1 INPUT GROUP REFERENCE PLANE 2 PTO GROUP MOUNTING FACE 3 LEFT MOUNTING BRACKET FACE 4 RIGHT MOUNTING BRACKET FACE NOTES:
A. PROPORTIONAL CONTROL VALVE OPERATION – 336.5 *–* 1. WARNING DO NOT CONNECT VALVE COIL DIRECTLY
TO BATTERY/POWER SUPPLY VOLTAGE.

2. OPERATION TO BE PERFORMED WITH ONLY TWIN DISC
CONTROL SYSTEMS OR MODULES. B. MANUAL OVERRIDE VALVE OPERATION
 1. THE MANUAL OVERRIDE FEATURE FOR THE PRIMARY AND SECONDARY SOLENOIDS MUST NEVER BE ENGAGED 2. ROTATE THE MANUAL OVERRIDE SCREW COUNTER-CLOCKWISE UNTIL THE SCREWS STOPS FOR THE NEUTRAL POSITION 3. THE MANUAL OVERRIDE SCREWS FOR BOTH THE PRIMARY AND SECONDARY SOLENOIDE MUST BE IN TEH NEUTRAL POSITION TO OPERATE THE VALVE UTLIZING THE TWIN DISC CONTROL SYSTEM.

4. TO ENGAGE PRIMARY CLUTCH TURN THE PRIMARY
OVERRIDE SCREW IN A CLOCKWISE DIRECTION UNTIL THE \_ + - + -(--+---SCREW STOPS TURNING.

5. TO ENGAGE SECONDARY CLUTCH TURN THE SECONDARY OVERRIDE SCREW IN A CLOCKWISE DIRECTION UNTIL THE SCREW STOPS TURNING. C. UNLESS OTHERWISE SPECIFIED, FASTENER TORQUE VALUES AS PER S574 STANDARD. D. ALL POINTS AVAILABLE FOR TESTING ARE CODED E. REFERENCE S930 FOR TWIN DISC REQUIREMENTS FOR PRESSURE AND TEMPERATURE ALARM LEVELS.  $\bigcirc$   $\bigcirc$   $\bigcirc$ M10 x 1.5 TAP, 

FOR STANDARD EYE BOLTS.

THESE BOLTS MAY BE USED

FOR LIFTING MARINE

TRANSMISSION ONLY. ☑ OPTIONAL TEMPERATURE INDICATING SWITCH: CUSTOMER TO INSTALL IN A PIPE TEE IN THE HYDRAULIC LINE LEADING FROM THE MARINE TRANSMISSION PUMP TO THE HEAT EXCHANGER INLET.REFER TO HYDRAULIC DIAGRAM. ─OIL FILL PORT M22X1.5 METRIC PORT -MANUAL OVERRIDE Ø10.3 DRILL THRU,
7 HOLES LOCATED AS SHOWN.
BASED ON 12 HOLES EQUALLY
SPACED AND 5 SLOTS AS SHOWN
USE GRADE 5 QUALITY CAPSCREWS
PER S.A.E. J 429 AND TORQUE TO
S574 OR SERVICE MANUAL VALUES. PRIMARY CLUTCH (FIRST)— PRESSURE PORT M14x1.5 METRIC PORT CONFORMS TO ISO 6149 TIGHTENING TORQUE 20±2 Nm ENGAGES PRIMARY CLUTCH-SEE NOTES A & B USE HARDENED FLAT STEEL WASHERS R 30N:61 MIN. UNDER SCREW HEADS GRADE 5 MIN. AND TORQUE TO S574 VALUES. SAE #3 PER— √ **428.6 B.C.** ENGAGES SECONDARY CLUTCH\_ SEE NOTES A & B PRIMARY CLUTCH (SECOND)— PRESSURE PORT M14x1.5 METRIC PORT CONFORMS TO ISO 6149 TIGHTENING TORQUE 20±2 Nm INPUT SPEED SENSOR PORT— 5/8-18UNF-2B TH'D. TARGET WHEEL 51 TEETH SECONDARY CLUTCH (FIRST)-PRESSURE PORT M14x1.5 METRIC PORT OIL LEVEL GAUGE CONFORMS TO ISO 6149 TORQUE TO 20±2 Nm  $\langle Z_{SC1} \rangle$ LUBE PRESSURE— M14X1.5 METRIC PORT CONFORMS TO ISO 6149 TIGHTENING TORQUE: 20±2 Nm PRIMARY CLUTCH OIL INLET FROM HEAT — EXCHANGER 1/2-14 NPTF THEAD (DRYSEAL) REMOVE THREAD PROTECTOR BEFORE OPERATING UNIT. ☑ OIL PUMP OUTLET TO HEAT EXCHANGER

3/8-18 NPTF THREAD (DRYSEAL)

CONFORMS TO J476

TIGHTENING TORQUE 27 ± 3 lbf-ft.

REMOVE ALUMINIUM THREAD PROTECTOR

BEFORE OPERATING UNIT. MAIN PRESSURE PORT
M14x1.5 METRIC PORT
CONFORM STO ISO 6149
TIGHTENING TORQUE 20±2 Nm OUTPUT SPEED
SENSOR BRACKET TARGET WHEEL: 62 TEETH MOUNT GAGE IN PILOT HOUSE. PRESSURE GAGE LINE LOCATION. 1/4-18NPTF GAUGE THREAD (DRYSEAL) REMOVE THREAD PROTECTOR BEFORE OPERATING UNIT. 6.3 — | ─6X Ø 19.45 THRU HOLES EQUALLY SPACED SECONDARY CLUTCH (SECOND)— PRESSURE PORT M14x1.5 METRIC PORT 3.2 --- $\langle \nearrow \langle X \rangle$ 15.8 — CONFORMS TO ISO 6149 TORQUE TO 20±2 Nm CENTER OF \_\_\_ SECONDARY CLUTCH— SHAFT પૃ  $\langle Z_{SC2} \rangle$ FOR AHEAD PROPULSION WITH R.H. ENGINE DRIVING THRU PRIMARY SHAFT. 135.9 — OIL STRAINER— 41.5 SUMP DRAIN PLUG 7/8-14UNF TAPPED CONFORMS TO SAE J1926 TIGHTENING TORQUE 40 ±5 lb-ft EQUIPMENT SHOWN:
- MGX-5065SC PER PX12410 SERIES
- GP VALVE WITH EC050 CONTROL MODULE FIRST USE ASSEMBLY: PX12410A FIRST USE MODEL: MGX-5065SC SCALE:

1:2

DRAWN BY:

MG

CHECKED BY:

DV

APPROVED BY:

DV

APPROVED BY:

DV

APPROVED BY:

APPROVED BY:

DV

APPROVED BY:

APPROVED BY:

APPROVED BY:

DV

APPROVED BY:

APPROVED BY:

APPROVED BY:

DWG

SIZE:

A0

SHEET:

1 OF 1

-- SAE #3 HOUSING ADAPTER - PTO GROUP SAE J744 101-2/4 - 1016428AW MOUNTING BRACKET METRIC

G

BREATHER-

32.4

- NDWF-50329 10/06/2015
REV CHANGE NO. DATE

TWIN DISC.

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X.X ±0.25 X.XX ±0.13 ALL ANGULAR TOLERANCES ±1<sup>1</sup> GEOMETRIC TOLERANCING PER ASME Y14.5M 1994

INSTALLATION MGX-5065SC