

**DRAWING # 40-1800 C**

REVISION A INITIAL RELEASE  
 REVISION B UPDATED TO MATCH PICTURES 7/5/2012  
 REVISION C CHANGED 8M3K 10FJX 8MB 15 IS KNOW 11

**Hydra FLKR Electrical/Hydraulic Schematic Data**

Print Date: 11/9/2012

**Control Pendant Assumptions**

1. All switch functions are referred to from the perspective of the user
2. All switch poles are viewed from the back of the switch with pendant top UP.
3. The electrical cable exits from the BOTTOM of pendant

**Valve Assembly Assumptions**

1. "B" work ports will be used for aggressive actions
2. "A" work ports will be used for passive actions
3. "Top" of valve assembly will be the face where DO3 valves are mounted
4. Work ports will always be on face of manifold opposite the coil powering the 3-way flaking circuit
5. Each coil will be grounded to valve body inside DIN by jumper from #1 to Ground
6. DIN connector designations: #1-Isolated Neutral; #2-Isolated Power; Ground Symbol-Isolated Ground

**Wiring Guidelines**

1. Expose 12" leads at valve, strip 1/2"
2. Expose 1" at Truck Half-Trailer Connector; Clip RED (not used); shorten BLUE additional 1/2"; Strip all 1/2"
3. Expose 1-1/4" at Flaker Half-Trailer Connector; shorten BLUE additional 1/2"; Strip all 1/2"
4. Prepare 10" white pigtail for Truck Half ground jumper
5. Expose 3" at Pendant end; shorten Red, Green, Blue & Yellow 1"; Strip all 7/16"
6. Jumper wires in DINs are 2" long, strip 7/16" both ends
7. Install function DIN connectors with removal notch same direction as 90 degree bend
8. Install Dump Valve DIN connector with Terminal #2 same direction as 90 degree bend

**HB Connection Station Assembly Notes**

1. Electrical connection requires grounding jumper to mounting bolt/screw at Headache Rack cross-tube

Switch Pendant Position	Switch Boot Color	Switch Name	Switch Pole	Function Name	Truck Cable Conductor Color	Female Half Cable DisConnect Conductor Color	Male Half Cable DisConnect Conductor Color	Female (Truck-Half) Connection Marker	Male (Flaker-Half) Connection Marker	Flaker Cable Conductor Color	Coil Connection (Viewed from top of valve with work ports to RIGHT)	Work Port Location	Work Port Designation	Hose Part Number	Supplied Component	Component Port
Top	Gray	Pusher	Top Right	Push	Brown	Brown	Brown	TM	TM	Brown	Center Right DIN #2	Center	B (top)	6M3K-6FJX-53.5	Pusher Motor	Flaker End
			Top Left	Push Home	Black	Black	Black	S	S	Black	Center Left DIN #2	Center	A (bottom)	6M3K-6FJX-55.5	Pusher Motor	Hinge End
Center	Red	Flake	Center Right	Flake	Yellow	Yellow	Yellow	LT	LT	Yellow	Top Left DIN #2	Pair Opposite Inlet	B (top)	6M3K-6FJX-71.5	Separator Motor	Top
			Center Left	Flake	Jumper to Yellow	None	None	None	None	None		Pair Opposite Inlet	A (bottom)	6M3K-6FJX-71.5	Separator Motor	Bottom
Bottom	White	Ramp	Bottom Right	Ramp Up	Green	Green	Green	RT	RT	Green	Bottom Right DIN #2	Inlet End	B (top)	6M3K-6FJX-50.5	Cylinder	Base End
			Bottom Left	Ramp Down	Blue	Blue	Blue	A (center)	A (center)	Blue	Bottom Left DIN #2	Inlet End	A (bottom)	6M3K-6FJX-55.5	Cylinder	Rod End
					No Direct Connection to Dump Valve through this connection						Opposite Work Ports DIN #2	Dump Valve	Leads from each directional coil pass through individual diode/rectifier before connection to this coil			
				Power In	Red	White	White Connects to Power from Pump Clutch Circuit	None-Red Lead does not connect in Truck-Half Connection	None	None						
				Ground	Jumper to Connector Mounting bolt			GD	GD	Red	Non-Insulated 5/16" ring terminal To Valve Body					

**Hydraulic Connections - Hydra Bed to Flaker Valve**

**Valve Right** - Pressure IN \* 6400-8 \* 6500-8 \* 8M3K 8FJX 8MB 11.0 \* 4250-15 Female QC \* Connects to Hydra Bed Jumper hose

**Valve Left** - Tank OUT \* 6400-10 Rev. Flow Check \* 6500-10 Run 90 \* 8M3K 10FJX 8G-8MBX *Swivel* 39.0 \* 6815 8-8 \* 8050-15 Male Tip \* Connects to Hydra Bed Female QC

**HB Station; Passenger Side** - 4250-15 Female QC \* 6801-8 \* 8M3K 8FJX 106.0 \* Power Beyond Pressure Port of Valve

**HB Station; Driver's Side Jumper Hose** - 8010-15 Male QC \* 6815 8-8 \* 8M3K 8FJX 8G-8MBX *Swivel* 28.0 \* 2701-LN8 Bulkhead \* 6701 8-8 Bent Tube 90 \* 8M3K 8FJX 106.0 \* Power Beyond Tank Port of Valve