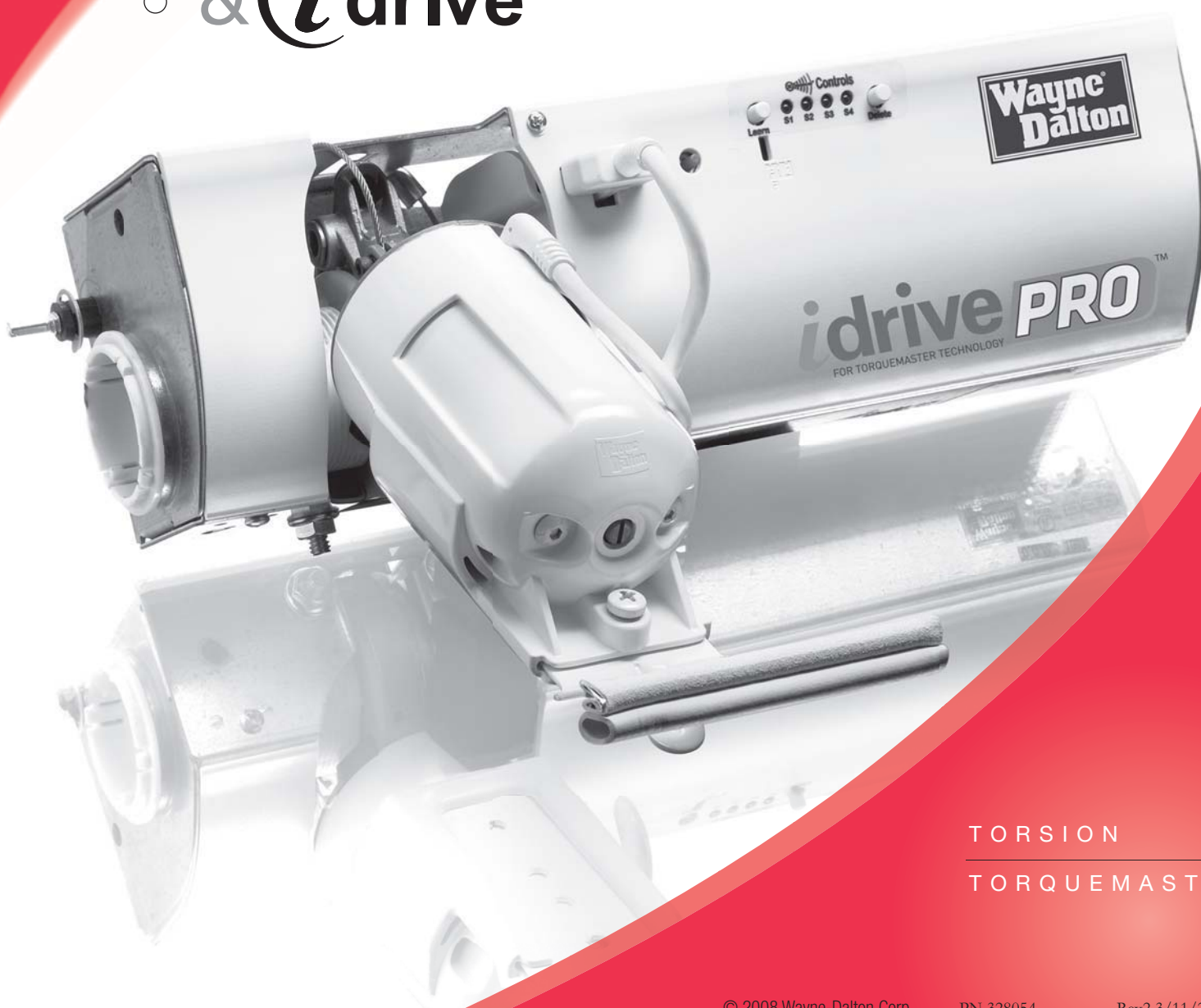


**Wayne
Dalton**
GARAGE DOORS & OPENERS

Service Manual

For Wayne-Dalton Wall Mounted Openers

● **i**drive**PRO**
& **i**drive



TORSION

TORQUEMASTER®

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For your advantage in servicing idrive operators, we now offer a service kit, which includes many of the most commonly used parts for servicing idrive operators.

Service Kit

For idrive® Operators

Parts included in the service kit are:

TORSION

MCB Assembly w/ Microcontroller Torsion
Cable Guide
(2) Grease, Duralube
(2) Fuse Kit 2-4.0 ASB 5 20mm
Manual, Owners Torsion

TORQUEMASTER®

MCB Assembly w/ Microcontroller Torquemaster®
(2) Fuse Kit
Lock Arm
Manual, Owners Torquemaster®

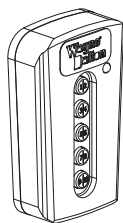
UNIVERSAL PARTS

KEP3 Wireless Keypad
Wall Station Deluxe 7 Button
Cable Disengage
Manual, Service Kit idrive®
Fastener Bag
Parts Bag
Transmitter 3 Button 372.0 Mhz
(5) Grease Kit, Slick 50 Grease One

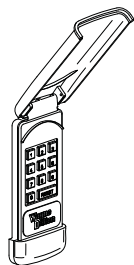


Part	Description	Price
328048	Service Parts Kit- idrive	200.00

Accessories



1



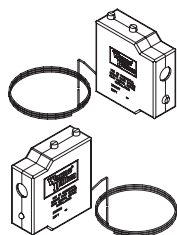
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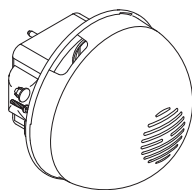
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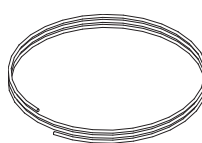
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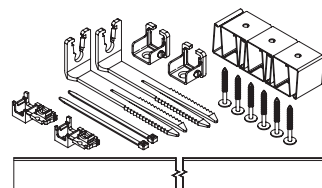
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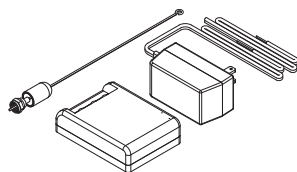
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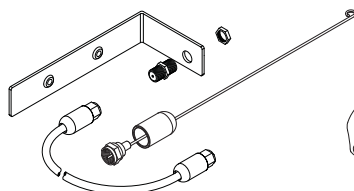
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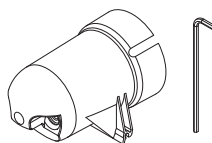
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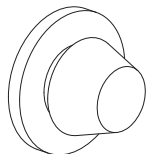
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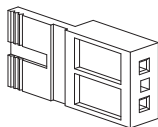
11

Key	Part	Description	Price
1	327308	5-Btn Wireless Keyless Entry	34.00
2	327607	10 Btn. Wireless Keyless Entry	40.00
3	327314	Wall Station, Multi Function	36.00
4	327310	3-BTN Mini/Visor Transmitter 372 MHZ	18.00
5	252118	Wired Infrared Safety Sensors	41.00
6	313416	Deluxe Light Kit (RF)	60.00
7	260701	Bell Wire, 80'	7.00
8	302988	idrive® Power Cord Extender 4-pack	135.00
9	317289	External Radio Receiver Kit	27.00
10	320780	Antenna Extension Kit	17.00
11	302883	idrive® Low Headroom Kit for all idrive® for Torquemaster®	15.00

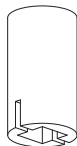
Parts Bag contains the following:



(5) Bumper 1/2"



(5) Jumper Shorting



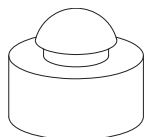
(5) Program Switch Cap, Red



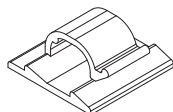
(5) S-Hook



(5) Bushing, Gearcase



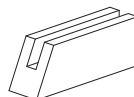
(5) Bumper 1/2"



(5) Cable Clip, Adhesive Back



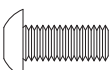
(5) Spring, Return Disengage Arm



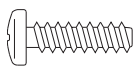
(5) Bumper, Gear Case/Motor cover

1

Fastener Bag contains the following:



(5) Screw M5 x .8 x 12
Socket



(10) Screw #6-20 x 1'2"
Phil. PanHd



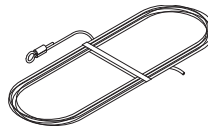
(10) Screw #6-13 x 7/8
Phil. PanHd

2

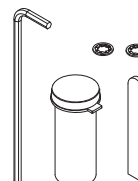
Battery Pack contains
the following:

- (6) MN-21 12V
- (6) CR2016 Coin Cell
- (6) CR2032 Coin Cell
- (4) AAA

3



4



5

6



7

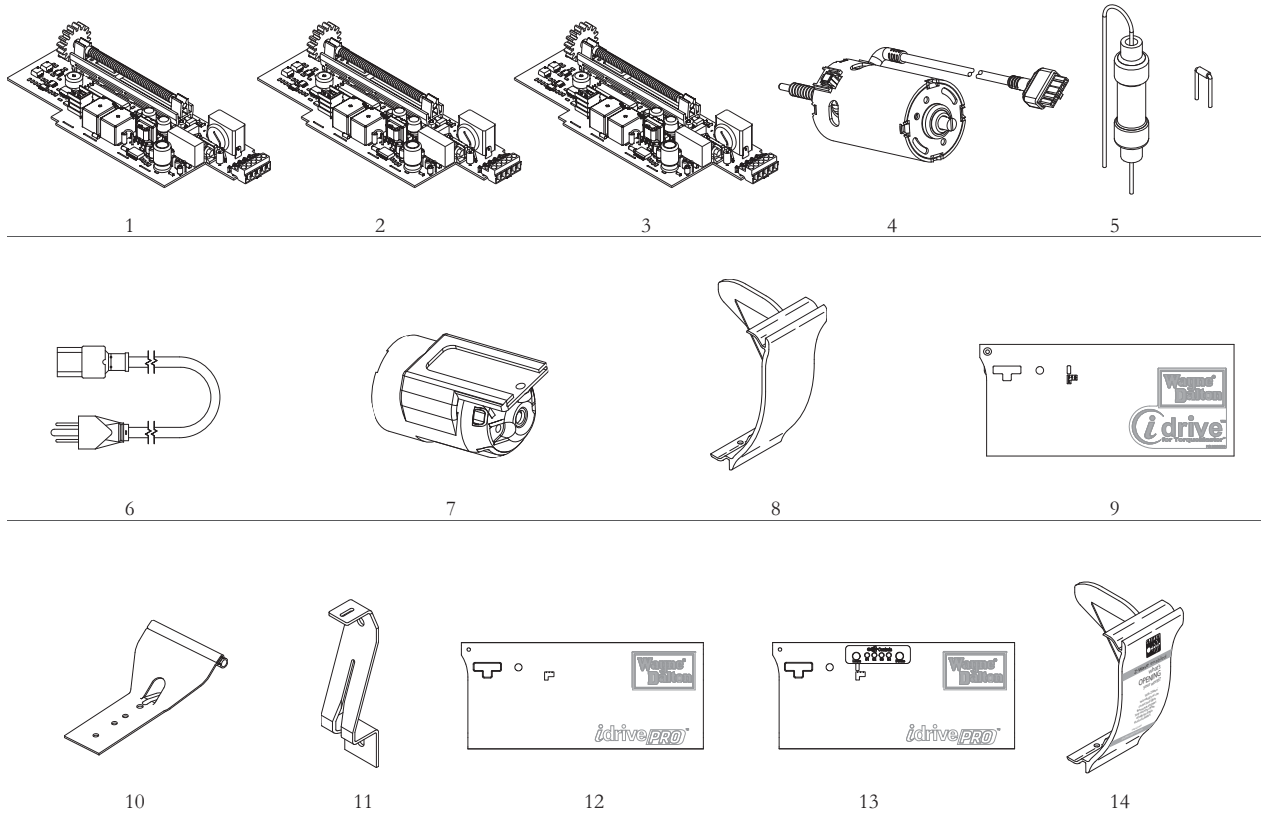


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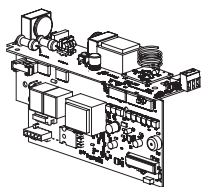


Manuals

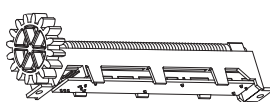
Key	Part	Description	Price
1	328053	Parts Bag, Service Kit, idrive®	19.00
2	328052	Fastener Bag, Service Kit, idrive®	1.87
3	326670	Battery Pack	16.00
4	293286	Cable, Disengage	3.55
5	328051	Grease Kit, Slick 50, Grease One (for Motor)	3.82
6	328054	Manual, Service Kit, idrive®	3.00
7	305871	Manual, Owners, Torsion	3.00
8	320687	Manual, Owners, Torquemaster®	3.00



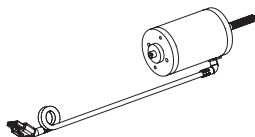
Key	Part	Description	Price
1	319709	MCB Assembly w/ microcontroller, idrive® for TorqueMaster®	98.00
2	334091	MCB Assembly w/ microcontroller, idrive PRO® Non Z-wave®	98.00
3	334100	MCB Assembly w/ microcontroller for idrive PRO® with Z-Wave®	180.00
4	336015	Motor, DC, Torquemaster® w/ Grease Kit	48.00
5	315108	Fuse Kit	5.49
6	294366	Power Cord, 6ft White	7.00
7	292371	Cover, Motor, all TorqueMaster® idrive® models	5.83
8	292370	Cover, Left Side, TM idrive Pro®, Non Z-wave® and TM idrive®	2.90
9	320621	Cover, Right Side, TM idrive®	3.00
10	296945	Lock Arm	7.00
11	306372	Bracket, Handle, Disconnect	3.00
12	334087	Cover, Right Side, TorqueMaster® PRO	3.00
13	334097	Cover, Right Side, TM PRO, Z-Wave®	15.00
14	335979	Cover, Left Side, TM idrive PRO®, Z-Wave®	3.00



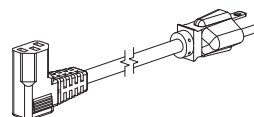
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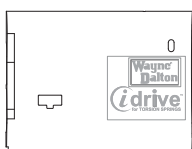
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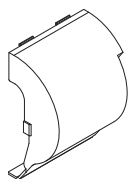
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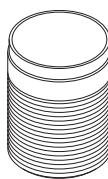
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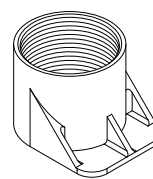
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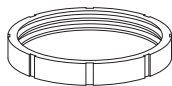
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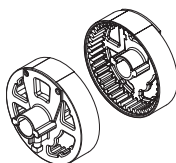
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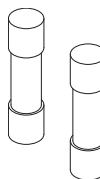
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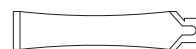
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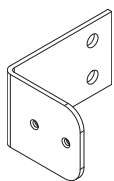


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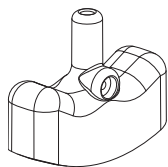


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Key	Part	Description	Price
1	315679	MCB Assembly w/ microcontroller	98.00
2	306274	Potentiometer Assembly	10.00
3	336014	Motor, DC, Torsion w/ Grease Kit	60.00
4	305535	Power Cord 6 ft	7.00
5	306271	Cover w/ Decal, Right Side	9.92
6	305533	Cover, Left Side	6.30
7	307365	Cover, Motor	2.00
8	305829	Lock Adjuster, Flat	2.88
9	305830	Lock Ring	1.25
10	307516	Gear Assembly 46 tooth	29.96
11	323179	Fuse Kit 2-4.0 ASB 5 20 mm	4.91
12	308051	Grease Duralube (for Gear)	2.97



13



14



15

Key	Part	Description	Price
13	305867	Cable Guide	0.50
14	292382	Disengage Handle	1.00
15	305866	Bracket, Handle, Disconnect	3.00

PROBLEM	BEEP SIGNAL	CAUSE	CORRECTION
ACTIVATING INSTALL BUTTON (no existing profile)			
Door won't move. Motor won't start.	1 long and 1 short	Door not in closed position at beginning of Install Routine.	Move door to closed position. Re-initiate Install Routine.
"	1 long and 1 short	Potentiometer nut out of position (too far to right)	Pot. nut needs to be positioned 1/8" - 3/16" from left stop.
"	NONE	Bad fuse	Remove main (right hand) cover, replace fuse(s).
"	NONE	No power to Opener	Plug in power cord to outlet and/or at Opener. Check breakers.
"	NONE	Wall Station not programmed to radio receiver.	Refer to owner's manual for setting UCC code and programming radio
"	NONE	Wall Station button stuck (continuously transmitting)	PCB not completely snapped in base. (hard reset may be req.)
"	8*	Damaged Motor Control Board	Replace Motor Control Board
"	3*	Motor not detected	Plug in motor to opener. Tighten motor connector. sockets. Replace motor
"	2	Trying to profile with external button on "old" wall station	Use internal profile button using programming tool or paper clip.
"	5 chirps	Wall Station/Operator in Vacation Mode	"7 function wall station, slide vacation switch to upward position 5 function wall station, simultaneously press pet function and up/down"
Motor starts, door won't move.	2*	Emergency Disconnect disengaged	Re-engage.
Motor starts, door stops less than 1/2 open	2*	Pot. gear unsnapped from bracket	Remove RH cover snap pot.gear into bracket. Check nut position.
"	2*	Door more than 45 lb heavy	Balance door and/or remove bind or obstruction.
"	2*	Threaded Sleeve traveling nut out of position	Remove opener from torque tube, disconnect, move nut to leave 2 threads to left of nut. Check pot. nut position (see above).
Door opens completely, then stops	8	Photobeam jumper installed, photobeams not detected	Remove jumper or align photobeams or install photobeams.
Completes install but bottom limit is off of floor	NONE	Door not completely closed at start of Install Routine.	Repeat Install Routine with door starting firm on floor.
Completes install but open limit too low	NONE	Pot. nut out of position (too far to right when door closed)	Position pot. nut 1/8" - 3/16" from left stop when door closed.
"	NONE	Door balance too heavy or obstruction above 1/2 open	Add spring tension or level horizontal track or remove obstruction.
"	NONE	Threaded Sleeve traveling nut out of position	Remove opener from torque tube, disconnect, move nut to leave 2 threads to left of nut. Check pot. nut position (see above).
Motor won't pivot up or won't stay up	NONE	Door balance is too "hot" (light) off of floor	Reduce spring tension.
"	NONE	Detent pin out of adjustment	Adjust pin in/out so RH tip just touches face of motor bushing. Disconnect opener and manually pivot motor up to check.
Door did not complete 2 up&down cycles	NONE	Interrupted install routine by activating a transmitter or W.S.	Repeat Install Routine.
"	4	Obstruction encountered while closing	Remove obstruction.
"	4	Sequence UP/DOWN,UP/STOP- Pot. nut .against left stop	Position pot. nut 1/8 - 3/16" from left stop when door closed.
*The first 2 beeps signal successful initiation of install routine			
ACTIVATING UP/DOWN BUTTON			
Door won't move. Motor won't start.	1 long and 1 short	Unit has no force profile recorded in memory.	Run normal Install Routine.
"	NONE	No power to Opener	Plug in power cord to outlet and/or at Opener. Check breakers.
"	NONE	Bad fuse	Remove main (right hand) cover, replace fuse(s).
"	NONE	Wall Station/Remote transmitter not programmed.	Program transmitter to opener. New transmitter will require UCC set.
"	6	Damaged Motor Control Board	Replace Motor Control Board
"	1	Motor not detected	Plug in motor to opener. Tighten motor connector sockets. Replace motor
"	NONE	Possible lightning related power surge lock-up	Unplug power head for 10 sec. Reconnect.
"	5 chirps	Wall Station/Operator in Vacation Mode	"7 function wall station, slide vacation switch to upward position 5 function wall station, simultaneously press pet function and up/down"
Motor starts, door won't move.	NONE	Emergency Disconnect not engaged	Re-engage.
Partial door move and stop, or stop and reverse	3	Current sensor profile error	Remove obstruction, balance/adjust door or reprofile.
"	4	Potentiometer profile error	Remove obstruction, balance/adjust door or reprofile.

PROBLEM	BEEP SIGNAL	CAUSE	CORRECTION
"	NONE	Loose motor connection	Tighten motor connector sockets or replace motor
Door only opens 3" and stops (after programming a transmitter)	NONE	Normal operation for one cycle after programming a transmitter (safety precaution).	Next activation will open door, then normal operation.
Door reversing at or near floor	4	Spring tension too tight (door "hot" or too light off of floor)	balance door by reducing spring tension.
"	3 or 4	Pot. nut positioned against left stop when profiled	Remove RH cover, unsnap RH end of pot screw, position nut 3/16" from left stop.
"	6	Zero current fault	Replace Motor Control Board
Door won't begin close from normal open position	1	"Thermal delay", (door cycled 8 times within 5 minutes)	Wait 1 minute or reset by removing power and reconnecting.
"	1	Motor not detected	Tighten motor connector sockets or replace motor
"	5	Photobeam jumper installed, photobeams not detected	Align photobeams.
Door stops while closing, no reverse	4 or 6	Intermittent motor connection	Tighten motor connector sockets or replace motor
"	1	"Broken spring fault" (door balance too heavy)	Replace broken spring or Add tension to spring. Door can be "jogged" down to close with repeated down button activation.
INFRARED DELUXE LIGHT KIT			
Door works but light doesn't work	NONE	IR signal blocked between opener sender & light receiver	Align receiver at light. Check sender at opener protruding through cover hole. Remove obstruction in between.
"	NONE	No AC power to light fixture.	Check house breaker, verify power to outlet with meter or power tool.
"	NONE	Loose internal light fixture connection	Disconnect power to light, remove and check internal connections.
Light won't turn off	NONE	Weak IR signal to light fixture	Adjust alignment or remove obstruction between sender & receiver.
RADIO FREQUENCY DELUXE LIGHT KIT			
Light does not turn on for 4 seconds then off when power is first applied	NONE	No AC power to light.	Check house breaker, verify power to outlet with meter or power tool.
Door works but light doesn't work	NONE	Operator Head not programmed to light kit.	Perform light kit programming procedure.
Light Kit will not learn operator signal.	NONE	Possible RF signal void at light kit position	Try light kit at other outlets in the garage.
Light Kit does not function or will not program at any receptacle in garage	NONE	Possible defective light kit	Replace light kit
Replacement light kit will does not function or will not program and any receptacle in the garage.	NONE	Possible defective transceiver on motor control board	Replace Motor Control Board.
ACTIVATING PET BUTTON			
Door Won't move	5	Pet button, door position error	Door must be fully closed to activate this function.
ACTIVATING TIMER BUTTON			
Door Won't move	4	Timer button, door position error	Door must be fully open to activate this function.
RADIO PERFORMANCE			
Radio won't program	NONE	UCC code not set	Perform "2 second" code set sequence (see owners manual)
"	NONE	Transmitter is too close to receiver when programming	Transmitter must be 6' from light fixture during programming
Poor radio range	NONE	Antenna poorly positioned	Straighten and position up and away from motor
"	NONE	Antenna damaged	Replace receiver daughter board.
"	NONE	Shielding interference	Remove nearby metal if possible
"	NONE	Low battery	Check/change transmitter battery.

D I A G N O S T I C S O F T W A R E

The TorquelMaster® idrive® has embedded software that will alert you to an out of balance situation and/ or a point or area of high friction in the installation of either the door or the operator. To use this feature and interpret the feedback from the operator;

- Run the profile routine. ● After completion of the profile routine, disengage operator. ● Slowly raise door manually (about 4 inches/sec.) ● As the door is moving you will hear a low frequency chatter. If there is a significant difference in the balance of the door either through out the entire door travel or localized, the frequency of the chatter will increase. ● You can move the door up and down slowly in an area of travel where the chatter increases in frequency to isolate friction issues. ● The operator will remain in the diagnostic mode until a power reset is performed or there is no door movement for 10 seconds. ● When the operator is in the diagnostic mode it will not process any Radio Frequency Commands (wall station, keyless entry, or remote transmitter).

NOTE: The diagnostic routine will not detect door/track issues in the first 3" of door travel off the floor nor in the first 12" of close travel from the open limit.

PROBLEM	BEEP SIGNAL	CAUSE	CORRECTION
ACTIVATING INSTALL BUTTON (no existing profile)			
Door won't move. Motor won't start.	1 long and 1 short	Door not in closed position at beginning of Install Routine.	Move door to closed position. Re-initiate Install Routine.
"	1 long and 1 short	Potentiometer nut out of position (too far to right)	Pot. nut needs to be positioned 1/8" - 3/16" from left stop.
"	1 long and 1 short	Bad fuse	Remove main (right hand) cover, replace fuse
"	NONE	No power to Opener	Plug in power cord to outlet and/or at Opener. Check breakers.
"	NONE	Wall Station not programmed to radio receiver.	Refer to owner's manual for setting UCC code and programming radio
"	NONE	Wall Station button stuck (continuously transmitting)	PCB not completely snapped in base.
"	8	Damaged Motor Control Board	Replace Motor Control Board
"	3*	Motor not detected	Plug in motor to opener. Tighten motor connector, sockets. Replace motor
"	3*	Damaged Motor Control Board	Replace Motor Control Board
"	5 chirps	Wall Station/Operator in Vacation Mode	"7 function wall station, slide vacation switch to upward position
"	NONE	Emergency Disconnect disengaged	Simultaneously press pet function and up/down"
Motor starts, door won't move.	NONE	Emergency Disconnect disengaged	Re-engage.
Motor starts, door stops less than 1/2 open	NONE	Pot. gear unsnapped from bracket	Remove RH cover snap pot.gear into bracket. Check nut position.
"	NONE	Door more than 45 lb heavy	Balance door and/or remove bind or obstruction.
"	NONE	Threaded Sleeve traveling nut out of position	Slide left and right side gears away from operator,
Door opens completely, then stops	8*	Photo beams not detected	Install photo beams or align photo beams.
Door opens completely, then stops	NONE	external radio user input shorted	remove short
Completes install but bottom limit is off of floor	NONE	Door not completely closed at start of Install Routine.	Repeat Install Routine with door starting firm on floor.
Completes install but open limit too low	NONE	Pot. nut out of position (too far to right when door closed)	Position pot. nut 1/8" - 3/16" from left stop when door closed.
"	NONE	Door balance too heavy or obstruction above 1/2 open	Level horizontal track or remove obstruction, or have a professional installer add tension to springs
"	NONE	Threaded Sleeve traveling nut out of position	Remove opener from torque tube, remove left cover, disconnect, move nut to leave 2 threads to left of nut. Check pot. nut position (see above).
Motor won't pivot up or won't stay up	NONE	Door balance is too "hot" (light) off of floor	Have a professional installer reduce spring tension.
"	NONE	Detent pin out of adjustment	Adjust pin in/out so RH tip just touches face of motor bushing. Disconnect opener and manually pivot motor up to check.
Door did not complete 2 up&down cycles	NONE	Interrupted install routine by activating a transmitter or W.S.	Repeat Install Routine.
"	4	Obstruction encountered while closing	Remove obstruction.
"	4	Sequence UP,DWN,UP,STOP- Pot. nut .against left stop	Position pot. nut 1/8" - 3/16" from left stop when door closed.
*The first 2 beeps signal successful initiation of install routine			
ACTIVATING UP/DOWN BUTTON			
Door won't move. Motor won't start.	1 long and 1 short	Unit has no force profile recorded in memory.	Run normal Install Routine.
"	NONE	No power to Opener	Plug in power cord to outlet and/or at Opener. Check breakers.
"	1	Bad fuse	Remove main (right hand) cover, replace fuse.
"	NONE	Wall Station/Remote transmitter not programmed.	Program transmitter to opener. New transmitter will require UCC set.
"	6	Damaged Motor Control Board	Replace Motor Control Board
"	1	Motor not detected	Plug in motor to opener. Tighten motor connector sockets. Replace motor
"	NONE	Possible lightning related power surge lock-up	Unplug power head for 10 sec. Reconnect.
"	5 chirps	Wall Station/Operator in Vacation Mode	"7 function wall station, slide vacation switch to upward position
Motor starts, door won't move.	NONE	Emergency Disconnect not engaged	Simultaneously press pet function and up/down"
"	NONE	Emergency Disconnect not engaged	Re-engage.

PROBLEM	BEEP SIGNAL	CAUSE	CORRECTION
Partial door move and stop, or stop and reverse	3	Current sensor profile error	Remove obstruction, reprofile or have a professional installer balance/adjust door.
"	4	Potentiometer profile error	Remove obstruction, reprofile or have a professional installer balance/adjust door.
"	4	Poor connection between motor ctrl and pot board	Remove power, press lower left corner of motor control board
"	4	Potentiometer not moving	Pot nut or pot screw not moving, replace or readjust
"	NONE	Loose motor connection	Tighten motor connector sockets or replace motor
Door only opens 3" and stops (after programming a transmitter)	NONE	Normal operation for one cycle after programming a transmitter (safety precaution).	Next activation will open door, then normal operation.
Door reversing at or near floor	4	Spring tension too tight (door "hot" or too light off of floor)	Have a professional installer balance door by reducing spring tension.
"	3 or 4	Pot. nut positioned against left stop when profiled	Remove RH cover, unsnap RH end of pot screw, position nut 1/8" - 3/16" from left stop.
Door won't begin close from normal open position	1	"Thermal delay", (door cycled 8 times within 5 minutes)	Wait 1 minute or reset by removing power and reconnecting.
"	1	Motor not detected	Tighten motor connector sockets or replace motor
"	3	Photo beams not detected	Install photo beams or align photo beams
Door stops while closing, no reverse	4 or 6	Intermittent motor connection	Tighten motor connector sockets or replace motor
"	1	"Broken spring fault" (door balance too heavy)	Have a professional installer replace broken spring or add tension to spring. Door can be "jogged" down to close with repeated down button activation.
INFRARED DELUXE LIGHT KIT			
Door works but light doesn't work	NONE	IR signal blocked between opener sender & light receiver	Align receiver at light. Check sender at opener protruding through cover hole. Remove obstruction in between.
"	NONE	No AC power to light fixture.	Check house breaker
"	NONE	Loose internal light fixture connection	Disconnect power to light, remove and check internal connections.
Light won't turn off	NONE	Weak IR signal to light fixture	Adjust alignment or remove obstruction between sender & receiver
RADIO FREQUENCY DELUXE LIGHT KIT			
Light does not turn on for 4 seconds then off when power is first applied	NONE	No AC power to light.	Check house breaker, verify power to outlet with meter or power tool.
Door works but light doesn't work	NONE	Operator Head not programmed to light kit.	Perform light kit programming procedure.
Light Kit will not learn operator signal.	NONE	Possible RF signal void at light kit position	Try light kit at other outlets in the garage.
Light Kit does not function or will not program at any receptacle in garage	NONE	Possible defective light kit	Replace light kit
Replacement light kit will does not function or will not program and any receptacle in the garage.	NONE	Possible defective transceiver on motor control board	Replace Motor Control Board.
ACTIVATING PET BUTTON			
Door Won't move	5	Pet button, door position error	Door must be fully closed to activate this function.
ACTIVATING TIMER BUTTON			
Door Won't move	4	Timer button, door position error	Door must be fully open to activate this function.
RADIO PERFORMANCE			
Radio won't program	NONE	UCC code not set	Perform "2 second" code set sequence (see owners manual)
"	NONE	Transmitter is too close to receiver when programming	Transmitter must be 6' from operator during programming
Poor radio range	NONE	Antenna poorly positioned	Straighten and position up and away from motor
"	NONE	Antenna damaged	Replace receiver daughter board.
"	NONE	Shielding interference	Remove nearby metal if possible
"	NONE	Low battery	Check/change transmitter battery.



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