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

A. PROPORTIONAL CONTROL VALVE OPERATION.
1. WARNING DO NOT CONNECT VALVE COIL DIRECTLY TO BATTERY/POWER SUPPLY VOLTAGE.
2. OPERATION TO BE PERFORMED WITH ONLY TWIN-DISC CONTROL SYSTEM MODULES.

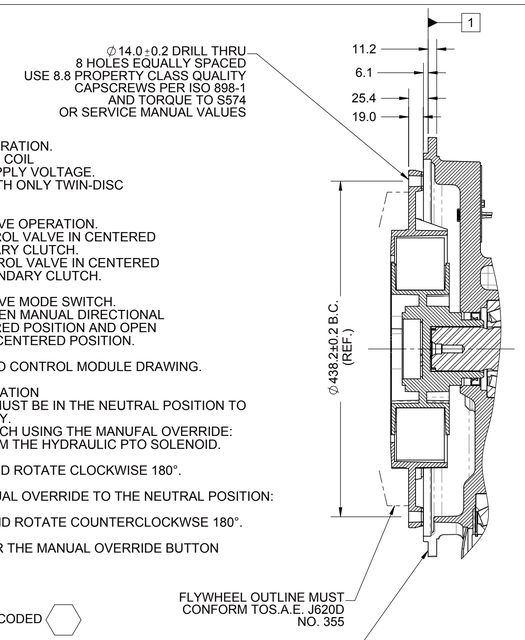
B. MANUAL DIRECTIONAL CONTROL VALVE OPERATION.
1. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PUSH TO ENGAGE PRIMARY CLUTCH.
2. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION, PULL TO ENGAGE SECONDARY CLUTCH.

C. MANUAL DIRECTIONAL CONTROL VALVE MODE SWITCH.
1. SWITCH IS NORMALLY CLOSED WHEN MANUAL DIRECTIONAL CONTROL VALVE IS IN THE CENTERED POSITION AND OPEN WHEN LEVER IS ACTUATED FROM CENTERED POSITION.
2. CURRENT = 20 AMPS MAX.
3. FOR WIRING SCHEMATIC, REFER TO CONTROL MODULE DRAWING.

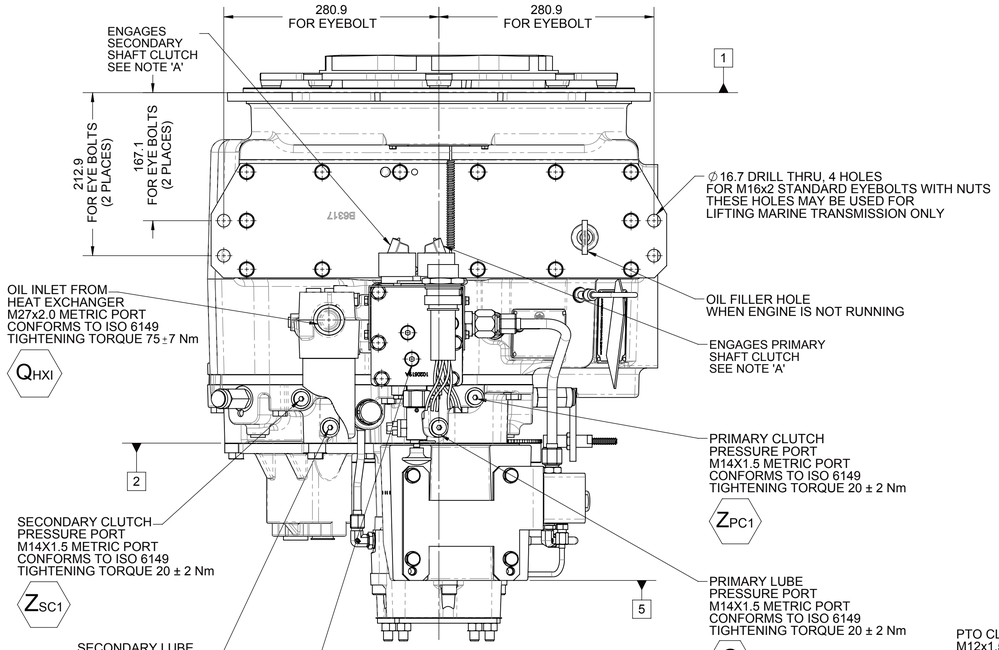
D. PTO VALVE MANUAL OVERRIDE OPERATION
1. THE MANUAL OVERRIDE BUTTON MUST BE IN THE NEUTRAL POSITION TO OPERATE SOLENOID ELECTRICALLY.
2. TO ENGAGE HYDRAULIC PTO CLUTCH USING THE MANUFAL OVERRIDE:
   a. REMOVE PROTECTIVE CAP FROM THE HYDRAULIC PTO SOLENOID.
   b. PUSH BUTTON DOWN.
   c. CONTINUE TO PUSH BUTTON AND ROTATE CLOCKWISE 180°.
   d. RELEASE BUTTON.
3. TO RETURN HYDRAULIC PTO MANUAL OVERRIDE TO THE NEUTRAL POSITION:
   a. PUSH BUTTON DOWN.
   b. CONTINUE TO PUSH BUTTON AND ROTATE COUNTERCLOCKWSE 180°.
   c. RELEASE BUTTON.
   d. INSTALL PROTECTIVE CAP OVER THE MANUAL OVERRIDE BUTTON

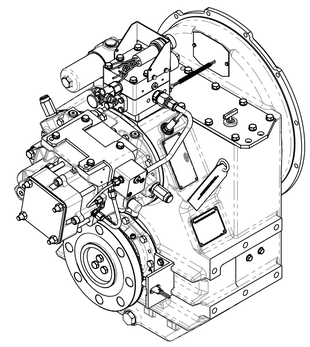
NOTE :

ALL POINTS AVAILABLE FOR TESTING ARE CODED ⬡



SECTION A-A





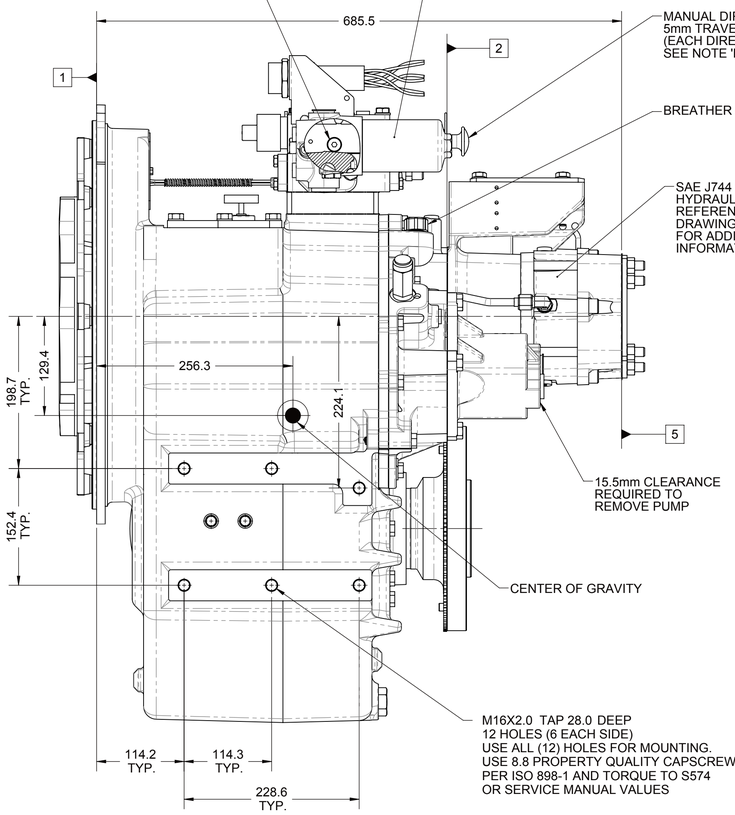
PTO CLUTCH PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO IS0 6149
TIGHTENING TORQUE 16 1.5 Nm
ZPTO

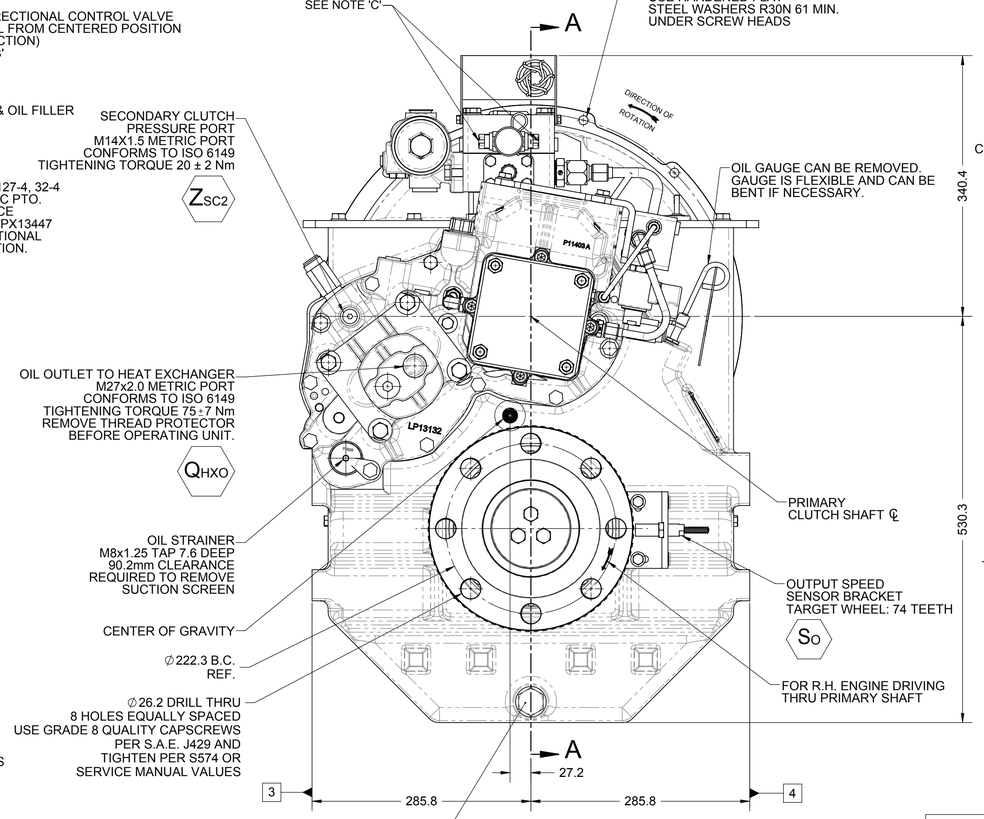
PRIMARY CLUTCH
PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16±1.5Nm
ZPC

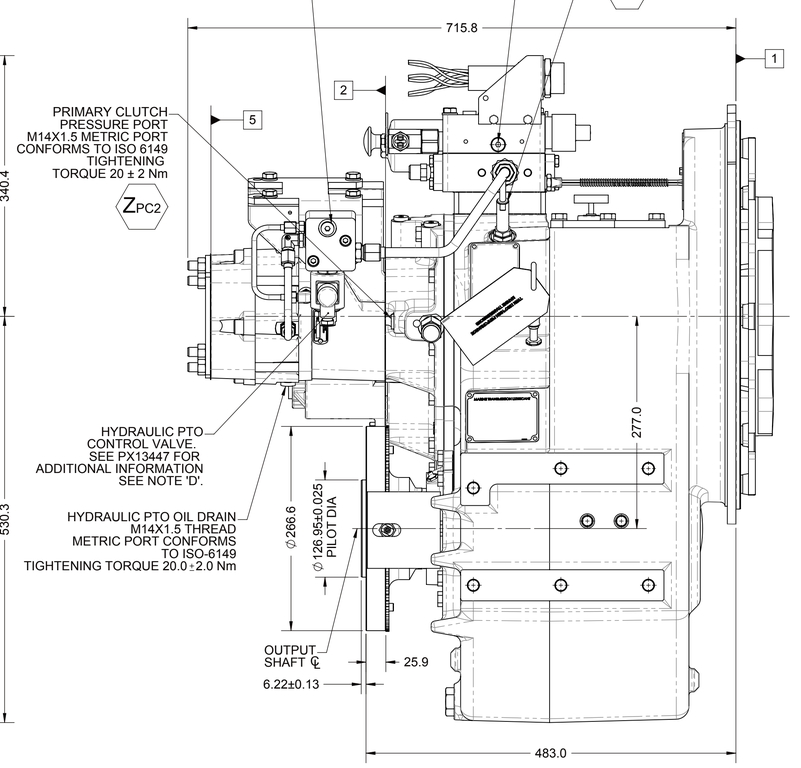
INPUT SPEED SENSOR PORT
5/8-18UNF-2B TH'D.
TARGET WHEEL 54 TEETH
SI

SECONDARY CLUTCH
PRESSURE PORT
M12X1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16±1.5Nm
ZSC

OIL FILTER
29.0 mm CLEARANCE
REQUIRED TO REMOVE
FILTER CANISTER.
TIGHTEN FILTER BOWL TO 20±2 Nm







EQUIPMENT SHOWN:
- MGX-5114DC PER PX13190
- SAE #1/SAE 355 CENTA CF-R-216-HR COUPLING
- GP VALVE WITH EC300 ADAPTER HARNESS
- PX13447 SAE 127-4, 32-4 HYDRAULIC PTO

REV	CHANGE NO.	DATE
-	NDWF-75270	08/18/2015

TWIN DISC
RACINE, WI 53403 - USA

FIRST USE ASSEMBLY:	PX13190
FIRST USE MODEL:	MGX-5114DC
SIMILAR TO:	
WEIGHT:	419.36kg
WR²:	kg-m²

METRIC

NOTICE: THIS PRINT CONTAINS PROPRIETARY INFORMATION AND IS NOT TO BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF **TWIN DISC, INCORPORATED**. THIS NOTICE IS NOT INTENDED TO NULLIFY OR LIMIT RIGHTS GRANTED TO THE U.S. GOVERNMENT OR OTHERS BY CONTRACT.

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED
MACHINED DIMENSIONS
X.X ±0.75
X.XX ±0.25
X.XXX ±0.13
ALL ANGULAR TOLERANCES ±1°
GEOMETRIC TOLERANCING
PER ASME Y14.5M 1994

MATERIAL:	
HEAT TREAT:	
DESCRIPTION:	INSTALLATION MGX-5114DC
DATE:	07/17/2015
SCALE	1:4
DRAWN BY:	MG
CHECKED BY:	DV
APPROVED BY:	DV
DWG SIZE:	A1
SHEET:	1 OF 1
REV:	-

PX13298A

1025420W Rev. -