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

NOTES:

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.

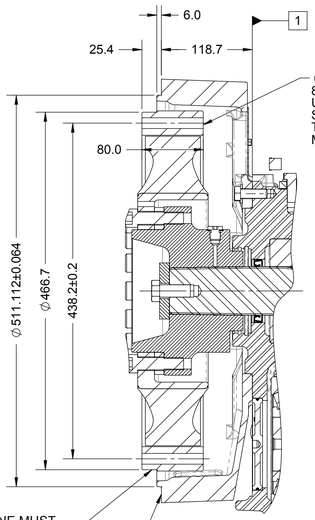
B. MANUAL DIRECTIONAL CONTROL VALVE OPERATION
1. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION PUSH TO ENGAGE PRIMARY CLUTCH.
2. WITH MANUAL DIRECTIONAL CONTROL VALVE IN CENTERED POSITION PULL TO ENGAGE SECONDARY CLUTCH.

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

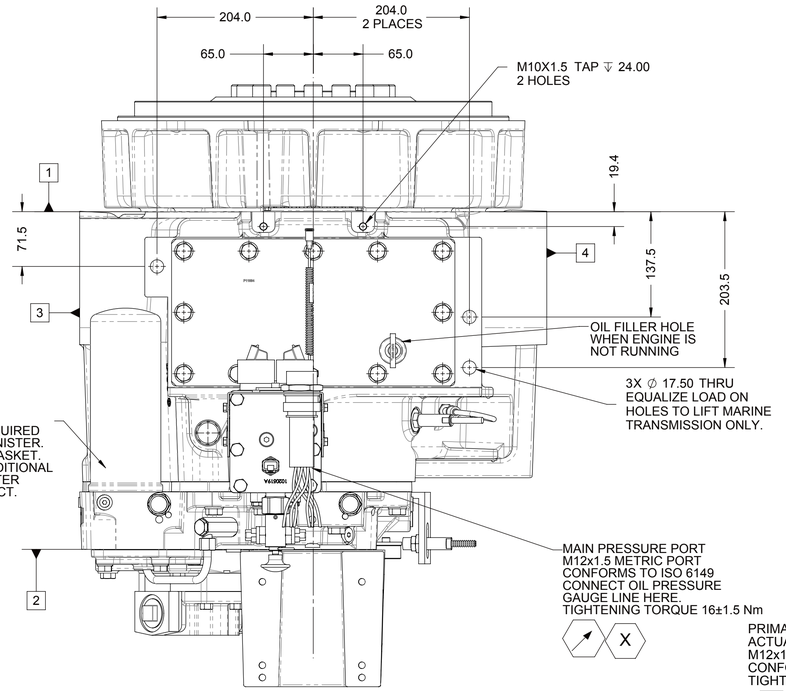
D. UNLESS OTHERWISE SPECIFIED FASTENER TORQUE VALUES AS PER S574 STANDARD.

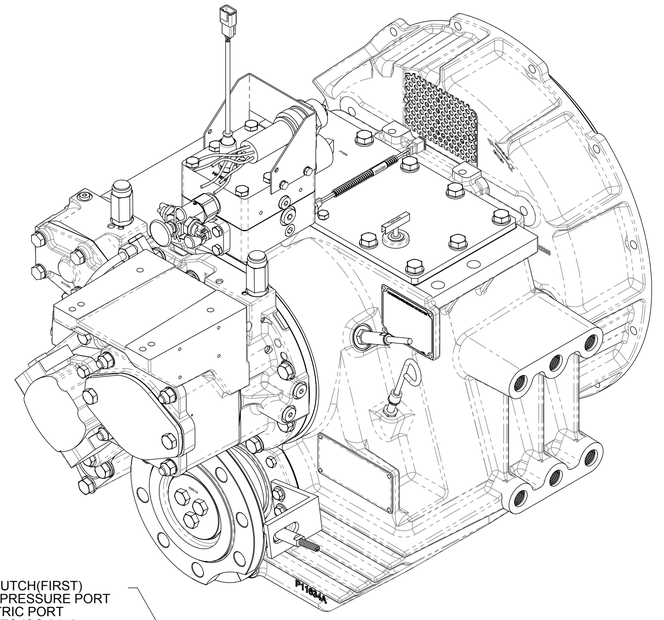
E. ALL POINTS AVAILABLE FOR TESTING ARE CODED ⬡.

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



SECTION A-A





SECONDARY CLUTCH (FIRST)
ACTUATING PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16±1.5 Nm
ZSC

OIL INLET FROM HEAT EXCHANGER
M33x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88±8 Nm
REMOVE ALUMINIUM THREAD
PROTECTOR BEFORE
OPERATING UNIT.
QHXI

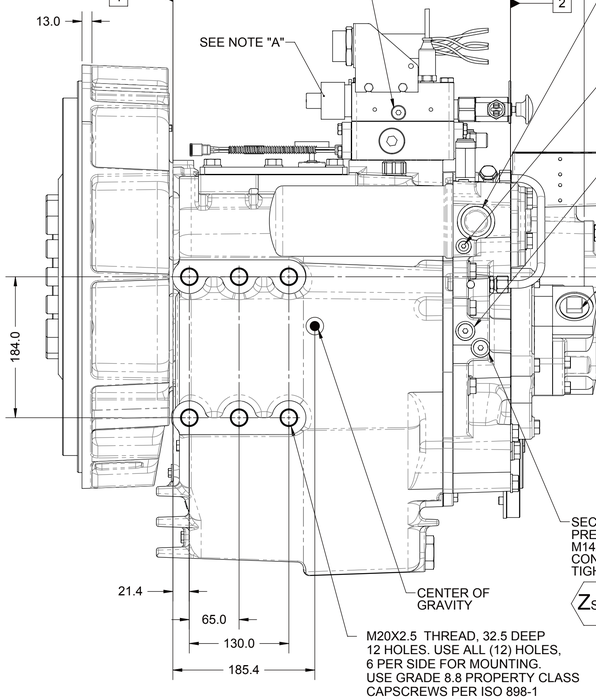
FILTER DRAIN
M10x1.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 12±1 Nm

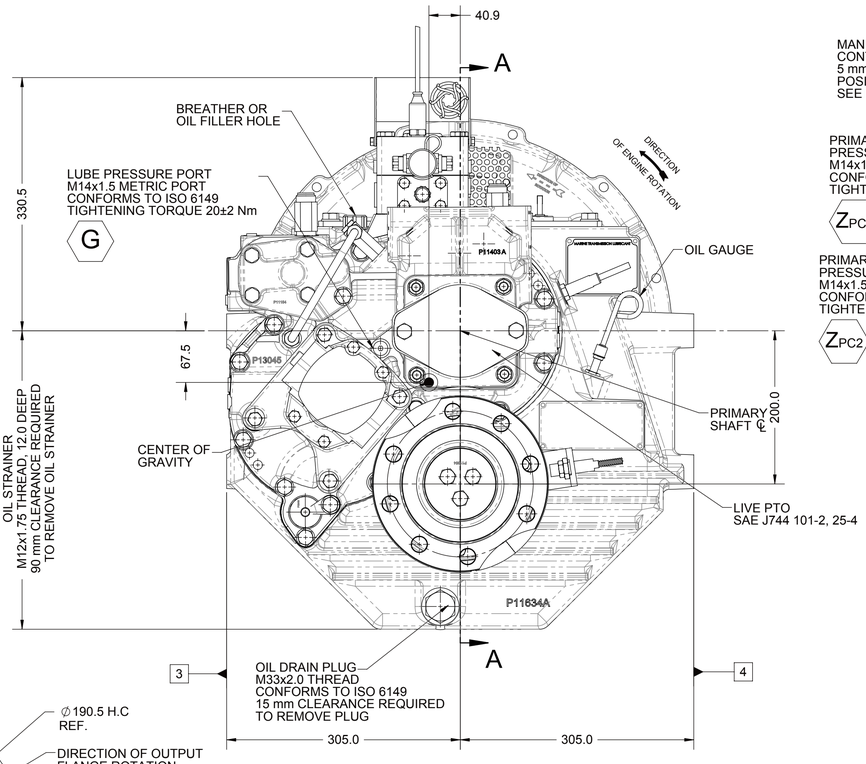
SECONDARY CLUTCH(FIRST)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm
ZSC1

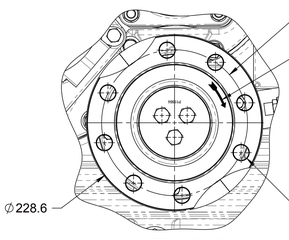
OIL OUTLET TO
HEAT EXCHANGER
M33x2.0 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 88±8 Nm
REMOVE ALUMINIUM THREAD
PROTECTOR BEFORE
OPERATING UNIT.
QHXO

21.3 mm CLEARANCE
REQUIRED TO
REMOVE PUMP

SECONDARY CLUTCH(SECOND)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm
ZSC2







VIEW B-B

PRIMARY CLUTCH(FIRST)
ACTUATING PRESSURE PORT
M12x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 16±1.5 Nm
ZPC

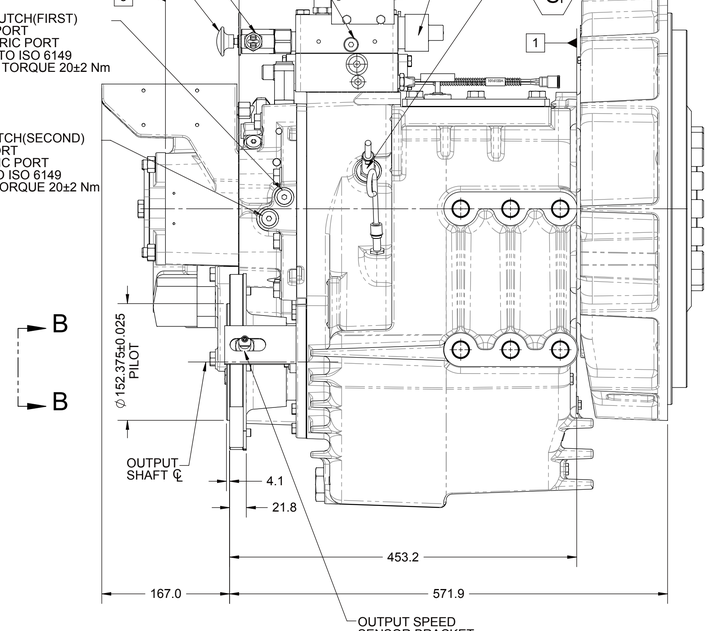
SEE NOTE "C"
SEE NOTE "A"

MANUAL DIRECTIONAL
CONTROL VALVE
5 mm TRAVEL FROM CENTERED
POSITION (EACH DIRECTION)
SEE NOTE 'B'

INPUT SPEED SENSOR PORT
5/8-18UNF-2B TH'D.
TARGET WHEEL 45 TEETH
SI

PRIMARY CLUTCH(FIRST)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm
ZPC1

PRIMARY CLUTCH(SECOND)
PRESSURE PORT
M14x1.5 METRIC PORT
CONFORMS TO ISO 6149
TIGHTENING TORQUE 20±2 Nm
ZPC2



EQUIPMENT SHOWN:
- MGX-5136SC PER 1027445 ASSEMBLY
- SAE #1/SAE 355 VULKAN VL-3011S
- GP VALVE WITH EC300 HARNESS
- SAE J744 101-2, 25-4 LIVE PTO

FIRST USE ASSEMBLY: 1027445	WEIGHT: 309.5 kg	MATERIAL:
FIRST USE MODEL: MGX-5136SC	WR²: kg-m²	HEAT TREAT:
SIMILAR TO: 1027608	THIRD ANGLE PROJECTION	DESCRIPTION: INSTALLATION MGX-5136SC
METRIC	UNLESS OTHERWISE SPECIFIED MACHINED DIMENSIONS X ±0.75, X.X ±0.25, X.XX ±0.13, ALL ANGULAR TOLERANCES ±1° GEOMETRIC TOLERANCING PER ASME Y14.5M 1994	DATE: 08/12/2015
		SCALE: 1:4
		DRAWN BY: PM
		CHECKED BY: NFC
		APPROVED BY: NFC
		DWG SIZE: A1
		SHEET: 1 OF 1
		REV: -

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REV.	CHANGE NO.	DATE
-	NDWF-06242	08/13/2015

TWIN DISC
RACINE, WI 53403 - USA

1027608B

F E D C B A