

- 1 INPUT GROUP REFERENCE PLANE
- 2 PTO GROUP MOUNTING FACE
- 3 LEFT BRACKET MOUNTING FACE
- 4 RIGHT BRACKET MOUNTING FACE
- 5 LIVE PTO PUMP MOUNTING FACE

NOTES:

A. MANUAL OVERRIDE VALVE OPERATION

1. THE MANUAL OVERRIDE FEATURE FOR THE PRIMARY AND SECONDARY SOLENOIDS MUST NEVER BE ENGAGED SIMULTANEOUSLY.
2. THE MANUAL OVERRIDE BUTTON FOR BOTH THE PRIMARY AND SECONDARY SOLENOIDS MUST BE IN THE NEUTRAL POSITION TO OPERATE EITHER SOLENOID ELECTRICALLY.
3. TO ENGAGE PRIMARY CLUTCH USING THE MANUFAL OVERRIDE
 - a. REMOVE PROTECTIVE CAP FROM THE PRIMARY SOLENOID
 - b. PUSH BUTTON DOWN
 - c. CONTINUE TO PUSH BUTTON AND ROTATE CLOCKWISE 180°
 - d. RELEASE BUTTON
4. TO ENGAGE SECONDARY CLUTCH USING THE MANUFAL OVERRIDE
 - a. REMOVE PROTECTIVE CAP FROM THE SECONDARY SOLENOID
 - b. PUSH BUTTON DOWN
 - c. CONTINUE TO PUSH BUTTON AND ROTATE CLOCKWISE 180°
 - d. RELEASE BUTTON
5. TO RETURN EITHER OF THE PRIMARY OR SECONDARY MANUAL OVERRIDE TO THE NEUTRAL POSITION:
 - a. PUSH BUTTON DOWN
 - b. CONTINUE TO PUSH BUTTON AND ROTATE COUNTERCLOCKWISE 180°
 - c. RELEASE BUTTON
 - d. INSTALL PROTECTIVE CAP OVER THE MANUAL OVERRIDE BUTTON

B. REFERENCE S930 FOR TWIN DISC REQUIREMENTS FOR PRESSURE AND TEMPERATURE ALARM LEVELS

WIRING DIAGRAM :

TERMINAL 1 :+ VDC

TERMINAL 2 :0 VDC

TERMINAL 3 :GROUND

NOTE :
ALL POINTS AVAILABLE FOR TESTING ARE CODED

Ø11.9 DRILL THRU.
12 HOLES, EQUALLY SPACED.
USE GRADE 5 QUALITY CAPSCREWS PER SAE J429.
USE HARDENED FLAT STEEL WASHERS, R30N 61 MIN.
UNDER SCREW HEADS GRADE 5 MIN.
AND TORQUE PER S674 TO SERVICE MANUAL VALUES.

MECHANICAL TROLL
VALVE LEVER

PRIMARY AND SECONDARY
CLUTCH PRESSURE PORT
1/4-18 NPTF THREAD (DRY SEAL)
CONFORMS TO J476
CONNECT OIL PRESSURE
GAUGE LINE HERE
TIGHTENING TORQUE 34±4 N·m

PRIMARY AND SECONDARY
CLUTCH PRESSURE PORT
7/16-18 UNF THREAD (-4)
CONFORMS TO SAE J1926
TIGHTENING TORQUE 16±2 N·m

LUBE PRESSURE PORT
7/16-18 UNF THREAD (-4)
CONFORMS TO SAE J1926
TIGHTENING TORQUE 16±2 N·m

MAIN PRESSURE PORT
M27X2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 75±7 N·m

BREATHER / OIL FILLER

MAIN PRESSURE PORT
M14X1.5 ± 12.0
TIGHTENING TORQUE 20±2 N·m

PRIMARY CLUTCH
PRESSURE PORT
9/16-18 UNF THREAD (-6)
CONFORMS TO SAE J1926
TIGHTENING TORQUE 24±3 N·m

PRIMARY CLUTCH
ACTUATING SOLENOID
SEE NOTE A

SECONDARY CLUTCH
ACTUATING SOLENOID
SEE NOTE A

WATER OUTLET
FOR HEAT EXCHANGER
1 1/2-11 BSPP THREAD (G)

SECONDARY CLUTCH
PRESSURE PORT
9/16-18 UNF THREAD (-6)
CONFORMS TO SAE J1926
TIGHTENING TORQUE 24±3 N·m

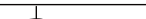
LUBE PRESSURE PORT
1/2-14 NPTF THREAD (DRY SEAL)
CONFORMS TO J476
TIGHTENING TORQUE 68±8 N·m

3/8-16 UNC, 7.6 DEEP
79.8mm CLEARANCE
REQUIRED TO REMOVE
SUCTION SCREEN

Ø19.4 DRILL THRU-
6 HOLES EQUALLY SPACED
USE GRADE 5 QUALITY CAPSCREWS
PER SAE J429 AND TORQUE TO S674
OR SERVICE MANUAL VALUES

DRAIN PLUG-
1 1/16-12 UNF THREAD (-12)
CONFORMS TO SAE J1926
TIGHTENING TORQUE 75±8 N·m
15 mm CLEARANCE REQUIRED
TO REMOVE DRAIN PLUG

EQUIPMENT SHOWN:
- MG-5090A PER PX10015 ASSEMBLY
- ELECTRICAL CONTROL VALVE WITH MECHANICAL TROLLING
- SAE #1 HOUSING ADAPTER
- SAE J744 127-4, 32-4 LIVE PTO GROUP
- PM10695B MOUNTED HEAT EXCHANGER
- 1016428V MOUNTING BRACKET

FIRST USE ASSEMBLY: PX10015 FIRST USE MODEL: MG-5090A SIMILAR TO:		WEIGHT: 255.24 kg VOLUME: 100.00 L	 THIRD ANGLE PROJECTION	MATERIAL: HEAT TREAT:	DATE: 04/22/2014 SCALE: 1:2 DRAWN BY: PM CHECKED BY: ALC APPROVED BY: ALC	TWIN(DISC) RACINE, WI 53403 - USA	
METRIC <small>NOTICE: THIS PRINT CONTAINS PROPRIETARY INFORMATION AND IS NOT TO BE USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF TWIN DISC, INC. SOLE SOURCE OF SUPPLY FOR THIS PRODUCT.</small>			UNLESS OTHERWISE SPECIFIED MACHINED DIMENSIONS ARE: X .125 X .000 TOL. RANGES ARE: ALL ANGLES TO BE DIMENSIONED G.D.D. TO THE CLOSEST .125 INCH PERIODIC TO .0005 INCH		DESCRIPTION: INSTALLATION MG-5090A		
				DRAWING NO. PX13290 SHEET 1 OF 1			