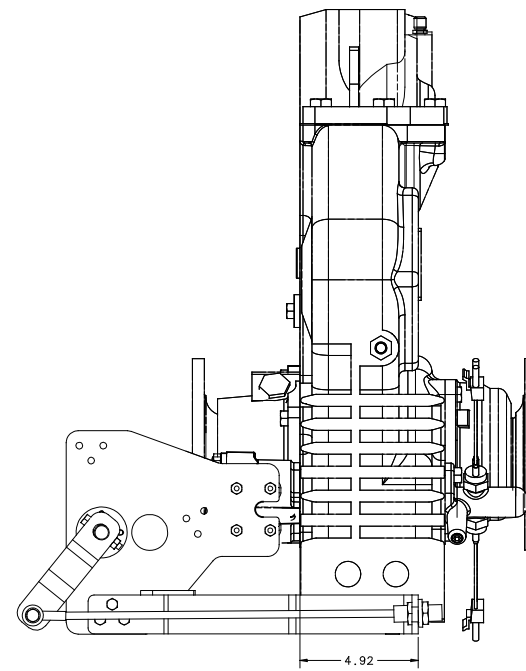
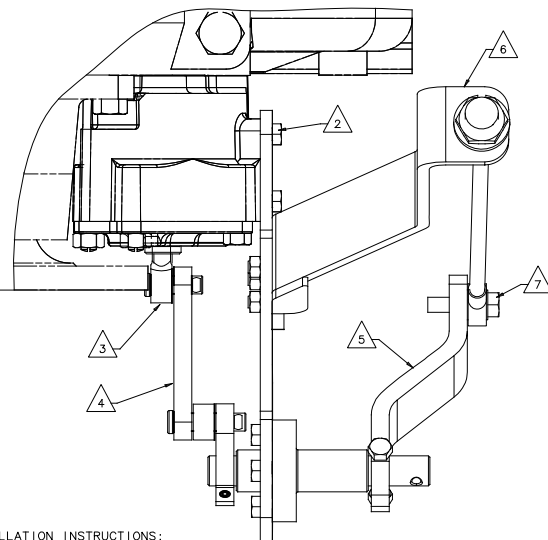


FRONT PULL  
LEVER ARM IS IN ROAD POSITION



REAR PULL  
LEVER ARM IS IN ROAD POSITION



INSTALLATION INSTRUCTIONS:

1. THE MANUAL SHIFT HAS BEEN ASSEMBLED EXCEPT FOR THE PARTS THAT NEED TO BE ADJUSTED.
2. INSTALL THE BRACKET TO THE VPS HOUSING USING THE (4) 1/4-20 X 3/4 LG HEX HEAD SCREWS SUPPLIED. APPLY LOCTITE 243 OR EQUAL TO THREADS.
3. WITH THE SHIFT SHAFT IN THE ROAD POSITION, REMOVE THE 3/8-24 NUT FROM THE EYEBOLT AND INSTALL THE EYEBOLT ON THE END OF THE SHAFT.
4. ATTACH THE LINK TO THE ROD END USING THE CLEVIS PIN AND COTTER PIN SUPPLIED.
5. ROTATE THE LEVER ARM TO THE CORRECT ORIENTATION (SEE PULL POSITION VIEWS ABOVE) AND SECURE USING THE 1/4-20 X 1.75 LG SCREW AND NUT SUPPLIED, APPLY LOCTITE 243 OR EQUAL TO THREADS.
6. POSITION AND ATTACH THE CABLE SUPPORT BRACKET WITH THE CABLE ATTACHED TO THE BRACKET USING THE (3) 1/4-20 X 3/4 LG SCREWS AND NUTS SUPPLIED. APPLY LOCTITE 243 OR EQUAL TO THREADS.
7. ATTACH THE LEVER ARM TO THE ROD END OF THE CABLE USING THE 5/16 X 1.25 LG SCREW AND NUT SUPPLIED. APPLY LOCTITE 243 OR EQUAL TO THE THREADS.
8. AFTER THE ABOVE STEPS ARE COMPLETED, PLACE THE TRUCK TRANSMISSION IN NEUTRAL. PLACE THE PUMP SHIFT LEVER IN NEUTRAL. ATTACH THE T-HANDLE TO THE END OF THE CABLE AND PULL. THIS WILL ENGAGE THE PUMP. IF THE PUMP IS NOT ENGAGED, ADJUST THE CABLE BY LOOSENING THE NUTS THAT ATTACH THE CABLE TO THE SUPPORT BRACKET AND SLIDE THE CABLE IN THE DIRECTION NEEDED TO ENGAGE THE PUMP, THEN RE-TIGHTEN THE NUTS. PUSH THE T-HANDLE IN TO ENSURE YOU SHIFT BACK TO ROAD.
9. REMOVE T-HANDLE AND ATTACH THE MOUNTING PLATE AND PANEL SUPPORT BRACKET TO THE TRUCK PANEL USING THE (4) 1/4-20 X 1.25 LG FINISHED ROUND HEAD SCREWS SUPPLIED. APPLY LOCTITE 243 OR EQUAL TO THREADS.
10. RE-ATTACH THE T-HANDLE AND REPEAT THE STEPS IN NOTE 8. IF YOU NEED ADJUSTMENT AT THIS TIME LOOSEN THE NUTS THAT ATTACH THE CABLE TO THE PANEL SUPPORT AND SLIDE THE CABLE IN THE DIRECTION NEEDED. TIGHTEN THE NUTS AND APPLY LOCTITE 243 OR EQUAL TO THE THREADS OF THE T-HANDLE.
11. INSTALL MANUAL PUMP OVERRIDE SHIFT DECAL.
12. SEE FSG-PL-01457 FOR INSTALLATION WITH INTERLOCK ASSEMBLY. THIS USES (4) 1/4-20 X 3/4 LG HEX HEAD SCREWS

(E) 013-2100-00-0 CONTROL CABLE 72" LG SUPPLIED WHEN 512-0500-00-0 IS ORDERED.

013-2100-01-0 CONTROL CABLE 55" LG SUPPLIED WHEN 512-0500-01-0 IS ORDERED. RECOMMENDED FOR FRONT AND REAR PULL CONFIGURATION

(E) 019-3220-00-0 CABLE SUPPORT (3) 018-1206-25-0 SCREW (3) 110-1200-02-0 NUT

028-0050-03-0 ROD END 3/8-24  
064-7070-00-0 CLEVIS PIN 1 LG  
012-1490-00-0 LINK  
064-7840-00-0 CLEVIS PIN 1-1/2 LG

(F) 159-1790-01-0 SPACER

(D) 012-1550-00-0 LINK ARM  
064-0720-16-0 SPRING PIN

(E) 062-0870-00-0 PIVOT PIN HOUSING  
018-1206-25-0 SCREW

(E) 012-1540-00-0 LEVER ARM  
018-1206-25-0 SCREW  
110-1200-02-0 NUT

(E)

(E) 019-3220-00-0 CABLE SUPPORT (3) 018-1206-25-0 SCREW (3) 110-1200-02-0 NUT

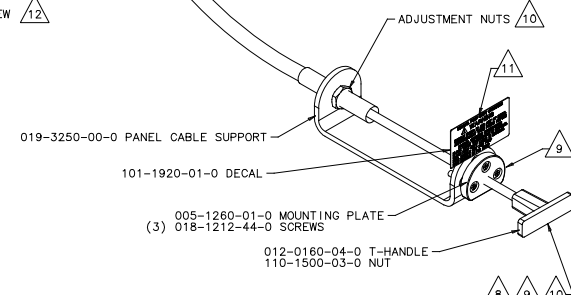
ADJUSTMENT NUTS (8)  
(4) 018-1205-25-0 SCREW OR  
(4) 018-1206-25-0 SCREW (12)

(E) 028-0380-00-0 ROD END  
018-1412-25-0 SCREW  
110-1400-02-0 NUT

064-6630-00-0 PIVOT PIN  
019-3230-00-0 BRACKET

- WARNING**
1. DO NOT ADJUST THE CONTROL CABLE WITH THE ENGINE RUNNING. SERIOUS INJURY OR DEATH COULD RESULT.
  2. A GRADUAL OR SUDDEN INCREASE IN THE NO-LOAD FRICTION (CABLE DISCONNECTED AT BOTH ENDS) OF A CONTROL CABLE IS AN INDICATION OF A PENDING OR PRESENT PERFORMANCE PROBLEM.
  3. A GRADUAL OR SUDDEN DECREASE IN THE USABLE TRAVEL IS AN INDICATION OF A PENDING OR PRESENT PERFORMANCE PROBLEM. THE CONTROL CABLE SHOULD BE REPLACED, OTHERWISE SERIOUS INJURY OR DEATH COULD RESULT.
  4. CONTROL CABLE WHICH HAVE MOISTURE INSIDE OF THEM AND OR HAVE FROZEN SHOULD BE REPLACED. DO NOT APPLY HEAT TO THAW OR DRY.
  5. CONTROL CABLES ARE LUBRICATED FOR THE LIFE OF THE CABLE. DO NOT REMOVE THE SEALS OR LUBRICATE THE CABLE.
  6. CONTROL CABLES ARE NOT REPAIRABLE. DO NOT ATTEMPT TO REPAIR THIS CABLE.

- CAUTION**
1. CONTROL CABLE IS DESIGNED TO BE CONTAMINANT RESISTANT, NOT CONTAMINANT PROOF. PROTECT CABLE FROM CONTAMINANTS SUCH AS GAS, OIL, DIESEL FUEL, DIRT AND CHEMICALS WHICH MAY DAMAGE THE CABLE.
  2. PROTECT THE CONTROL CABLE FROM PHYSICAL BY PAINT, KINKING, VIBRATION, ECT., WHICH MAY DAMAGE THE CABLE.



ECO NO	REV	CHANGED FROM	BY	DATE	APVD	ECO NO	REV	CHANGED FROM	BY	DATE	APVD	REPORT ERRORS & CHANGES REMOVE ALL SHARP EDGES UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .0005 ANGLES ± 1/2° SURFACE FINISH .0005 ± .015	HALE PRODUCTS, INC. A Unit of IDEX Corporation Conshohocken, PA 19428 USA	TITLE MANUAL PUMP SHIFT OVERRIDE PARTS IDENTIFICATION AND INSTALLATION	SIZE FIRST USED ON DWG E MIDSHIP NO. 101-0850-73-0	REV F	SHEET of	
						02-054	A	RELEASED TO PRODUCTION	JK	02-28-02	MAL							
						04-255	B	REMOVED 3/8-24 NUT FROM ROD END	MAB	10-25-04	MAL							
						0489	C	REMOVED NYLON WASHER	KSM	11-27-06	MAL							
						3633	D	WAS 064-0720-13-0	JSJ	01-14-16	JSJ							
						3665	E	TOP PLATE OPTION MODIFIED TO BE USED WITH INTERLOCK ASSEMBLY. PART NUMBER OPTION MODIFIED TO BE 3665-13-0	KTN	03-17-16	AJG							
						3948	F	MOVED SPACER TO CLEVIS PIN WITH LINK ARM	DMB	02-16-17	JLS							

ADJUSTMENT NUTS (10)  
019-3250-00-0 CABLE SUPPORT  
101-1920-01-0 DECAL  
005-1260-01-0 MOUNTING PLATE  
(3) 018-1212-44-0 SCREWS  
012-0160-04-0 T-HANDLE  
110-1500-03-0 NUT