| | | | 7 | | | | 6 | |
|---|---|---------------------------|-----------------------------|---------------------------------------|---------------------|--------------------------------|--|---------------|
| D6i Note | | | Temp Sensc | or P/N 22746 - F(| or monitoring hydro | fluid temp. Allow | s MCU to determine if co | ooler fa |
| 1. At KEY ON position; all indicator lam engine Gov actuator and EGR will com | | | should be ON | or OFF and for | CSM. SW versior | | r allows the hydraulic t | |
| charge fail lamp will remain on after if e 2. To check FPS command signal, with | ngine not running. | | be read on t | ne WST down | to 21 degrees F | Uhadaa | with them | |
| listen for the pitch dump valve to deactiv | | | Temp/Resista $122f = 810 o$ | | | Factory Setting | | |
| | | | 176f = 283 of | hms | | Fan Speed - 22 Fan ON - 140 | .00 RPM | |
| | | | The temp ser | nder is a neg coe | efficient type. | Fan OFF- 135 | | |
| Yanmar Engine Info Engine Speeds - MCU controlled | Relay Part Numb Engine Main/Accumulator | | Stroke Sense | or - contained wi | thin the stroke | | nsor - Sends command | |
| Low Idle - 1000 RPM | Engine Starter/Preheat. 32 | 2094 | | uires calibration of the speed has be | on new set up and | signal to MCU f | to drive stroke valve/stro | ke |
| High Idle - 1750 RPM High Speed - 2800 RPM | Cooler Fan/Lights. 12 | 2017 | Stroke reset. | te speed has be | en auj or zero | • | ration. Preset to 20% + | |
| S . | | | | 1 | Hyd Temp | Pedal Sensor | Pitch BI | RH |
| Electrical Harness P/N 22318 ECU Side - Engine | Cold Start Mode No | tes Harne | ss Part Numb | Stroke Sensor | Sensor | P/N 22764 | Dump Pitch Pitch Valve UP DN | Pitch UP |
| 22792 MCU Side - Whiteman Side | The cold start temperature | | e, LH, RH pitch | J1 | P2 | P3 | P4 P5 P6 | P7 |
| | settable with the service t factory defaults for HTX -S | • | er sensors | 1 3 2 | 1 2 | A C B | 1 2 1 2 1 2 | 1 |
| WST Information | are: | | ss 22681 | | ¥48 | — w50 — w49 | -w52 | |
| Service Tool Application File for both | Engine temp off: 160 °F | | | w47 w46 | 8 | | | |
| hardware versions: 22708RevE | Hydraulic temp off: 130 °F Hydraulic temp on: 125 °F | | | | | | | |
| MCU P/N - 22706 | J 1 | | | | | | | |
| FW File for MCU 22706: 22707103 | | NEG | | | NEG | | | |
| Parameter File for MCU 22706 | | Z1 | w44 | | | | | |
| HTX - 32584101 STX - 32585101 | Sensor power ground - P9 💿 | w1 | | | | | | $-\uparrow$ |
| | 5 VDC Sensor Power + - P8 | —w2Z2 w2POS | w45 | | | | | <u> </u> |
| MCU P/N 42072 | Pump Stroke Position Feedback - P25 | —w3—w4— | | | | | | |
| FW File for MCU 42072: 30441100 | Foot Pedal Position/ POT Signal - P32 | w5 | | | | | | |
| Parameter File for MCU 42072 | LH Pitch Position Feedback - P23 응 | | | | | | | |
| HTX - 32799100 STX - 32800100 | RH Pitch Position Feedback - P23 | | | | | | | -+ |
| | Output - Pitch Dump Valve - P40 | | | | | | | |
| | Output - LH Pitch Up - P43 Output - LH Pitch Down - P44 | —_w9 —_w10— | | | | | | |
| | Output - RH Pitch Up - P38 | | | | | | | |
| | Output - RH Pitch Down - P39 | W12 | | | | | | |
| | Itput Signal to Hydro Cooler Relay - P33 | —w14—— | | | | | | |
| | Opertor Input - Light Sw ON Signal - P7 | W13 | | | | | | |
| | Engie Fail Lamp <flash codes?=""> P12 유</flash> | —w17— | | | | | | |
| | Canbus - High - P3 ∞ Canbus - Low - P4 ▼ | w18 w19 | | | | | | |
| MCU | Canbus - Low - P4 Can Shield - P5 | w19 w20 | | | | | | |
| 1. Do Not HOT PLUG disconnect battery power when making ECU | Ш К | | | | | | | |
| connections. | CONTROLLER | | | | | | | |
| Output | | w21 | | | | | | |
| | t to Lofa Module; Aux 2, Figer Ind - P46 | —_w22— —_w23— | | | | | | |
| | | | | | | | | |
| | o Lofa Module; Aux 1 Lamp, CSM - P45 약 ofa Module; Engine Coolant Temp -P42 작 | —w25—— —w26——— | | | | | | |
| | | w27 | | | | | | |
| | | —w28 —W137 | | | | | | |
| | 5 | | | | | | | |
| | 8 | -00139 | | | | | | |
| | Output to AMBER Warning Lamp - P35 8 Output to RED STOP Lamp - P34 8 | —w29—— —w30——— | | | | | | |
| | Output to Cruise SW Light - P37 | —w31— | | | | | | |
| | put signal from Cruise Sw, + Batt - P11 Eng Speed Sw, Momentary Signal - P27 & | —w32— —w33——— | | | | | | |
| | put signal to Pitch Mode Sw Light - P36 | —w33——w34—— | | | | | | |
| | from Pitch Mode SW, Latching B+ - P10 | —w35——— | | | | | | |
| | Operator Input from Left Pitch SW - P19 😤 🚽 | —w36—— —w37——— | | | | | | |
| ч - | <u> </u> | | | | | | | |
| | P50,P49,P48,P47,P2 | —w39——— —w40———— | | | | | | |
| | Fused/ Switched Power | w40 w41 |] | | | | | |
| | | | | | Z20 | -W92 | | / |
| | P1 - Machine Ground | —w43——— | 6 | | | -vv93 | |] |
| | | | ZI | | | | | \bigwedge |
| | | | | | | —W95 | | |
| | | | -W89 | | -W90 W91 | | 66M66M | -W100 |
| | | TAD OND | | | | : | | 5 7 2 |
| | | T12 GND(| | | | | 1 3 2 1 3 2 D10 D10 | |
| RED Fault Lamp Condition: | | | T13 | | T14 T15 | | P18 P19 | P2 |
| Fault in Foot pedal Sensor Red Stop Lamp signal detected via | CAN-Rue from onging | r | _ | | | т | win Pitch LH Pitch SW SW | Pitch I SV |
| 2. Red Stop Lamp signal detected via Fault Indicator Lamps are direct output | - | 4 | FUSE | | FUSE (| Pitch Switches | | |
| r aur muloalor Lamps are unect output | | | FU; | | GROUND FUSE 3 | | Position, Center Off swite | ch |
| | | č | 5 20 A | MP | 0 5 AMP | DBL Pole SW - | | |
| AMBER WARNING Lamp Condition: 1.Amber warning detected via CAN-Bu | | ssure | | | | | Pitch Mode must be in | Smart |
| 2.Malfunction Indicator Lamp via CAN- | -Bus from engine. | | | | | Pitch position | | |
| Protect Lamp signal detected via CA With key on an Amber lamp will sho | | nsor does | | | | Hold Twin & Lef | ft down for 10 seconds to | ס Activ |
| not read a valid temp in 30 seconds. 5. Fault detected in Left Pitch position | | | | | | Smart Pitch L | • • | |
| Fault detected in Eert Filter position Fault detected in Right Pitch position Fault detected in Stroke Position set | n sensor. | | | | | | Indicates SYNC'd Fast - indicates Sync in | proces |
| A FRANK GEREGIEU IN OLIOKE FUSILION SEI | HJUI. | | | | | 3. Lamp On .9 | sec Off .1 sec - Indicated | |
| | | | | | | 4. Lamp Off - N | | |
| | | | | | | Note: Ensure P | itch Mode Switch is in M | anual |
| | | | | | | | | |
| 8 | | | 7 | | | | 6 | |



