Steering Panel OPERATION MANUAL

KS81F KS81A

KS81F [Dip Switch]

Switch	ON	Ol	Default		
1	Not available	PUMP A Feed-back	OFF		
2	PUMP RUN/S7				
3	1 second OF 2 second OF	F OFF F OFF	4 OFF ON	2 second	
4	3 second OF 4 second OI 5 second OI	N ON	ON ON ON		
5	PUMP Automatic l				
6	1 second OF 2 second OF	F OFF	7 OFF ON	2 second	
7	3 second OF 4 second OF 5 second OF	F ON ON	ON ON ON		
8	ASP available	Not av	ON		
9	STBD	РО	ON(STBD) OFF(PORT)		
10	Operation mode	Test 1	ON		

^{*}Resistor Termination ON/OFF(PORT & STBD)

KS81A [Dip Switch]

Switch	ON	OFF	Default	
1	NC	NC		
2	NC	NC		
3	NC	NC		
4	Not available	IND_FU Available	OFF	
5	STBD	PORT	ON(STBD) OFF(PORT)	
6	Operation mode	Test mode	ON	

^{*}Resistor Termination ON/OFF(PORT&STBD)

COM
[Dip Switch]

Switch		ON		OFF	Default	
1		t/output a	vailable			
	Signal FSP_SYNC			Not available	ON	
	J2 input	t/output a	vailable		ON	
	Signal	Input	Output			
2	FSP_JS	TB13-15	R8J ON	Not available		
	FSP_DP	TB13-15A	RL8P ON			
	J3 inpu	ut/output	available		ON	
	Signal	Input	Output			
3	ASP_SYNC	TB13-16	RL1 ON RK12A ON RL11 ON	Not available		
4	AP_RL	.1&RL4 a	activate	AP_RL4 activate	OFF	
5		STBD		PORT	ON(STBD) OFF(PORT)	
6	Оре	eration m	ode	Test mode	ON	

^{*}Resistor Termination ON/OFF

⁻ **SW5**: Silence key release to "communication error"

COM [Relay output chart]

No	Signal (Key)	Input (Terminal)	RL12	RL2E	RL1	RL2	RL4	R8J	RL8P	RK12A	RL11	RL3
1	POWER	V+		ON								
2	COM POWER	TB13-1D		ON								
3	KS81F _ IND_FU	TB13-3		ON	ON							
4	KS81F_NFU	TB13-4		ON		ON						
5	KS81F_ SYNC	TB13-13		ON	ON							
6	KS81F_AP	TB13-14		ON	ON (DIP 4 ON)		ON					
7	KS81F_JS	TB13-15		ON				ON				
8	KS81F_DP	TB13-15A		ON					ON			
9	KS81A_ SYNC	TB13-16		ON	ON						ON	
10	KS81A_ IND FU	TB13-12A		ON	ON						ON	
11	KS81A_ NFU	TB13-11		ON								ON
12	KS81F_ SYNC	DIP 1 ON TB13-13	ON	ON	ON							
13	KS81F_JS	DIP 2 ON TB13-15		ON				ON	ON			
14	KS81F_DP	DIP 2 ON TB13-15A		ON				ON	ON			
15	KS81A_ SYNC	DIP 3 ON TB13-16		ON	ON					ON	ON	

KS81F&KS81A [Test Mode]

Dip Switch "10" turn to OFF(KS81F)
Dip switch "6" turn to OFF(KS81A)

- 1. PUMP 1 RUN KEY: LAMP test
- 2. PUMP 1 STOP KEY: OUTPUT test
- 3. PUMP 2 RUN KEY: CAN BUS communication test
 - CAN BUS OK with "short" buzzer sound
 - CAN BUS malfunction with "long" buzzer sound
 - 4. PUMP 2 STOP KEY: INPUT Test with DIP switch 1 ~ 6 ON/OFF

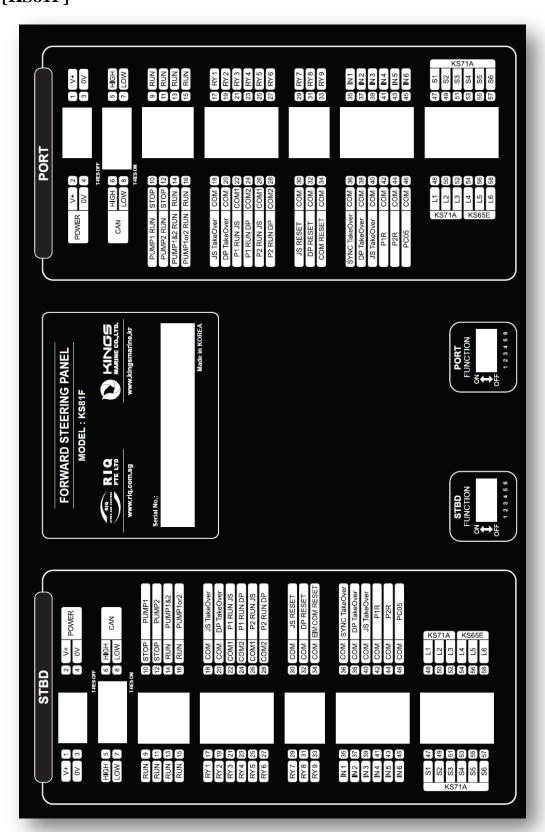
*Test mode would be work PORT/STBD separately

COM [Test Mode]

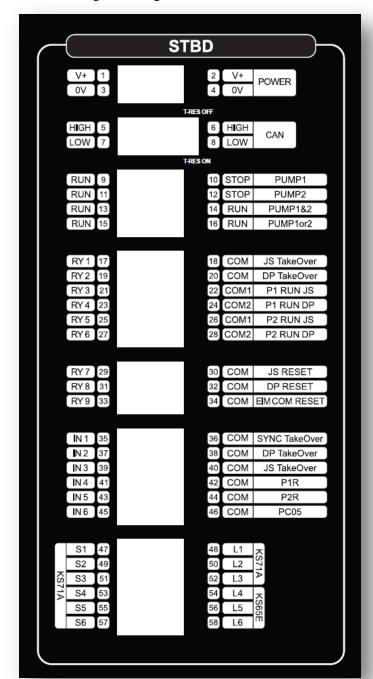
Dip switch "6" turn to OFF

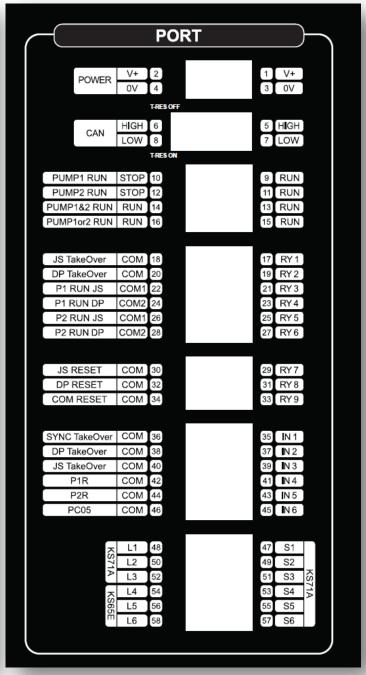
- 1. Switch "S5": OUTPUT test
- 2. Switch "S6": CAN BUS communication test
 - CAN BUS OK with "short" buzzer sound
 - CAN BUS malfunction with "long" buzzer sound

Terminal assignment [KS81F]

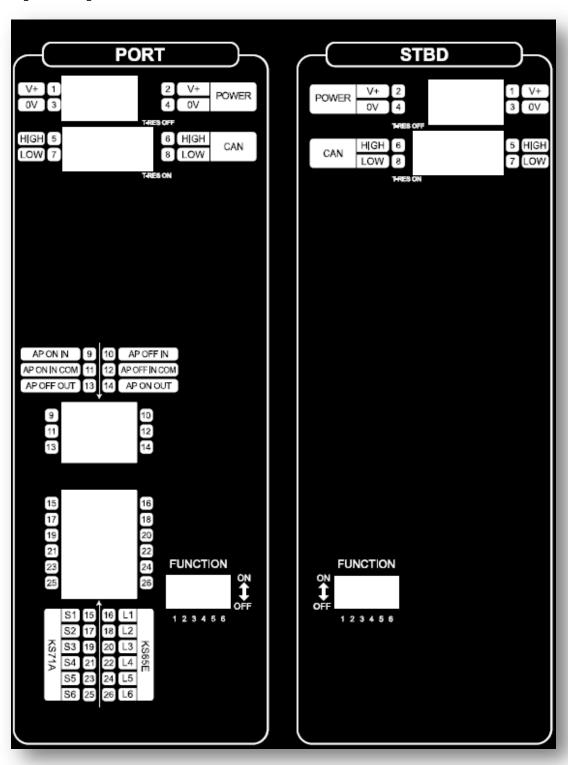


[KS81F]





[KS81A]



[COM]

