

17083

Heartland

1 of 2

600#	600#	600#	600#	600#	600#	10,000#	5000#	10,000#	3000#
Primary Charge	Secondary Charge	Air Head Charge	Air Knife Charge	Ground Drive Charge	Brake Charge	Air Head	Air Knife	Ground Drive	Steering
									
5000#	5000#	5000#	3000#	3000#	3000#	3000#	3000#	3000#	3000#
Left Primary	Right Primary	Secondary	Left Star	Right Star	Right Star Distributors	Cross	Side	Bin Fill	Bin Unload
									

Custom J1939 CAN Joystick Messaging Definitions

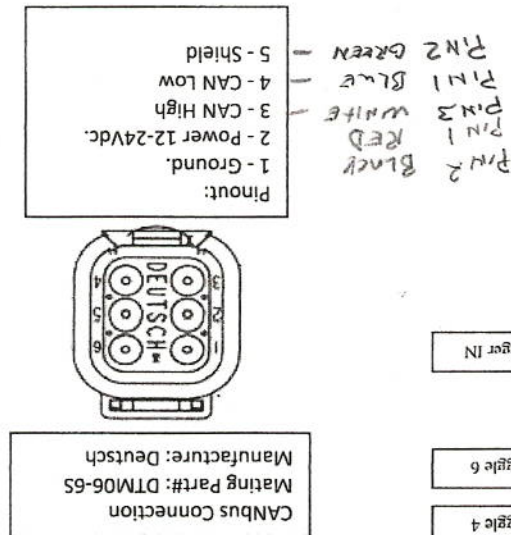
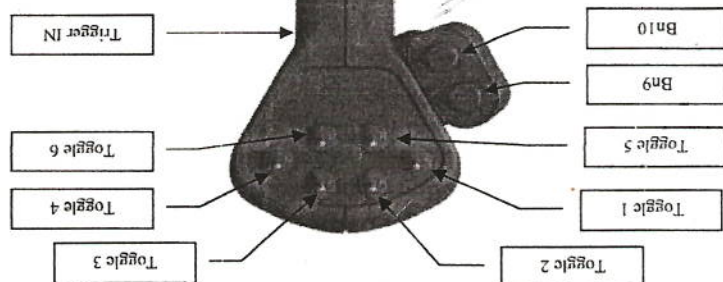
Part number reference: LE-10467

This SAE J1939 CAN joystick application utilizes:
 - BJM1 (Basic Joystick Message 1 - PGN 64982)
 - BJM2 (Basic Joystick Message 2 - PGN 64984)

Source address: 0x33 (51 Decimal), Message Rate: 80ms

Function	J1939 Message	Data Field Location
Joystick Y+	BJM1 - Y-Axis forward	[3.7-3.8, 4.1-4.8] 3.5-3.6
Joystick Y-	BJM1 - Y-Axis backward	[3.7-3.8, 4.1-4.8] 3.3-3.4
Trigger IN	BJM1 - Button 6	7.5-7.6
Toggle 1 (Up)	BJM2 - Button 1	6.7-6.8
Toggle 1 (Down)	BJM2 - Button 2	6.5-6.6
Toggle 2 (Up)	BJM2 - Button 3	6.3-6.4
Toggle 2 (Down)	BJM2 - Button 4	6.1-6.2
Toggle 3 (Up)	BJM2 - Button 5	7.7-7.8
Toggle 3 (Down)	BJM2 - Button 6	7.5-7.6
Toggle 4 (Up)	BJM2 - Button 7	7.3-7.4
Toggle 4 (Down)	BJM2 - Button 8	7.1-7.2
Toggle 5 (Up)	BJM2 - Button 9	8.7-8.8
Toggle 5 (Down)	BJM2 - Button 10	8.5-8.6
Toggle 6 (Up)	BJM2 - Button 11	8.3-8.4
Toggle 6 (Down)	BJM2 - Button 12	8.1-8.2
Bn9	BJM1 - Button 1	6.7-6.8
Bn10	BJM1 - Button 2	6.5-6.6

Button locations:



used
 2 - Wm-38 2001-0470
 2 - Wm-38 2001-0550
 2 - DTM06-38 2001-0469
 2 - DTM06-38 2001-0551
 5 - 2001-1163 Gold Socket

HYDRAULICS FINISH MATERIALS LIST

PROJECT NO.

BEGINNING DATE
END DATE

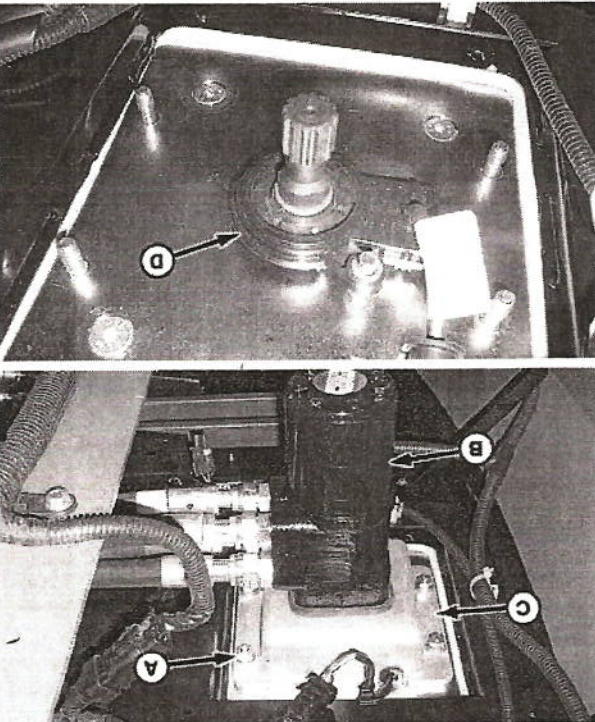
QTY	PART NUMBER	DESCRIPTION
20	3/8 X 1 1/2 BOLT ON HEAD BOLTS	
20	3/8 3/8 SP.NUTS	
10	5/8 X 6 1/2 BOLTS	
2	2035-00028	Coultre BLADES
2	2030-00056	Coultre Hub protectors
2	31011-007	
8	1/2 X 1 1/2 BOLTS	
8	1/2 X 1 1/4 BOLTS	
1	2030-02219	SP.NUT Coultre BLADE
1	210032	Hub Plate (spindle)
13	5" RUBBER SHIMMY	
1 1/2	SHEET OF 1/2 X 4 X 10' UNITS	
1	Flow Measurement System	SPINDLE Coultre SPINDLE AND K-6
1	171615	

Remove and Install Steering Column

IMPORTANT: Do not disconnect hydraulic hoses.

1. Remove nuts (A) and lower steering pump (B) and support plate (C) as an assembly from steering link shaft.
2. Remove steering input device sensor (D). (See Section 60, Group 05.)

A—Nuts (4 used)
B—Steering Motor
C—Support Plate
D—Steering Input Device Sensor



OU06083.000146A -19-08JUL16-1/2

H108450—UN—11JUL13

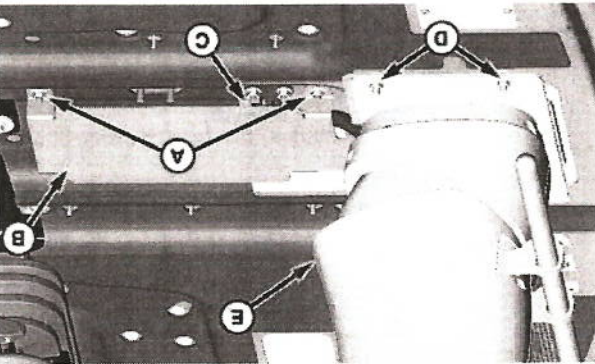
H108449—UN—11JUL13

3. Remove nuts (A), and floor plate (B). Disconnect harness connector (C).
 4. Remove flange nuts (D) and steering column (E) from machine.
 5. Repair or replace parts as necessary.
- NOTE:** It is necessary to have another technician to assist in the aligning steering column link shaft to the steering pump by turning steering wheel.
6. Install in reverse order including this special instruction.
- Install steering column using nuts (C) and tighten to specification.

Specification

Steering Column Base
Nuts—Torque.....30 N·m
(22 lb-ft)

A—Nut (4 used)
B—Floor Plate
C—Harness Connector
D—Nut (4 used)
E—Steering Column



H118899—UN—08JUL16

OU06083.000146A -19-08JUL16-2/2

Plate = 2203771
Isolator = T68288
Bushing = L203985

10x35mm bolts
P/N 19M7169

Thermo King

Fitting

Hose

Fitting

#12 Hose to #10 Fitting
STR.ML Inver

#12 Hose CAB/ Pump

70R44025

328" 1.

70R44085

#8 Hose Pump/ Cond

70R44985

12FT 2.

#6 Hose - CAB/ Ret - Dwyer 70R445065

70R44965

296" 3.

#6 Hose - Battery/ Ret - Dwyer 70R44965

70R44965

13FT 4.

Painted numbers on Hose at 12 O-Clock



12 O-Clock



12 O-Clock

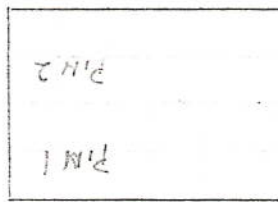
Compressor Service Fitting

1 - 75R5641 (#10)

1 - 75R5648 (#8)

1 - 2024-6120 A/C Press Switch

1 - 2024-6133 A/C Ret/Bright



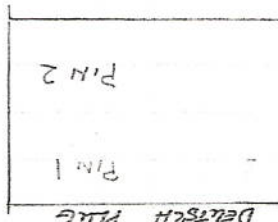
EXISTING 2 PIN
DEUTSCH PLUG

GREENTRONICS

RELAY #2

+12VDC

PIN 86 BLUE #86
PIN 85 BLACK #85
VALVE COIL (PIN 1) PIN 30 YELLOW #30



EXISTING 2 PIN
DEUTSCH PLUG

GREENTRONICS

RELAY #1

+12VDC

PIN 86 WHITE #86
PIN 85 BLACK #85
VALVE COIL (PIN 1) PIN 30 RED #30

SOFT HARNESS GREENTRONICS ENCLOSED TO VALVE BANK

2-2001-0277 2 PIN DEUTSCH RECEPTACLE
2-2001-0278 2 PIN PLUG

4-2001-0078 P.N. 2-2001-0280 W2P

4-2001-6080 SOCKET 2-2001-0279 W2S

10-2001-0495 2-2001-0492

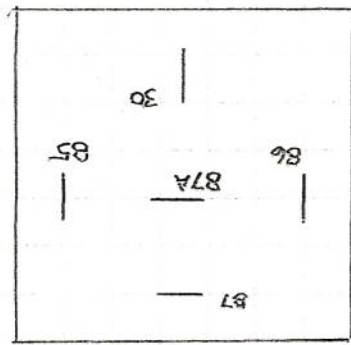
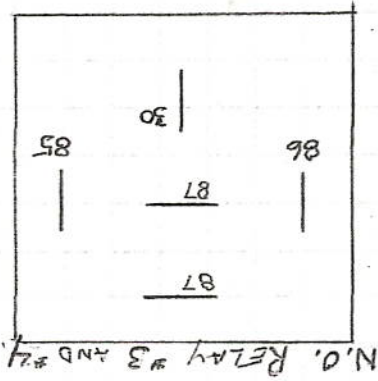
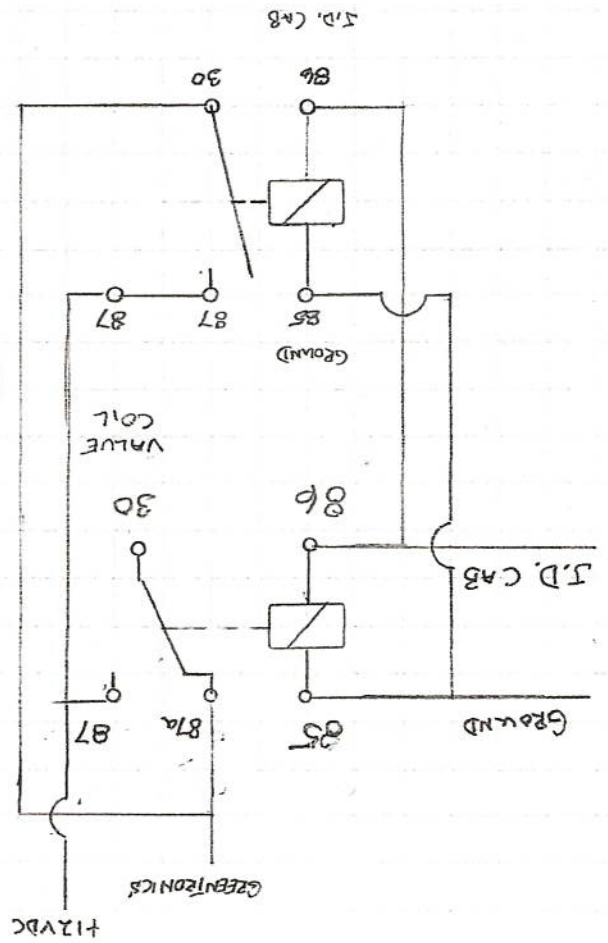
FEMALE SPADE

8TR-2001-1147

20341L 1/4" FLEXO
20342 1/2" FLEXO

16TR-2001-1148

2-2001-0546 N.C. RELAY



Relay #1
 Jumper PIN 87 N.C. Relay TO PIN 87 N.O. Relay
 Jumper PIN 86 N.C. Relay TO PIN 86 N.O. Relay
 Jumper PIN 87A N.C. Relay TO PIN 80 N.O. Relay
 Jumper PIN 85 N.C. Relay TO PIN 85 N.O. Relay

Relay #2

Relay #4

SAME

Advanced Farm Equipment LLC

5773 Crystal Road
Vestaburg MI 48891
(989) 268-5711

Sales Order Date 11/29/17

Sales Order Number 051183

Page 1

SHIP TO
Advanced Farm Equipment, LLC
5773 Crystal Road
Vestaburg MI 48891

SOLD TO
Advanced Farm Equipment
5773 Crystal Road
Vestaburg, MI 48891

[illegible]

ITEM	ORDERED	SHIPPED	BO	DESCRIPTION	PRICE	AMOUNT	TAX
------	---------	---------	----	-------------	-------	--------	-----

418088-607	1.000	18088 Shipping	Heartland Farms
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[illegible][illegible]

Subtotal	.00
* Sales Tax	.00
Invoice Total	.00
Payments	.00
Net Due	.00

Advanced Farm Equipment, LLC

S# 17083

W/O#

HEARTLAND

Customer

Section

Initials

Section

Initials

Digger Bed

Primary

Secondary

Cross Conv

Side Convs

Stone Conv

Sorting Conv or Bin Fill

Bulk Loader

Stone Conveyor

Sprockets

Primary

Secondary

Cross Conv

Lower Side Conv

Upper Side Conv

Sorting Conv or Bin Fill

Bulk Loader

Stone Conv

Gear Boxes

Engine 15W

Airhead 15W

Chain Drive 90W

Grease All Bearings

& Wear Plates

Durst Gear Box W/Syntec Oil

Breathers

Plastic

Conveyors

Airhead

Sorting Table

Trash Chute

Stone Conveyor

Bin

Beltng

Airhead

Door

Sides

Pillow

Diaphragm

Cross Conv

Stone Conv

Rear Axle

Star Rolls

Distributor

Vine Belt Shield

Bin

Oil Tank

Breathers

Sight Guage

Plumbed Per Specs

In Tank Filters

Center Control Panel - Center Connector 2
Pin # Wire Color / Number / Description

1	Yellow 150 "Steel Rolls Speed Decrease"
2	Blue 602 "Ground Block Buss Bar"
3	Red 149 "Steel Roll Speed Increase"
4	Black 0112 "Ground Block Buss Bar"
5	Orange 110 "Boom Outer Up"
6	White 112 "Boom Lift Up"
7	Blue 111 "Boom Outer Down"
8	Orange 110 "Boom Outer Up"
9	Green 602 "Ground Block Buss Bar"
10	
11	Green 117 "Boom Swing In"
12	Purple 116 "Boom Swing Out"
13	Brown 113 "Boom Lift Down"
14	Blue 146 "Distribution Rolls Speed Decrease"
15	Black 1151 "Steel Rolls Space In"
16	Red 1152 "Steel Rolls Space Out"
17	"Ground Block Buss Bar"
18	Black 065 "Ground Block Buss Bar"
19	Black 026 "Ground Block Buss Bar"
20	White 65 "Left Star Speed Increase"
21	Red 651 "Left Star Reverse"
22	Red 371 "Right Star Reverse"
23	Red 145 "Distribution Rolls Reverse"
24	Orange 50 "Bin Unload On/Off"
25	Green 38 "Right Star Speed Decrease"
26	Brown 37 "Right Star Speed Increase"
27	Blue 26 "A.H. Cleaner Cylinder Down"
28	Purple 66 "Left Star Speed Decrease"
29	Green 605 "A.H. Speed Sensor In"
30	Blue 605 "Air Knife Speed Sensor In"
31	White 27 "A.H. Cleaner Cylinder Up"