

# 11049

McCormick Farms

4RS PH  $\frac{1}{2}$  65" AH

# Cummins Power Products - PACKING SLIP

Units in Order:

1

Engine SN:

# 79464970



|                              |                 |              |                             |                        |
|------------------------------|-----------------|--------------|-----------------------------|------------------------|
| <b>Shipping Information:</b> |                 | SN: 79464970 | <b>Billing Information:</b> |                        |
| Company Name                 | ADVANCED FARMS  |              | Distributor Name:           | CUMMINS POWER PRODUCTS |
| ATTN:                        |                 |              | Contact:                    |                        |
| Street:                      | 5773 CRYSTAK RD |              | Street:                     | 5773 CRYSTAL ROAD      |
| Line 2                       |                 |              | Line 2:                     |                        |
| City:                        | VESTABURG       |              | City:                       | VESTABURG              |
| Zip Code                     | 48891 State MI  |              | Zip Code                    | 48891 State MI         |
| Country                      | USA             | Country:     | USA                         |                        |
| Ship Via:                    | USF HOLLAND     | Telephone #: |                             |                        |
| Payment Type:                | COLLECT         | Job Name     | ADVANCED FARMS              |                        |



IN

|   |           |              |                                     |
|---|-----------|--------------|-------------------------------------|
| <b>Distributor Name:</b> CUMMINS POWER PRODUCTS |           | Engine Model | QSX15-P                             |
| PO#:  | 043303    | Tier:        | 3                                   |
| Build Date:                                     | 3/18/2011 | Horsepower:  | 450                                 |
| Cummins Shop Order #:                           | 33198     | Paint:       | PRIMER                              |
| CPP Shop Order #:                               | 008989    | Enclosure    | <input checked="" type="checkbox"/> |
| Sales Order #:                                  | 11100097  | Base Onl     | <input type="checkbox"/>            |



OUT

Comments

Unit Options:

| Option # | Cummins # | Description  | Available Option                    | Ship Loose                          |
|----------|-----------|--|-------------------------------------|-------------------------------------|
| AA11210  | AAPU10170 | AIR CLEANER, 25G/CFM, ENCLOSED                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| DE11099  | DEPU10069 | DECALS   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| EA11008  | EAPU10006 | ENGINE, HARNESS                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| EN11168  | ELPU10126 | ENCLOSURE, FULL, 520HP AND BELOW                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| GE11078  | GEPU10075 | ELECTRICAL SYSTEM, 12V DELCO 20SI OR GREATER         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| IN11177  | INPU10163 | INSTRUMENT ASSY., 12V OR 24V, 24FT. EXTENSION        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| IN11340  | INPU10236 | INSTRUMENTATION ASSEMBLY, CANVU                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| MM11227  | MMPU10167 | BASERAILS, SAE#1, EXT W/O ISO, 20" CL                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| PP11008  | PPPU10008 | PACKING MATERIALS                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| RA11253  | RAPU10183 | COOLING SYSTEM, SUCKER, 130LAT, 520hp AND BELOW ONL  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| RI11003  | RIPU10003 | A-SERIES TO QSK23 RESTRICTION INDICATOR W/ 25" H2O R | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| WL11007  | WLPU10008 | WATER LEVEL SENSOR                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |



# ADVANCED FARM EQUIPMENT

**#10049**

**MC CORMICK FARMS 4RSPH-65LAH**

**3/31/11**

| 30A 15         | 30A 14                    | 30A 13 | 30A 12            | 30A 11                 | 20A 10          | 30A 9                      | 30A 8                   | 20A 7                       | 30A 6                 | 30A 5              | 20A 4                       | 30A 3                        | 30A 2                       | 30A 1               |
|----------------|---------------------------|--------|-------------------|------------------------|-----------------|----------------------------|-------------------------|-----------------------------|-----------------------|--------------------|-----------------------------|------------------------------|-----------------------------|---------------------|
| LT. REAR LIGHT | FOOT PED. [ RED ]         | A/C    | ACT'S [ WHITE ]   | BACK UP SWITCH [ RED ] | FUEL [ 85 (1) ] | CAB FIELD RELAY [ 88 (1) ] | CAB O.H. AUX. [ BROWN ] | 2-SPEED CAB O.H. [ 88 (1) ] | RADIO WIPER [ BROWN ] | MAIN [ YELLOW(H) ] | BRAKE DTS-0160 [ ORG. (H) ] | MAIN POWER RELAY [ 017 (1) ] | AH CLEAN BIN FILL [ GREEN ] | HAZ STAT [ YELLOW ] |
| [ BLACK ]      | ENGINE FAN REV. [ RED 7 ] |        | A.H. PUMP [ RED ] | [ 88 (1) ]             | S-D [ RED 1 ]   | [ BROWN ]                  | AUX. [ RED ]            | CAB O.H. [ RED ]            | WIPER [ RED ]         | [ YELLOW(H) ]      | DTS-0160 [ RED ]            | [ ORG. (H) ]                 | [ 91 (1) ]                  | [ BROWN ]           |
|                |                           |        | [ RED 2 (1) ]     | ALARM [ RED 29 ]       | S-D [ RED 29 ]  | [ BROWN ]                  | OUTLET [ BLACK ]        | [ 21 (4) ]                  | [ RED ]               | [ RED ]            | DELAY [ RED ]               | WARNING [ RED ]              | M115 HYDRO HANDLE [ GREEN ] |                     |
|                |                           |        |                   | RELAY [ BROWN ]        |                 |                            | BACKUP LTS. [ BROWN ]   |                             |                       |                    |                             |                              |                             |                     |
|                |                           |        |                   |                        |                 |                            | RELAY [ RED ]           | [ 156 (3) ]                 | [ RED ]               | [ RED ]            | RELAY [ RED ]               | WARNING [ RED ]              |                             |                     |
|                |                           |        |                   |                        |                 |                            |                         | HI / LO [ 156 (3) ]         | POWER [ RED ]         | VIEW [ RED ]       | [ RED ]                     | [ RED ]                      | [ GREEN ]                   | [ 091 (4) ]         |
|                |                           |        |                   |                        |                 |                            |                         | POWER [ RED ]               | RELAY [ RED ]         | VIEW [ RED ]       | [ RED ]                     | [ RED ]                      | [ GREEN ]                   | [ 091 (4) ]         |
|                |                           |        |                   |                        |                 |                            |                         | VIEW [ BLACK ]              | [ RED ]               | [ RED ]            | [ RED ]                     | [ RED ]                      | [ GREEN ]                   | [ 091 (4) ]         |
|                |                           |        |                   |                        |                 |                            |                         | [ RED ]                     | [ RED ]               | [ RED ]            | [ RED ]                     | [ RED ]                      | [ GREEN ]                   | [ 091 (4) ]         |
|                |                           |        |                   |                        |                 |                            |                         | [ 022 (7) ]                 | [ RED ]               | [ RED ]            | [ RED ]                     | [ RED ]                      | [ GREEN ]                   | [ 091 (4) ]         |
|                |                           |        |                   |                        |                 |                            |                         |                             | [ 022 (7) ]           | [ RED ]            | [ RED ]                     | [ RED ]                      | [ GREEN ]                   | [ 091 (4) ]         |

**HAZ. STAT**

**TURN STAT**

[ CBI-YELLOW ]  
\_YELLOW 92 (1)

[ CBI-BROWN ]  
\_BROWN 502 (5)

**DTS-0160**

[ GREEN 607 (2) ] SIGNAL [ BLACK ]  
[ CB 4 - RED ] 12V DC [ BROWN ]  
[ GREEN ] GROUND [ BLUE ]

**R E L A Y S**

**BACK UP ALARM-N.O.**

85 GRD.  
86 M115 "B"-PURPLE 115 (7)  
87 CB11 - BROWN  
30 BROWN - 0088  
DIODE - 86 - 86

**4X4 LOCK-N.O.**

85 GRD.  
86 BLACK 1  
87 BLACK 1  
30 BLACK 01 (2)

30A 20  
30A 19  
30A 18  
30A 17  
30A 16

FREEWHEEL SWITCH [ ORANGE ]  
LT FRT LTS RELAY [ BLACK ]  
RT FRT LTS RELAY [ BLUE ]  
CAB RD LTS RELAY [ BROWN ]  
RT.REAR LIGHT RELAY [ BLUE ]

**NEUTRAL RELAY**

RELAY "A"-N.C.  
85 GRD.  
86 M115 "B"-BRN-115 (7) / PUR-115  
87 BLACK 142 S-D  
30 PIN 39 S-D

**4X4 RELAY-N.C.**

85 GRD.  
86 BRN-115/PUR-115  
87A BLACK 01 (2)  
30 BLACK 1

77000  
I I I  
12VDC RED 13 (5) CBI-7 / 14-15  
RED 11 (5)

**BACK UP LTS.-N.O.**

85 GRD.  
86 BROWN 06 (2)  
87 CB11 - BROWN  
30 BROWN 6

**START RELAY-N.C.**

85 GRD.  
86 BRN-115/PUR-115  
87A GREEN 422 (7)  
30 WHITE 104 (5)

**HI / LO (ROAD / WORK )-N.O.**

85 GRD.  
86 BLACK 32 S-D  
87A CB7 -BLACK  
30 BLACK 12

**MAIN POWER RESET RELAY-N.O.**

85 TIME DELAY RELAY TERM-1  
86 RESET RELAY TERM-6  
87 CB5-ORANGE (H)  
30 ORANGE (H) 90 (8)

77000  
I I I  
12VDC RED 13 (5) CB 9-13  
PURPLE 013 (7)

**CAB FIELD LTS.-N.O.**

85 GRD.  
86 BROWN 504 (3)  
87 CB9 - BROWN  
30 BLACK (H) 507 (3)

**RIGHT REAR-N.O.**

LIGHT RELAY  
85 GRD.  
86 BROWN 505 (2)  
87 CB14 - BLUE  
30 BLUE 36

**RIGHT FRONT-N.O.**

LIGHT RELAY  
85 GRD.  
86 BROWN 505 (2)  
87 CB18 - BLUE  
30 BLUE 360

**GROUND WIRES**  
BLACK 20 - 4(3) ( CAB )  
BLACK 28 ( S-D )  
BLACK 42 ( S-D )

**CAB ROAD LTS.-N.O.**

85 GRD.  
86 BROWN 503 (3)  
87 CB17 - BROWN  
30 BLACK (H) 526 (3)

**LEFT REAR-N.O.**

LIGHT RELAY  
85 GRD.  
86 BROWN 572 (3)  
87 CB15 - BLACK  
30 BLACK 34

**LEFT FRONT-N.O.**

LIGHT RELAY  
85 GRD.  
86 BROWN 572 (3)  
87 CB19 - BLACK  
30 BLACK 340

**A.H. CLEANER TIMER**

8 - BLUE 26 -15(1)  
9 - WHITE 27 -14(1)  
10/11 - PURPLE 28 -13(1)  
6/2 - GROUND

# CUSTOMIZE

*McC 20 May 2011. PHE*

Date: 25/05/2011 12:54:49

## DISPLACEMENT SHIFTING

Comment:

| Parameters                           | Value | Unit | Min/Max     | Default value | Comment |
|--------------------------------------|-------|------|-------------|---------------|---------|
| Displacement shift threshold 1C>2C   | 95    | %    | 0 / 100     | 95            |         |
| 1C>2C: Delay for pump command        | 0.20  | s    | 0.00 / 5.00 | 0.05          |         |
| 1C>2C: Duration of 100% pump command | 0.00  | s    | 0.00 / 5.00 | 0.00          |         |
| 1C>2C: Delay for spool command       | 0.05  | s    | 0.00 / 5.00 | 0.06          |         |
| 1C>2C: Delay for shifting end cycle  | 0.20  | s    | 0.00 / 5.00 | 0.08          |         |
| Displacement shift threshold 2C>1C   | 15    | %    | 0 / 100     | 15            |         |
| 2C>1C: Delay for pump command        | 0.12  | s    | 0.00 / 5.00 | 0.12          |         |
| 2C>1C: Duration of 100% pump command | 0.00  | s    | 0.00 / 5.00 | 0.00          |         |
| 2C>1C: Delay for spool command       | 0.13  | s    | 0.00 / 5.00 | 0.13          |         |
| 2C>1C: Delay for shifting end cycle  | 0.13  | s    | 0.00 / 5.00 | 0.13          |         |
| Rear motor: Level to command 2C      | 0     |      | 0 / 1       | 0             |         |



# CUSTOMIZE

*McC 20 May 2011, PHE*

Date: 25/05/2011 12:54:56

## MACHINE CHARACTERISTICS

Comment:

| Parameters   | Value | Unit     | Min/Max      | Default value | Comment              |
|--|-------|----------|--------------|---------------|----------------------|
| Unit system for displays on SD-Display 1.5 and HHT | 1     |          | 0 / 1        | 0             | 0 = Metric 1 = UK/US |
| 1st displacement for front motor (left or right)   | 0     | cc       | 0 / 9999     | 2252          |                      |
| 1st displacement for rear motor (left or right)    | 367   | cc       | 0 / 9999     | 2252          |                      |
| 2nd displacement for rear motor (left or right)    | 183   | cc       | 0 / 9999     | 1301          |                      |
| Left front wheel circumference                     | 5.14  | m        | 0.00 / 9.99  | 5.14          |                      |
| Left rear wheel circumference                      | 5.14  | m        | 0.00 / 9.99  | 5.14          |                      |
| Right front wheel circumference                    | 5.14  | m        | 0.00 / 9.99  | 5.14          |                      |
| Right rear wheel circumference                     | 5.14  | m        | 0.00 / 9.99  | 5.14          |                      |
| Maximum power in 1C                                | 140   | KW       | 0 / 500      | 120           |                      |
| Maximum power in 2C                                | 93    | KW       | 0 / 500      | 120           |                      |
| High pressure sensor, voltage in rest position     | 0.50  | V        | 0.00 / 2.50  | 0.50          |                      |
| High pressure sensor, pressure in rest position    | 0.0   | bar      | 0.0 / 30.0   | 0.0           |                      |
| High pressure sensor, Bar/Volt coefficient         | 150   | bar/Volt | 0 / 999      | 150           |                      |
| High Pressure Limitation, Limit                    | 450   | bar      | 200 / 600    | 450           |                      |
| High Pressure Limitation, Hysteresis               | 20    | bar      | 0 / 100      | 20            |                      |
| High Pressure Limitation, Proportional gain        | 500   |          | 0 / 9999     | 500           |                      |
| Pump maximum displacement                          | 105   | cc       | 0 / 600      | 135           |                      |
| Pump command inversion                             | 0     |          | 0 / 1        | 0             |                      |
| Pump hysteresis correction                         | 1.00  | cc       | 0.00 / 10.00 | 1.00          |                      |
| Efficiency   | 95    | %        | 0 / 150      | 95            |                      |
| J1939 node identifier                              | 3     |          | 0 / 254      | 3             |                      |
| CAN Diagnostic enabling                            | 0     |          | 0 / 1        | 0             |                      |
| CAN Diagnostic base address                        | 768   |          | 1 / 1984     | 768           |                      |
| CAN Diagnostic code to select messages             | 65535 |          | 0 / 65535    | 65535         |                      |

# CUSTOMIZE

## CALIBRATION VALUES

Comment:

*McCRUMAY 2011. PHE*

Date: 25/05/2011 12:55:12

| Parameters                     | Value | Unit | Min/Max     | Default value | Comment            |
|--------------------------------|-------|------|-------------|---------------|--------------------|
| Joystick minimum value forward | 2.60  | V    | 0.25 / 4.75 | 3.00          |                    |
| Joystick maximum value forward | 4.43  | V    | 0.25 / 4.75 | 4.00          |                    |
| Joystick minimum value reverse | 2.40  | V    | 0.25 / 4.75 | 2.00          |                    |
| Joystick maximum value reverse | 0.68  | V    | 0.25 / 4.75 | 1.00          |                    |
| MAF 0                          | 41097 |      | 0 / 65535   | 0             | Lower word         |
| MAF 1                          | 14444 |      | 0 / 65535   | 0             | Lower middle word  |
| MAF 2                          | 512   |      | 0 / 65535   | 0             | Higher middle word |
| MAF 3                          | 46608 |      | 0 / 65535   | 0             | Higher word        |
| Ciè 0                          | 54256 |      | 0 / 65535   | 0             | Lower word         |
| Ciè 1                          | 42915 |      | 0 / 65535   | 0             | Higher word        |
| P/N 0                          | 39087 |      | 0 / 65535   | 0             | Lower word         |
| P/N 1                          | 24576 |      | 0 / 65535   | 0             | Middle word        |
| P/N 2                          | 32769 |      | 0 / 65535   | 0             | Higher word        |
| SDPHAS number                  | 0     |      | 0 / 65535   | 0             |                    |

McC20May 2011. AHE

| Parameters  | Value | Unit | Min/Max | Default value | Comment |
|---|-------|------|---------|---------------|---------|
| Shiftings, coefficient for required power                               | 15    | %    | 0 / 100 | 15            |         |
| Hill start : Maximum displacement jump                                  | 0     | cc   | 0 / 20  | 0             |         |
| Hill start, Maximum driver command to achieve maximum displacement jump | 0     | %    | 0 / 100 | 0             |         |

**From:** Burgess, Brian <bburgess@dtsfluidpower.com>  
**Sent:** Friday, September 7, 2018 11:30 AM  
**To:** patrick.t@lenco-harvesters.com; Drew, Scott  
**Subject:** FW: McC MS83 roading

**Importance:** High

Pat see below. I had Scott check -check the numbers.

Apparently they can make 4.5/9 mph and if the Poclairn displ shift valve didn't work they couldn't do 9 mph without at least one motor shifting. With the tire setup, in this case can't road more than 11 mph. Motor rpm ~ 54 RPM.

Quickie calcs for one pump/pump of the pair:

6.4 in3 x 2550 pump speed. = 70 GPM → 70 GPM into MS83 low displ 305 in3 = 54 rpm

| MPH (Result) | RPM (input) | Tire dia." (input) | C" (ref. only) |
|--------------|-------------|--------------------|----------------|
| 10.1209      | 54          | 63                 | 197.9203       |

| RPM(Result) | MPH (input) | Tire dia." (input) | C" (ref. only) |
|-------------|-------------|--------------------|----------------|
| 53.8883     | 10.1        | 63                 | 197.9203       |

$$\text{RPM} = \text{MPH} * 336/\text{dia} \text{ (rolling)} \quad \text{MPH} = \text{dia} \text{ (rolling)} * \text{RPM}/336$$

$$\text{MILES/HOUR} = 60 \text{ min/hr} * \text{rev/min} * (\text{diameter} * \pi)$$

$$\text{-----}$$
$$5,280 \text{ ft/ mile} * 12 \text{ in/ft}$$

or rearranged

$$\text{MILES/HOUR} * 5,280 \text{ ft/ mile} * 12 \text{ in/ft} = \text{rev/min}$$
$$\text{-----}$$
$$= 60 \text{ min/hr} * (\text{diameter} * \pi)$$

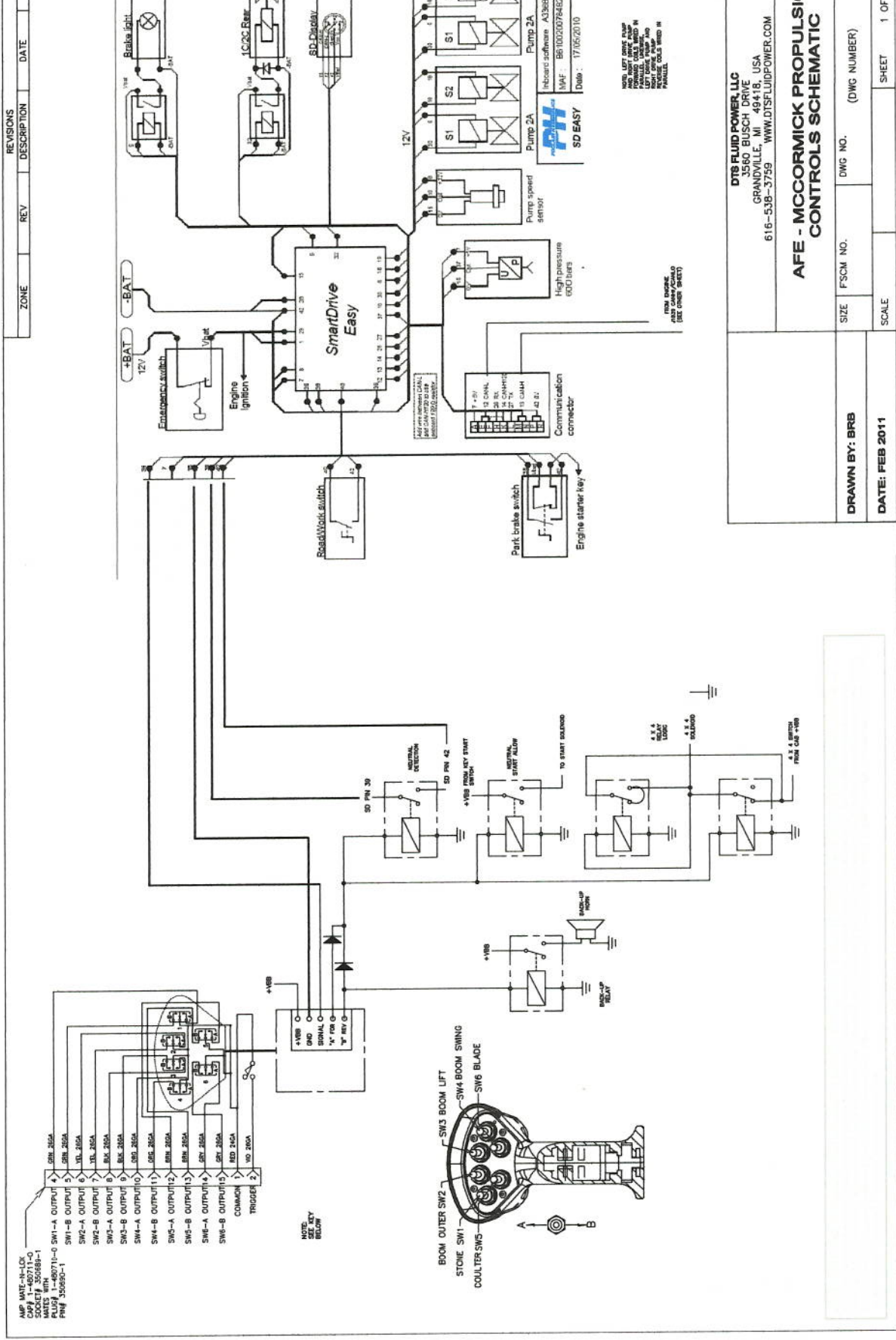
DTS Fluid Power  
Brian R. Burgess  
Senior Applications Engineer  
w: 616.538.3759  
c: 616.340.6823

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| ZONE | REV | DESCRIPTION | DATE | APPROVED |
|------|-----|-------------|------|----------|
|      |     |             |      |          |



DTS FLUID POWER LLC  
 3560 BUSCH DRIVE  
 GRANDVILLE, MI 49418, USA  
 616-538-3759 WWW.DTSFLUIDPOWER.COM

Drawn by: BRB  
 Date: FEB 2011  
 Scale: 1 OF 1  
 FSCM NO.:  
 DWG NO.: (DWG NUMBER)  
 REV

AFE - MCCORMICK PROPULSION  
 CONTROLS SCHEMATIC

# CUSTOMIZE

## VEHICLE PERFORMANCES

Comment:

MCC Machine 2011 20 MAY

*MCC 20 May 2011. PHE*

Date: 25/05/2011 12:54:04

| Parameters  | Value | Unit | Min/Max    | Default Value | Comment |
|---|-------|------|------------|---------------|---------|
| Maximum speed in work mode  | 100   | %    | 0 / 100    | 100           |         |
| Maximum speed in road mode  | 100   | %    | 0 / 100    | 100           |         |
| Maximum speed in reverse  | 100   | %    | 0 / 100    | 100           |         |
| Maximum limp mode speed in road mode  | 30    | %    | 0 / 100    | 30            |         |
| Maximum limp mode speed in work mode  | 30    | %    | 0 / 100    | 30            |         |
| Road mode, displacement jump when releasing driver command                  | 5     | %    | 0 / 35     | 5             |         |
| Work mode, Displacement jump when releasing driver command                  | 5     | %    | 0 / 35     | 5             |         |
| Displacement jump when releasing driver command, threshold to trigger jump. | 0     | %    | 0 / 101    | 0             |         |
| Road mode, acceleration ramp in forward                                     | 4.0   | s    | 0.0 / 50.0 | 6.0           |         |
| Road mode, deceleration ramp in forward                                     | 2.4   | s    | 0.0 / 50.0 | 2.4           |         |
| Road mode, acceleration ramp in reverse                                     | 4.0   | s    | 0.0 / 50.0 | 4.0           |         |
| Road mode, deceleration ramp in reverse                                     | 2.0   | s    | 0.0 / 50.0 | 2.0           |         |
| Road mode, deceleration ramp when joystick in neutral                       | 7.0   | s    | 0.0 / 50.0 | 7.0           |         |
| Road mode, deceleration ramp when requesting inversion in forward           | 3.0   | s    | 0.0 / 50.0 | 3.0           |         |
| Road mode, deceleration ramp when requesting inversion in reverse           | 1.0   | s    | 0.0 / 50.0 | 1.0           |         |
| Work mode, acceleration ramp in forward                                     | 4.0   | s    | 0.0 / 50.0 | 4.0           |         |
| Work mode, deceleration ramp in forward                                     | 2.5   | s    | 0.0 / 50.0 | 2.5           |         |
| Work mode, acceleration ramp in reverse                                     | 1.5   | s    | 0.0 / 50.0 | 4.0           |         |
| Work mode, deceleration ramp in reverse                                     | 2.0   | s    | 0.0 / 50.0 | 2.0           |         |
| Work mode, deceleration ramp when joystick in neutral                       | 7.0   | s    | 0.0 / 50.0 | 7.0           |         |
| Work mode, deceleration ramp when requesting inversion in forward           | 2.0   | s    | 0.0 / 50.0 | 2.0           |         |
| Work mode, deceleration ramp when requesting inversion in reverse           | 4.0   | s    | 0.0 / 50.0 | 1.5           |         |
| Deceleration ramp when activating limp mode                                 | 13.0  | s    | 0.0 / 50.0 | 13.0          |         |
| Deceleration ramp when park brake is applied                                | 8.0   | s    | 0.0 / 50.0 | 8.0           |         |
| Power limitation proportional gain  | 500   |      | 0 / 9999   | 500           |         |

# CUSTOMIZE

*Mc 020 May 26 11 AM*

Date: 25/05/2011 12:54:30

PUMP

Comment:

| Parameters                            | Value | Unit | Min/Max       | Default value | Comment |
|---------------------------------------|-------|------|---------------|---------------|---------|
| (Pump Speed/Engine speed) coefficient | 1.20  |      | 0.01 / 100.00 | 1.00          |         |
| Offset current S1                     | 675   | mA   | 0 / 1000      | 680           |         |
| Offset current S2                     | 675   | mA   | 0 / 1000      | 680           |         |
| Maximum current S1                    | 1600  | mA   | 1200 / 1800   | 1440          |         |
| Maximum current S2                    | 1600  | mA   | 1200 / 1800   | 1440          |         |

# CUSTOMIZE

*Mc C 20 May 2011. PHE*

Date: 25/05/2011 12:54:39

## ENGINE

Comment:

| Parameters                        | Value | Unit | Min/Max    | Default value | Comment |
|-----------------------------------|-------|------|------------|---------------|---------|
| TSC1 regulation mode              | 0     |      | 0 / 3      | 0             |         |
| Engine minimum speed              | 900   | RPM  | 600 / 5000 | 900           |         |
| Engine maximum speed in work mode | 2500  | RPM  | 600 / 5000 | 2500          |         |
| Engine maximum speed in road mode | 2500  | RPM  | 600 / 5000 | 2500          |         |
| Engine incrementation time        | 3.0   | s    | 0.0 / 50.0 | 3.0           |         |
| Engine deceleration time          | 3.0   | s    | 0.0 / 50.0 | 3.0           |         |