GE IS200TSVCH2AJE

Servo Control Terminal Board

GE IS200TSVCH2AJE terminates the field circuits of a Mark VIe PSVO servo-control assembly; the matched I/O pack and servo driver determine the documented operating combination.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	IS200TSVCH2AJE
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	33cm x 17.7cm x 3.5cm
Country of Origin	USA
Manufacturer	General Electric
Product Category	Gas Turbine Control
Spare Part Number	IS200TSVCH2AJE
Weight	0.46 kg

Buyer information / Overview

The terminal board is one component of the servo loop. PSVOH1A is paired with IS210WSVOH1A, while the cited H1B combination uses IS410WSVOH1A; the driver identity must be checked along with TSVCH2A.

Loop separation

Position feedback, servo drive and speed-sensor circuits have different electrical duties.

Driver-dependent fit

The PSVO generation determines the documented WSVO pairing.

Field termination role

A terminal board replacement preserves the loop wiring rather than supplying an independent servo controller.

The TSVCH2A design links the PSVO servo I/O pack to field connections and the matched WSVO driver. For the documented H1A combination the driver is IS210WSVOH1A; the H1B combination specifies IS410WSVOH1A. Preserve these complete identities when selecting a terminal-board spare.

LVDT excitation is an AC source, while the servo output and speed-sensor supply have distinct DC limits. A terminal that measures a plausible voltage is therefore not interchangeable with another circuit of similar appearance. Track excitation, feedback, coil and sensor-power circuits independently through the installed drawing.

The published electrical table describes the complete approved combination. Use it to review connected-device demands and supply conditions, then verify actual feedback polarity and controlled actuator response using the plant commissioning procedure. The board alone does not establish loop tuning, actuator compatibility or a safety classification.

Controller platform reference: Mark VIe PSVO servo interface. Retain the documented GE configuration.

Technical Specifications

Assembly supply voltage	27.4 to 28.6 V DC
Assembly supply current, maximum	1.0 A
LVDT input, maximum	7.14 V AC
LVDT excitation voltage	6.86 to 7.14 V AC
LVDT excitation frequency	3.0 to 3.4 kHz
LVDT excitation current, maximum	127 mA AC
Servo output voltage	-10 to +10 V DC
Servo output current	-120 to +120 mA DC
Speed-input voltage	-15 to +15 V DC
Speed-sensor supply	22.8 to 25.2 V DC
Speed-sensor supply current	40 mA DC

Technical source: GE Mark VIe and Mark VIeS Controls Equipment HazLoc Instruction Guide GEH-6725R. Electrical values are ratings of the documented PSVO + TSVCH2A + matched WSVO combination, not standalone output or power ratings of the passive terminal board. The JE revision must match the installed hardware record.
Apter Power product summary. Original technical pages and a field guide are available in Downloads.

Applications / Compatibility

Use TSVCH2A as the terminal-board component in the documented PSVO/WSVO architecture, retaining the full JE hardware identity.

Compatibility depends on the I/O-pack generation, servo-driver selection and field-device electrical requirements; the assembly ratings do not describe an independent board output.

PSVOH1A assembly

Check the IS210WSVOH1A driver when restoring the documented H1A combination. Retain the actuator and feedback wiring assigned to the installed servo loop.

PSVOH1B assembly

The cited H1B combination identifies IS410WSVOH1A. Confirm the actual driver marking instead of carrying over an H1A driver assumption.

LVDT feedback circuit

Match the transducer to the documented AC excitation and input conditions. Keep winding identity and polarity traceable through the field termination.

Servo and speed interfaces

Review the servo-coil demand separately from the speed-sensor supply. Their voltage, current and signal duties differ despite sharing the assembly.

Product Precautions

Prepare GE IS200TSVCH2AJE using the following checks for its documented interface and system duty.

Check the driver combination

Record PSVO, TSVCH2AJE and WSVO markings before removing the assembly.

Separate AC excitation

Do not land an LVDT excitation circuit on a DC servo or sensor-power terminal.

Review coil demand

Compare the actuator circuit with the documented assembly output limits.

Retain feedback polarity

Tag LVDT winding and return connections against the loop drawing.

Prevent unintended movement

Place the actuator and process in the approved maintenance state before field tests.

Prove response under control

Confirm command direction, measured position and controlled motion together before release.

Lifecycle Status

IS200TSVCH2AJE is a PSVO servo-loop termination reference. A factory lifecycle phase for the complete H2AJE revision is unconfirmed.

Retain the PSVO generation and its complete WSVO driver designation. The documented H1A and H1B combinations use different driver assemblies even when the terminal-board family remains TSVCH2A.

The terminal board, PSVO pack and WSVO driver are separate supply items unless the quotation lists an assembled combination.

Available Unit Details

Offered reference	GE IS200TSVCH2AJE
Identity check	Request photographs of H2AJE, the terminal identification and the connections used by the fitted PSVO and WSVO combination.
Physical review	The offer covers the terminal board only unless the pack and driver are itemized. Feedback direction, loaded excitation and actuator travel remain commissioning checks on the matched loop.
Included items	one servo terminal board; I/O pack, driver and actuator equipment separately identified

Request available-unit photos and details: sales13@apterpower.com

Technical notes

Assembly ratings	The tabulated electrical values require the documented PSVO and WSVO combination.
Driver selection	The cited H1A and H1B combinations use different complete WSVO designations.
Loaded loop evaluation	Measure excitation at the connected LVDT using an AC/frequency-capable method. Evaluate servo drive and position feedback as separate paths before controlled movement.

Alternative Names

GE IS200TSVCH2AJE

Frequently Asked Questions (FAQ)

1. Does IS200TSVCH2AJE operate as a standalone servo controller?

No. The documented function depends on the PSVO I/O pack and matched WSVO driver. Identify all three components and the actuator loop before judging compatibility.

2. Which driver check is necessary when IS200TSVCH2AJE is used with PSVOH1B?

The cited H1B combination specifies IS410WSVOH1A, whereas the H1A combination specifies IS210WSVOH1A. Compare the actual driver marking and applicable assembly approval rather than matching only WSVO.

3. Can the LVDT excitation on IS200TSVCH2AJE be treated as a DC sensor supply?

No. The published excitation is AC at a nominal 3.2 kHz. Keep that circuit separate from the DC speed-sensor power and servo-output paths, and verify the terminal assignments before energizing.

4. How should the supply-current figure for IS200TSVCH2AJE be interpreted?

The 1 A maximum belongs to the documented servo-control combination. It is not a standalone terminal-board load allowance or an available current budget for arbitrary added field devices.

5. What must be reviewed before connecting a different actuator to IS200TSVCH2AJE?

Check coil voltage/current demand, the matched driver, feedback transducer conditions and the approved loop configuration. Matching the connector or terminal position alone is insufficient.

6. Why can correct excitation voltage still leave a loop using IS200TSVCH2AJE with incorrect position feedback?

Excitation magnitude alone does not prove winding identity, polarity or the configured position relationship. Reconcile the LVDT wiring and compare commanded and measured movement under a controlled test.

7. How can a sensor-supply mix-up be detected before motion with IS200TSVCH2AJE?

Trace the LVDT excitation, speed-sensor DC supply and servo-output terminals against the loop drawing. Measure AC magnitude and frequency on the LVDT path and DC on the speed-sensor path; these are different circuits despite similar connector locations.

8. What helps distinguish reversed feedback from insufficient actuator drive on IS200TSVCH2AJE?

Under the approved motion test, observe command direction, actuator movement and measured position together. Opposite-sense feedback points toward the feedback relationship; absent movement also requires a driver, coil-demand and wiring review. Do not correct either fault by changing excitation arbitrarily.

Downloads

The technical reference covers Mark VIe PSVO servo interface. The independent field guide develops psvo pairing and servo-loop boundary review.

IS200TSVCH2AJE Original Technical Reference Excerpt	Selected original manufacturer pages for the applicable interfaces and technical data. PDF · 1 pages · 252.2 KB.
IS200TSVCH2AJE Installation & Commissioning Guide	PSVO Pairing and Servo-Loop Boundary Review. Resolve the driver generation and separate excitation, position feedback and coil circuits before transferring any field connection. PDF · 2 pages · 92 KB.

Selected original technical pages and a separate installation guide support this product.

What happens after you enquire

Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks

Include IS200TSVCH2AJE and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered IS200TSVCH2AJE reference with the installed equipment and applicable GE documentation.

Service and support

Dispatch Planning	Confirm stock and lead time with our team.
Dedicated Manager	Personalized one-to-one VIP service
ISO 9001:2015 Certified	Trusted quality management
Warranty Policy	Review the applicable warranty coverage and claim process.
Return Notice	Check the return process and obtain approval before sending an item back.
Shipping Method	Review shipping arrangements, transit estimates and delivery responsibilities.
Parts Availability	Browse stock listings and confirm current availability with our team.
How to order	See how to submit an enquiry, review a quotation and confirm an order.

Discuss your requirement

Send the full marking, label photos, quantity and required date. Our team will review the available sourcing options with you.

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Related product references

Separate supply references; listing does not establish interchangeability.

GE IS200EISBH1AAB	Exciter ISBus Communication Board; separate supply reference
GE IS200EPSMG1AED	Exciter Power Supply Module; separate supply reference

Discuss IS200TSVCH2AJE and the installed application with Apter Power.
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