Refrigerator State Transition Diagram

	Open fridge door	Close fridge door	Open freezer door	Close freezer door	Set room temp	Set fridge temp	Set freezer temp
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
door open;	door open;	door	door open;	door open;	door open;	door open;	door open;
Freezer	Freezer	closed;	Freezer	Freezer	Freezer	Freezer	Freezer
door open	door open	Freezer	door open	door closed	door open	door open	door open
		door open					
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
door	door open;	door	door	door	door	door	door
closed;	Freezer	closed;	closed;	closed;	closed;	closed;	closed;
Freezer	door open	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
door open		door open	door open	door closed	door open	door open	door open
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
door open;	door open;	door	door open;	door open;	door open;	door open;	door open;
Freezer	Freezer	closed;	Freezer	Freezer	Freezer	Freezer	Freezer
door	door closed	Freezer	door open	door closed	door closed	door closed	door closed
closed		door closed					
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
door	door open;	door	door	door	door	door	door
closed;	Freezer	closed;	closed;	closed;	closed;	closed;	closed;
Freezer	door closed	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
door		door closed	door open	door closed	door closed	door closed	door closed
closed							
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
light on	light on	light off	light off	light off	light on	light on	light on
Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge	Fridge
light off	light on	light off	light off	light off	light off	light off	light off
Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
light on	light off	light off	light on	light off	light on	light on	light on
Fridge	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer	Freezer
light off	light off	light off	light on	light off	light off	light off	light off
Fridge cooling	Fridge cooling	Fridge cooling	Fridge cooling	Fridge cooling	Fridge cooling	Fridge cooling	Fridge cooling

Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle	Fridge idle
Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling	Freezer cooling
Freezer idle	Freezer idle	Freezer idle	Freezer idle	Freezer idle	Freezer idle	Freezer idle	Freezer idle