



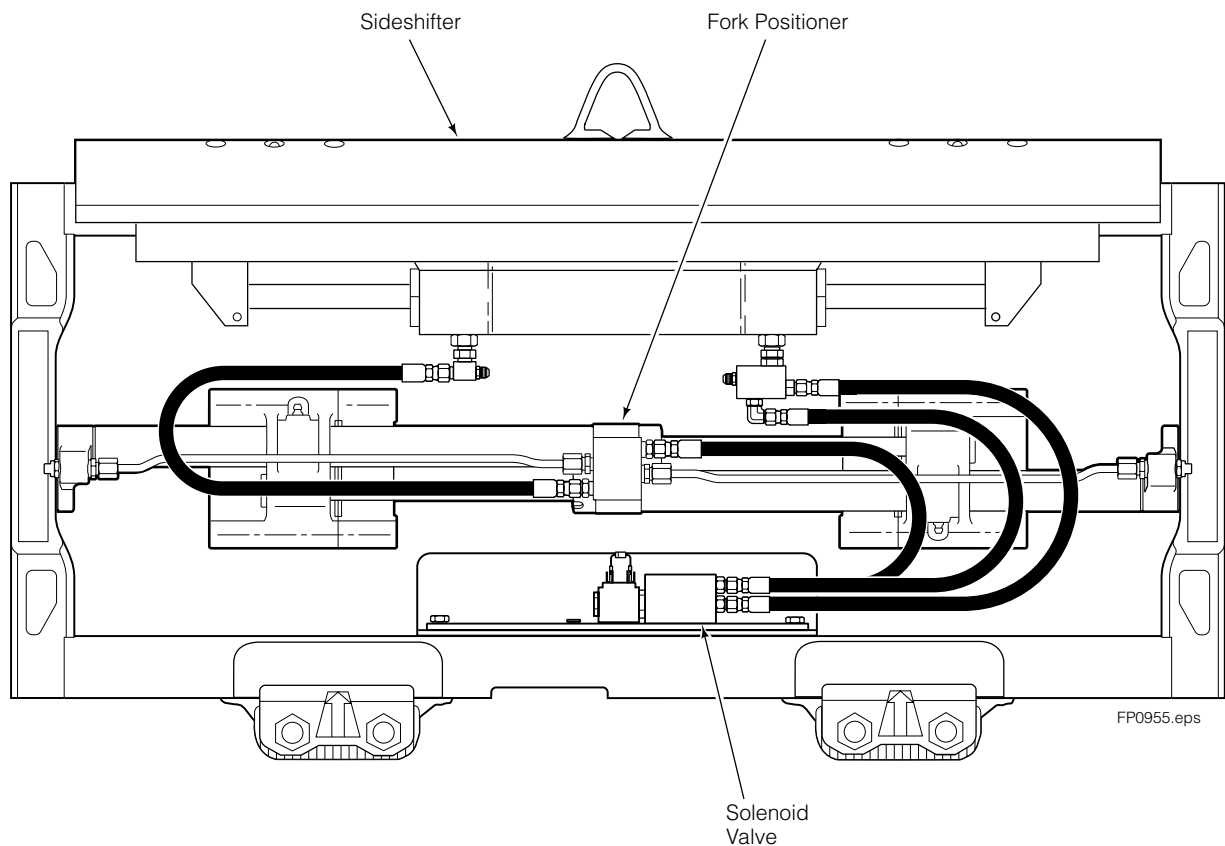
Installation Instructions

K-Series Fork Positioner Solenoid Control Kits

This sheet provides installation instructions and replacement parts list for Cascade Solenoid Control Kits. The kits provide two function operation using a single function hydraulic supply and solenoid actuation to select the sideshift or fork position functions. A Cable Reel and internal hose reeving or 6-N-1 Cable-Hose Reel is required to supply hydraulics and electric signal to the solenoid.

NOTE: Kits are UL Classified (File No. AU3546) for safety in Electric Battery (UL 583) and IC Engine (UL 558) Indust. Truck type E, ES, G, GS,G/LP/ GS/LPS, LP, LPS, D and DS.

NOTE: UL Classified Kits require installation by qualified personnel only without major disturbance, cutting, splicing or soldering of factory installed wiring.



NOTE: To be UL Classified, these kits must be used with a Cascade UL Classified Power Supply.

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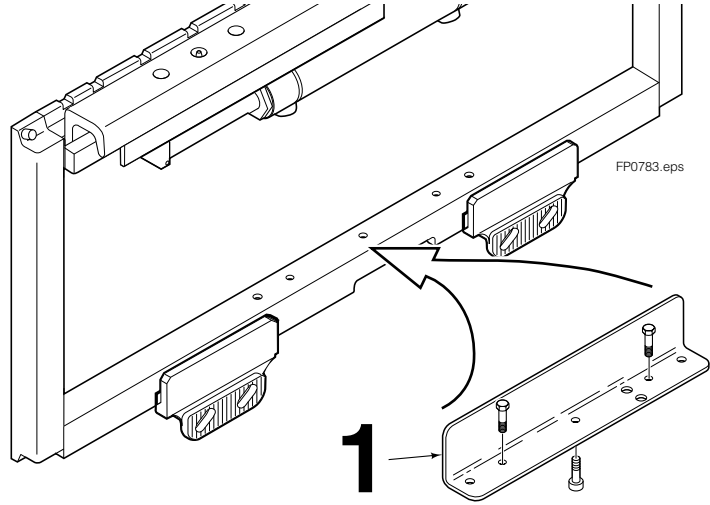
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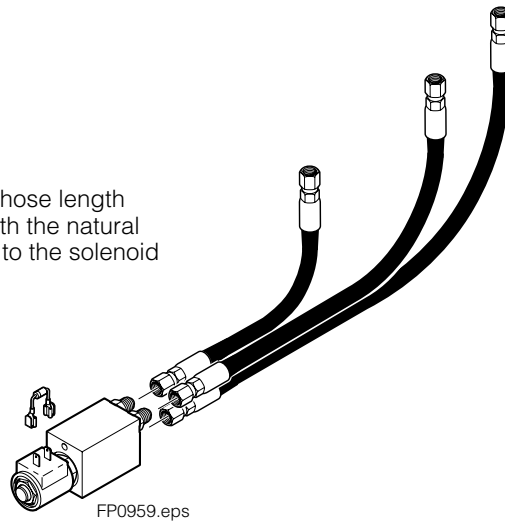
Cascade Corp.
File No. AU3546

Component Installation

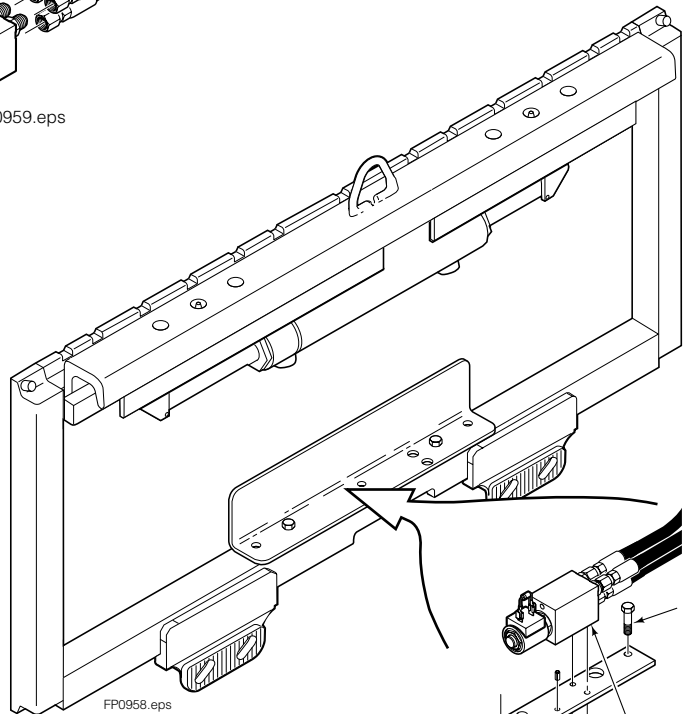
- 1 Mount the guard to the sideshifter lower carriage bar. Tighten the capscrews to a torque of 25 ft.-lbs. (35 Nm).



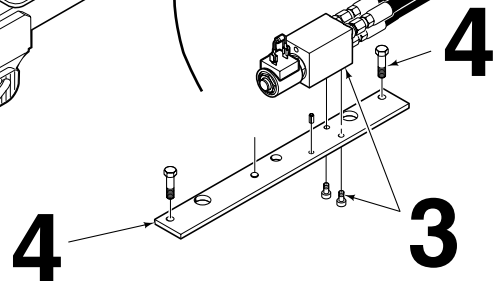
- 2 Install the hoses to the valve fittings with the hose length orientation shown. Tighten the hose ends with the natural bend of the hoses upward. Install the diode to the solenoid coil.



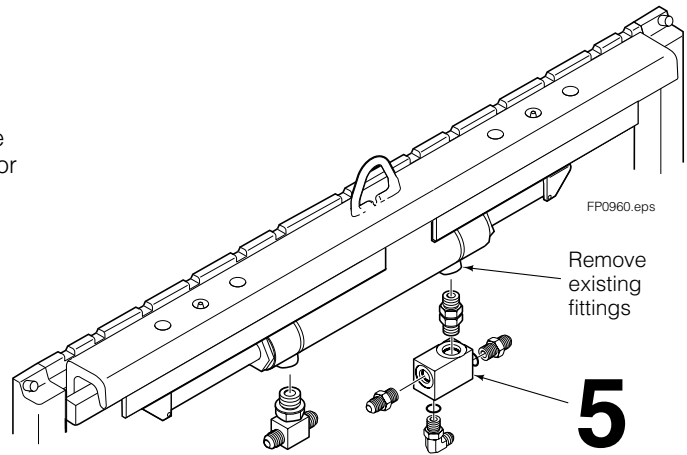
- 3 Install the solenoid valve to the bracket. Tighten the capscrews to a torque of 4 ft.-lbs. (5 Nm).



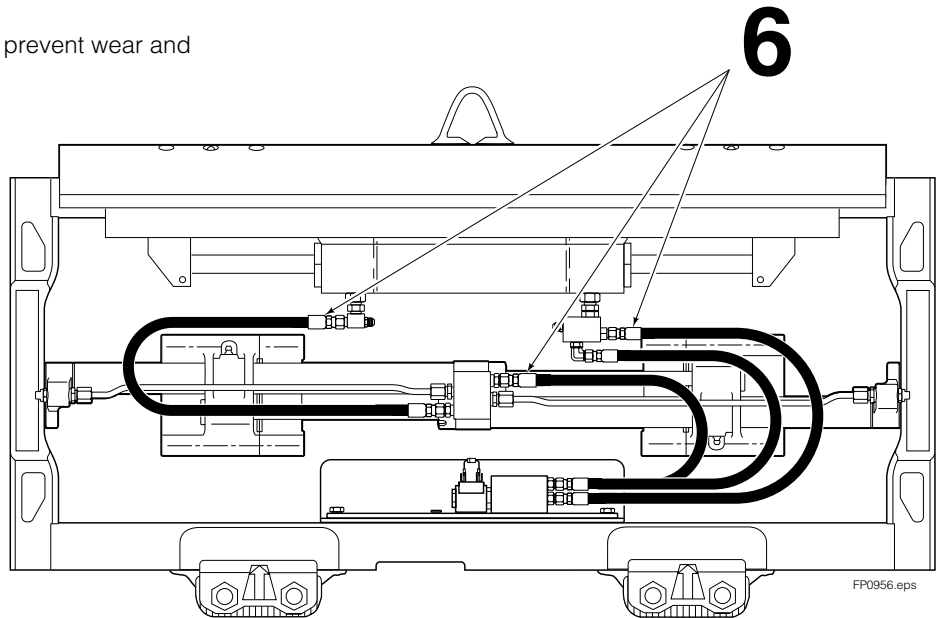
- 4 Install the bracket to the guard. Tighten the capscrews to a torque of 25 ft.-lbs. (35 Nm).



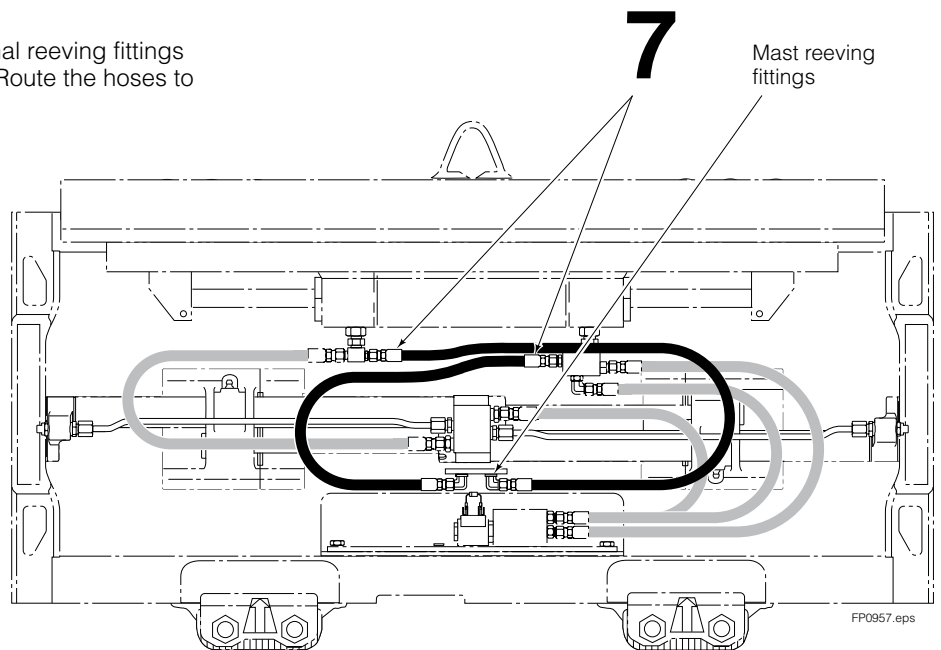
- 5** Remove any existing fittings from the sideshift cylinder ports. Install the new supply manifold and fittings to the sideshift cylinder ports. Do not remove the flow restrictor washers from the cylinder ports.



- 6** Install the kit hoses. Route the hoses to prevent wear and pinch points.



- 7** Install supply hoses from the mast internal reeving fittings to the sideshift cylinder supply fittings. Route the hoses to prevent wear and pinch points.



NOTE: UL Classified Kits require installation by qualified personnel only without major disturbance, cutting, splicing or soldering of factory installed wiring.



WARNING: To reduce risk of fire, replace only with the same type and ratings of fuse. The fused power cable is polarity sensitive. The positive wire must be connected to a positive power source.

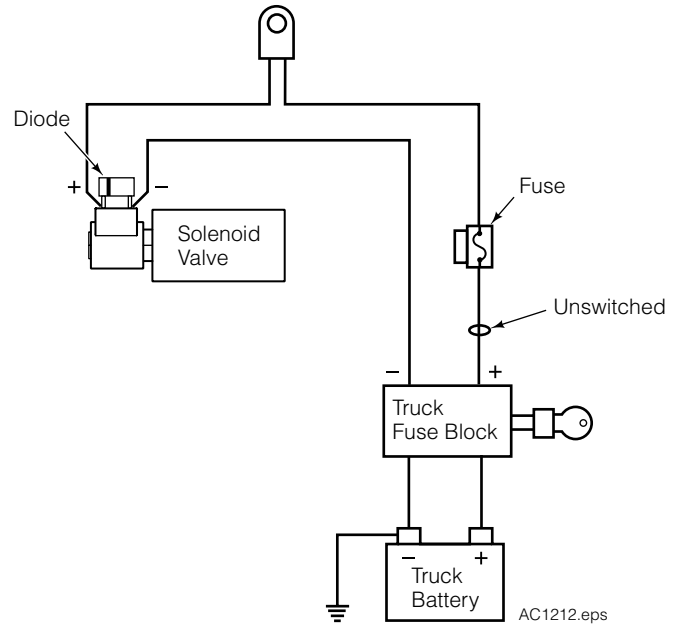
- 8** Connect wires from the control handle switch and solenoid valve terminals to the truck electrical system. The fuse must be connected to an unswitched positive terminal. The solenoid must be able to energize with the truck key in the off position.

Control Handle Switch–

Use Control Knob Kit 6823292 (12V) OR 6823293 (24V-48V)

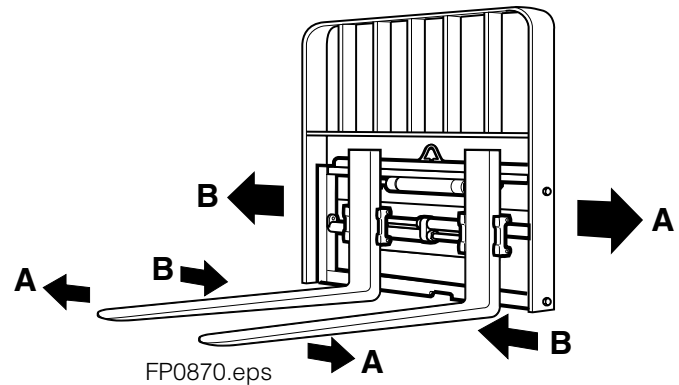
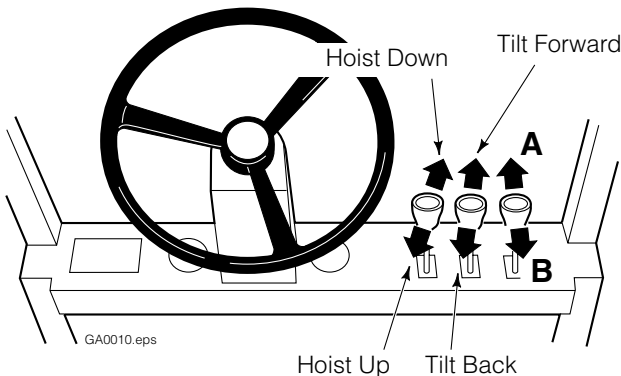
OR

Low Profile Switch Kit 6818564 (12V) OR 6818622 (24V-48V)



Operation

- Sideshift left and right several times.
- Engage the fork position function by pressing the solenoid button. Open and close the forks several times.
- Check for operation in accordance with ANSI standards shown below.
- Check for leaks at the fittings, valve and cylinders.

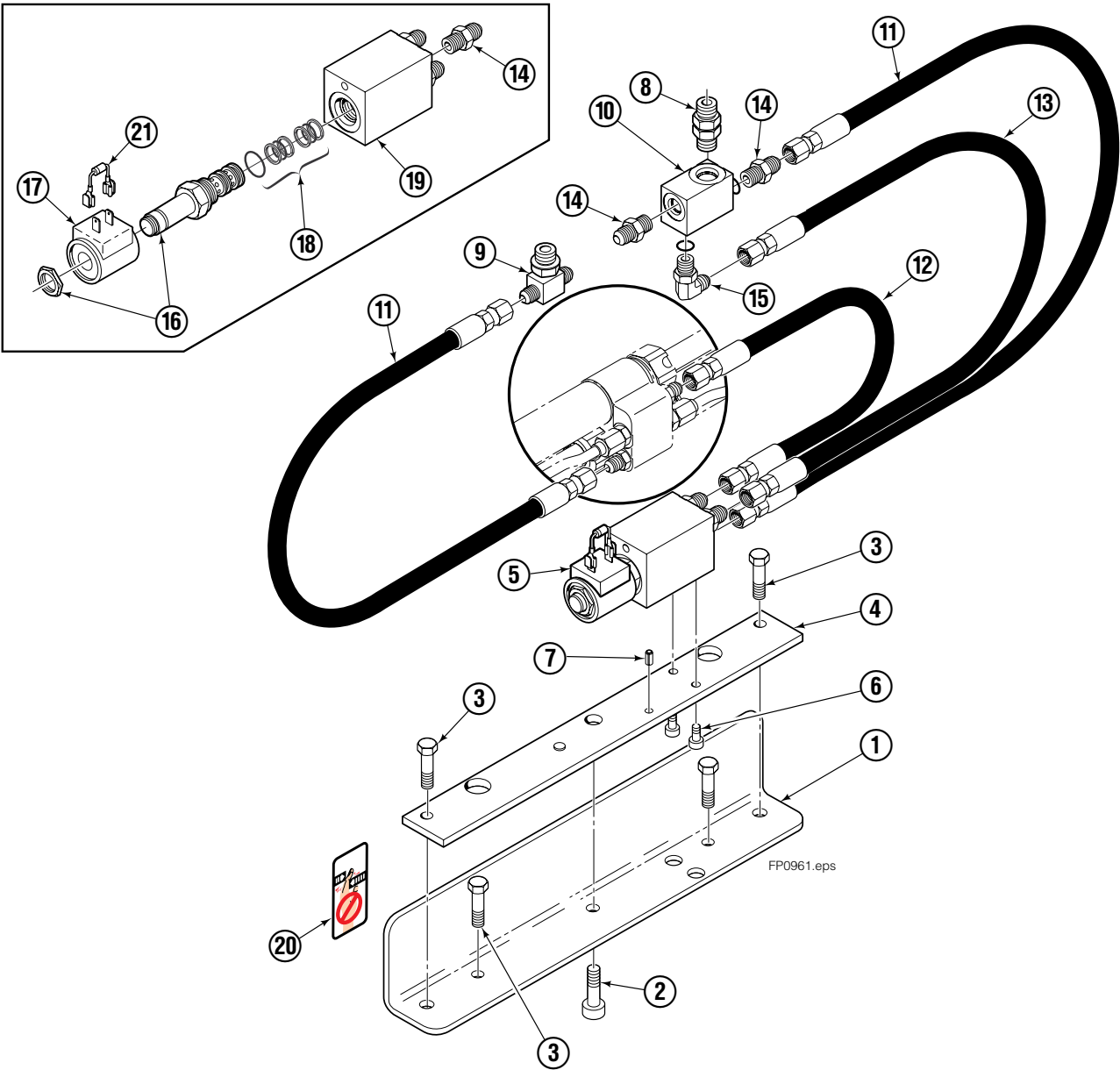


SIDESHIFT and SOLENOID ACTIVATED FORK POSITIONING

A Sideshift Left – Forks Out (press button)

B Sideshift Right – Forks In (press button)

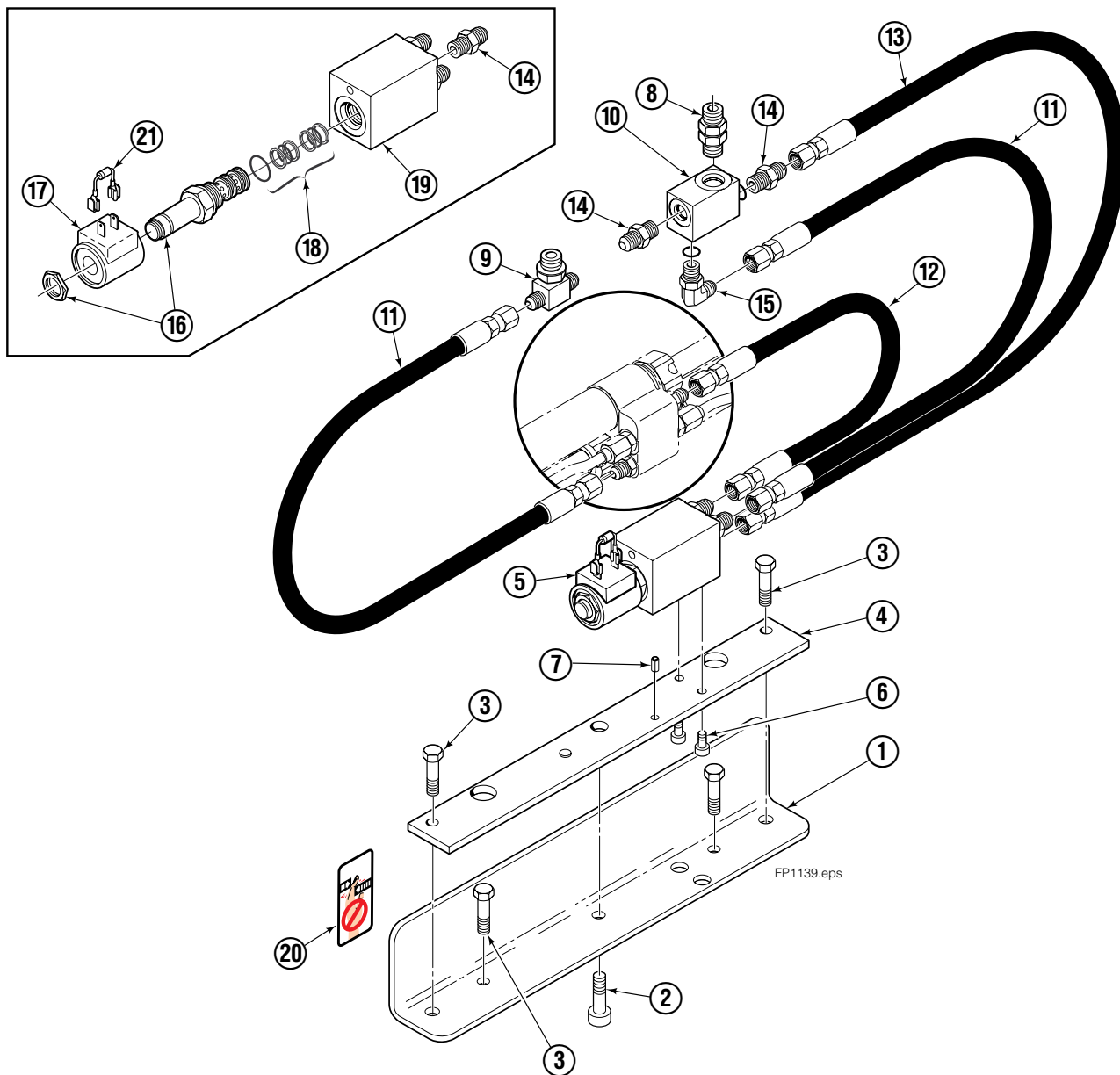
55K Solenoid Control Kit



REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6064496	55K Solenoid Control Kit-12V	10	1	6050411	Manifold ●
		6064505	55K Solenoid Control Kit-24V	11	2	6050405	Hose, 22.0 in. (560 mm)
		6064506	55K Solenoid Control Kit-36V	12	1	6050725	Hose, 15.75 in. (400 mm)
		6064507	55K Solenoid Control Kit-48V	13	1	6050052	Hose, 20.0 in. (510 mm)
1	1	6052246	Guard	14	5	617915	Fitting, 4-4 ● ■
2	1	767611	Capscrew, M10 x 40	15	1	617917	Fitting, 4-4 ●
3	4	787373	Capscrew, M8 x 25	16	1	6008166	Solenoid Cartridge ■
4	1	6054448	Mounting Bar	17	1	6860494	Solenoid Coil-12V ■
5	1	6064490	Solenoid Valve Assembly-12V		1	6860576	Solenoid Coil-24V ■
	1	6064502	Solenoid Valve Assembly-24V		1	6859258	Solenoid Coil-36V ■
	1	6064503	Solenoid Valve Assembly-36V		1	6860663	Solenoid Coil-48V ■
	1	6064504	Solenoid Valve Assembly-48V	18	1	6126457	Service Kit
6	2	768785	Capscrew	19	1	6052237	Valve Body ■
7	1	768991	Roll Pin, 5 x 10 mm ■	20	2	665595	Decal
8	1	201671	Fitting ●	21	1	669432	Diode
9	1	6050638	Fitting				

● Included in Manifold Assembly 6050615
■ Included in Solenoid Valve Assembly, Item 5

65K Solenoid Control Kit

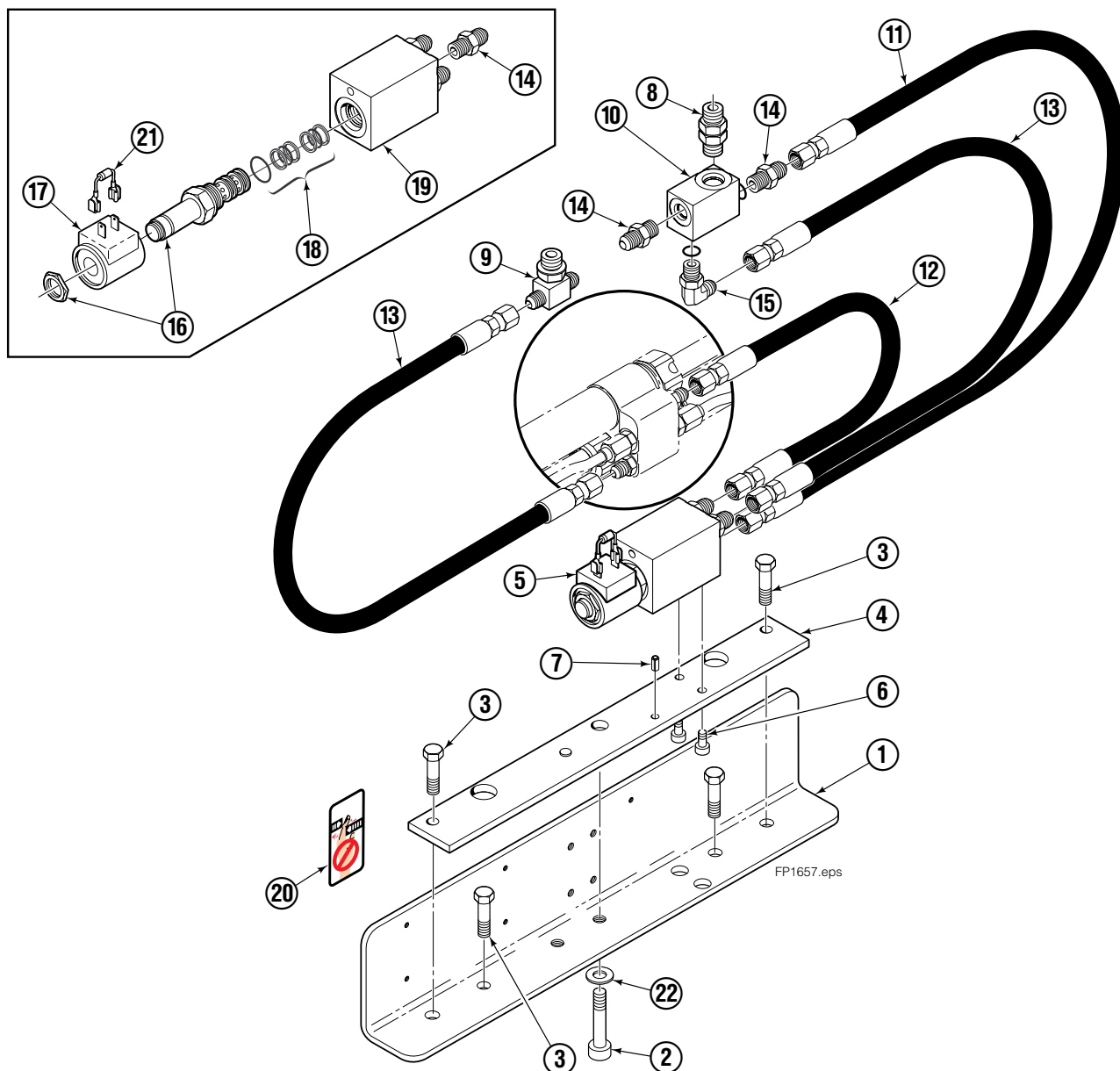


REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6068058	65K Solenoid Control Kit-12V	10	1	6050411	Manifold ●
		6068209	65K Solenoid Control Kit-24V	11	2	6064656	Hose, 24.0 in. (610 mm)
		6068210	65K Solenoid Control Kit-36V	12	1	6050052	Hose, 20.0 in. (510 mm)
		6068211	65K Solenoid Control Kit-48V	13	1	6064643	Hose, 27.0 in. (685 mm)
1	1	6052246	Guard	14	5	617915	Fitting, 4-4 ● ■
2	1	767611	Capscrew, M10 x 40	15	1	617917	Fitting, 4-4 ●
3	4	787373	Capscrew, M8 x 25	16	1	6008166	Solenoid Cartridge ■
4	1	6054448	Mounting Bar	17	1	6860494	Solenoid Coil-12V ■
5	1	6064490	Solenoid Valve Assembly-12V		1	6860576	Solenoid Coil-24V ■
	1	6064502	Solenoid Valve Assembly-24V		1	6859258	Solenoid Coil-36V ■
	1	6064503	Solenoid Valve Assembly-36V		1	6860663	Solenoid Coil-48V ■
	1	6064504	Solenoid Valve Assembly-48V	18	1	6126457	Service Kit
6	2	768785	Capscrew	19	1	6052237	Valve Body ■
7	1	768991	Roll Pin, 5 x 10 mm ■	20	2	665595	Decal
8	1	201671	Fitting ●	21	1	669432	Diode
9	1	6050638	Fitting				

● Included in Manifold Assembly 6050615

■ Included in Solenoid Valve Assembly, Item 5

100K Solenoid Control Kit

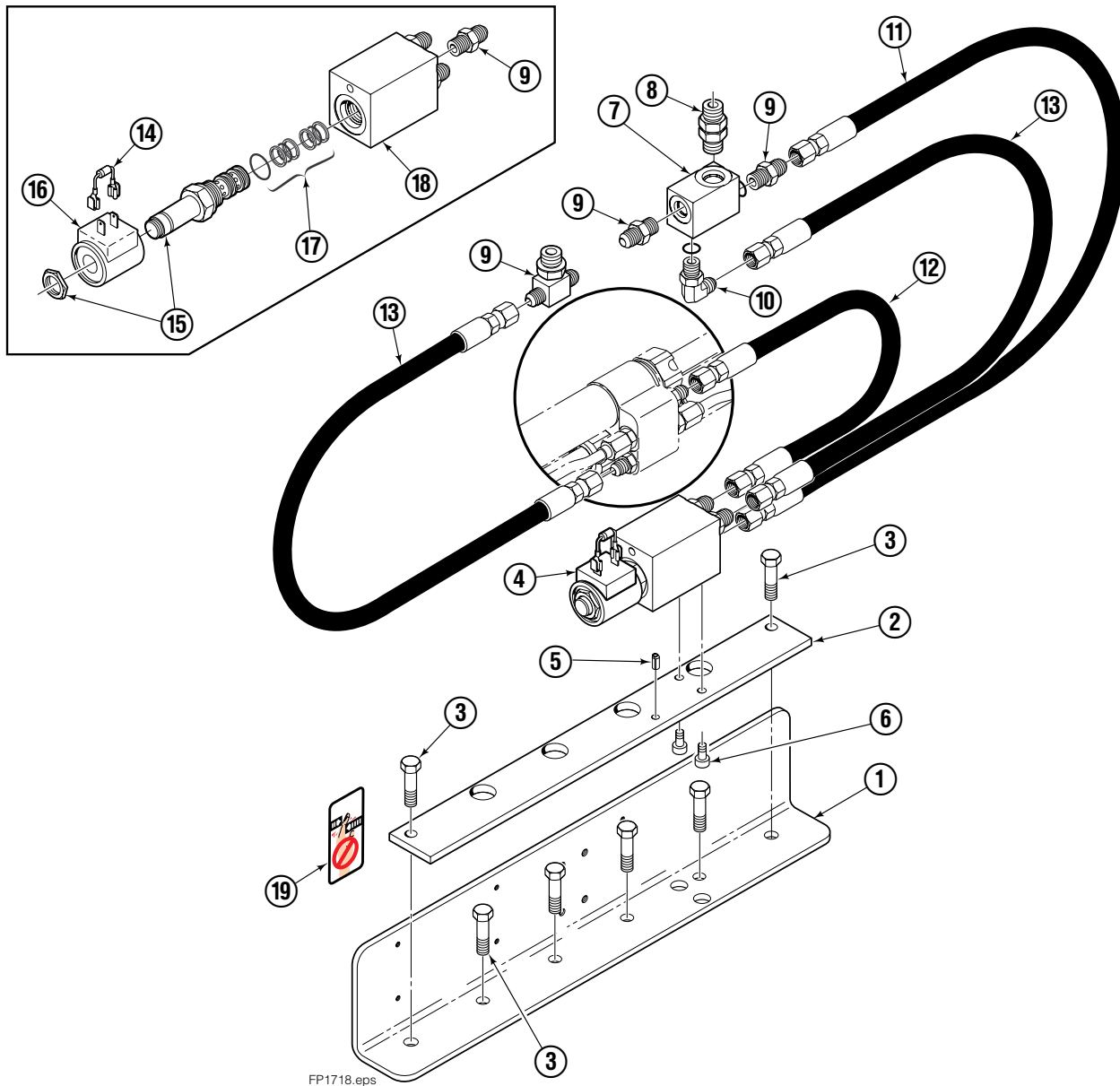


REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6074873	100K Solenoid Control Kit-12V	10	1	6050411	Manifold ●
		6074945	100K Solenoid Control Kit-24V	11	1	6064643	Hose, 27.0 in. (686 mm)
		6074947	100K Solenoid Control Kit-36V	12	1	6050052	Hose, 20.0 in. (510 mm)
		6074948	100K Solenoid Control Kit-48V	13	2	6064656	Hose, 24.0 in. (610 mm)
1	1	6076117	Guard	14	5	617915	Fitting, 4-4 ● ■
2	1	768814	Capscrew, M10 x 60	15	1	617917	Fitting, 4-4 ●
3	4	787373	Capscrew, M8 x 25	16	1	6008166	Solenoid Cartridge ■
4	1	6076112	Mounting Bar	17	1	6860494	Solenoid Coil-12V ■
5	1	6064490	Solenoid Valve Assembly-12V		1	6860576	Solenoid Coil-24V ■
	1	6064502	Solenoid Valve Assembly-24V		1	6859258	Solenoid Coil-36V ■
	1	6064503	Solenoid Valve Assembly-36V		1	6860663	Solenoid Coil-48V ■
	1	6064504	Solenoid Valve Assembly-48V	18	1	6126457	Service Kit
6	2	768785	Capscrew	19	1	6052237	Valve Body ■
7	1	768991	Roll Pin, 5 x 10 mm ■	20	2	665595	Decal
8	1	201671	Fitting, 6-6 ●	21	1	669432	Diode
9	1	6050638	Fitting, 6-4	22	1	787383	Washer, M10

● Included in Manifold Assembly 6050615

■ Included in Solenoid Valve Assembly, Item 5

120K, 150K & 165K Solenoid Control Kit



FP1718.eps

REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6805088	Solenoid Control Kit-12V	9	1	6050638	Fitting ● ■
		6805091	Solenoid Control Kit-24V	10	1	617917	Fitting, 4-4 ●
		6805092	Solenoid Control Kit-36V	11	1	6805079	Hose, 34.0 in. (870 mm)
		6805093	Solenoid Control Kit-48V	12	1	6050052	Hose, 20.0 in. (510 mm)
1	1	6090116	Guard	13	2	6805080	Hose, 31.0 in. (795 mm)
2	1	6054448	Mounting Bar	14	1	669432	Diode
3	6	787372	Capscrew, M8 x 25	15	1	6008166	Solenoid Cartridge ■
4	1	6064490	Solenoid Valve Assembly-12V	16	1	6860494	Solenoid Coil-12V ■
	1	6064502	Solenoid Valve Assembly-24V		1	6860576	Solenoid Coil-24V ■
	1	6064503	Solenoid Valve Assembly-36V		1	6859258	Solenoid Coil-36V ■
	1	6064504	Solenoid Valve Assembly-48V		1	6860663	Solenoid Coil-48V ■
5	1	768991	Roll Pin, 5 x 10 mm ■	17	1	6126457	Service Kit
6	2	768785	Capscrew	18	1	6052237	Valve Body ■
7	1	6050411	Manifold ●	19	2	665595	Decal
8	1	201671	Fitting ●				

● Included in Manifold Assembly 6050615

■ Included in Solenoid Valve Assembly, Item 4

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